

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: McGRAW-EDISON

Report Number: P197940

Luminaire Tested: **TT-C6-LED-E1-WQ-SG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-WQ-SG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10543.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 108
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



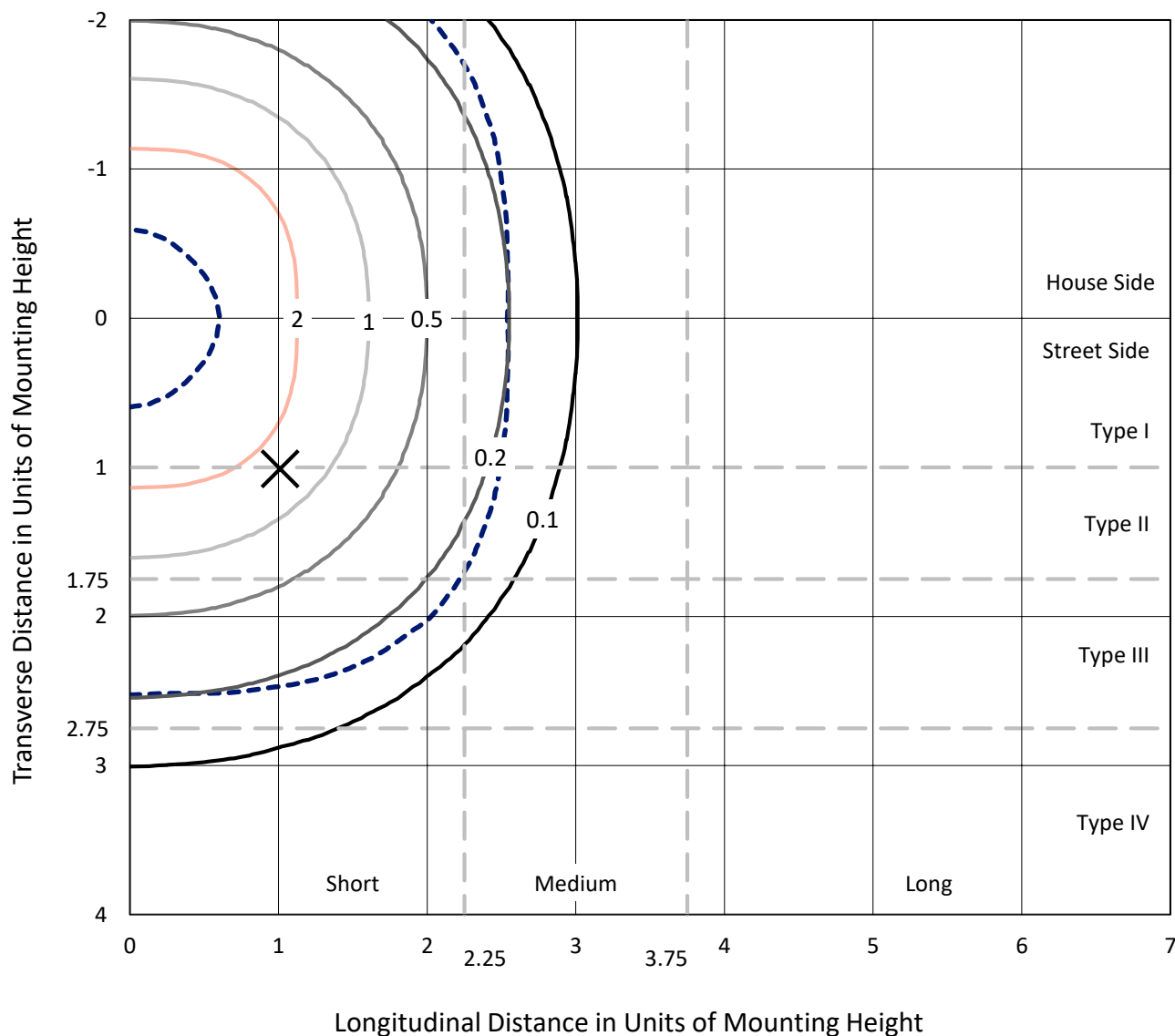
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

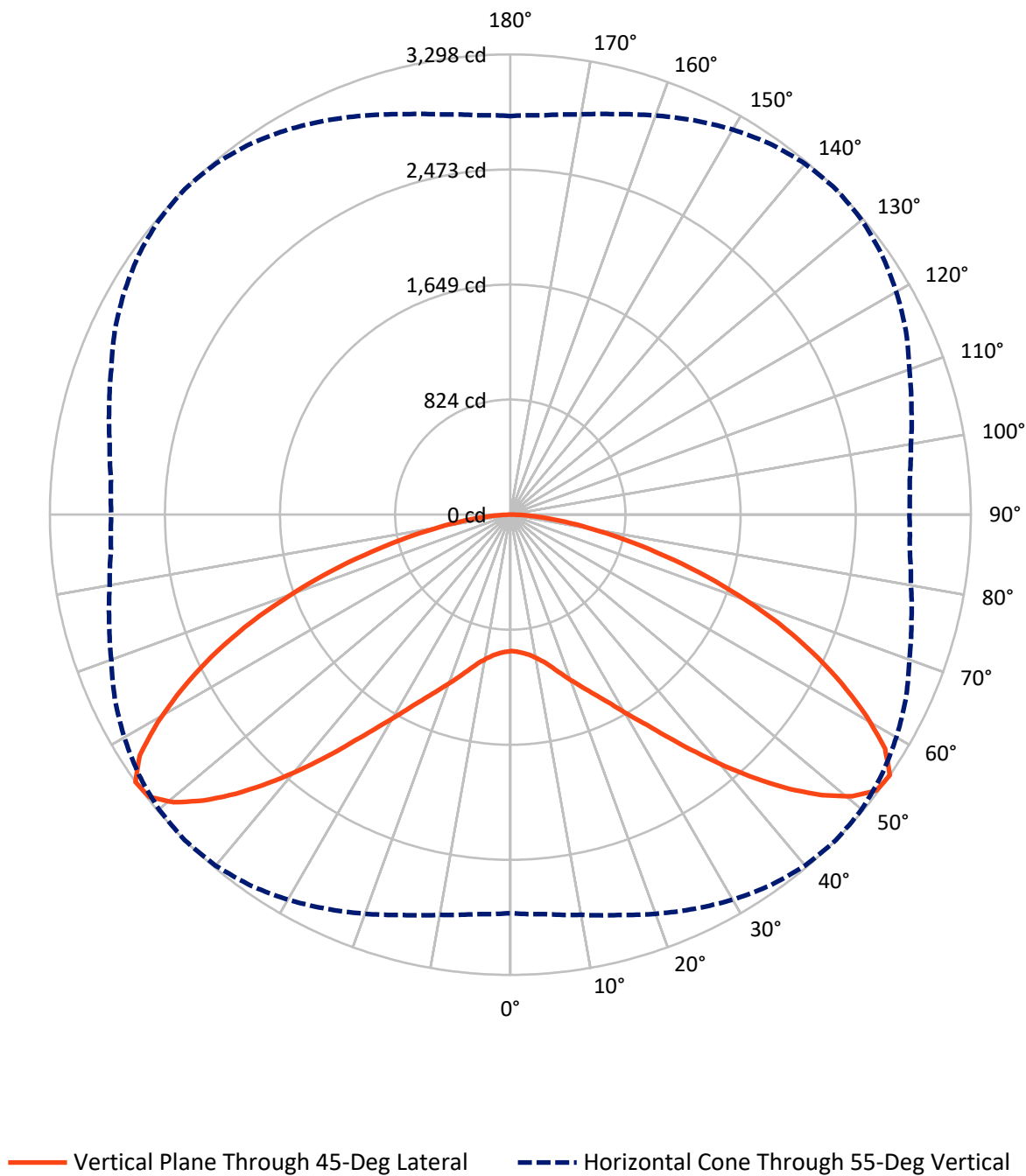


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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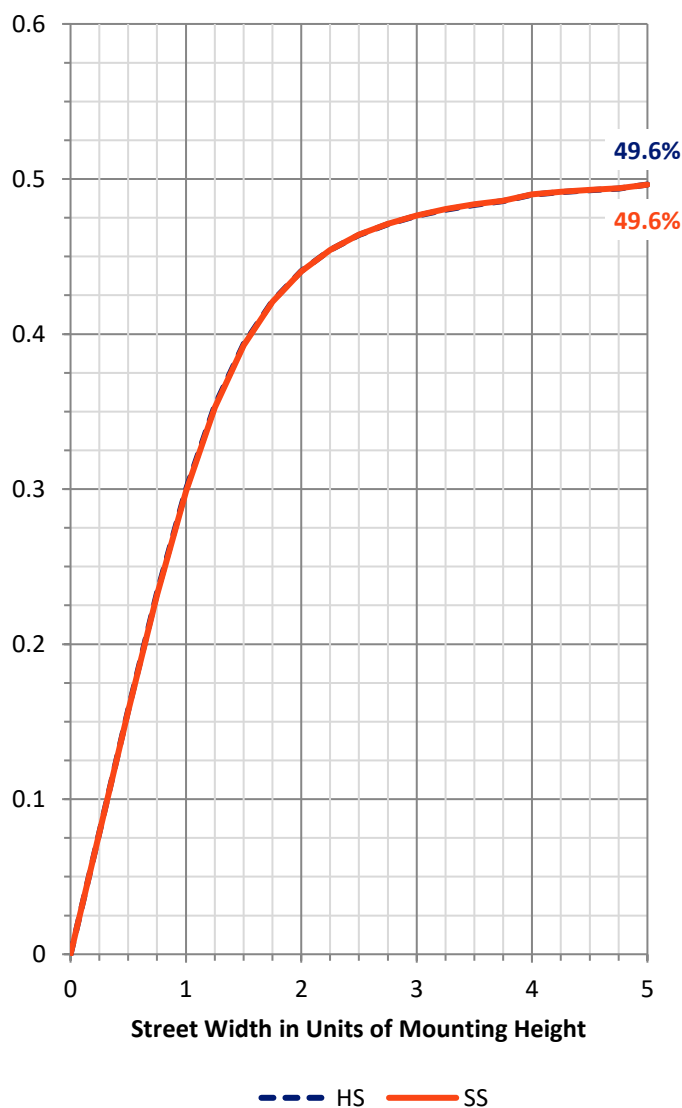
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5271.8	0.0	5271.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5271.8	0.0	5271.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10543.6	0.0	10543.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	0.9
10°-20°	327.3	3.1
20°-30°	666.5	6.3
30°-40°	1217.2	11.5
40°-50°	2066.7	19.6
50°-60°	2691.5	25.5
60°-70°	2176.8	20.6
70°-80°	1069.7	10.1
80°-90°	231.5	2.2
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°	10543.6	100.0
0°-180°	10543.6	100.0

Coefficient of Utilization



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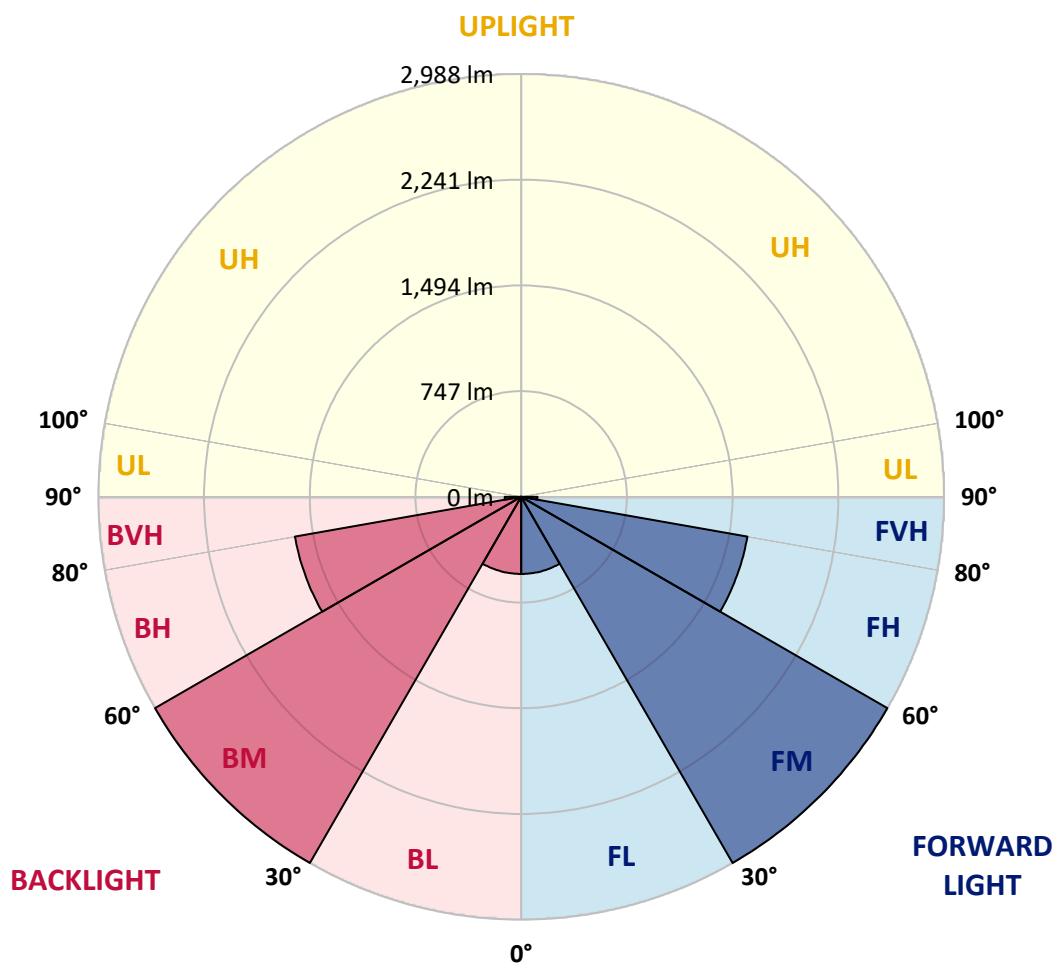
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.2	5.2			
FM	(30°-60°)	2987.7	28.3			
FH	(60°-80°)	1623.2	15.4			G1/1800
FVH	(80°-90°)	115.8	1.1			G2/225
BL	(0°-30°)	545.2	5.2	B2/1000		
BM	(30°-60°)	2987.7	28.3	B3/5000		
BH	(60°-80°)	1623.2	15.4	B3/2500		G1/1800
BVH	(80°-90°)	115.8	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0
2.5°	981.3	981.3	981.3	981.3	981.3	981.3	983.4	983.4	983.4	983.4	983.4
5°	994.2	994.2	994.2	996.4	996.4	996.4	996.4	996.4	996.4	996.4	996.4
7.5°	1013.6	1011.5	1013.6	1013.6	1013.6	1015.8	1015.8	1013.6	1015.8	1015.8	1015.8
10°	1041.7	1039.5	1041.7	1041.7	1041.7	1043.8	1043.8	1043.8	1043.8	1046.0	1046.0
12.5°	1082.6	1080.5	1082.6	1084.8	1082.6	1084.8	1084.8	1084.8	1084.8	1084.8	1084.8
15°	1134.4	1132.2	1134.4	1136.6	1134.4	1138.7	1138.7	1136.6	1136.6	1138.7	1138.7
17.5°	1196.9	1192.6	1194.8	1196.9	1196.9	1201.3	1201.3	1199.1	1201.3	1203.4	1201.3
20°	1261.6	1257.3	1259.5	1266.0	1266.0	1268.1	1272.4	1270.3	1272.4	1274.6	1272.4
22.5°	1332.8	1330.7	1332.8	1339.3	1339.3	1341.4	1347.9	1347.9	1347.9	1350.1	1347.9
25°	1410.5	1408.3	1410.5	1416.9	1416.9	1421.2	1429.9	1429.9	1432.0	1434.2	1432.0
27.5°	1501.0	1498.9	1503.2	1509.7	1511.8	1518.3	1529.1	1531.2	1533.4	1535.5	1531.2
30°	1606.7	1602.4	1608.9	1619.6	1624.0	1632.6	1645.5	1649.8	1652.0	1658.5	1654.2
32.5°	1727.5	1723.2	1731.8	1744.7	1751.2	1764.1	1781.4	1785.7	1792.2	1796.5	1790.0
35°	1869.8	1867.7	1876.3	1895.7	1906.5	1921.6	1945.3	1951.8	1956.1	1964.7	1956.1
37.5°	2027.3	2025.1	2040.2	2061.8	2081.2	2104.9	2130.8	2141.6	2148.0	2158.8	2148.0
40°	2201.9	2199.8	2219.2	2245.1	2268.8	2299.0	2331.3	2346.4	2359.4	2370.2	2357.2
42.5°	2381.0	2381.0	2404.7	2432.7	2467.2	2503.9	2540.5	2557.8	2579.4	2585.8	2570.7
45°	2553.5	2555.6	2579.4	2613.9	2663.5	2710.9	2751.9	2773.5	2797.2	2803.7	2784.2
47.5°	2717.4	2719.5	2741.1	2786.4	2842.5	2896.4	2946.0	2976.2	2999.9	3002.1	2987.0
50°	2851.1	2859.7	2887.8	2928.7	2987.0	3043.0	3103.4	3142.3	3166.0	3172.4	3157.3
52.5°	2902.9	2918.0	2950.3	3002.1	3068.9	3127.2	3194.0	3243.6	3271.6	3282.4	3269.5
55°	2855.4	2872.7	2911.5	2969.7	3043.0	3116.4	3185.4	3243.6	3282.4	3297.5	3284.6
57.5°	2749.7	2751.9	2790.7	2848.9	2915.8	2991.3	3058.1	3112.1	3148.7	3163.8	3161.7
60°	2566.4	2566.4	2603.1	2659.2	2710.9	2788.6	2844.6	2885.6	2911.5	2928.7	2924.4
62.5°	2320.6	2320.6	2352.9	2411.1	2462.9	2529.8	2583.7	2626.8	2644.1	2663.5	2667.8
65°	2046.7	2046.7	2076.9	2135.1	2182.5	2242.9	2294.7	2335.7	2352.9	2376.6	2372.3
67.5°	1755.5	1753.4	1781.4	1831.0	1876.3	1932.4	1982.0	2020.8	2040.2	2068.2	2048.8
70°	1455.7	1455.7	1479.5	1518.3	1550.6	1606.7	1654.2	1693.0	1708.1	1731.8	1721.0
72.5°	1171.1	1168.9	1188.3	1218.5	1244.4	1294.0	1322.0	1365.2	1378.1	1410.5	1393.2
75°	914.4	910.1	925.2	946.8	964.0	996.4	1017.9	1052.4	1063.2	1084.8	1076.2
77.5°	688.0	685.8	692.3	707.4	720.3	746.2	754.8	772.1	780.7	802.3	785.0
80°	493.9	487.4	493.9	502.5	506.8	526.2	528.4	534.9	539.2	554.3	537.0
82.5°	332.1	323.5	327.8	334.3	334.3	345.1	347.2	345.1	353.7	358.0	349.4
85°	189.8	183.3	185.5	189.8	187.6	194.1	194.1	191.9	198.4	198.4	194.1
87.5°	62.5	58.2	60.4	62.5	62.5	64.7	66.9	64.7	69.0	69.0	64.7
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0
2.5°	983.4	983.4	983.4	983.4	983.4	983.4	983.4	983.4
5°	996.4	996.4	996.4	996.4	996.4	994.2	994.2	994.2
7.5°	1015.8	1015.8	1015.8	1015.8	1015.8	1013.6	1013.6	1013.6
10°	1046.0	1043.8	1043.8	1043.8	1043.8	1041.7	1043.8	1041.7
12.5°	1084.8	1087.0	1087.0	1084.8	1087.0	1082.6	1082.6	1082.6
15°	1138.7	1136.6	1136.6	1136.6	1136.6	1134.4	1134.4	1134.4
17.5°	1199.1	1199.1	1196.9	1196.9	1194.8	1192.6	1192.6	1192.6
20°	1270.3	1268.1	1266.0	1263.8	1261.6	1257.3	1255.2	1255.2
22.5°	1343.6	1341.4	1339.3	1337.1	1335.0	1330.7	1326.3	1326.3
25°	1425.6	1421.2	1419.1	1414.8	1410.5	1406.1	1404.0	1401.8
27.5°	1524.8	1520.4	1514.0	1507.5	1498.9	1496.7	1492.4	1492.4
30°	1643.4	1636.9	1628.3	1617.5	1608.9	1600.2	1595.9	1593.8
32.5°	1781.4	1772.8	1757.7	1744.7	1729.6	1721.0	1714.5	1710.2
35°	1943.1	1930.2	1913.0	1893.5	1874.1	1859.0	1848.3	1848.3
37.5°	2132.9	2113.5	2087.6	2063.9	2035.9	2018.6	2005.7	1997.1
40°	2340.0	2311.9	2279.6	2249.4	2217.0	2193.3	2173.9	2176.1
42.5°	2544.9	2521.1	2482.3	2445.6	2404.7	2372.3	2348.6	2346.4
45°	2760.5	2730.3	2682.9	2635.4	2588.0	2549.2	2521.1	2516.8
47.5°	2961.1	2928.7	2872.7	2814.4	2762.7	2719.5	2689.4	2685.0
50°	3125.0	3086.2	3027.9	2965.4	2909.3	2861.9	2829.5	2820.9
52.5°	3230.7	3187.5	3125.0	3049.5	2989.1	2935.2	2896.4	2885.6
55°	3247.9	3191.9	3125.0	3040.9	2974.0	2913.6	2870.5	2857.6
57.5°	3129.3	3068.9	3008.5	2935.2	2868.4	2803.7	2769.1	2751.9
60°	2898.5	2851.1	2801.5	2734.6	2680.7	2620.3	2592.3	2583.7
62.5°	2633.3	2592.3	2547.0	2478.0	2432.7	2378.8	2352.9	2342.1
65°	2348.6	2301.2	2258.0	2201.9	2152.3	2107.1	2070.4	2066.1
67.5°	2033.7	1984.1	1947.5	1897.9	1848.3	1805.1	1781.4	1768.5
70°	1701.6	1660.6	1624.0	1570.0	1537.7	1496.7	1479.5	1466.5
72.5°	1371.6	1347.9	1302.6	1268.1	1231.5	1199.1	1188.3	1175.4
75°	1061.1	1033.0	998.5	977.0	948.9	931.7	923.0	914.4
77.5°	778.6	754.8	735.4	726.8	713.9	696.6	690.1	683.7
80°	539.2	528.4	515.4	513.3	504.7	491.7	489.6	487.4
82.5°	349.4	342.9	338.6	338.6	334.3	325.7	323.5	323.5
85°	194.1	191.9	194.1	191.9	187.6	183.3	183.3	183.3
87.5°	64.7	64.7	66.9	69.0	62.5	62.5	60.4	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)