

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: P208579

Luminaire Tested: **XTOR8BRL-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P208579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27507)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: XTOR8BRL-W  
Description: CROSSTOUR WALL MOUNT LED WITH REFRACTIVE LENS  
  
Light Source: EATON LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8504.3 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 0.67' x H: 0.17')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G3

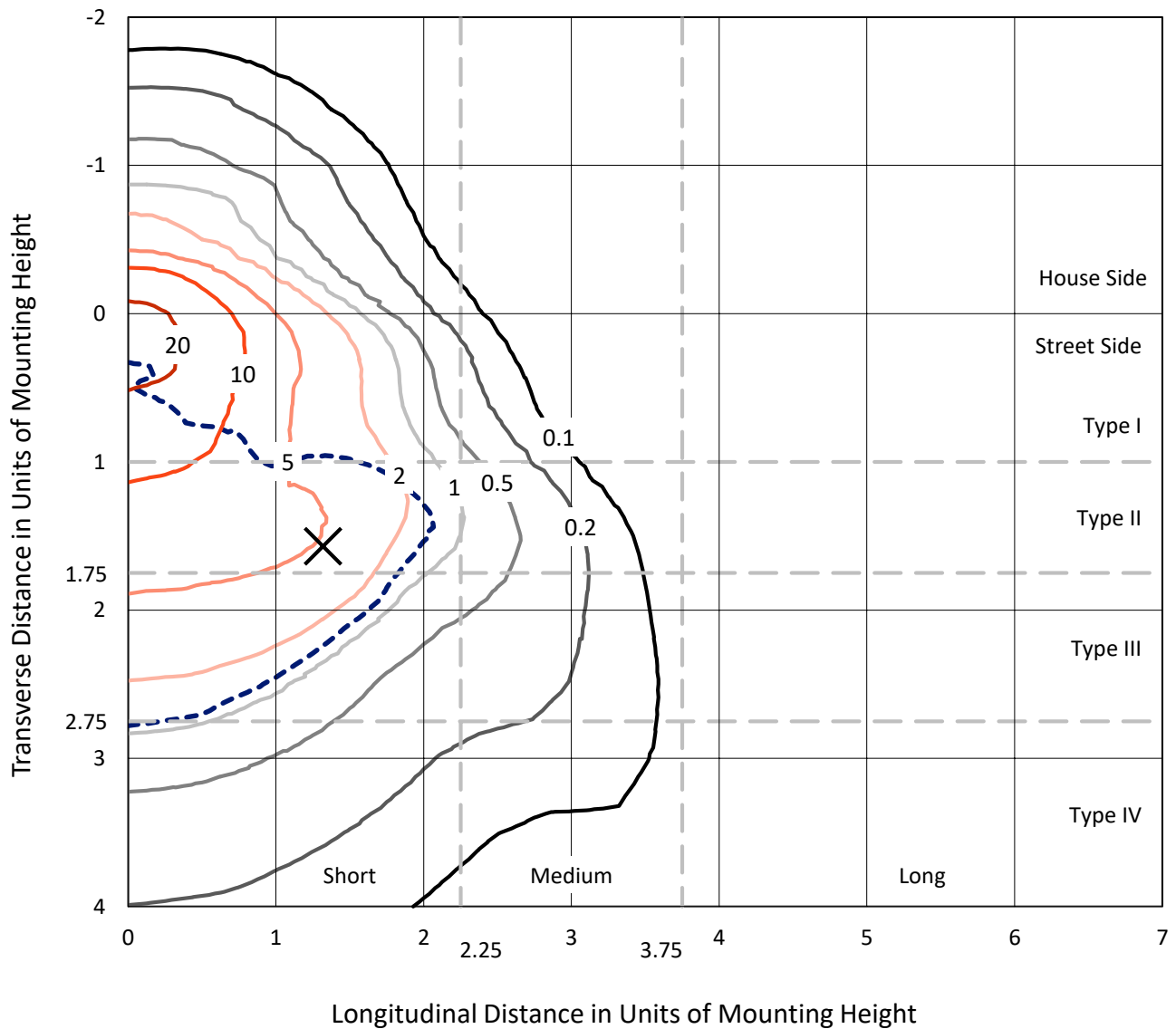
Input Watts (W): 81  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

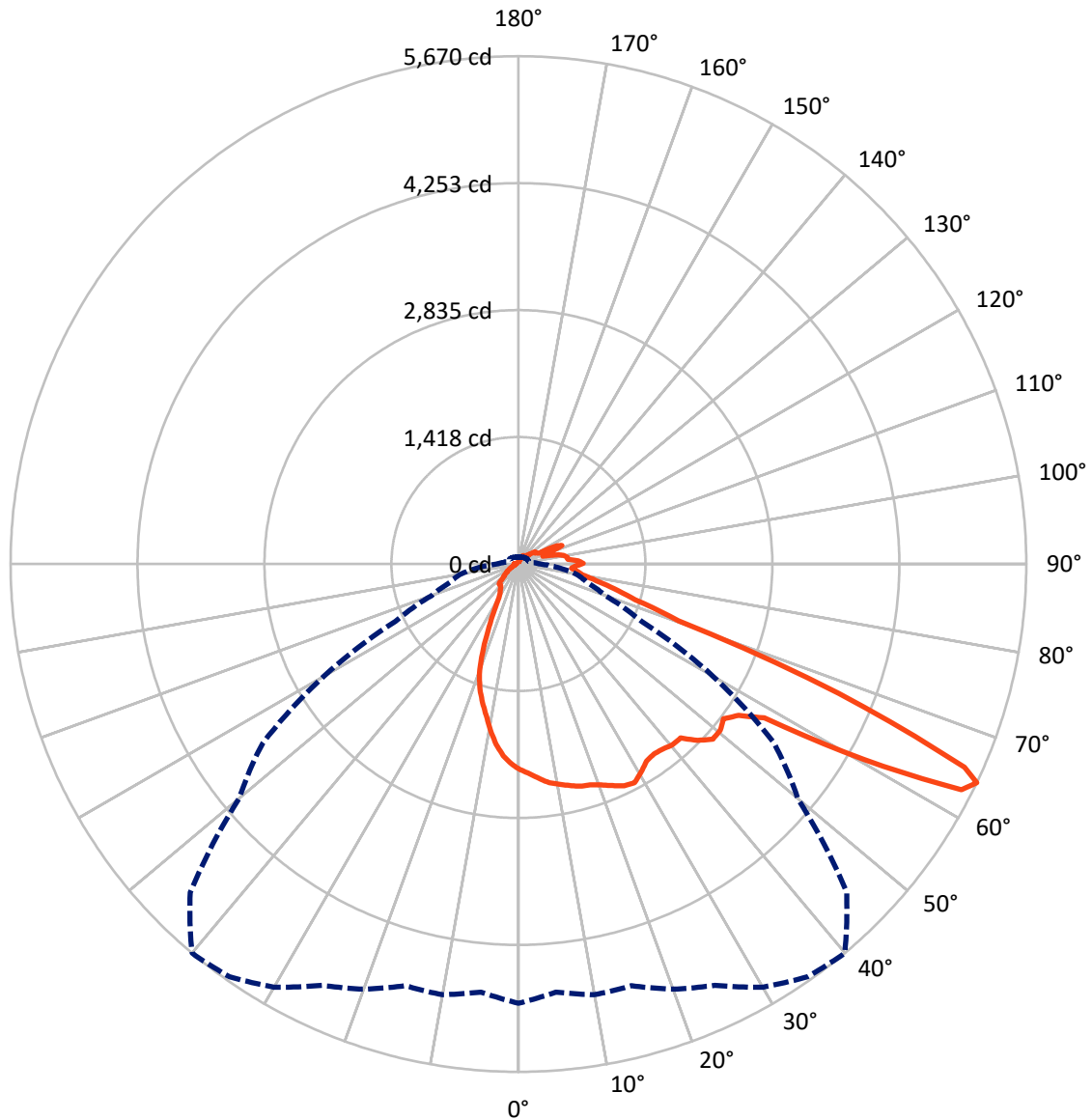
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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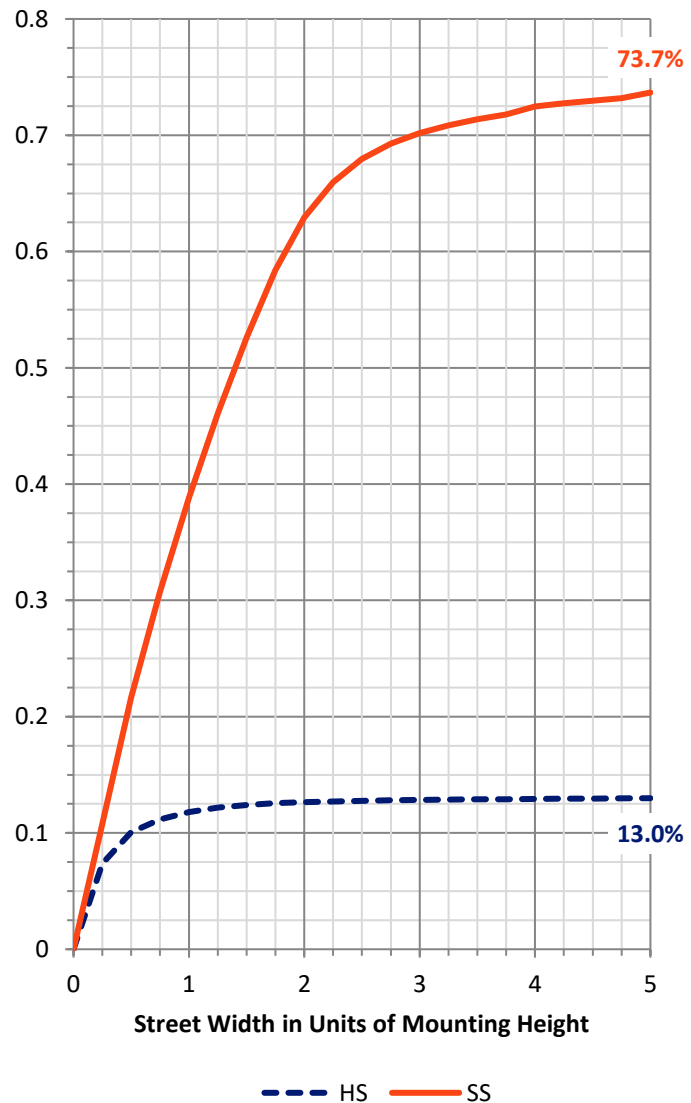
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1125.3	60.5	1185.8
	% Fixture	13.2	0.7	13.9
<b>Street Side</b>	Lumens	6499.5	818.9	7318.5
	% Fixture	76.4	9.6	86.1
<b>Total</b>	Lumens	7624.8	879.5	8504.3
	% Fixture	89.7	10.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.1	2.5
10°-20°	596.1	7.0
20°-30°	844.8	9.9
30°-40°	1007.6	11.8
40°-50°	1168.2	13.7
50°-60°	1329.8	15.6
60°-70°	1564.8	18.4
70°-80°	570.0	6.7
80°-90°	328.4	3.9
90°-100°	316.3	3.7
100°-110°	212.8	2.5
110°-120°	172.1	2.0
120°-130°	73.4	0.9
130°-140°	48.7	0.6
140°-150°	30.4	0.4
150°-160°	18.1	0.2
160°-170°	6.3	0.1
170°-180°	1.3	0.0
0°-90°	7624.8	89.7
0°-180°	8504.3	100.0

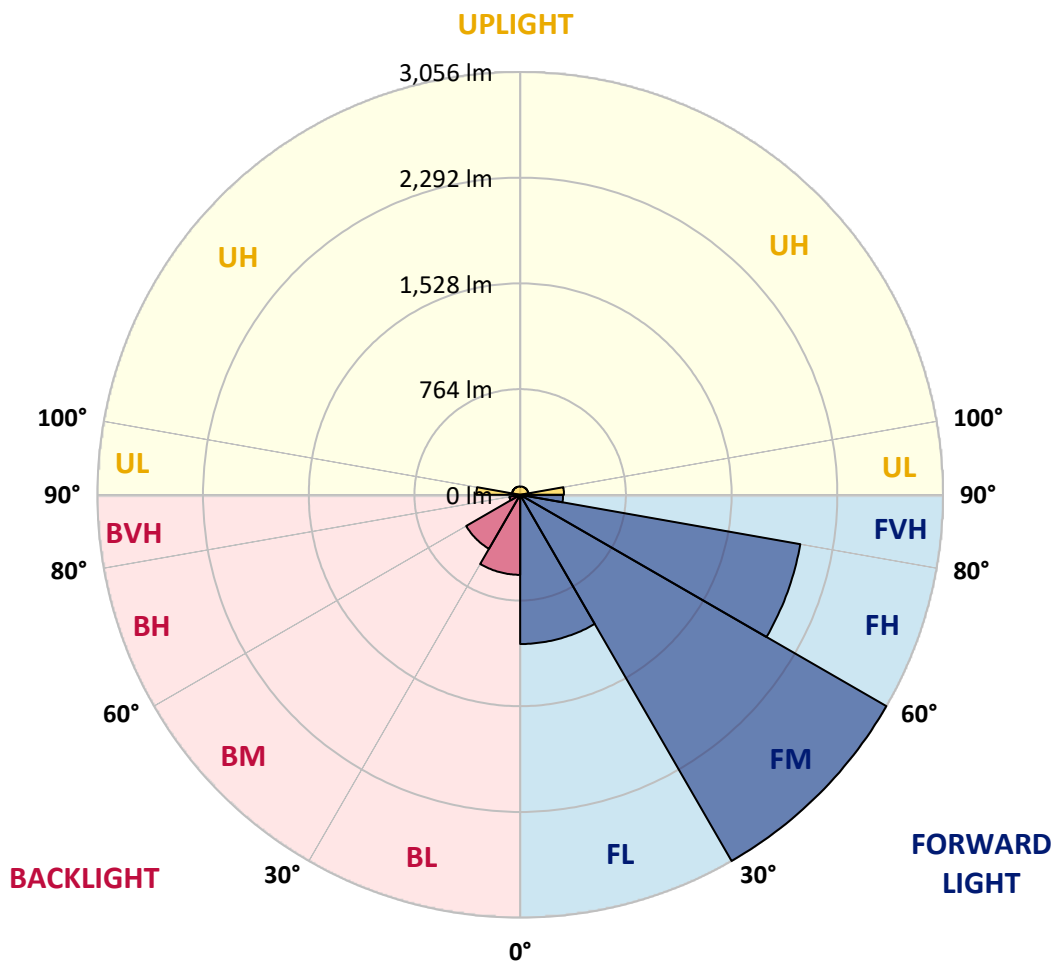


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1077.8	12.7			
FM	(30°-60°)	3055.6	35.9			
FH	(60°-80°)	2055.7	24.2			G2/5000
FVH	(80°-90°)	310.4	3.6			G3/500
BL	(0°-30°)	578.1	6.8	B2/1000		
BM	(30°-60°)	450.1	5.3	B1/1000		
BH	(60°-80°)	79.1	0.9	B0/110		G0/110
BVH	(80°-90°)	18.0	0.2			G1/100
UL	(90°-100°)	316.3	3.7		U3/500	
UH	(100°-180°)	60.5	0.7		U3/500	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8
2.5°	2394.3	2340.1	2349.0	2333.2	2380.5	2353.9	2380.5	2383.5	2344.1	2341.1	2348.0
5°	2479.0	2420.9	2432.7	2409.1	2455.4	2428.8	2457.3	2449.4	2404.1	2397.2	2404.1
7.5°	2556.8	2492.8	2508.5	2481.0	2526.3	2498.7	2524.3	2510.5	2466.2	2453.4	2452.4
10°	2616.9	2549.9	2565.7	2536.1	2578.5	2549.9	2567.6	2547.9	2500.7	2486.9	2484.9
12.5°	2655.3	2588.3	2603.1	2575.5	2619.8	2588.3	2604.1	2588.3	2538.1	2520.4	2515.4
15°	2722.3	2650.4	2660.2	2633.6	2673.0	2629.7	2640.5	2623.8	2574.5	2557.8	2551.9
17.5°	2815.8	2746.9	2762.6	2725.2	2758.7	2699.6	2689.8	2653.3	2592.3	2576.5	2567.6
20°	2900.5	2830.6	2855.2	2817.8	2851.3	2782.3	2760.7	2713.4	2633.6	2584.4	2564.7
22.5°	2902.5	2837.5	2874.9	2851.3	2905.5	2839.5	2830.6	2777.4	2686.8	2619.8	2573.5
25°	2833.6	2772.5	2810.9	2793.2	2858.2	2822.7	2851.3	2824.7	2743.9	2677.0	2609.0
27.5°	2845.4	2778.4	2807.0	2772.5	2805.0	2759.7	2785.3	2791.2	2764.6	2721.3	2650.4
30°	2892.7	2814.8	2841.4	2793.2	2813.9	2746.9	2747.9	2720.3	2696.7	2703.6	2678.9
32.5°	2969.5	2887.7	2905.5	2836.5	2857.2	2767.6	2745.9	2698.6	2624.8	2615.9	2647.4
35°	2974.4	2893.6	2912.4	2854.2	2878.9	2815.8	2787.3	2704.5	2604.1	2546.0	2555.8
37.5°	3036.4	2954.7	2956.7	2874.9	2882.8	2814.8	2802.0	2741.0	2620.8	2512.5	2471.1
40°	3178.3	3093.6	3093.6	2990.2	2980.3	2861.1	2807.0	2737.0	2651.4	2536.1	2433.7
42.5°	3396.9	3308.3	3340.8	3285.6	3270.9	3098.5	2949.8	2780.4	2655.3	2578.5	2446.5
45°	3367.4	3272.8	3299.4	3231.5	3232.4	3164.5	3177.3	3092.6	2808.0	2630.7	2536.1
47.5°	3438.3	3354.6	3383.1	3309.3	3323.1	3218.7	3131.0	3023.6	2922.2	2792.2	2534.1
50°	3496.4	3405.8	3444.2	3374.3	3408.7	3306.3	3253.1	3123.1	2919.2	2717.3	2555.8
52.5°	3760.3	3643.1	3659.9	3574.2	3557.5	3405.8	3267.9	3085.7	2869.0	2666.1	2505.6
55°	3625.4	3523.0	3555.5	3463.9	3459.0	3328.0	3240.3	3134.0	2983.3	2769.5	2618.8
57.5°	4059.8	3944.5	3975.1	3858.8	3839.1	3656.0	3520.0	3335.9	3237.4	3129.0	2939.9
60°	4687.1	4581.8	4667.4	4618.2	4717.7	4663.5	4732.4	4583.7	4434.0	4074.5	3589.0
62.5°	4930.4	4831.9	4953.1	4958.0	5151.0	5251.5	5496.7	5577.5	5551.9	5090.0	4071.6
64°	4903.8	4797.4	4883.1	4874.3	5051.6	5190.4	5455.4	5625.8	5670.1	5182.5	4070.6
65°	4792.5	4695.0	4790.6	4748.2	4879.2	4957.0	5166.8	5346.0	5474.1	4910.7	3929.8
67.5°	4036.1	3914.0	4018.4	3899.2	3937.6	3915.0	3949.5	3833.2	3857.9	3408.7	3176.3
70°	2902.5	2849.3	2815.8	2626.7	2493.8	2283.0	2051.5	1859.5	1894.0	1835.9	2156.9
72.5°	1960.0	1919.6	1900.9	1787.6	1708.8	1613.3	1507.9	1349.3	1361.1	1436.0	1575.8
75°	1517.7	1470.5	1463.6	1358.2	1274.5	1196.7	1109.0	1030.2	1105.1	1307.9	1350.3
77.5°	1177.9	1148.4	1133.6	1058.8	1009.5	933.7	857.8	809.6	884.4	1148.4	1096.2
80°	1074.5	1047.9	1042.0	987.9	954.4	877.5	805.6	751.5	720.0	926.8	804.7
82.5°	1029.2	1006.6	1010.5	977.0	957.3	902.2	846.0	780.0	662.8	716.0	600.8
85°	1011.5	991.8	989.8	931.7	904.1	847.0	779.1	700.3	592.9	542.7	502.3
87.5°	1012.5	982.9	974.1	929.7	905.1	865.7	842.1	803.7	636.2	505.3	464.9
90°	1148.4	1120.8	1124.8	1102.1	1116.9	1076.5	1052.9	1008.5	724.9	517.1	496.4
92.5°	1255.7	1232.1	1238.0	1212.4	1197.6	1103.1	1050.9	970.1	670.7	508.2	603.7
95°	1041.0	1036.1	1046.0	1006.6	975.1	875.6	809.6	732.8	554.5	580.1	632.3
97.5°	846.0	817.5	811.6	768.2	727.8	649.0	604.7	624.4	551.5	576.2	610.6
100°	624.4	607.7	624.4	622.5	634.3	655.9	716.0	724.9	520.0	505.3	457.0
102.5°	542.7	540.7	571.2	604.7	675.6	766.3	826.3	710.1	460.9	375.2	349.6
105°	609.7	607.7	652.0	687.5	744.6	726.9	659.9	524.0	351.6	312.2	329.9
107.5°	694.4	683.5	696.3	671.7	634.3	568.3	496.4	397.9	284.6	286.6	339.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	679.6	681.6	667.8	639.2	592.9	563.4	525.0	454.0	346.7	276.8	342.7
112.5°	883.5	866.7	878.5	845.0	787.9	730.8	688.4	636.2	528.9	334.9	317.1
115°	747.5	734.7	733.8	714.1	696.3	665.8	609.7	557.5	468.8	303.3	249.2
117.5°	329.9	326.0	335.9	320.1	305.3	280.7	283.7	288.6	260.0	225.5	205.8
120°	235.4	233.4	234.4	230.5	228.5	226.5	226.5	223.6	241.3	221.6	198.0
122.5°	180.2	179.3	187.1	193.0	198.9	202.9	208.8	212.7	222.6	220.6	186.1
125°	186.1	184.2	190.1	190.1	198.0	196.0	206.8	220.6	234.4	210.8	163.5
127.5°	188.1	186.1	193.0	195.0	201.9	206.8	209.8	224.6	208.8	177.3	155.6
130°	199.9	195.0	197.0	197.0	205.8	204.9	204.9	183.2	172.4	165.5	140.8
132.5°	199.9	194.0	195.0	193.0	187.1	173.3	159.6	155.6	152.7	139.9	127.1
135°	167.4	159.6	157.6	153.6	148.7	138.9	133.9	131.0	132.0	128.0	120.2
137.5°	128.0	126.1	126.1	122.1	120.2	120.2	121.1	125.1	121.1	116.2	112.3
140°	112.3	110.3	112.3	112.3	109.3	107.4	111.3	115.2	114.2	104.4	103.4
142.5°	99.5	97.5	100.5	100.5	103.4	104.4	106.4	108.3	107.4	104.4	104.4
145°	95.5	94.6	97.5	95.5	96.5	95.5	100.5	109.3	112.3	101.4	91.6
147.5°	90.6	89.6	92.6	91.6	97.5	103.4	109.3	107.4	99.5	97.5	96.5
150°	121.1	119.2	121.1	120.2	115.2	111.3	110.3	110.3	109.3	102.4	91.6
152.5°	114.2	111.3	112.3	108.3	103.4	101.4	103.4	103.4	94.6	83.7	74.9
155°	100.5	96.5	97.5	93.6	88.6	83.7	80.8	76.8	71.9	63.0	53.2
157.5°	75.8	72.9	74.9	72.9	69.9	67.0	64.0	60.1	54.2	46.3	42.4
160°	64.0	60.1	60.1	58.1	58.1	53.2	51.2	47.3	42.4	37.4	37.4
162.5°	48.3	47.3	47.3	44.3	42.4	39.4	37.4	34.5	35.5	34.5	33.5
165°	31.5	29.5	30.5	28.6	28.6	29.5	31.5	32.5	30.5	30.5	35.5
167.5°	26.6	25.6	26.6	27.6	27.6	28.6	32.5	31.5	32.5	33.5	36.4
170°	29.5	28.6	29.5	29.5	30.5	31.5	31.5	34.5	35.5	34.5	32.5
172.5°	32.5	32.5	30.5	20.7	20.7	21.7	21.7	22.7	21.7	20.7	19.7
175°	6.9	6.9	7.9	7.9	7.9	7.9	8.9	9.8	9.8	9.8	10.8
177.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.9	7.9	6.9	8.9
180°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8
2.5°	2346.0	2346.0	2355.9	2321.4	2287.9	2333.2	2313.5	2291.9	2254.4	2259.4	2257.4
5°	2395.3	2391.3	2394.3	2354.9	2314.5	2355.9	2324.4	2293.8	2251.5	2249.5	2236.7
7.5°	2441.6	2428.8	2424.8	2382.5	2335.2	2366.7	2327.3	2287.9	2237.7	2227.8	2203.2
10°	2468.2	2449.4	2440.6	2394.3	2340.1	2365.7	2318.5	2268.2	2213.1	2191.4	2153.0
12.5°	2492.8	2468.2	2454.4	2407.1	2347.0	2359.8	2306.6	2251.5	2187.5	2156.9	2101.8
15°	2527.3	2495.7	2480.0	2431.7	2356.9	2365.7	2302.7	2235.7	2162.8	2120.5	2048.6
17.5°	2540.1	2508.5	2487.9	2435.7	2359.8	2357.9	2288.9	2210.1	2121.5	2063.4	1971.8
20°	2530.2	2501.6	2482.9	2431.7	2351.0	2338.2	2261.3	2172.7	2069.3	1991.5	1881.2
22.5°	2519.4	2484.9	2472.1	2417.9	2335.2	2316.5	2228.8	2125.4	2011.2	1910.7	1778.7
25°	2524.3	2468.2	2454.4	2408.1	2319.4	2294.8	2195.3	2078.1	1945.2	1825.0	1670.4
27.5°	2551.9	2465.2	2432.7	2392.3	2303.7	2276.1	2163.8	2027.9	1875.3	1730.5	1556.1
30°	2573.5	2472.1	2406.1	2362.8	2276.1	2242.6	2119.5	1963.9	1782.7	1622.1	1450.8
32.5°	2583.4	2476.0	2387.4	2325.3	2242.6	2200.3	2065.3	1891.0	1690.1	1510.8	1346.4
35°	2555.8	2481.0	2376.6	2288.9	2205.2	2156.9	2007.2	1808.3	1584.7	1397.6	1224.2
37.5°	2467.2	2466.2	2362.8	2259.4	2156.9	2108.7	1943.2	1720.6	1472.4	1276.4	1081.4
40°	2368.7	2402.2	2351.0	2230.8	2111.6	2063.4	1879.2	1626.1	1355.2	1133.6	895.3
42.5°	2326.3	2302.7	2323.4	2205.2	2072.2	2015.1	1802.4	1519.7	1229.2	977.0	703.2
45°	2326.3	2220.0	2253.5	2184.5	2025.9	1960.9	1714.7	1401.5	1099.1	825.3	537.8
47.5°	2342.1	2142.2	2124.4	2156.9	1976.7	1890.0	1622.1	1280.4	965.2	651.0	407.7
50°	2352.9	2088.0	1987.5	2082.1	1910.7	1779.7	1498.0	1149.4	807.6	492.5	315.2
52.5°	2271.2	2158.9	1906.8	1952.1	1821.1	1656.6	1362.1	996.7	628.4	366.4	265.9
55°	2395.3	2112.6	1920.6	1796.5	1717.7	1501.0	1205.5	825.3	461.9	280.7	236.4
57.5°	2581.4	2213.1	1878.2	1612.3	1533.5	1321.7	1037.1	635.3	326.0	235.4	202.9
60°	2914.3	2341.1	1749.2	1373.9	1247.9	1097.2	828.3	448.1	239.3	200.9	166.4
62.5°	3373.3	2434.7	1599.5	1164.2	960.3	827.3	579.1	296.5	195.0	163.5	137.9
64°	3484.6	2510.5	1516.7	1033.2	793.8	660.9	436.3	240.3	173.3	140.8	120.2
65°	3446.2	2541.0	1472.4	946.5	683.5	553.5	358.5	216.7	159.6	130.0	111.3
67.5°	3089.6	2441.6	1411.4	769.2	457.0	336.8	239.3	171.4	132.0	109.3	93.6
70°	2383.5	2113.6	1335.5	599.8	320.1	245.2	180.2	138.9	108.3	91.6	78.8
72.5°	1661.5	1565.0	1012.5	473.7	239.3	183.2	142.8	113.3	90.6	77.8	68.0
75°	1178.9	906.1	647.1	359.5	187.1	145.8	120.2	93.6	76.8	67.0	58.1
77.5°	864.7	570.3	324.0	243.3	152.7	129.0	104.4	80.8	65.0	57.1	50.2
80°	605.7	421.5	241.3	156.6	123.1	116.2	93.6	69.9	56.1	50.2	44.3
82.5°	473.7	348.7	209.8	131.0	100.5	99.5	82.7	60.1	50.2	44.3	39.4
85°	413.7	303.3	195.0	116.2	85.7	83.7	71.9	53.2	45.3	40.4	35.5
87.5°	414.6	289.6	194.0	116.2	81.7	73.9	64.0	48.3	41.4	36.4	32.5
90°	479.6	332.9	208.8	115.2	77.8	66.0	57.1	43.3	37.4	32.5	29.5
92.5°	554.5	381.2	189.1	114.2	76.8	63.0	54.2	40.4	35.5	31.5	28.6
95°	554.5	313.2	173.3	119.2	79.8	62.0	50.2	38.4	32.5	30.5	27.6
97.5°	430.4	251.1	187.1	140.8	86.7	67.0	51.2	36.4	30.5	28.6	26.6
100°	332.9	214.7	209.8	168.4	98.5	65.0	46.3	34.5	29.5	28.6	26.6
102.5°	296.5	198.9	179.3	157.6	90.6	59.1	43.3	33.5	29.5	27.6	25.6
105°	295.5	193.0	136.9	117.2	74.9	54.2	40.4	32.5	28.6	26.6	25.6
107.5°	312.2	208.8	126.1	96.5	68.9	53.2	40.4	30.5	27.6	25.6	27.6



REPORT NUMBER: P208579  
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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
110°	313.2	226.5	133.9	88.6	62.0	53.2	42.4	29.5	26.6	26.6	34.5
112.5°	303.3	232.4	149.7	84.7	60.1	52.2	43.3	29.5	25.6	27.6	33.5
115°	249.2	219.6	153.6	93.6	62.0	49.2	41.4	29.5	26.6	26.6	26.6
117.5°	204.9	179.3	135.9	92.6	55.2	41.4	34.5	26.6	24.6	23.6	23.6
120°	168.4	127.1	100.5	76.8	50.2	35.5	29.5	24.6	22.7	22.7	21.7
122.5°	136.9	110.3	89.6	66.0	44.3	32.5	28.6	24.6	22.7	22.7	21.7
125°	131.0	109.3	89.6	64.0	43.3	32.5	29.5	25.6	22.7	22.7	22.7
127.5°	122.1	95.5	75.8	62.0	44.3	31.5	29.5	25.6	23.6	22.7	23.6
130°	110.3	87.7	71.9	58.1	41.4	33.5	29.5	26.6	24.6	24.6	25.6
132.5°	103.4	82.7	68.0	55.2	41.4	35.5	31.5	27.6	25.6	25.6	24.6
135°	102.4	77.8	63.0	50.2	39.4	33.5	29.5	25.6	24.6	23.6	22.7
137.5°	105.4	88.6	63.0	50.2	43.3	35.5	28.6	24.6	23.6	22.7	21.7
140°	100.5	82.7	67.0	50.2	46.3	38.4	28.6	24.6	22.7	22.7	21.7
142.5°	88.6	76.8	63.0	48.3	47.3	40.4	28.6	24.6	22.7	21.7	20.7
145°	84.7	72.9	61.1	52.2	49.2	41.4	29.5	23.6	21.7	20.7	19.7
147.5°	86.7	75.8	62.0	48.3	49.2	38.4	27.6	22.7	20.7	20.7	19.7
150°	76.8	65.0	54.2	42.4	48.3	36.4	25.6	21.7	20.7	20.7	19.7
152.5°	59.1	51.2	44.3	43.3	45.3	34.5	25.6	22.7	20.7	20.7	18.7
155°	45.3	42.4	39.4	45.3	42.4	33.5	25.6	22.7	20.7	19.7	18.7
157.5°	40.4	37.4	41.4	47.3	39.4	31.5	24.6	21.7	19.7	18.7	16.7
160°	34.5	38.4	43.3	44.3	36.4	29.5	22.7	20.7	18.7	17.7	15.8
162.5°	35.5	40.4	42.4	41.4	30.5	25.6	20.7	18.7	17.7	16.7	14.8
165°	39.4	41.4	39.4	35.5	26.6	21.7	19.7	17.7	16.7	15.8	14.8
167.5°	36.4	36.4	36.4	30.5	24.6	20.7	18.7	16.7	15.8	14.8	13.8
170°	26.6	21.7	19.7	17.7	16.7	15.8	15.8	14.8	14.8	13.8	12.8
172.5°	19.7	17.7	16.7	15.8	14.8	14.8	14.8	13.8	13.8	13.8	12.8
175°	10.8	10.8	11.8	11.8	11.8	12.8	12.8	11.8	11.8	11.8	10.8
177.5°	8.9	9.8	10.8	10.8	10.8	11.8	11.8	10.8	11.8	10.8	10.8
180°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9



REPORT NUMBER: P208579  
 CATALOG NUMBER: XTOR8BRL-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8	2295.8
2.5°	2258.4	2239.7	2223.9	2251.5	2241.6	2207.2	2233.8	2203.2	2218.0	2226.9	2190.4
5°	2228.8	2203.2	2175.6	2190.4	2173.7	2135.3	2147.1	2109.7	2116.6	2118.5	2077.2
7.5°	2179.6	2147.1	2107.7	2111.6	2078.1	2027.9	2029.9	1979.6	1974.7	1967.8	1919.6
10°	2119.5	2074.2	2021.0	2004.3	1960.0	1898.9	1883.1	1822.1	1804.3	1784.6	1732.4
12.5°	2056.5	1996.4	1926.5	1892.0	1829.0	1761.0	1726.5	1663.5	1641.8	1622.1	1576.8
15°	1985.6	1907.8	1818.1	1760.0	1690.1	1627.1	1597.5	1534.5	1511.8	1486.2	1441.9
17.5°	1894.0	1791.5	1682.2	1627.1	1566.0	1503.9	1465.5	1392.6	1355.2	1312.9	1246.9
20°	1780.7	1660.5	1560.1	1505.9	1441.9	1367.0	1304.0	1208.5	1113.9	1033.2	950.4
22.5°	1659.6	1547.3	1451.7	1382.8	1293.2	1189.8	1072.6	941.6	843.1	771.2	710.1
25°	1546.3	1441.9	1324.7	1232.1	1101.1	950.4	819.4	704.2	613.6	563.4	497.4
27.5°	1439.9	1322.7	1177.9	1034.1	862.8	719.0	605.7	513.1	454.0	414.6	388.1
30°	1323.7	1182.9	986.9	805.6	649.0	532.8	453.1	398.9	377.2	367.4	355.5
32.5°	1187.8	991.8	776.1	605.7	491.5	415.6	382.1	364.4	354.6	349.6	351.6
35°	1030.2	797.8	586.0	459.9	396.9	370.3	358.5	340.8	337.8	349.6	374.3
37.5°	839.1	613.6	452.1	384.1	364.4	346.7	327.0	323.0	350.6	369.3	337.8
40°	636.2	465.9	375.2	350.6	336.8	313.2	311.2	331.9	343.7	295.5	268.9
42.5°	466.8	370.3	333.9	321.1	297.4	292.5	308.3	321.1	274.8	255.1	242.3
45°	364.4	313.2	297.4	282.7	271.8	278.7	308.3	257.1	240.3	225.5	215.7
47.5°	305.3	283.7	255.1	248.2	259.0	290.5	251.1	219.6	213.7	215.7	210.8
50°	272.8	249.2	221.6	220.6	250.2	253.1	210.8	201.9	203.9	198.0	187.1
52.5°	242.3	215.7	195.0	198.0	240.3	201.9	194.0	175.3	176.3	184.2	185.2
55°	207.8	185.2	172.4	172.4	191.1	178.3	156.6	158.6	156.6	156.6	150.7
57.5°	174.3	160.5	153.6	161.5	160.5	144.8	146.8	133.9	127.1	142.8	136.9
60°	148.7	139.9	136.9	150.7	134.9	126.1	119.2	119.2	113.3	110.3	103.4
62.5°	126.1	121.1	125.1	120.2	115.2	106.4	107.4	100.5	95.5	92.6	90.6
64°	115.2	112.3	113.3	107.4	101.4	98.5	94.6	92.6	89.6	85.7	81.7
65°	107.4	106.4	106.4	101.4	93.6	91.6	88.6	87.7	84.7	84.7	80.8
67.5°	89.6	90.6	90.6	85.7	78.8	75.8	73.9	75.8	74.9	72.9	69.9
70°	74.9	76.8	75.8	72.9	68.9	65.0	62.0	64.0	63.0	65.0	60.1
72.5°	64.0	62.0	64.0	62.0	60.1	58.1	54.2	55.2	57.1	59.1	52.2
75°	54.2	52.2	56.1	55.2	54.2	51.2	48.3	49.2	51.2	51.2	44.3
77.5°	47.3	46.3	49.2	50.2	49.2	45.3	41.4	44.3	46.3	42.4	37.4
80°	42.4	41.4	42.4	46.3	43.3	39.4	37.4	41.4	41.4	35.5	31.5
82.5°	38.4	37.4	37.4	44.3	39.4	34.5	36.4	38.4	36.4	30.5	26.6
85°	34.5	33.5	36.4	45.3	36.4	32.5	33.5	35.5	31.5	24.6	21.7
87.5°	31.5	31.5	38.4	51.2	35.5	29.5	35.5	38.4	27.6	20.7	17.7
90°	28.6	29.5	42.4	57.1	30.5	26.6	42.4	44.3	25.6	16.7	13.8
92.5°	27.6	28.6	40.4	49.2	29.5	29.5	48.3	45.3	24.6	16.7	13.8
95°	27.6	28.6	35.5	38.4	29.5	31.5	45.3	39.4	23.6	17.7	14.8
97.5°	26.6	28.6	33.5	33.5	30.5	31.5	35.5	31.5	21.7	18.7	15.8
100°	26.6	28.6	32.5	31.5	30.5	30.5	30.5	27.6	21.7	19.7	15.8
102.5°	26.6	30.5	30.5	29.5	29.5	29.5	28.6	26.6	22.7	20.7	16.7
105°	27.6	31.5	27.6	26.6	27.6	26.6	25.6	24.6	22.7	19.7	16.7
107.5°	31.5	28.6	24.6	25.6	25.6	24.6	23.6	21.7	21.7	18.7	14.8



REPORT NUMBER: P208579  
 CATALOG NUMBER: XTOR8BRL-W

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
110°	32.5	24.6	23.6	24.6	25.6	23.6	21.7	20.7	20.7	16.7	13.8	0°
112.5°	26.6	22.7	22.7	24.6	24.6	22.7	19.7	19.7	18.7	14.8	12.8	2.5°
115°	24.6	22.7	22.7	25.6	25.6	21.7	18.7	18.7	17.7	14.8	11.8	5°
117.5°	23.6	22.7	23.6	26.6	24.6	19.7	18.7	17.7	16.7	14.8	11.8	7.5°
120°	22.7	23.6	25.6	26.6	22.7	18.7	17.7	16.7	15.8	13.8	11.8	10°
122.5°	23.6	26.6	29.5	26.6	21.7	18.7	17.7	16.7	15.8	12.8	11.8	12.5°
125°	25.6	30.5	30.5	24.6	20.7	18.7	16.7	16.7	14.8	12.8	10.8	15°
127.5°	27.6	29.5	26.6	22.7	19.7	17.7	16.7	15.8	14.8	11.8	10.8	17.5°
130°	26.6	26.6	23.6	21.7	19.7	17.7	15.8	14.8	13.8	11.8	9.8	20°
132.5°	24.6	23.6	21.7	21.7	19.7	17.7	15.8	14.8	12.8	10.8	9.8	22.5°
135°	22.7	21.7	20.7	20.7	18.7	16.7	15.8	14.8	12.8	10.8	8.9	25°
137.5°	21.7	20.7	19.7	19.7	17.7	15.8	14.8	13.8	12.8	10.8	9.8	27.5°
140°	21.7	20.7	18.7	17.7	16.7	14.8	13.8	12.8	11.8	10.8	9.8	30°
142.5°	20.7	19.7	17.7	17.7	15.8	14.8	13.8	12.8	11.8	9.8	8.9	32.5°
145°	19.7	18.7	17.7	16.7	15.8	13.8	12.8	11.8	10.8	9.8	8.9	35°
147.5°	18.7	17.7	16.7	15.8	14.8	12.8	11.8	11.8	10.8	9.8	8.9	37.5°
150°	18.7	17.7	15.8	15.8	13.8	12.8	11.8	10.8	10.8	9.8	8.9	40°
152.5°	17.7	16.7	15.8	14.8	13.8	11.8	10.8	10.8	9.8	8.9	8.9	42.5°
155°	17.7	15.8	14.8	13.8	12.8	10.8	10.8	9.8	9.8	8.9	7.9	45°
157.5°	16.7	15.8	13.8	12.8	11.8	10.8	9.8	9.8	8.9	8.9	7.9	47.5°
160°	15.8	14.8	12.8	12.8	10.8	9.8	9.8	9.8	8.9	7.9	6.9	50°
162.5°	14.8	13.8	12.8	12.8	10.8	9.8	9.8	8.9	8.9	7.9	6.9	52.5°
165°	14.8	13.8	12.8	11.8	10.8	9.8	8.9	8.9	7.9	7.9	6.9	55°
167.5°	12.8	12.8	11.8	11.8	9.8	8.9	8.9	7.9	7.9	6.9	6.9	57.5°
170°	12.8	12.8	11.8	10.8	9.8	8.9	7.9	7.9	7.9	6.9	6.9	60°
172.5°	12.8	11.8	10.8	9.8	8.9	7.9	7.9	7.9	6.9	6.9	5.9	62.5°
175°	10.8	10.8	9.8	9.8	8.9	7.9	6.9	6.9	6.9	5.9	5.9	64°
177.5°	10.8	10.8	9.8	8.9	7.9	6.9	6.9	6.9	5.9	5.9	4.9	65°
180°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	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: P208579  
 NUMBER: XTOR8BRL-W

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

165°	170°	175°	180°
2295.8	2295.8	2295.8	2295.8
2202.2	2194.4	2189.4	2149.1
2089.0	2076.2	2070.3	2035.8
1926.5	1907.8	1903.8	1875.3
1735.4	1709.8	1708.8	1683.2
1580.8	1557.1	1563.0	1532.5
1431.1	1403.5	1408.4	1389.7
1209.5	1169.1	1174.0	1145.4
908.1	871.6	872.6	850.0
669.7	628.4	629.4	612.6
467.8	445.2	440.3	428.4
375.2	370.3	369.3	362.4
354.6	351.6	353.6	349.6
360.5	375.2	386.1	388.1
389.0	379.2	374.3	360.5
309.3	292.5	280.7	270.8
258.0	250.2	247.2	241.3
232.4	224.6	224.6	220.6
216.7	214.7	211.8	207.8
212.7	203.9	198.0	193.0
195.0	188.1	188.1	185.2
177.3	168.4	161.5	157.6
151.7	147.7	144.8	141.8
128.0	119.2	112.3	109.3
100.5	93.6	89.6	86.7
85.7	81.7	78.8	77.8
81.7	77.8	75.8	73.9
76.8	72.9	68.0	67.0
66.0	62.0	60.1	59.1
57.1	53.2	52.2	51.2
50.2	47.3	46.3	46.3
42.4	39.4	38.4	38.4
35.5	33.5	31.5	30.5
29.5	27.6	26.6	25.6
24.6	22.7	21.7	21.7
18.7	17.7	15.8	15.8
15.8	13.8	11.8	11.8
11.8	10.8	9.8	8.9
12.8	10.8	9.8	9.8
12.8	11.8	10.8	9.8
13.8	11.8	9.8	9.8
13.8	11.8	9.8	9.8
13.8	10.8	8.9	8.9
13.8	10.8	8.9	8.9
13.8	10.8	8.9	8.9

**CANDELA DISTRIBUTION:**

	165°
110°	11.8
112.5°	10.8
115°	10.8
117.5°	11.8
120°	10.8
122.5°	10.8
125°	10.8
127.5°	9.8
130°	8.9
132.5°	8.9
135°	8.9
137.5°	8.9
140°	8.9
142.5°	8.9
145°	8.9
147.5°	7.9
150°	7.9
152.5°	7.9
155°	7.9
157.5°	7.9
160°	6.9
162.5°	6.9
165°	6.9
167.5°	6.9
170°	6.9
172.5°	5.9
175°	5.9
177.5°	4.9
180°	7.9



'208579  
XTOR8BRL-W

**TION (continued):**

170°	175°	180°
9.8	8.9	8.9
8.9	7.9	8.9
8.9	8.9	8.9
9.8	8.9	8.9
8.9	8.9	8.9
8.9	8.9	8.9
8.9	8.9	9.8
8.9	8.9	8.9
7.9	8.9	8.9
7.9	8.9	8.9
7.9	8.9	7.9
7.9	7.9	8.9
7.9	7.9	7.9
7.9	7.9	7.9
7.9	7.9	7.9
7.9	7.9	7.9
7.9	7.9	7.9
7.9	7.9	7.9
6.9	6.9	7.9
6.9	6.9	6.9
6.9	6.9	6.9
6.9	5.9	6.9
5.9	5.9	5.9
5.9	5.9	5.9
5.9	5.9	5.9
4.9	4.9	4.9
7.9	7.9	7.9

(END OF REPORT)