

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: P197890

Luminaire Tested: **TT-C6-LED-E1-WQ-SG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-WQ-SG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9937.1 lumens
Efficiency: N/A
Efficacy: 92.0 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



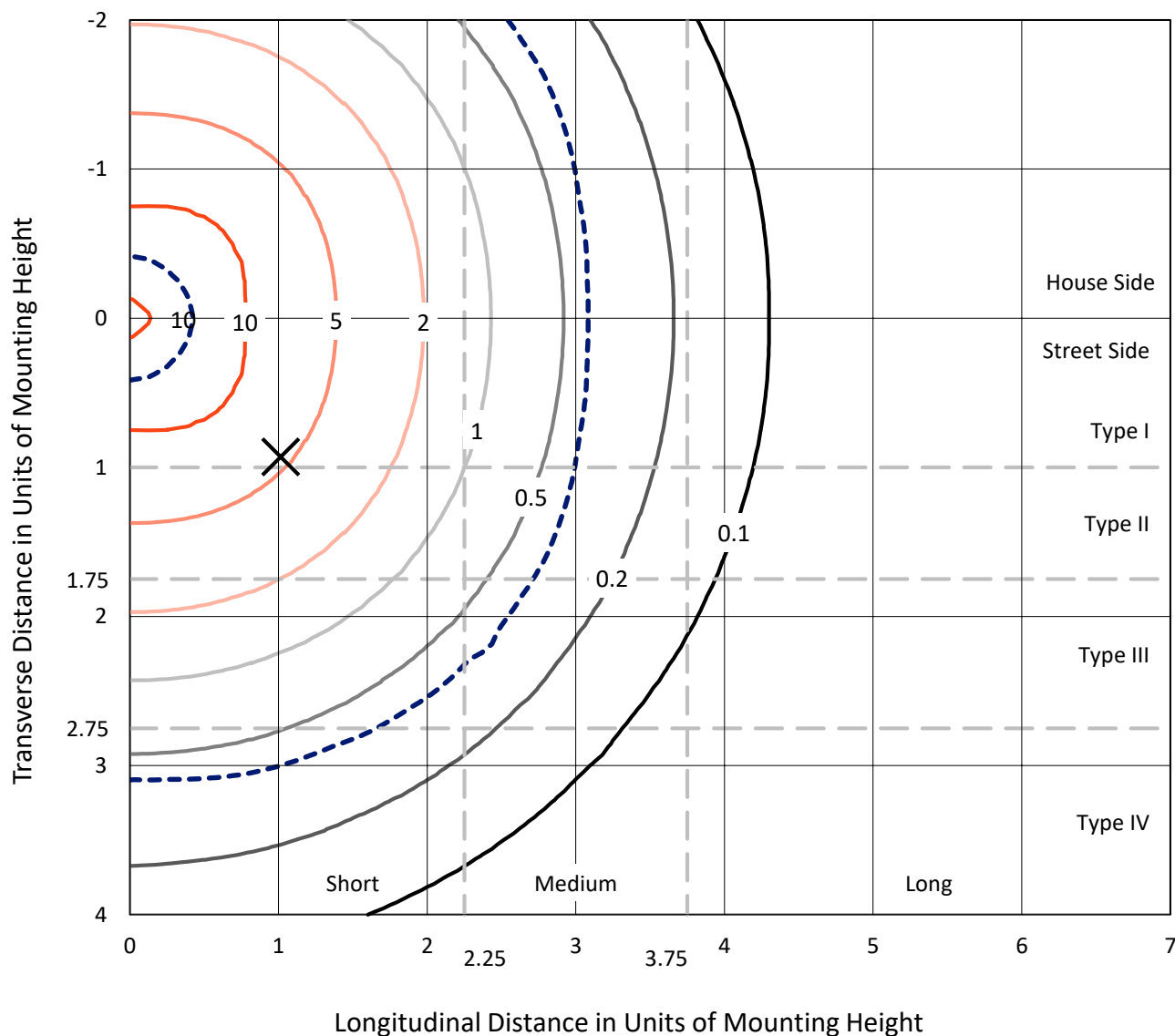
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

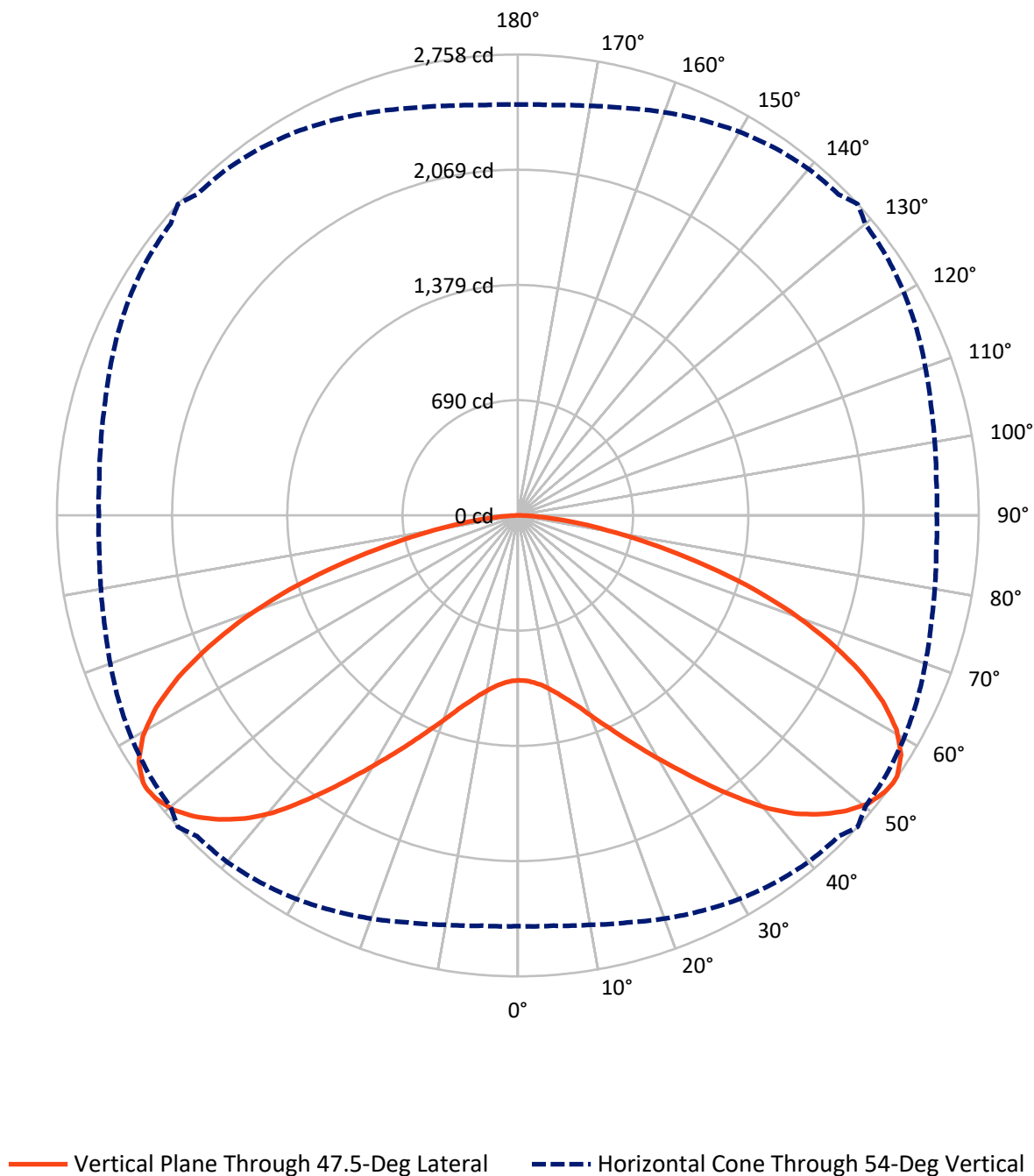


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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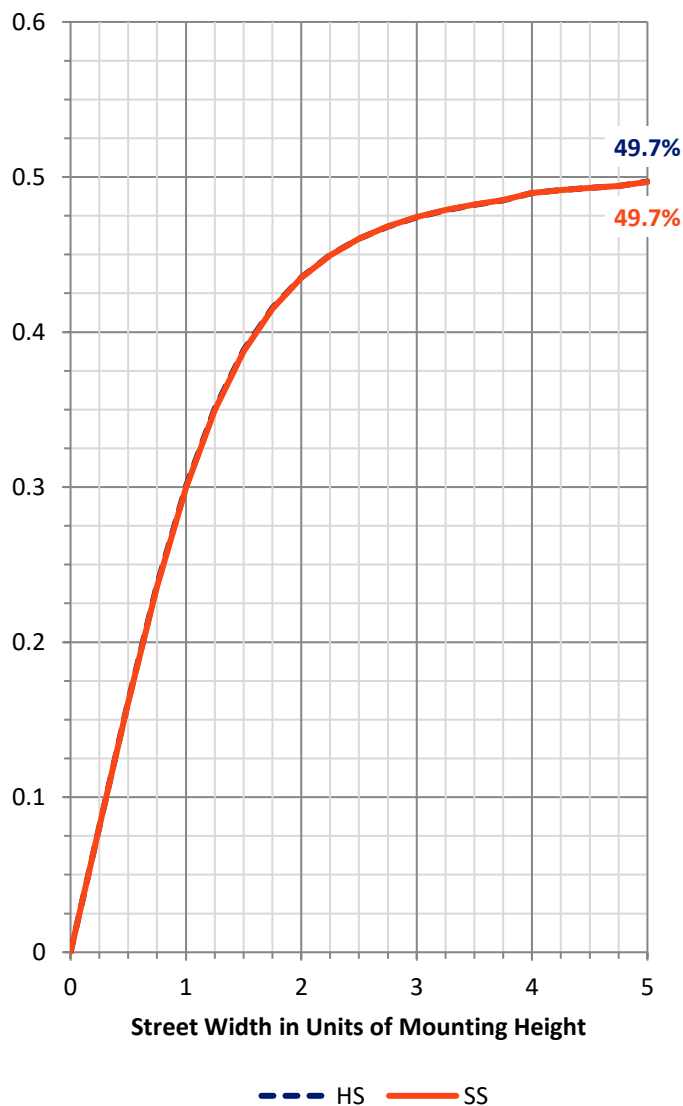
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4968.6	0.0	4968.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4968.6	0.0	4968.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9937.1	0.0	9937.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.0
10°-20°	330.2	3.3
20°-30°	679.9	6.8
30°-40°	1215.9	12.2
40°-50°	1865.5	18.8
50°-60°	2300.0	23.1
60°-70°	2080.8	20.9
70°-80°	1145.7	11.5
80°-90°	221.6	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°	9937.1	100.0
0°-180°	9937.1	100.0

Coefficient of Utilization



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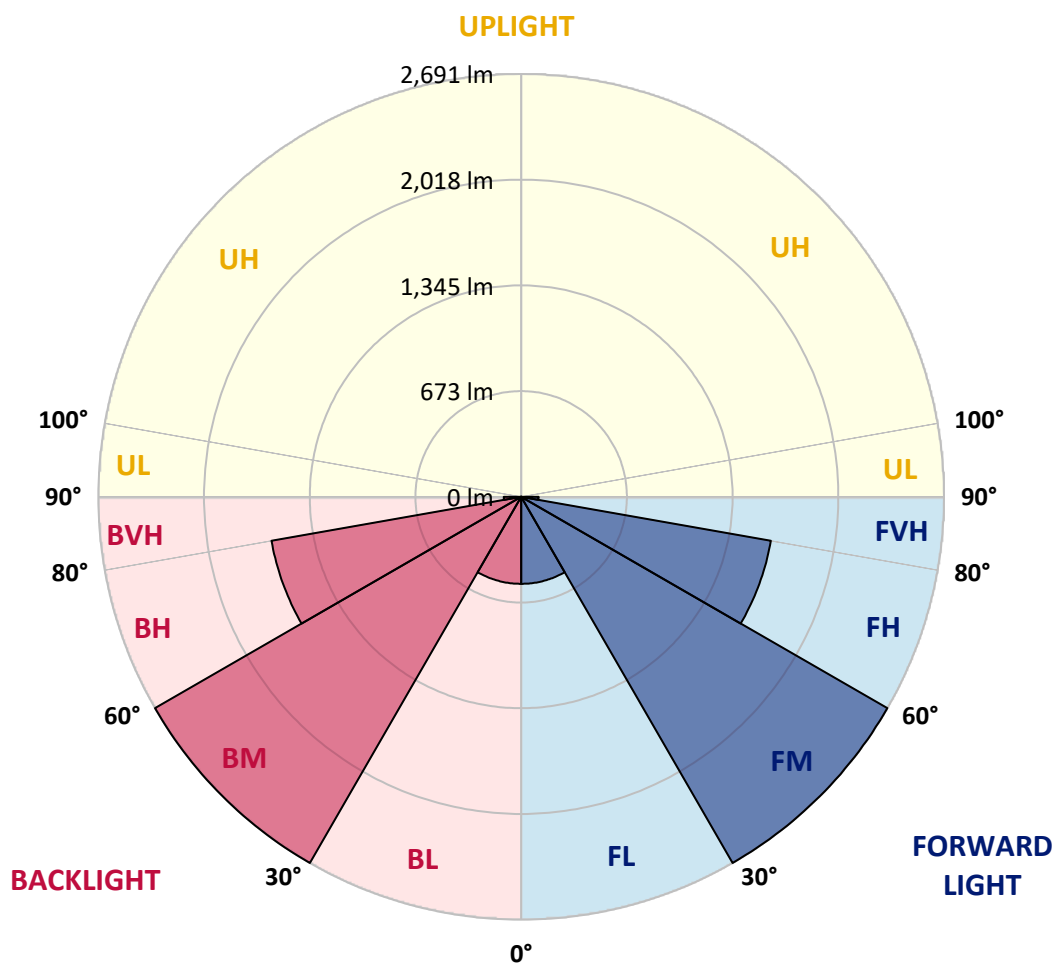
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.8	5.6			
FM	(30°-60°)	2690.7	27.1			
FH	(60°-80°)	1613.3	16.2			G1/1800
FVH	(80°-90°)	110.8	1.1			G2/225
BL	(0°-30°)	553.8	5.6	B2/1000		
BM	(30°-60°)	2690.7	27.1	B3/5000		
BH	(60°-80°)	1613.3	16.2	B3/2500		G1/1800
BVH	(80°-90°)	110.8	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°	47.5°
0°	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7
2.5°	991.0	991.0	991.0	991.0	991.0	991.0	991.0	991.0	991.0	991.0	991.0
5°	1003.9	1003.9	1003.9	1006.0	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9
7.5°	1025.3	1025.3	1025.3	1025.3	1025.3	1025.3	1023.2	1023.2	1025.3	1023.2	1025.3
10°	1055.3	1053.2	1053.2	1055.3	1055.3	1053.2	1055.3	1055.3	1055.3	1055.3	1057.5
12.5°	1093.9	1093.9	1096.1	1096.1	1096.1	1098.2	1098.2	1096.1	1098.2	1098.2	1098.2
15°	1145.4	1145.4	1145.4	1145.4	1147.6	1149.7	1147.6	1147.6	1145.4	1145.4	1149.7
17.5°	1205.5	1205.5	1205.5	1205.5	1209.8	1209.8	1207.6	1209.8	1211.9	1211.9	1209.8
20°	1278.4	1276.3	1274.1	1276.3	1280.6	1280.6	1282.7	1284.8	1284.8	1284.8	1289.1
22.5°	1355.6	1353.5	1357.8	1359.9	1362.1	1364.2	1364.2	1366.4	1370.6	1368.5	1374.9
25°	1441.4	1439.3	1441.4	1445.7	1454.3	1454.3	1456.4	1460.7	1460.7	1458.6	1473.6
27.5°	1538.0	1538.0	1540.1	1548.7	1550.8	1553.0	1559.4	1563.7	1570.1	1570.1	1583.0
30°	1643.1	1640.9	1645.2	1653.8	1660.2	1666.7	1675.2	1686.0	1688.1	1690.2	1703.1
32.5°	1750.3	1750.3	1754.6	1769.6	1780.3	1791.1	1803.9	1814.7	1818.9	1818.9	1838.2
35°	1864.0	1866.1	1876.9	1887.6	1909.0	1921.9	1934.8	1949.8	1958.4	1962.7	1988.4
37.5°	1984.1	1990.5	1999.1	2014.1	2035.6	2057.0	2076.3	2099.9	2112.8	2117.1	2145.0
40°	2097.8	2106.4	2119.2	2140.7	2162.1	2192.2	2215.8	2239.4	2254.4	2263.0	2305.9
42.5°	2209.3	2213.6	2228.6	2252.2	2280.1	2308.0	2340.2	2365.9	2380.9	2393.8	2441.0
45°	2297.3	2301.6	2320.9	2348.8	2380.9	2415.2	2447.4	2477.5	2492.5	2503.2	2550.4
47.5°	2370.2	2378.8	2400.2	2428.1	2460.3	2501.0	2537.5	2567.5	2586.8	2593.3	2642.6
50°	2423.8	2436.7	2456.0	2488.2	2526.8	2567.5	2606.2	2638.3	2659.8	2668.4	2713.4
52.5°	2453.9	2464.6	2486.0	2518.2	2563.3	2604.0	2644.8	2676.9	2700.5	2709.1	2749.9
54°	2458.1	2464.6	2488.2	2522.5	2567.5	2610.4	2651.2	2683.4	2707.0	2715.5	2758.4
55°	2453.9	2458.1	2483.9	2516.1	2563.3	2606.2	2646.9	2679.1	2704.8	2713.4	2754.2
57.5°	2411.0	2417.4	2438.8	2473.2	2516.1	2565.4	2604.0	2636.2	2661.9	2666.2	2704.8
60°	2323.0	2331.6	2350.9	2387.4	2430.3	2473.2	2511.8	2539.7	2563.3	2576.1	2604.0
62.5°	2196.5	2200.8	2220.1	2252.2	2290.8	2335.9	2365.9	2393.8	2415.2	2428.1	2451.7
65°	2016.3	2035.6	2050.6	2076.3	2106.4	2142.8	2181.4	2202.9	2213.6	2235.1	2252.2
67.5°	1814.7	1827.5	1842.5	1866.1	1885.4	1909.0	1945.5	1964.8	1977.7	1992.7	2007.7
70°	1589.4	1585.1	1602.3	1615.2	1636.6	1651.6	1675.2	1686.0	1701.0	1709.6	1735.3
72.5°	1321.3	1327.7	1342.8	1357.8	1364.2	1368.5	1387.8	1394.2	1407.1	1402.8	1435.0
75°	1078.9	1068.2	1072.5	1074.6	1078.9	1074.6	1087.5	1093.9	1100.4	1093.9	1111.1
77.5°	815.1	802.2	806.5	804.4	804.4	800.1	797.9	797.9	800.1	795.8	806.5
80°	562.0	555.6	557.7	562.0	551.3	553.4	540.5	540.5	540.5	540.5	544.8
82.5°	347.5	338.9	336.8	338.9	338.9	332.5	334.6	326.0	323.9	321.7	341.1
85°	169.5	165.2	169.5	165.2	163.0	163.0	158.7	160.9	156.6	154.4	167.3
87.5°	45.0	42.9	42.9	42.9	40.8	42.9	42.9	42.9	42.9	45.0	51.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7
2.5°	991.0	991.0	991.0	991.0	991.0	991.0	991.0	991.0	988.8
5°	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9
7.5°	1025.3	1025.3	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2	1023.2
10°	1055.3	1057.5	1053.2	1053.2	1055.3	1053.2	1053.2	1051.0	1051.0
12.5°	1098.2	1096.1	1098.2	1098.2	1096.1	1093.9	1091.8	1089.7	1091.8
15°	1147.6	1145.4	1145.4	1145.4	1143.3	1143.3	1141.1	1143.3	1141.1
17.5°	1207.6	1207.6	1209.8	1203.3	1205.5	1201.2	1201.2	1201.2	1199.0
20°	1284.8	1282.7	1280.6	1274.1	1276.3	1272.0	1269.8	1267.7	1265.5
22.5°	1368.5	1364.2	1362.1	1355.6	1357.8	1353.5	1347.0	1342.8	1342.8
25°	1460.7	1456.4	1452.2	1450.0	1447.9	1439.3	1435.0	1428.6	1432.8
27.5°	1570.1	1561.5	1555.1	1546.5	1548.7	1538.0	1533.7	1529.4	1529.4
30°	1688.1	1681.7	1670.9	1664.5	1662.4	1651.6	1643.1	1638.8	1636.6
32.5°	1816.8	1812.5	1806.1	1795.3	1791.1	1773.9	1767.5	1761.0	1758.9
35°	1969.1	1958.4	1951.9	1936.9	1921.9	1911.2	1896.2	1891.9	1887.6
37.5°	2110.7	2110.7	2099.9	2082.8	2061.3	2046.3	2033.4	2024.9	2018.4
40°	2260.8	2256.5	2239.4	2224.3	2202.9	2181.4	2157.9	2149.3	2145.0
42.5°	2393.8	2385.2	2368.1	2348.8	2327.3	2301.6	2275.8	2263.0	2260.8
45°	2505.3	2494.6	2477.5	2451.7	2423.8	2398.1	2374.5	2361.6	2355.2
47.5°	2595.4	2582.6	2561.1	2537.5	2505.3	2475.3	2451.7	2438.8	2430.3
50°	2661.9	2651.2	2627.6	2597.6	2565.4	2531.1	2507.5	2492.5	2486.0
52.5°	2704.8	2689.8	2664.1	2631.9	2595.4	2561.1	2533.2	2516.1	2509.6
54°	2713.4	2696.2	2668.4	2634.0	2595.4	2559.0	2533.2	2513.9	2507.5
55°	2709.1	2692.0	2661.9	2629.7	2589.0	2552.5	2524.6	2505.3	2498.9
57.5°	2664.1	2644.8	2616.9	2582.6	2539.7	2503.2	2477.5	2456.0	2449.6
60°	2567.5	2550.4	2518.2	2488.2	2445.3	2408.8	2380.9	2359.5	2353.0
62.5°	2419.5	2404.5	2376.6	2346.6	2301.6	2269.4	2241.5	2228.6	2211.5
65°	2222.2	2211.5	2183.6	2147.1	2115.0	2082.8	2054.9	2046.3	2035.6
67.5°	1986.3	1971.2	1960.5	1924.0	1898.3	1868.3	1840.4	1823.2	1818.9
70°	1707.4	1701.0	1690.2	1655.9	1640.9	1615.2	1595.9	1580.9	1576.6
72.5°	1407.1	1400.7	1398.5	1381.4	1362.1	1338.5	1329.9	1317.0	1314.9
75°	1093.9	1089.7	1093.9	1081.1	1074.6	1068.2	1063.9	1063.9	1057.5
77.5°	791.5	797.9	800.1	800.1	804.4	804.4	808.7	802.2	795.8
80°	538.4	544.8	542.7	547.0	544.8	559.8	549.1	557.7	549.1
82.5°	323.9	332.5	332.5	332.5	341.1	338.9	338.9	343.2	341.1
85°	158.7	160.9	158.7	156.6	167.3	165.2	165.2	163.0	165.2
87.5°	47.2	42.9	45.0	40.8	45.0	38.6	42.9	42.9	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)