

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: P208573

Luminaire Tested: **XTOR8B-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P208573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27506)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR8B-W
Description: CROSSTOUR 81W WALL MOUNT LED

Light Source: EATON LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8373.3 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.38' x L: 0.67' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

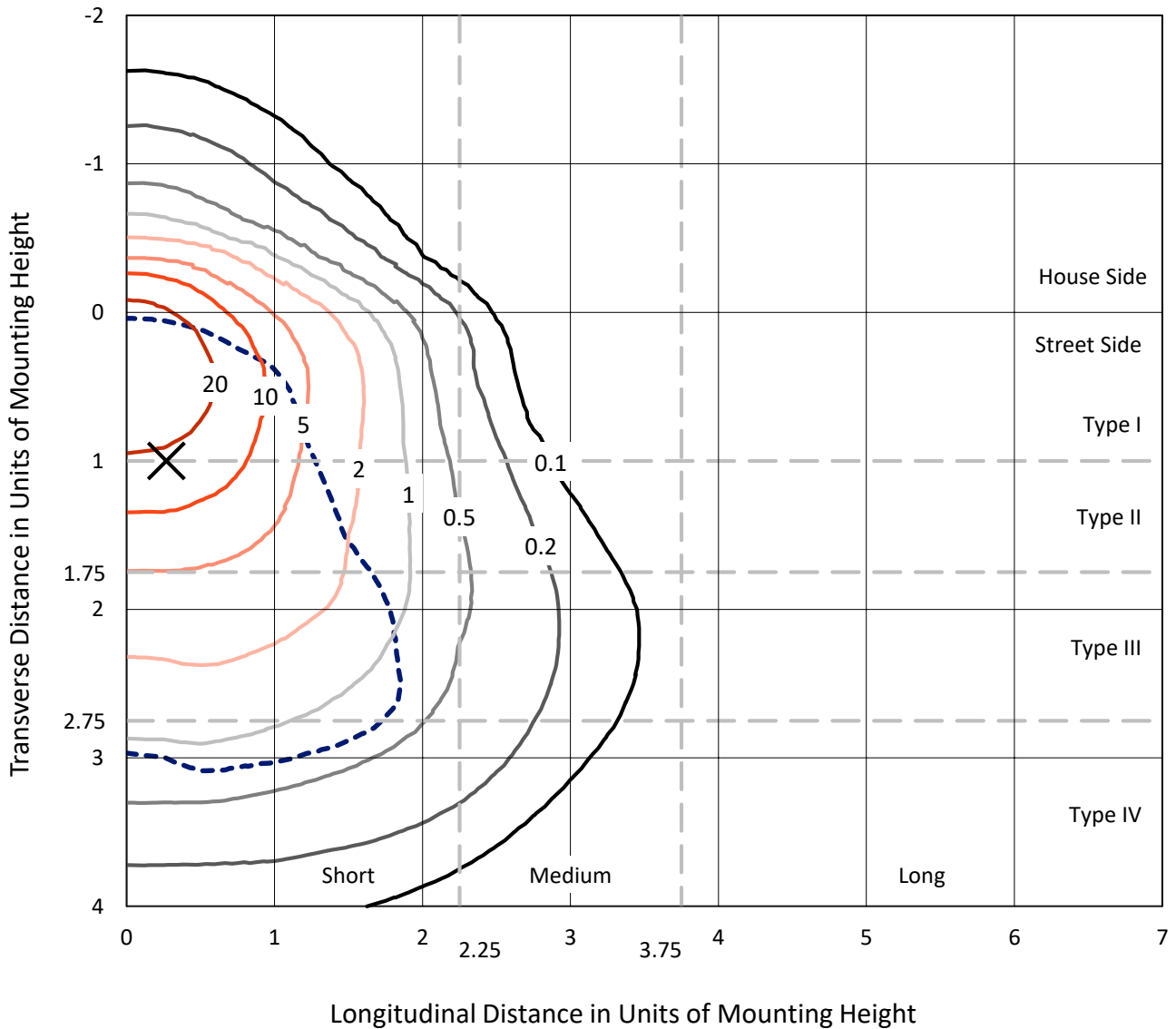
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

Iso-Footcandle Lines of Horizontal Illumination

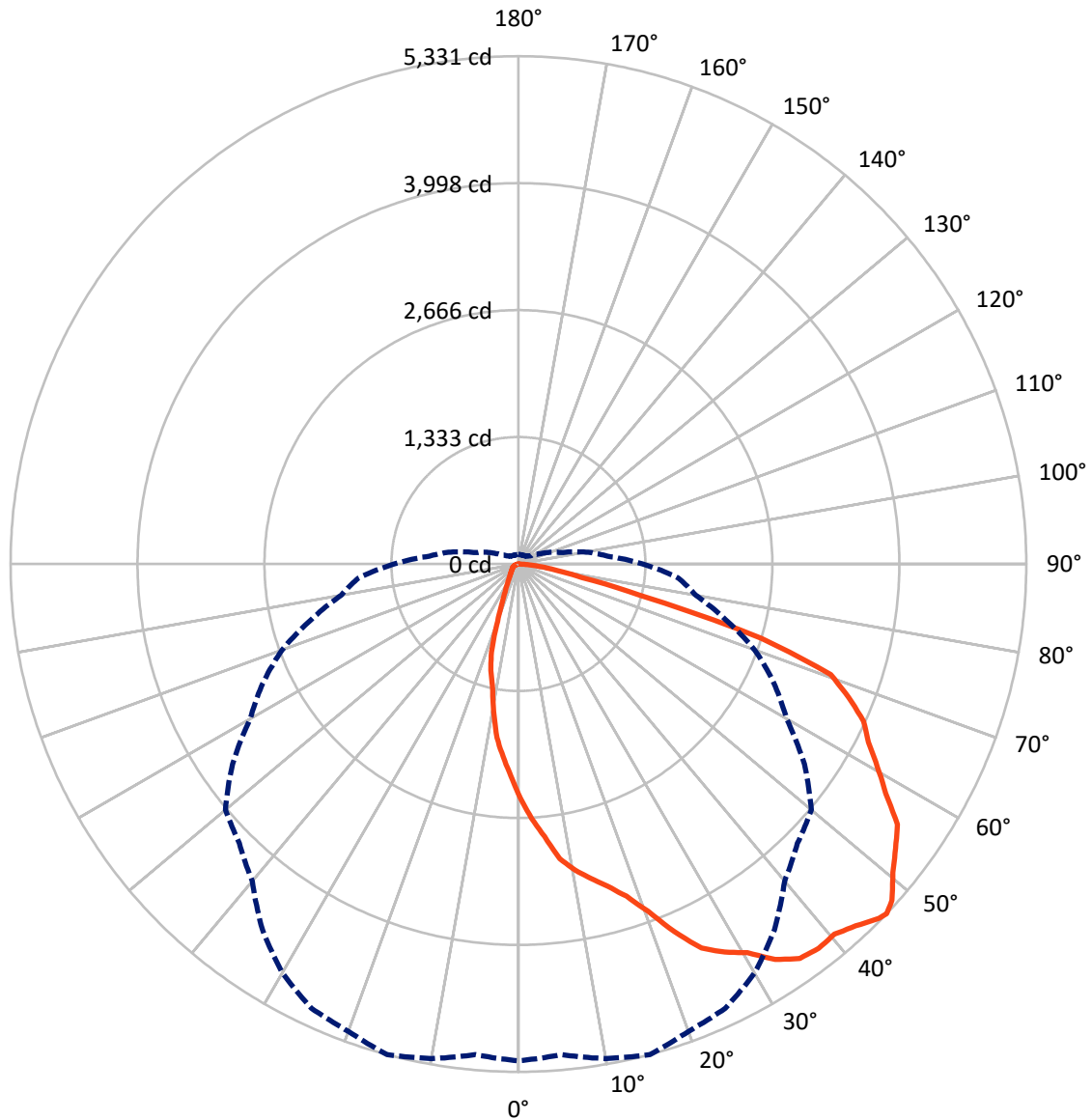
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.2 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P208573
CATALOG NUMBER: XTOR8B-W

Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical

REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

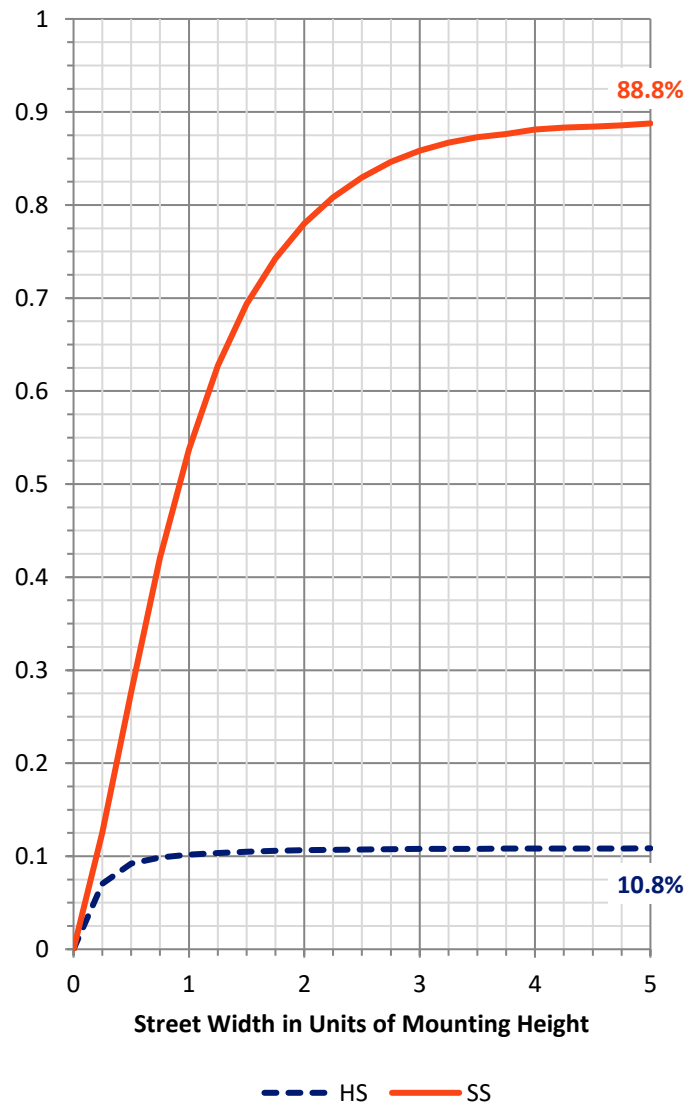
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	919.7	0.0	919.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7453.5	0.0	7453.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	8373.3	0.0	8373.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	2.8
10°-20°	664.3	7.9
20°-30°	1041.1	12.4
30°-40°	1386.8	16.6
40°-50°	1607.6	19.2
50°-60°	1562.2	18.7
60°-70°	1241.9	14.8
70°-80°	577.8	6.9
80°-90°	57.8	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
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°	8373.3	100.0
0°-180°	8373.3	100.0



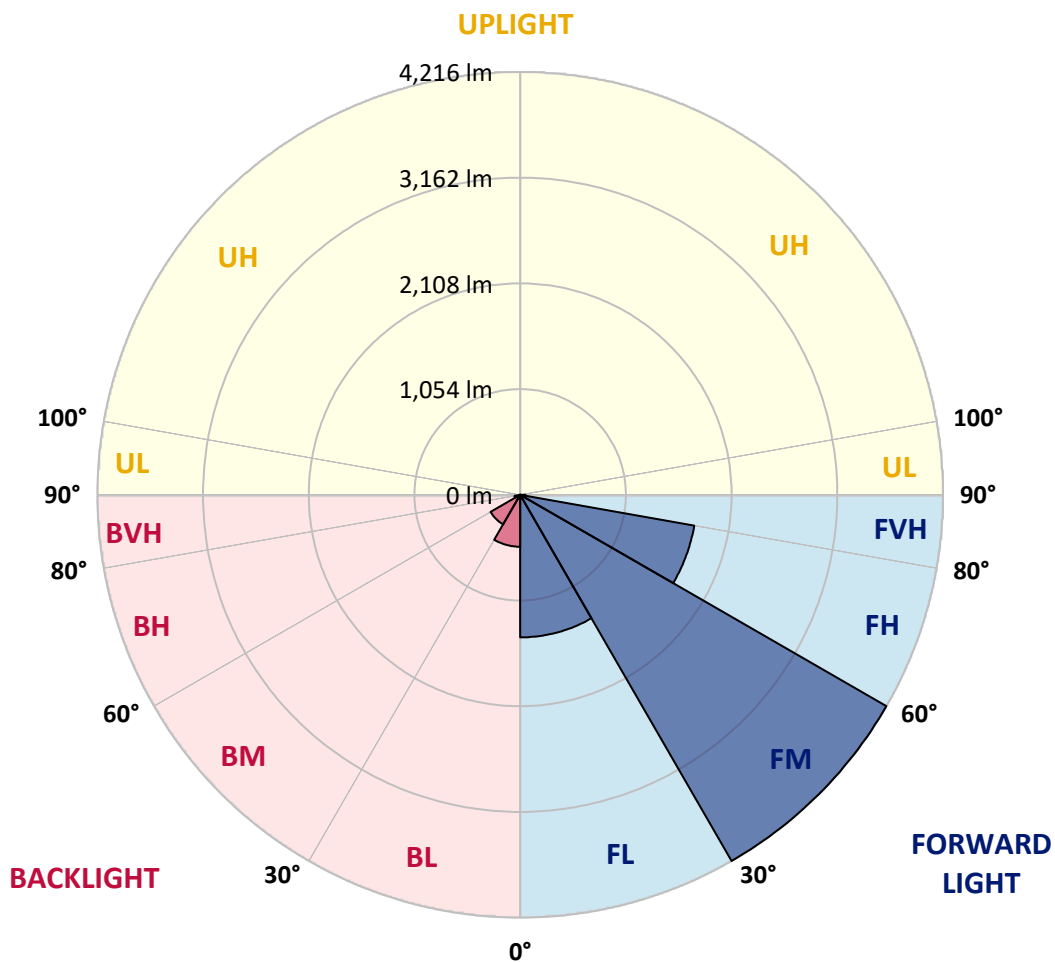
REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.4	17.0			
FM (30°-60°)	4216.1	50.4			
FH (60°-80°)	1762.6	21.1			G1/1800
FVH (80°-90°)	53.4	0.6			G1/100
BL (0°-30°)	517.7	6.2	B2/1000		
BM (30°-60°)	340.5	4.1	B1/1000		
BH (60°-80°)	57.1	0.7	B0/110		G0/110
BVH (80°-90°)	4.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type IV Short





REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3
2.5°	2668.1	2630.7	2644.5	2674.0	2641.5	2648.4	2669.1	2643.5	2627.7	2602.1	2614.9
5°	2883.8	2829.7	2843.4	2874.0	2836.5	2837.5	2853.3	2821.8	2800.1	2766.6	2767.6
7.5°	3124.1	3076.9	3091.6	3125.1	3078.8	3070.0	3076.9	3029.6	2988.2	2910.4	2888.7
10°	3256.1	3210.8	3228.5	3268.9	3215.7	3207.9	3213.8	3166.5	3129.1	3074.9	3047.3
12.5°	3384.2	3329.0	3341.8	3387.1	3329.0	3331.0	3344.8	3284.7	3241.3	3185.2	3162.6
15°	3510.2	3452.1	3462.0	3508.3	3442.3	3450.2	3467.9	3412.7	3354.6	3304.4	3272.9
17.5°	3654.0	3612.7	3619.6	3666.8	3592.0	3587.1	3571.3	3500.4	3452.1	3397.9	3353.6
20°	3974.1	3895.3	3870.7	3891.4	3791.9	3764.3	3713.1	3624.5	3544.7	3458.0	3418.6
22.5°	4296.2	4218.4	4195.7	4193.8	4068.7	4020.4	3941.6	3813.6	3667.8	3548.6	3460.0
25°	4552.3	4470.5	4458.7	4466.6	4351.3	4289.3	4196.7	4054.9	3879.6	3700.3	3551.6
27.5°	4663.6	4575.9	4579.8	4614.3	4516.8	4499.1	4432.1	4275.5	4091.3	3898.3	3706.2
30°	4864.5	4767.0	4737.4	4734.5	4597.6	4581.8	4553.3	4418.3	4250.9	4074.6	3885.5
32.5°	5092.0	4980.7	4971.8	4949.2	4785.7	4728.6	4650.8	4491.2	4304.1	4181.0	4013.5
35°	5153.1	5069.3	5090.0	5086.1	4951.2	4901.9	4807.4	4644.8	4356.3	4201.6	4087.4
37.5°	5126.5	5051.6	5093.0	5118.6	5018.1	5005.3	4918.7	4773.9	4491.2	4229.2	4078.5
40°	5109.7	5037.8	5089.0	5108.7	4995.5	4994.5	4946.2	4806.4	4549.3	4328.7	4087.4
42.5°	5218.1	5136.3	5179.7	5192.5	5040.8	5002.4	4895.0	4715.8	4501.1	4335.6	4128.8
45°	5267.3	5207.2	5277.2	5306.7	5166.9	5112.7	4929.5	4663.6	4372.0	4214.4	4064.7
46°	5215.1	5169.8	5272.2	5331.3	5220.0	5144.2	4957.1	4685.2	4346.4	4143.5	4014.5
47.5°	5076.2	5038.8	5163.9	5275.2	5228.9	5192.5	4976.8	4712.8	4337.6	4056.9	3854.9
50°	4855.6	4834.0	4984.6	5093.0	5059.5	5060.5	4931.5	4709.9	4332.6	3990.9	3596.9
52.5°	4790.6	4784.7	4928.5	4956.1	4870.4	4879.3	4754.2	4573.0	4259.7	3877.6	3441.3
55°	4584.8	4590.7	4779.8	4828.0	4764.0	4771.9	4656.7	4456.7	4024.4	3655.0	3210.8
57.5°	4314.9	4324.8	4507.9	4546.4	4525.7	4595.6	4538.5	4337.6	3920.9	3390.1	2912.4
60°	4056.9	4077.5	4237.1	4330.7	4351.3	4414.4	4298.2	4128.8	3698.3	3149.8	2628.7
62.5°	3812.6	3832.3	3978.1	4123.8	4255.8	4302.1	4157.3	3900.3	3345.7	2828.7	2387.4
65°	3471.8	3474.8	3748.6	3981.0	4029.3	4041.1	3938.7	3802.7	3137.9	2546.0	2151.0
67.5°	3087.7	3161.6	3565.4	3738.7	3699.3	3730.9	3588.0	3510.2	3066.0	2461.3	1975.7
70°	3007.9	3098.5	3425.5	3476.7	3414.7	3354.6	3167.5	3043.4	2730.2	2366.7	1850.7
72.5°	2372.7	2414.0	2616.9	2668.1	2745.9	2831.6	2875.0	2737.1	2353.9	1835.9	1551.2
75°	1107.0	1120.8	1188.8	1322.7	1411.4	1576.8	1718.7	1804.4	1714.7	1469.5	1218.3
77.5°	614.6	621.5	652.0	679.6	691.4	715.0	749.5	750.5	734.7	747.5	766.3
80°	381.2	382.1	396.9	420.6	432.4	447.2	456.0	429.4	366.4	311.2	282.7
82.5°	225.5	224.6	231.5	240.3	247.2	265.9	270.9	260.0	202.9	171.4	142.8
85°	107.4	106.4	108.3	112.3	114.2	125.1	129.0	124.1	95.5	80.8	63.0
87.5°	22.7	23.6	22.7	24.6	23.6	26.6	26.6	29.5	22.7	21.7	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3
2.5°	2605.1	2591.3	2549.9	2510.5	2519.4	2470.2	2502.7	2436.7	2417.0	2406.1	2397.3
5°	2742.0	2709.5	2647.4	2588.4	2573.6	2503.6	2519.4	2436.7	2399.2	2368.7	2337.2
7.5°	2848.4	2807.0	2737.1	2663.2	2625.8	2523.3	2522.4	2423.9	2366.7	2312.6	2272.2
10°	2983.3	2875.9	2800.1	2714.4	2660.2	2537.1	2506.6	2395.3	2317.5	2247.6	2197.3
12.5°	3098.5	3007.9	2890.7	2756.8	2697.7	2552.9	2498.7	2367.7	2268.3	2185.5	2111.7
15°	3190.1	3105.4	2997.1	2840.5	2731.2	2569.6	2493.8	2338.2	2216.1	2123.5	2012.2
17.5°	3272.9	3171.4	3066.0	2911.4	2747.9	2573.6	2474.1	2288.9	2147.1	2041.7	1905.8
20°	3318.2	3209.8	3095.6	2941.0	2786.3	2552.9	2435.7	2227.9	2063.4	1933.4	1801.4
22.5°	3359.5	3224.6	3110.4	2942.9	2790.3	2521.4	2385.5	2155.0	1970.8	1818.1	1693.1
25°	3406.8	3259.1	3116.3	2943.9	2783.4	2491.8	2334.2	2074.2	1876.3	1698.0	1576.8
27.5°	3493.5	3285.7	3140.9	2937.0	2756.8	2486.9	2278.1	1991.5	1774.8	1584.7	1440.9
30°	3637.3	3339.8	3135.0	2900.6	2718.4	2448.5	2202.3	1900.9	1665.5	1461.6	1296.1
32.5°	3770.2	3423.6	3144.8	2881.9	2658.3	2393.3	2119.5	1802.4	1550.3	1340.5	1147.4
35°	3861.8	3500.4	3162.6	2834.6	2579.5	2314.5	2042.7	1702.9	1432.1	1222.3	1001.7
37.5°	3894.3	3542.7	3191.1	2793.2	2506.6	2232.8	1975.7	1611.3	1316.8	1106.1	867.7
40°	3823.4	3530.9	3179.3	2754.8	2429.8	2143.2	1915.7	1518.7	1202.6	990.8	735.7
42.5°	3774.2	3415.7	3128.1	2723.3	2340.2	2029.9	1834.9	1428.1	1091.3	878.5	596.9
45°	3715.1	3309.3	3033.5	2672.1	2273.2	1925.5	1729.5	1339.5	982.0	766.3	493.4
46°	3663.9	3251.2	2959.7	2640.6	2250.5	1889.1	1686.2	1304.0	939.6	721.9	461.9
47.5°	3570.3	3161.6	2855.3	2573.6	2215.1	1827.0	1615.3	1247.9	878.5	656.0	409.7
50°	3299.5	2950.8	2679.9	2409.1	2128.4	1719.7	1483.3	1149.4	776.1	550.6	329.9
52.5°	2975.4	2695.7	2496.8	2208.2	1987.6	1632.0	1325.7	1043.0	671.7	451.1	270.9
55°	2735.1	2371.7	2258.4	2003.3	1790.6	1523.7	1173.0	922.9	563.4	357.5	219.6
57.5°	2469.2	2139.2	1932.4	1800.4	1569.0	1359.2	1014.5	778.1	458.0	271.8	176.3
60°	2185.5	1899.9	1695.0	1495.1	1294.2	1097.2	842.1	622.5	358.5	199.0	140.8
62.5°	2003.3	1662.5	1380.8	1215.4	981.0	821.4	651.0	470.8	258.0	141.8	109.3
65°	1803.4	1440.9	1106.1	878.5	689.4	529.9	458.0	329.0	175.3	103.4	86.7
67.5°	1560.1	1147.4	894.3	587.0	454.0	316.2	293.5	201.9	116.2	79.8	70.9
70°	1352.3	944.5	640.2	455.0	266.9	211.8	160.5	117.2	77.8	64.0	58.1
72.5°	1180.9	792.9	534.8	296.5	199.9	123.1	92.6	67.0	54.2	50.2	47.3
75°	950.4	738.7	439.3	242.3	136.9	76.8	54.2	44.3	42.4	38.4	37.4
77.5°	734.7	609.7	390.0	200.9	96.5	44.3	38.4	33.5	32.5	30.5	29.5
80°	284.6	290.5	261.0	149.7	63.0	30.5	26.6	23.6	23.6	22.7	21.7
82.5°	124.1	101.4	92.6	65.0	33.5	19.7	17.7	15.8	15.8	15.8	14.8
85°	54.2	40.4	30.5	19.7	14.8	11.8	11.8	10.8	10.8	10.8	9.8
87.5°	13.8	11.8	9.8	8.9	8.9	7.9	8.9	8.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3	2460.3
2.5°	2361.8	2355.9	2354.9	2298.8	2307.7	2262.3	2274.2	2270.2	2252.5	2233.8	2235.8
5°	2288.9	2272.2	2262.3	2187.5	2180.6	2113.6	2105.7	2087.0	2064.4	2039.8	2041.7
7.5°	2213.1	2171.7	2129.4	2035.8	2028.9	1976.7	1969.8	1947.2	1914.7	1870.3	1863.5
10°	2104.8	2039.8	2008.2	1926.5	1900.9	1822.1	1786.6	1739.4	1693.1	1634.0	1615.3
12.5°	1995.4	1948.2	1903.8	1789.6	1733.4	1633.0	1576.8	1471.5	1389.7	1349.3	1319.8
15°	1908.8	1849.7	1767.9	1626.1	1544.3	1380.8	1316.8	1250.8	1216.4	1194.7	1174.0
17.5°	1812.2	1715.7	1601.5	1431.1	1294.2	1195.7	1164.2	1122.8	1074.5	1032.2	980.0
20°	1688.1	1557.1	1414.3	1211.4	1131.7	1071.6	1019.4	947.5	873.6	802.7	709.1
22.5°	1547.3	1393.7	1192.7	1065.7	1010.5	920.9	842.1	700.3	617.5	560.4	509.2
25°	1395.6	1182.9	1035.1	950.4	864.8	751.5	612.6	521.0	454.0	410.7	376.2
27.5°	1239.0	1019.4	917.0	818.5	706.2	550.6	461.9	392.0	344.7	316.2	299.4
30°	1062.7	873.6	797.8	680.6	520.0	416.6	352.6	304.3	272.8	253.1	240.3
32.5°	877.6	760.4	671.7	506.2	402.8	323.1	276.8	247.2	222.6	208.8	200.9
35°	744.6	657.9	541.7	394.0	309.3	250.2	222.6	200.9	185.2	173.3	168.4
37.5°	631.3	554.5	408.7	305.3	243.3	204.9	183.2	168.4	156.6	149.7	146.8
40°	544.7	457.0	323.1	240.3	195.0	167.4	154.6	143.8	137.9	132.0	130.0
42.5°	463.9	352.6	257.1	192.1	160.5	141.8	133.0	126.1	121.1	117.2	116.2
45°	389.0	280.7	207.8	158.6	136.9	123.1	117.2	112.3	109.3	105.4	105.4
46°	360.5	258.0	192.1	147.7	130.0	117.2	112.3	107.4	104.4	101.4	101.4
47.5°	318.1	229.5	170.4	134.9	119.2	109.3	105.4	101.4	98.5	96.5	96.5
50°	253.1	185.2	141.8	118.2	106.4	98.5	95.5	92.6	91.6	89.6	90.6
52.5°	198.0	152.7	122.1	104.4	95.5	89.6	87.7	86.7	85.7	82.7	82.7
55°	159.6	126.1	106.4	92.6	86.7	82.7	81.7	80.8	78.8	76.8	76.8
57.5°	131.0	109.3	93.6	82.7	78.8	77.8	76.8	73.9	72.9	71.9	72.9
60°	109.3	94.6	83.7	75.8	72.9	71.9	69.9	68.9	68.9	68.0	68.9
62.5°	91.6	82.7	74.9	68.9	68.0	66.0	66.0	65.0	64.0	63.0	63.0
65°	76.8	72.9	66.0	62.0	61.1	61.1	62.0	60.1	58.1	56.1	55.2
67.5°	66.0	63.0	59.1	55.2	57.1	56.1	56.1	53.2	50.2	48.3	46.3
70°	55.2	53.2	51.2	50.2	51.2	50.2	48.3	45.3	43.3	40.4	39.4
72.5°	45.3	44.3	44.3	43.3	43.3	41.4	39.4	37.4	36.4	33.5	33.5
75°	35.5	36.4	36.4	36.4	34.5	33.5	32.5	30.5	29.5	27.6	26.6
77.5°	27.6	28.6	28.6	27.6	26.6	25.6	24.6	23.6	22.7	20.7	20.7
80°	20.7	20.7	20.7	19.7	19.7	18.7	17.7	16.7	15.8	14.8	14.8
82.5°	13.8	13.8	12.8	12.8	11.8	11.8	11.8	10.8	9.8	8.9	8.9
85°	9.8	8.9	8.9	7.9	7.9	7.9	6.9	6.9	5.9	4.9	4.9
87.5°	6.9	6.9	5.9	5.9	5.9	4.9	4.9	4.9	3.9	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P208573
 CATALOG NUMBER: XTOR8B-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2460.3	2460.3	2460.3	2460.3
2.5°	2227.9	2206.2	2252.5	2208.2
5°	2029.9	2008.2	2046.6	2001.3
7.5°	1838.8	1818.1	1845.7	1798.5
10°	1571.9	1548.3	1537.4	1512.8
12.5°	1307.0	1270.5	1276.4	1243.9
15°	1156.3	1133.6	1134.6	1105.1
17.5°	967.2	920.9	914.0	887.4
20°	678.6	634.3	623.4	604.7
22.5°	485.6	451.1	443.2	430.4
25°	357.5	338.8	335.9	325.0
27.5°	284.6	271.8	269.9	261.0
30°	232.4	220.6	220.6	213.7
32.5°	193.0	184.2	184.2	177.3
35°	163.5	158.6	159.6	153.6
37.5°	142.8	138.9	140.8	135.9
40°	128.0	123.1	125.1	121.1
42.5°	114.2	111.3	112.3	108.3
45°	104.4	101.4	103.4	99.5
46°	100.5	98.5	100.5	97.5
47.5°	96.5	94.6	96.5	93.6
50°	89.6	87.7	88.6	85.7
52.5°	81.7	80.8	81.7	79.8
55°	76.8	75.8	77.8	75.8
57.5°	72.9	71.9	72.9	71.9
60°	68.0	67.0	67.0	65.0
62.5°	61.1	59.1	59.1	57.1
65°	53.2	51.2	51.2	49.2
67.5°	45.3	43.3	43.3	42.4
70°	38.4	36.4	37.4	35.5
72.5°	32.5	30.5	30.5	29.5
75°	25.6	24.6	24.6	23.6
77.5°	19.7	18.7	18.7	17.7
80°	13.8	12.8	12.8	11.8
82.5°	7.9	6.9	7.9	6.9
85°	3.0	3.0	3.0	3.0
87.5°	2.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)