

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P208581

Luminaire Tested: **XTOR12BRL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P208581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27753)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR12BRL  
Description: CROSSTOUR WALL MOUNT LED WITH REFRACTIVE LENS  
  
Light Source: EATON LED 5000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13458 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G3

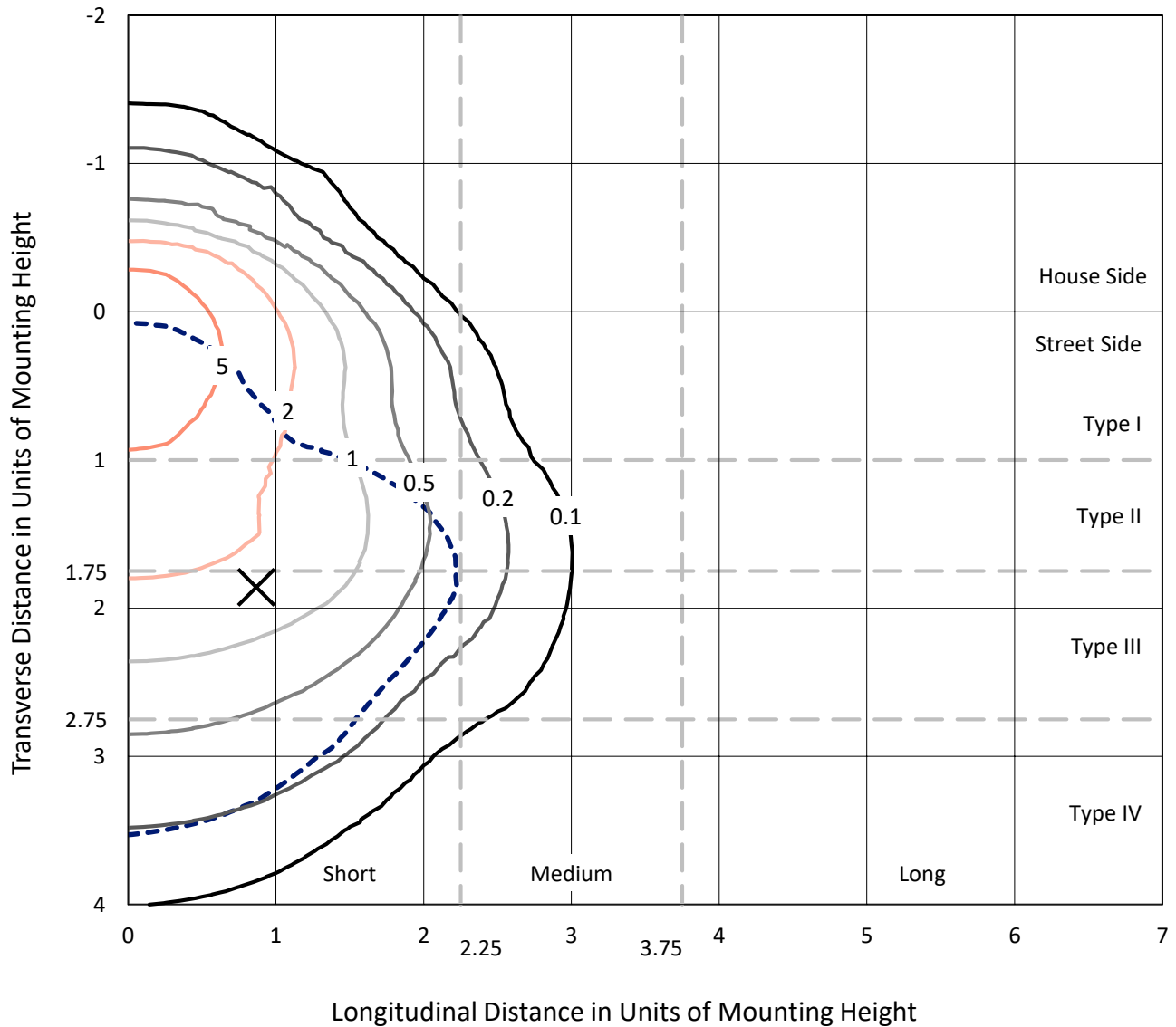
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

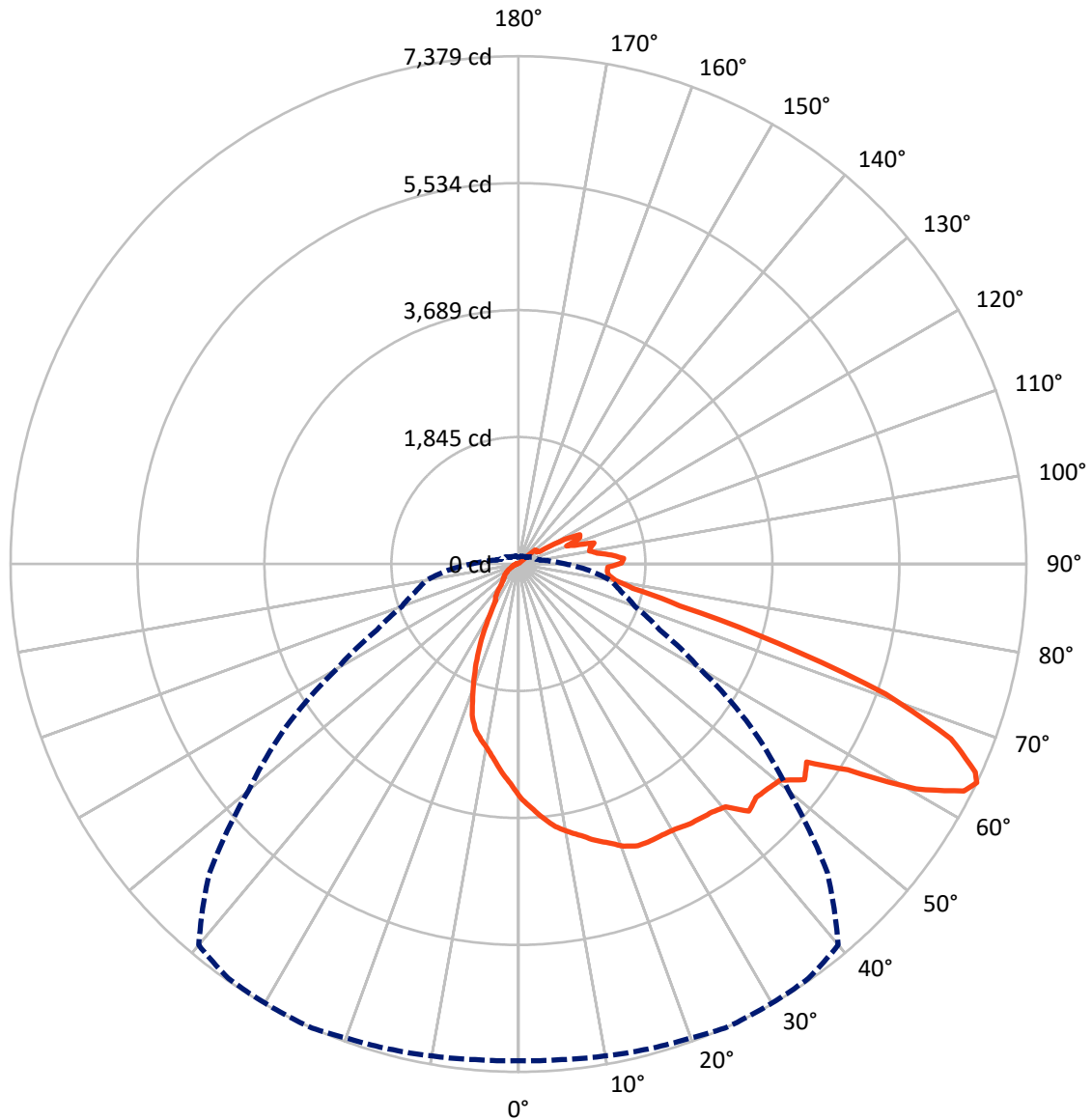
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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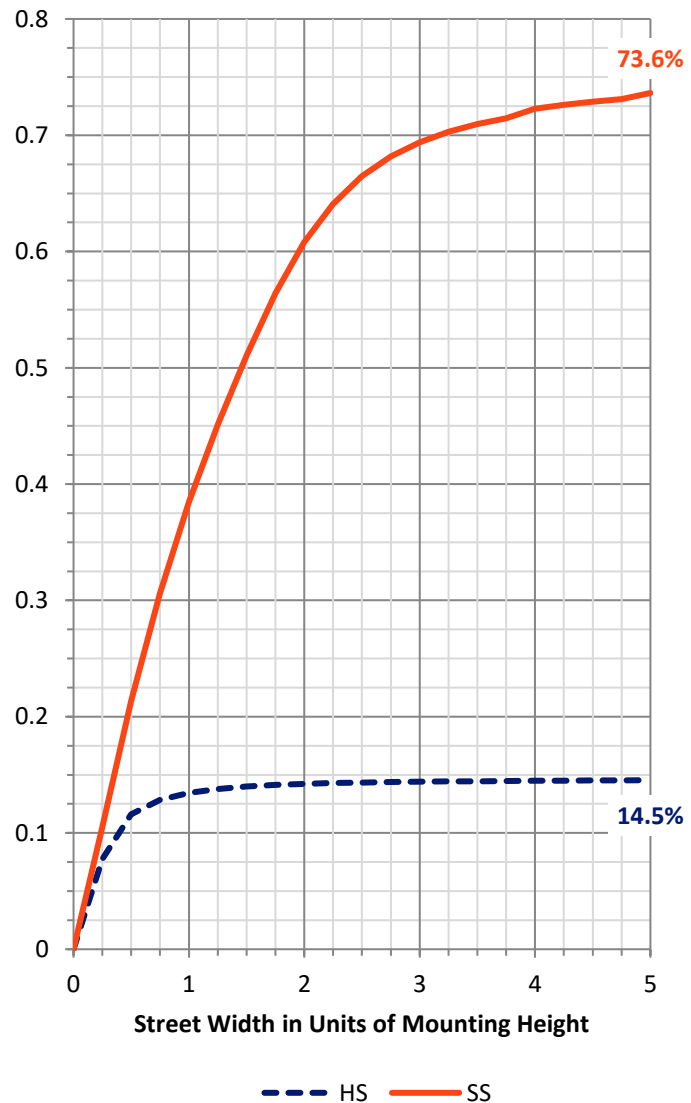
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1991.3	62.7	2054.0
	% Fixture	14.8	0.5	15.3
<b>Street Side</b>	Lumens	10263.5	1140.5	11404.0
	% Fixture	76.3	8.5	84.7
<b>Total</b>	Lumens	12254.9	1203.2	13458.0
	% Fixture	91.1	8.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	2.4
10°-20°	931.1	6.9
20°-30°	1385.0	10.3
30°-40°	1653.0	12.3
40°-50°	1861.6	13.8
50°-60°	2039.3	15.2
60°-70°	2387.9	17.7
70°-80°	1155.7	8.6
80°-90°	519.2	3.9
90°-100°	472.6	3.5
100°-110°	331.7	2.5
110°-120°	278.5	2.1
120°-130°	108.8	0.8
130°-140°	11.6	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12254.9	91.1
0°-180°	13458.0	100.0

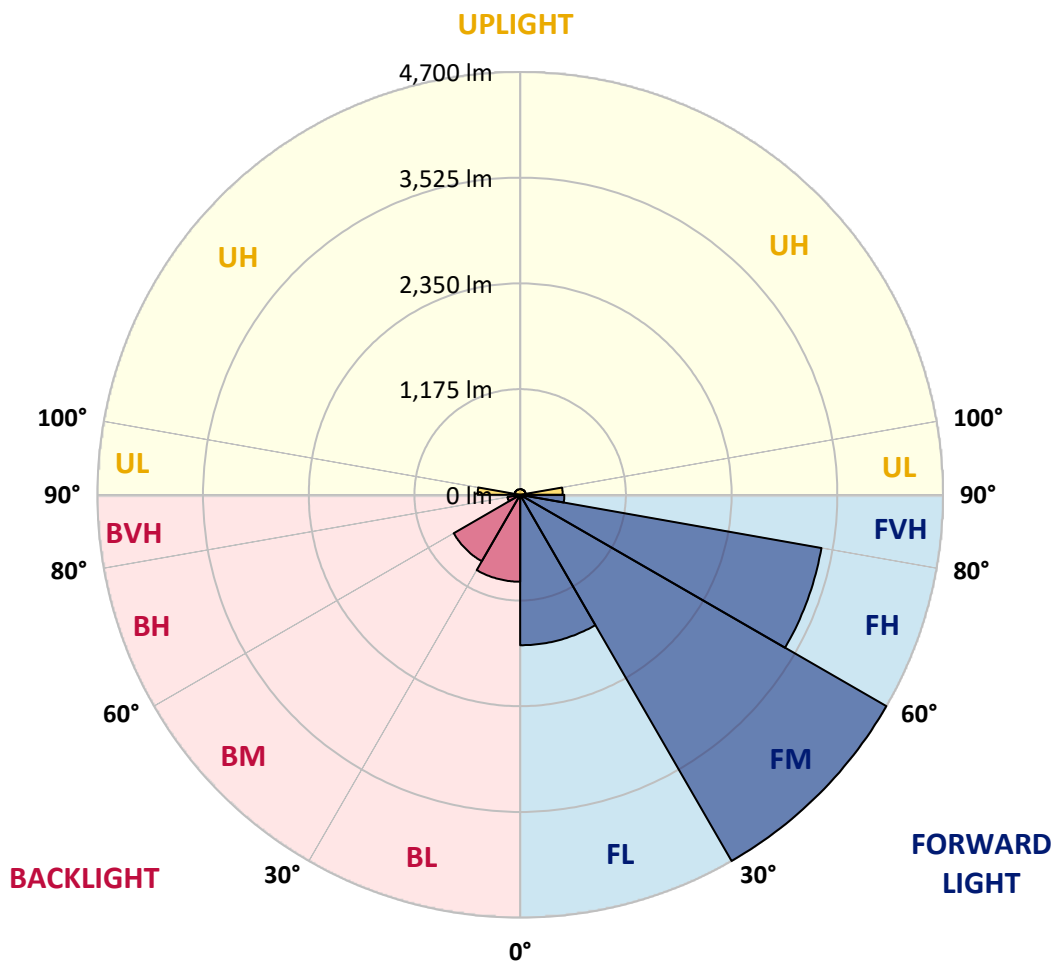


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.0	12.4			
FM (30°-60°)	4700.0	34.9			
FH (60°-80°)	3400.6	25.3			G2/5000
FVH (80°-90°)	490.9	3.6			G3/500
BL (0°-30°)	966.1	7.2	B2/1000		
BM (30°-60°)	853.9	6.3	B1/1000		
BH (60°-80°)	143.0	1.1	B1/500		G1/500
BVH (80°-90°)	28.4	0.2			G1/100
UL (90°-100°)	472.6	3.5		U3/500	
UH (100°-180°)	62.7	0.5		U3/500	

**BUG Rating: B2-U4-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	24°	25°	30°	35°	40°	45°
0°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
2.5°	3563.9	3557.9	3564.9	3558.9	3550.9	3545.9	3544.9	3533.9	3521.9	3514.9	3526.9
5°	3738.9	3730.9	3734.9	3725.9	3711.9	3703.9	3702.9	3683.9	3664.9	3658.9	3652.9
7.5°	3892.9	3889.9	3892.9	3878.9	3865.9	3855.9	3850.9	3826.9	3798.9	3776.9	3757.9
10°	4013.9	4008.9	4007.9	3993.9	3981.9	3959.9	3954.9	3929.9	3898.9	3869.9	3838.9
12.5°	4121.9	4108.9	4104.9	4092.9	4074.9	4050.9	4048.9	4016.9	3983.9	3948.9	3914.9
15°	4245.9	4237.9	4234.9	4218.9	4195.9	4170.9	4165.9	4118.9	4071.9	4027.9	3993.9
17.5°	4389.9	4372.9	4369.9	4343.9	4310.9	4272.9	4260.9	4210.9	4160.9	4109.9	4058.9
20°	4509.9	4506.9	4498.9	4476.9	4441.9	4389.9	4376.9	4304.9	4234.9	4163.9	4108.9
22.5°	4533.9	4535.9	4522.9	4509.9	4486.9	4456.9	4447.9	4395.9	4323.9	4230.9	4149.9
25°	4545.9	4550.9	4540.9	4517.9	4494.9	4463.9	4456.9	4412.9	4373.9	4310.9	4213.9
27.5°	4582.9	4583.9	4566.9	4533.9	4500.9	4466.9	4457.9	4414.9	4369.9	4323.9	4266.9
30°	4668.9	4662.9	4634.9	4592.9	4537.9	4490.9	4472.9	4405.9	4351.9	4302.9	4242.9
32.5°	4705.9	4693.9	4664.9	4633.9	4588.9	4535.9	4518.9	4422.9	4337.9	4254.9	4202.9
35°	4756.9	4740.9	4709.9	4657.9	4615.9	4564.9	4542.9	4463.9	4359.9	4244.9	4142.9
37.5°	4844.9	4824.9	4796.9	4736.9	4639.9	4593.9	4572.9	4475.9	4376.9	4260.9	4115.9
40°	5015.9	4996.9	4947.9	4879.9	4753.9	4659.9	4637.9	4505.9	4374.9	4262.9	4119.9
42.5°	5183.9	5165.9	5131.9	5106.9	5056.9	4935.9	4911.9	4715.9	4472.9	4274.9	4127.9
45°	5089.9	5068.9	5035.9	4970.9	4929.9	4864.9	4840.9	4793.9	4732.9	4503.9	4191.9
47.5°	5190.9	5166.9	5131.9	5089.9	4960.9	4897.9	4876.9	4748.9	4639.9	4513.9	4369.9
50°	5343.9	5315.9	5256.9	5202.9	5080.9	4965.9	4934.9	4756.9	4589.9	4419.9	4228.9
52.5°	5595.9	5574.9	5516.9	5469.9	5368.9	5241.9	5203.9	4979.9	4680.9	4355.9	4051.9
55°	5847.9	5808.9	5700.9	5542.9	5324.9	5141.9	5081.9	4832.9	4574.9	4323.9	4024.9
57.5°	6145.9	6125.9	6096.9	5996.9	5818.9	5661.9	5639.9	5346.9	5003.9	4679.9	4384.9
60°	6815.9	6822.9	6840.9	6838.9	6726.9	6634.9	6637.9	6460.9	6171.9	5856.9	5325.9
62.5°	7205.9	7212.9	7238.9	7275.9	7282.9	7300.9	7262.9	7267.9	7181.9	7002.9	6148.9
64°	7217.9	7228.9	7257.9	7293.9	7327.9	7377.9	7378.9	7365.9	7349.9	7226.9	6350.9
65°	7144.9	7153.9	7176.9	7197.9	7230.9	7277.9	7294.9	7288.9	7312.9	7180.9	6333.9
67.5°	6629.9	6626.9	6638.9	6684.9	6701.9	6727.9	6778.9	6756.9	6844.9	6501.9	5741.9
70°	5831.9	5806.9	5782.9	5748.9	5659.9	5599.9	5663.9	5463.9	5374.9	4954.9	4427.9
72.5°	4625.9	4571.9	4505.9	4373.9	4125.9	3909.9	3947.9	3518.9	3100.0	2953.0	3034.0
75°	3219.0	3139.0	3028.0	2862.0	2612.0	2419.0	2426.0	2161.0	1961.0	2032.0	2227.0
77.5°	2239.0	2186.0	2123.0	2017.0	1844.0	1706.0	1698.0	1509.0	1408.0	1598.0	1825.0
80°	1780.0	1759.0	1713.0	1639.0	1538.0	1452.0	1428.0	1306.0	1215.0	1346.0	1490.0
82.5°	1660.0	1640.0	1591.0	1519.0	1404.0	1332.0	1316.0	1209.0	1078.0	1118.0	1182.0
85°	1586.0	1574.0	1545.0	1489.0	1398.0	1315.0	1295.0	1162.0	1009.0	935.0	947.0
87.5°	1532.0	1524.0	1484.0	1437.0	1377.0	1320.0	1301.0	1214.0	1082.0	905.0	845.0
90°	1767.0	1766.0	1741.0	1687.0	1621.0	1524.0	1497.0	1383.0	1173.0	910.0	842.0
92.5°	1817.0	1812.0	1776.0	1724.0	1629.0	1554.0	1532.0	1416.0	1199.0	939.0	915.0
95°	1614.0	1600.0	1557.0	1518.0	1432.0	1372.0	1357.0	1281.0	1167.0	962.0	926.0
97.5°	1222.0	1215.0	1180.0	1173.0	1124.0	1140.0	1152.0	1199.0	1107.0	888.0	798.0
100°	933.0	939.0	938.0	966.0	1000.0	1038.0	1051.0	1097.0	956.0	703.0	651.0
102.5°	1028.0	1027.0	1034.0	1056.0	1071.0	1079.0	1073.0	1026.0	794.0	573.0	594.0
105°	1161.0	1170.0	1189.0	1185.0	1183.0	1155.0	1142.0	987.0	732.0	542.0	583.0
107.5°	1064.0	1071.0	1081.0	1063.0	994.0	885.0	887.0	781.0	640.0	507.0	577.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	24°	25°	30°	35°	40°	45°
110°	1057.0	1043.0	1015.0	934.0	844.0	779.0	748.0	661.0	543.0	451.0	491.0
112.5°	1246.0	1228.0	1181.0	1101.0	1033.0	984.0	965.0	884.0	783.0	663.0	601.0
115°	1155.0	1152.0	1151.0	1133.0	1086.0	1007.0	990.0	918.0	834.0	680.0	570.0
117.5°	892.0	920.0	886.0	854.0	809.0	771.0	764.0	715.0	634.0	515.0	414.0
120°	368.0	372.0	357.0	361.0	348.0	353.0	358.0	370.0	380.0	354.0	324.0
122.5°	279.0	282.0	289.0	300.0	313.0	322.0	325.0	337.0	359.0	353.0	315.0
125°	283.0	286.0	295.0	307.0	314.0	323.0	324.0	336.0	349.0	334.0	282.0
127.5°	296.0	298.0	304.0	316.0	327.0	325.0	326.0	333.0	333.0	304.0	256.0
130°	312.0	314.0	316.0	321.0	318.0	314.0	309.0	295.0	287.0	271.0	230.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
2.5°	3526.9	3518.9	3509.9	3493.9	3479.9	3447.9	3430.9	3412.9	3385.0	3374.0	3362.0
5°	3644.9	3621.9	3604.9	3573.9	3541.9	3495.9	3466.9	3429.9	3387.0	3364.0	3335.0
7.5°	3738.9	3707.9	3681.9	3637.9	3591.9	3527.9	3484.9	3429.9	3373.0	3335.0	3296.0
10°	3811.9	3770.9	3724.9	3668.9	3612.9	3536.9	3476.9	3409.0	3338.0	3285.0	3229.0
12.5°	3879.9	3835.9	3776.9	3707.9	3634.9	3549.9	3469.9	3393.0	3309.0	3240.0	3170.0
15°	3953.9	3901.9	3834.9	3754.9	3666.9	3567.9	3472.9	3379.0	3284.0	3199.0	3115.0
17.5°	4000.9	3945.9	3874.9	3781.9	3683.9	3571.9	3465.9	3354.0	3241.0	3140.0	3037.0
20°	4036.9	3959.9	3887.9	3783.9	3679.9	3551.9	3437.9	3311.0	3182.0	3068.0	2950.0
22.5°	4062.9	3978.9	3886.9	3777.9	3667.9	3531.9	3399.0	3258.0	3118.0	2987.0	2853.0
25°	4102.9	4000.9	3894.9	3765.9	3653.9	3511.9	3362.0	3209.0	3050.0	2905.0	2751.0
27.5°	4158.9	4029.9	3900.9	3757.9	3633.9	3481.9	3318.0	3157.0	2980.0	2820.0	2661.0
30°	4183.9	4055.9	3893.9	3742.9	3594.9	3440.9	3266.0	3089.0	2902.0	2728.0	2572.0
32.5°	4133.9	4057.9	3886.9	3713.9	3544.9	3379.0	3202.0	3012.0	2812.0	2630.0	2481.0
35°	4073.9	4008.9	3875.9	3678.9	3497.9	3311.0	3132.0	2932.0	2716.0	2527.0	2371.0
37.5°	4002.9	3932.9	3831.9	3647.9	3436.9	3244.0	3063.0	2853.0	2624.0	2424.0	2255.0
40°	3952.9	3836.9	3738.9	3608.9	3381.0	3177.0	2990.0	2762.0	2524.0	2308.0	2118.0
42.5°	3948.9	3764.9	3646.9	3541.9	3331.0	3116.0	2912.0	2682.0	2425.0	2191.0	1972.0
45°	3967.9	3738.9	3543.9	3438.9	3272.0	3047.0	2837.0	2589.0	2320.0	2071.0	1816.0
47.5°	4001.9	3682.9	3436.9	3311.0	3193.0	2971.0	2766.0	2499.0	2215.0	1946.0	1613.0
50°	3960.9	3649.9	3332.0	3128.0	3061.0	2870.0	2650.0	2374.0	2081.0	1755.0	1389.0
52.5°	3792.9	3507.9	3282.0	3015.0	2897.0	2739.0	2507.0	2238.0	1916.0	1516.0	1141.0
55°	3779.9	3515.9	3148.0	2886.0	2696.0	2562.0	2330.0	2065.0	1665.0	1246.0	898.0
57.5°	3997.9	3550.9	3112.0	2690.0	2441.0	2340.0	2114.0	1843.0	1389.0	979.0	669.0
60°	4500.9	3728.9	3085.0	2502.0	2169.0	2027.0	1853.0	1534.0	1083.0	733.0	491.0
62.5°	4977.9	3996.9	3044.0	2354.0	1947.0	1738.0	1544.0	1213.0	815.0	549.0	379.0
64°	5117.9	4119.9	3045.0	2265.0	1803.0	1544.0	1353.0	1022.0	684.0	470.0	329.0
65°	5142.9	4151.9	3049.0	2201.0	1711.0	1405.0	1226.0	906.0	619.0	432.0	300.0
67.5°	4858.9	4022.9	2986.0	2071.0	1485.0	1075.0	927.0	687.0	495.0	343.0	249.0
70°	4085.9	3518.9	2694.0	1897.0	1200.0	856.0	705.0	555.0	401.0	273.0	218.0
72.5°	3052.0	2715.0	2230.0	1639.0	1127.0	798.0	568.0	436.0	312.0	216.0	183.0
75°	2152.0	1907.0	1615.0	1400.0	1196.0	817.0	441.0	337.0	231.0	169.0	150.0
77.5°	1659.0	1284.0	962.0	1158.0	1054.0	656.0	327.0	233.0	161.0	138.0	119.0
80°	1270.0	899.0	618.0	819.0	723.0	399.0	237.0	160.0	124.0	104.0	89.0
82.5°	968.0	721.0	528.0	555.0	395.0	260.0	177.0	125.0	101.0	85.0	77.0
85°	841.0	704.0	485.0	365.0	271.0	182.0	135.0	107.0	87.0	75.0	69.0
87.5°	801.0	712.0	459.0	303.0	229.0	156.0	119.0	97.0	78.0	69.0	61.0
90°	874.0	772.0	471.0	270.0	216.0	149.0	119.0	88.0	72.0	60.0	54.0
92.5°	943.0	756.0	431.0	270.0	234.0	183.0	111.0	88.0	67.0	57.0	51.0
95°	837.0	633.0	354.0	303.0	330.0	187.0	122.0	88.0	64.0	54.0	49.0
97.5°	673.0	486.0	298.0	369.0	385.0	246.0	127.0	89.0	63.0	51.0	47.0
100°	562.0	413.0	265.0	329.0	390.0	262.0	127.0	80.0	60.0	50.0	45.0
102.5°	529.0	388.0	249.0	267.0	302.0	200.0	113.0	73.0	56.0	47.0	44.0
105°	562.0	409.0	263.0	214.0	209.0	150.0	101.0	69.0	52.0	45.0	41.0
107.5°	626.0	481.0	310.0	209.0	171.0	131.0	98.0	65.0	49.0	42.0	39.0



REPORT NUMBER: P208581  
 CATALOG NUMBER: XTOR12BRL

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	561.0	476.0	348.0	241.0	169.0	126.0	96.0	64.0	46.0	40.0	40.0
112.5°	599.0	541.0	407.0	278.0	189.0	130.0	92.0	63.0	45.0	40.0	42.0
115°	544.0	521.0	432.0	314.0	212.0	130.0	85.0	59.0	44.0	39.0	37.0
117.5°	382.0	379.0	305.0	231.0	164.0	105.0	72.0	53.0	39.0	34.0	32.0
120°	304.0	261.0	195.0	166.0	126.0	84.0	63.0	47.0	35.0	31.0	29.0
122.5°	252.0	185.0	150.0	130.0	100.0	74.0	56.0	43.0	34.0	29.0	28.0
125°	214.0	172.0	140.0	108.0	87.0	69.0	53.0	44.0	33.0	29.0	27.0
127.5°	203.0	166.0	143.0	120.0	93.0	66.0	50.0	42.0	34.0	29.0	29.0
130°	190.0	158.0	129.0	111.0	91.0	65.0	49.0	42.0	36.0	32.0	32.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P208581  
 CATALOG NUMBER: XTOR12BRL

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
2.5°	3346.0	3322.0	3302.0	3291.0	3283.0	3278.0	3250.0	3246.0	3235.0	3218.0	3192.0
5°	3303.0	3266.0	3235.0	3211.0	3188.0	3172.0	3133.0	3119.0	3097.0	3071.0	3039.0
7.5°	3245.0	3195.0	3143.0	3111.0	3069.0	3040.0	2990.0	2964.0	2935.0	2898.0	2867.0
10°	3165.0	3096.0	3036.0	2983.0	2931.0	2891.0	2836.0	2806.0	2776.0	2741.0	2720.0
12.5°	3090.0	3007.0	2932.0	2865.0	2809.0	2766.0	2715.0	2688.0	2662.0	2634.0	2608.0
15°	3013.0	2919.0	2833.0	2763.0	2709.0	2669.0	2624.0	2590.0	2556.0	2521.0	2490.0
17.5°	2927.0	2821.0	2730.0	2663.0	2616.0	2573.0	2514.0	2468.0	2418.0	2357.0	2296.0
20°	2825.0	2713.0	2630.0	2569.0	2514.0	2453.0	2376.0	2298.0	2182.0	2055.0	1974.0
22.5°	2718.0	2620.0	2537.0	2470.0	2390.0	2309.0	2170.0	2013.0	1894.0	1766.0	1685.0
25°	2629.0	2536.0	2447.0	2358.0	2250.0	2087.0	1895.0	1759.0	1624.0	1493.0	1401.0
27.5°	2545.0	2444.0	2335.0	2220.0	2032.0	1833.0	1653.0	1501.0	1355.0	1222.0	1109.0
30°	2454.0	2338.0	2199.0	1998.0	1785.0	1597.0	1406.0	1238.0	1074.0	909.0	810.0
32.5°	2351.0	2215.0	2015.0	1773.0	1568.0	1353.0	1149.0	956.0	793.0	678.0	624.0
35°	2219.0	2034.0	1778.0	1558.0	1335.0	1108.0	879.0	712.0	609.0	581.0	587.0
37.5°	2071.0	1823.0	1576.0	1337.0	1103.0	860.0	659.0	567.0	547.0	537.0	503.0
40°	1879.0	1612.0	1360.0	1106.0	850.0	648.0	528.0	507.0	510.0	442.0	392.0
42.5°	1686.0	1406.0	1138.0	872.0	644.0	505.0	463.0	486.0	422.0	365.0	345.0
45°	1487.0	1191.0	912.0	646.0	491.0	430.0	461.0	412.0	348.0	324.0	315.0
47.5°	1285.0	972.0	684.0	481.0	412.0	411.0	417.0	334.0	306.0	293.0	288.0
50°	1053.0	742.0	503.0	401.0	368.0	391.0	330.0	290.0	271.0	262.0	263.0
52.5°	816.0	538.0	401.0	349.0	338.0	341.0	279.0	258.0	242.0	234.0	250.0
55°	600.0	401.0	344.0	315.0	321.0	286.0	243.0	227.0	226.0	209.0	211.0
57.5°	446.0	334.0	305.0	291.0	294.0	239.0	208.0	199.0	189.0	191.0	193.0
60°	352.0	297.0	272.0	267.0	243.0	202.0	179.0	169.0	171.0	167.0	160.0
62.5°	296.0	263.0	243.0	236.0	190.0	165.0	156.0	151.0	147.0	140.0	133.0
64°	266.0	246.0	226.0	211.0	173.0	148.0	150.0	140.0	133.0	126.0	124.0
65°	254.0	230.0	215.0	197.0	159.0	137.0	135.0	127.0	122.0	122.0	119.0
67.5°	220.0	192.0	180.0	163.0	135.0	116.0	111.0	106.0	106.0	108.0	103.0
70°	185.0	157.0	144.0	132.0	116.0	102.0	95.0	92.0	91.0	92.0	89.0
72.5°	154.0	127.0	112.0	110.0	103.0	93.0	85.0	77.0	78.0	82.0	80.0
75°	125.0	97.0	95.0	99.0	97.0	82.0	73.0	67.0	69.0	71.0	67.0
77.5°	93.0	83.0	85.0	89.0	91.0	74.0	61.0	58.0	62.0	63.0	55.0
80°	80.0	76.0	75.0	80.0	87.0	64.0	52.0	52.0	57.0	57.0	47.0
82.5°	73.0	71.0	68.0	82.0	81.0	56.0	46.0	47.0	52.0	49.0	38.0
85°	64.0	63.0	62.0	83.0	81.0	50.0	40.0	43.0	51.0	43.0	30.0
87.5°	57.0	56.0	58.0	111.0	83.0	44.0	34.0	45.0	59.0	40.0	24.0
90°	50.0	49.0	54.0	121.0	80.0	37.0	31.0	54.0	66.0	37.0	21.0
92.5°	47.0	46.0	50.0	101.0	69.0	36.0	35.0	62.0	66.0	34.0	20.0
95°	46.0	44.0	48.0	76.0	56.0	38.0	37.0	62.0	60.0	31.0	22.0
97.5°	45.0	44.0	51.0	69.0	50.0	40.0	38.0	53.0	48.0	30.0	23.0
100°	44.0	44.0	53.0	60.0	48.0	40.0	38.0	42.0	40.0	31.0	26.0
102.5°	43.0	44.0	59.0	50.0	45.0	39.0	36.0	37.0	36.0	32.0	27.0
105°	41.0	50.0	55.0	43.0	40.0	35.0	33.0	34.0	33.0	31.0	27.0
107.5°	48.0	62.0	43.0	38.0	35.0	31.0	31.0	31.0	28.0	28.0	25.0



REPORT NUMBER: P208581  
 CATALOG NUMBER: XTOR12BRL

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	59.0	51.0	36.0	33.0	32.0	30.0	32.0	27.0	24.0	24.0	20.0	0°
112.5°	45.0	36.0	32.0	30.0	31.0	31.0	30.0	24.0	22.0	22.0	18.0	2.5°
115°	34.0	32.0	31.0	29.0	31.0	32.0	28.0	23.0	21.0	20.0	17.0	5°
117.5°	31.0	30.0	29.0	30.0	33.0	32.0	26.0	22.0	21.0	19.0	16.0	7.5°
120°	28.0	29.0	30.0	33.0	36.0	29.0	23.0	21.0	20.0	17.0	15.0	10°
122.5°	28.0	29.0	34.0	40.0	37.0	25.0	21.0	20.0	19.0	16.0	13.0	12.5°
125°	28.0	31.0	38.0	41.0	32.0	23.0	21.0	19.0	18.0	15.0	12.0	15°
127.5°	30.0	34.0	38.0	36.0	27.0	21.0	20.0	18.0	17.0	14.0	11.0	17.5°
130°	34.0	36.0	35.0	29.0	24.0	21.0	20.0	18.0	16.0	13.0	10.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P208581  
 NUMBER: XTOR12BRL

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
3394.0	3394.0	3394.0	3394.0	3394.0
3177.0	3181.0	3184.0	3173.0	3171.0
3018.0	3019.0	3018.0	3001.0	3001.0
2843.0	2841.0	2835.0	2816.0	2813.0
2693.0	2692.0	2684.0	2669.0	2668.0
2583.0	2579.0	2570.0	2551.0	2552.0
2457.0	2441.0	2424.0	2395.0	2391.0
2213.0	2176.0	2131.0	2089.0	2078.0
1886.0	1852.0	1792.0	1771.0	1757.0
1596.0	1549.0	1501.0	1468.0	1450.0
1313.0	1250.0	1198.0	1168.0	1142.0
990.0	930.0	877.0	847.0	819.0
718.0	678.0	659.0	649.0	646.0
612.0	623.0	626.0	618.0	615.0
564.0	540.0	512.0	485.0	480.0
445.0	413.0	392.0	381.0	378.0
364.0	354.0	346.0	343.0	340.0
330.0	320.0	317.0	314.0	313.0
309.0	296.0	291.0	290.0	288.0
282.0	271.0	265.0	267.0	264.0
258.0	253.0	256.0	253.0	252.0
236.0	219.0	215.0	213.0	212.0
217.0	214.0	211.0	205.0	206.0
200.0	194.0	185.0	181.0	179.0
157.0	152.0	145.0	141.0	140.0
128.0	122.0	120.0	119.0	118.0
121.0	113.0	105.0	103.0	101.0
112.0	104.0	102.0	100.0	98.0
97.0	90.0	87.0	84.0	83.0
84.0	78.0	76.0	74.0	73.0
74.0	69.0	67.0	66.0	65.0
59.0	55.0	52.0	51.0	50.0
48.0	45.0	43.0	42.0	41.0
41.0	38.0	36.0	34.0	33.0
33.0	30.0	29.0	26.0	25.0
26.0	23.0	22.0	20.0	18.0
21.0	18.0	18.0	15.0	13.0
18.0	17.0	17.0	12.0	11.0
18.0	17.0	17.0	11.0	11.0
19.0	17.0	18.0	12.0	12.0
20.0	18.0	18.0	13.0	12.0
20.0	18.0	16.0	10.0	11.0
21.0	18.0	14.0	8.0	8.0
21.0	17.0	14.0	7.0	7.0
19.0	15.0	12.0	7.0	7.0

**CANDELA DISTRIBUTION:**

	160°
110°	16.0
112.5°	14.0
115°	13.0
117.5°	13.0
120°	12.0
122.5°	11.0
125°	10.0
127.5°	9.0
130°	9.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

'208581  
 XTOR12BRL

**TION (continued):**

165°	170°	175°	180°
13.0	10.0	6.0	7.0
11.0	9.0	6.0	6.0
11.0	8.0	6.0	7.0
11.0	8.0	7.0	7.0
10.0	7.0	7.0	7.0
10.0	7.0	6.0	6.0
9.0	6.0	6.0	6.0
8.0	5.0	6.0	6.0
7.0	5.0	5.0	5.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0

(END OF REPORT)