

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: P197748

Luminaire Tested: **TT-C6-LED-E1-WQ-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10184.2 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



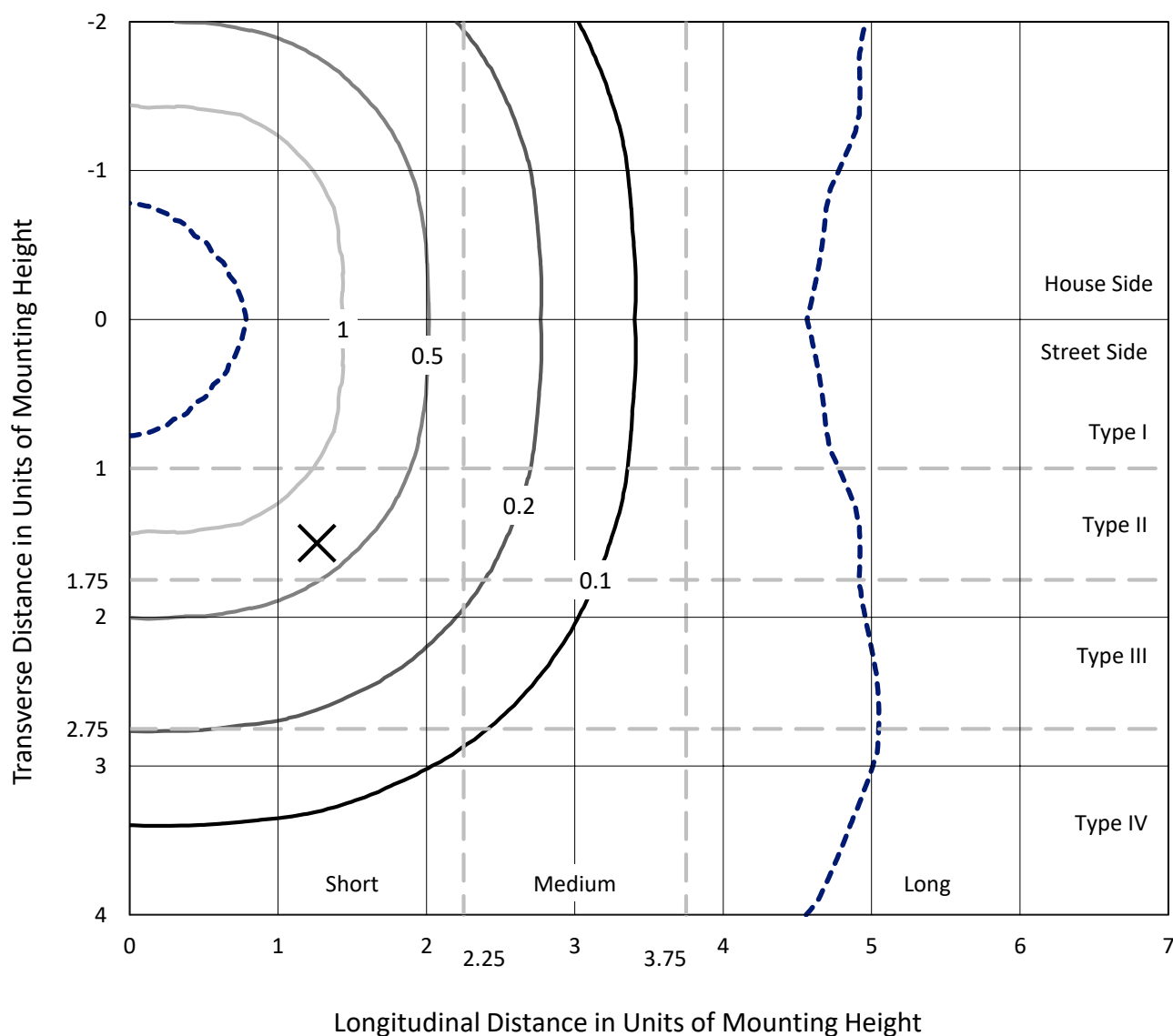
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

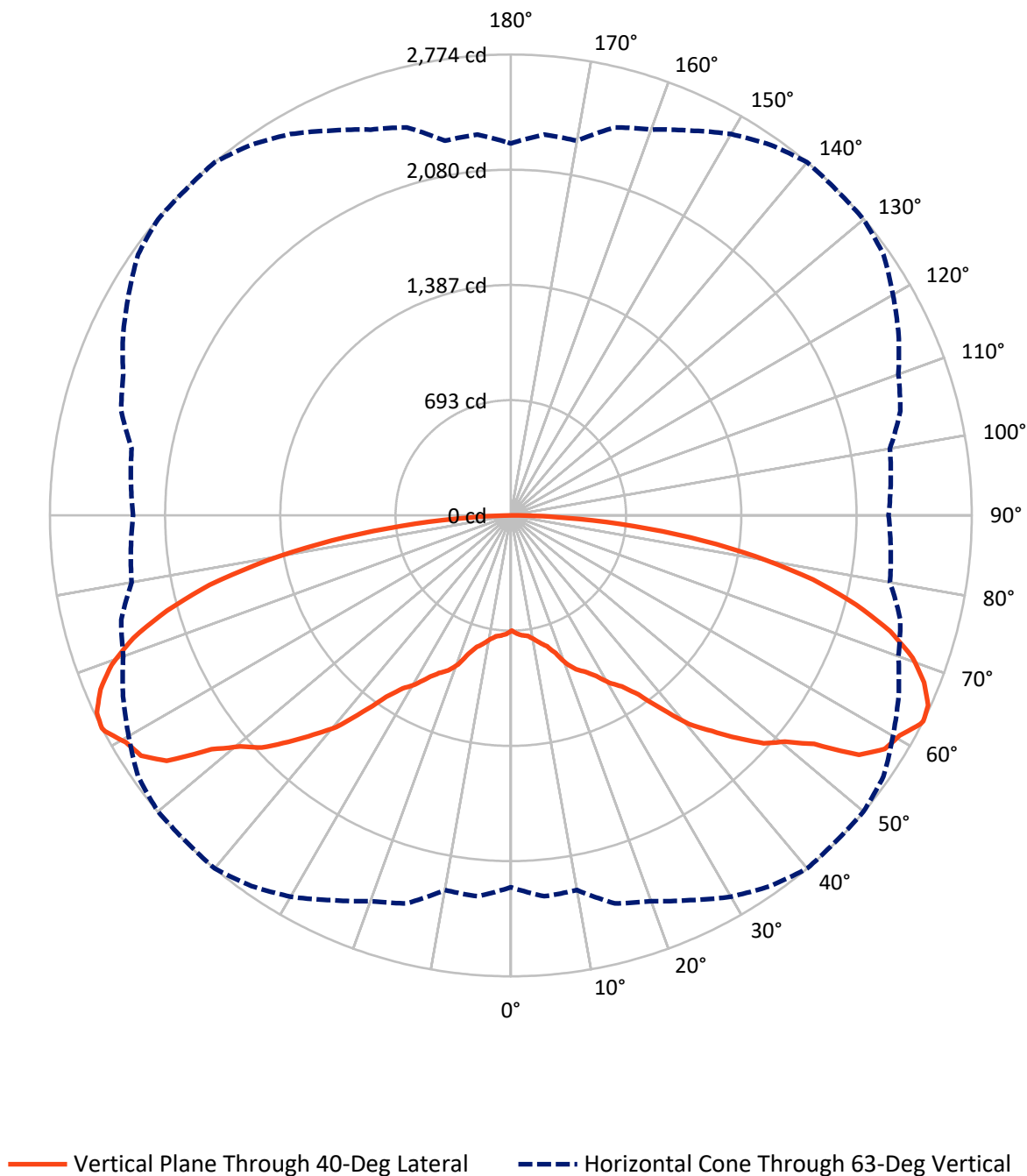


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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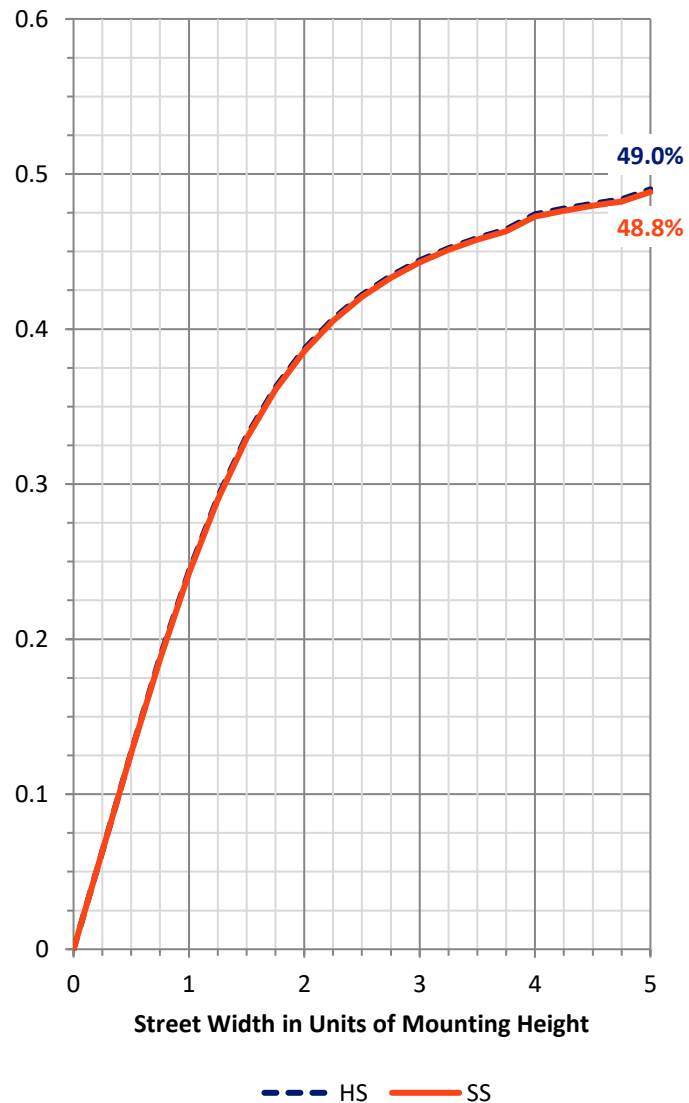
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5092.1	0.0	5092.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5092.1	0.0	5092.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10184.2	0.0	10184.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	0.7
10°-20°	237.9	2.3
20°-30°	483.7	4.7
30°-40°	833.7	8.2
40°-50°	1404.3	13.8
50°-60°	2067.9	20.3
60°-70°	2459.1	24.1
70°-80°	1990.7	19.5
80°-90°	636.9	6.3
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°	10184.2	100.0
0°-180°	10184.2	100.0

Coefficient of Utilization



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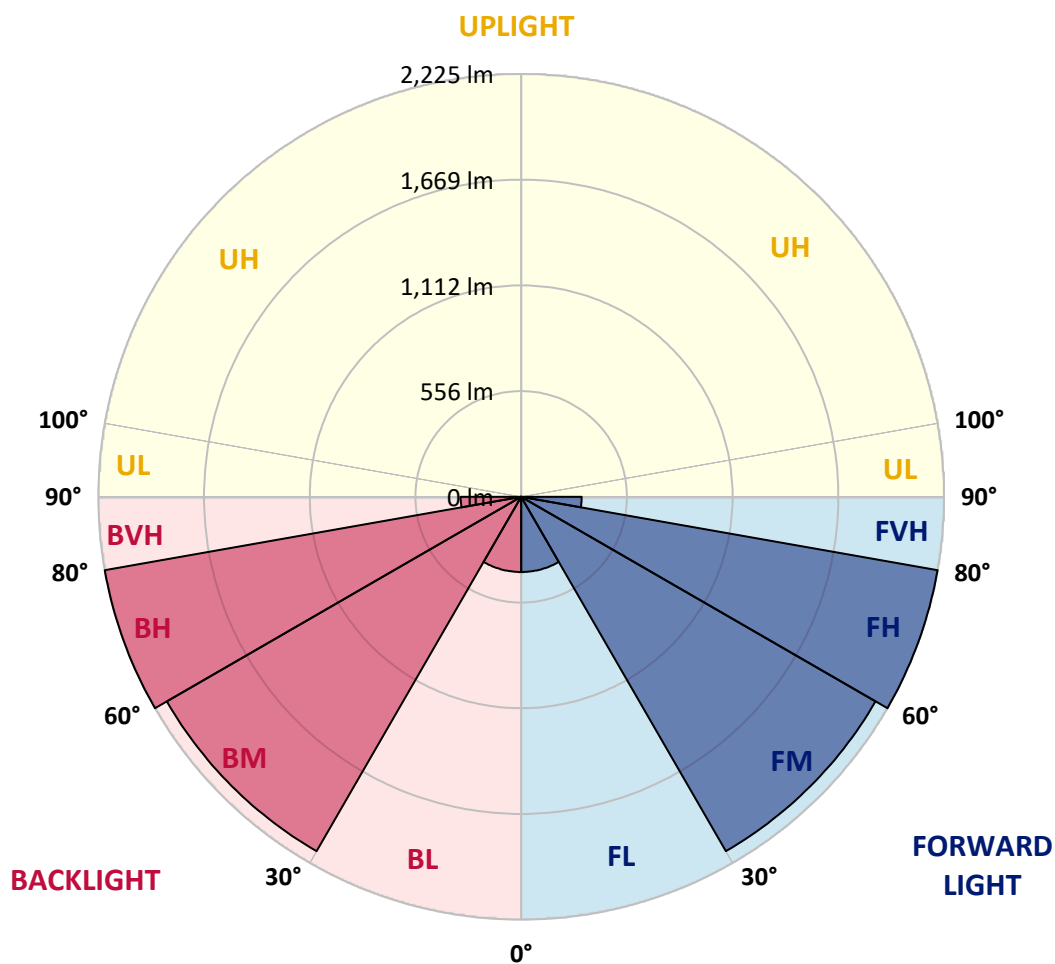
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.8	3.9			
FM	(30°-60°)	2153.0	21.1			
FH	(60°-80°)	2224.9	21.8			G2/5000
FVH	(80°-90°)	318.5	3.1			G3/500
BL	(0°-30°)	395.8	3.9	B1/500		
BM	(30°-60°)	2153.0	21.1	B2/2500		
BH	(60°-80°)	2224.9	21.8	B3/2500		G2/5000
BVH	(80°-90°)	318.5	3.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	715.1	715.1	715.1	715.1	715.1	715.1	713.0	715.1	713.0	713.0	713.0
5°	729.0	729.0	729.0	729.0	726.8	726.8	724.9	724.9	724.9	722.9	724.9
7.5°	734.8	734.8	734.8	734.8	732.8	732.8	732.8	732.8	732.8	732.8	732.8
10°	748.6	748.6	750.5	752.5	756.3	756.3	756.3	758.5	756.3	756.3	756.3
12.5°	778.1	776.2	780.1	783.9	788.0	790.0	790.0	790.0	788.0	788.0	790.0
15°	819.5	815.4	817.6	819.5	821.5	823.4	823.4	821.5	817.6	817.6	817.6
17.5°	872.6	866.8	864.8	862.9	862.9	866.8	870.6	868.7	870.6	868.7	870.6
20°	935.8	931.7	931.7	931.7	933.6	941.6	949.6	953.5	951.5	947.4	953.5
22.5°	977.0	979.1	988.8	986.9	984.9	992.9	1002.6	1010.6	1006.5	1000.7	1004.6
25°	1022.5	1022.5	1036.1	1042.1	1036.1	1036.1	1040.2	1046.0	1042.1	1038.2	1042.1
27.5°	1073.6	1073.6	1079.4	1085.4	1081.6	1081.6	1087.4	1097.3	1095.2	1093.2	1095.2
30°	1134.6	1126.9	1120.8	1130.7	1140.7	1142.6	1148.4	1164.2	1168.0	1166.1	1170.2
32.5°	1191.8	1179.9	1184.0	1189.8	1211.4	1219.4	1217.4	1229.3	1227.1	1221.3	1229.3
35°	1247.0	1260.8	1268.5	1280.4	1288.4	1298.1	1298.1	1319.9	1323.8	1317.9	1323.8
37.5°	1353.3	1359.1	1380.9	1382.9	1392.8	1430.1	1434.2	1463.7	1479.5	1471.5	1473.4
40°	1499.1	1497.2	1512.9	1536.4	1556.2	1603.5	1617.3	1636.9	1650.7	1644.9	1652.6
42.5°	1617.3	1601.5	1613.4	1664.5	1686.3	1721.7	1739.3	1749.3	1774.9	1767.0	1776.9
45°	1702.0	1707.9	1723.6	1774.9	1788.7	1818.3	1859.5	1877.4	1910.8	1900.9	1906.9
47.5°	1784.6	1812.2	1826.0	1849.8	1893.1	1932.4	1983.7	2001.4	2048.6	2044.7	2038.9
50°	1893.1	1914.7	1930.4	1948.1	2007.4	2072.3	2115.7	2123.4	2139.2	2127.5	2147.2
52.5°	2009.4	2007.4	2021.0	2070.4	2153.0	2178.7	2216.2	2251.6	2285.0	2296.8	2285.0
55°	2162.9	2113.7	2170.9	2241.6	2277.2	2338.3	2428.8	2478.2	2543.1	2553.1	2533.2
57.5°	2225.9	2225.9	2285.0	2326.4	2391.5	2499.8	2596.4	2619.9	2653.3	2635.7	2655.5
60°	2218.1	2293.0	2293.0	2365.9	2472.2	2568.8	2604.2	2643.6	2688.9	2687.0	2687.0
62.5°	2228.0	2300.7	2281.1	2407.3	2472.2	2550.9	2629.8	2702.7	2765.7	2763.8	2761.8
63°	2237.8	2300.7	2289.1	2417.0	2470.2	2555.0	2649.5	2722.4	2773.7	2769.6	2771.5
65°	2267.3	2249.6	2320.6	2401.2	2462.3	2588.4	2667.1	2724.3	2759.9	2757.9	2757.9
67.5°	2212.1	2170.9	2271.2	2302.9	2419.1	2531.3	2592.3	2657.4	2682.9	2682.9	2679.0
70°	2042.8	2060.5	2129.5	2180.6	2298.8	2399.3	2450.6	2533.2	2564.7	2564.7	2562.8
72.5°	1871.3	1900.9	1948.1	2021.0	2133.4	2212.1	2273.3	2348.2	2389.4	2387.4	2387.4
75°	1652.6	1680.3	1735.5	1804.5	1902.8	1979.8	2029.0	2099.9	2147.2	2164.9	2145.2
77.5°	1406.6	1414.3	1465.7	1536.4	1623.1	1676.4	1751.2	1820.2	1859.5	1857.5	1851.7
80°	1107.0	1116.9	1160.3	1240.9	1288.4	1351.4	1420.4	1457.7	1491.1	1491.1	1487.2
82.5°	764.3	785.9	829.2	882.5	931.7	986.9	1024.4	1061.7	1089.3	1087.4	1081.6
85°	431.3	441.3	482.7	516.1	553.6	589.0	614.6	638.2	661.9	661.9	658.0
87.5°	130.0	116.2	140.0	153.6	173.4	191.1	202.9	226.4	242.2	224.5	224.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	715.1	715.1	715.1	715.1	715.1	715.1	715.1	715.1
5°	724.9	726.8	726.8	729.0	729.0	729.0	729.0	729.0
7.5°	732.8	732.8	732.8	732.8	734.8	734.8	734.8	734.8
10°	756.3	758.5	756.3	756.3	752.5	750.5	750.5	750.5
12.5°	790.0	791.9	791.9	788.0	783.9	780.1	778.1	776.2
15°	821.5	827.3	823.4	821.5	817.6	819.5	819.5	821.5
17.5°	870.6	872.6	866.8	862.9	860.9	864.8	868.7	870.6
20°	955.4	951.5	939.7	935.8	931.7	931.7	935.8	935.8
22.5°	1008.7	998.7	990.8	986.9	986.9	986.9	981.1	973.1
25°	1046.0	1040.2	1034.1	1038.2	1042.1	1036.1	1022.5	1020.3
27.5°	1097.3	1085.4	1083.5	1081.6	1083.5	1079.4	1077.5	1069.7
30°	1164.2	1148.4	1144.5	1140.7	1128.8	1124.7	1128.8	1134.6
32.5°	1227.1	1217.4	1221.3	1213.6	1191.8	1184.0	1187.9	1185.9
35°	1317.9	1300.0	1300.0	1284.3	1278.5	1276.5	1260.8	1247.0
37.5°	1461.6	1438.1	1432.0	1396.7	1380.9	1384.8	1363.2	1347.5
40°	1636.9	1619.2	1603.5	1564.0	1542.4	1514.8	1501.0	1501.0
42.5°	1753.1	1741.3	1719.7	1692.1	1668.4	1621.2	1603.5	1613.4
45°	1881.3	1865.5	1820.2	1792.6	1770.8	1737.4	1717.8	1697.9
47.5°	2011.3	1989.5	1936.5	1900.9	1849.8	1839.8	1818.3	1790.7
50°	2125.6	2117.6	2080.1	2021.0	1956.1	1940.3	1920.7	1895.1
52.5°	2265.4	2218.1	2186.6	2161.0	2088.1	2037.0	2009.4	2021.0
55°	2494.0	2434.9	2354.0	2273.3	2257.6	2196.3	2127.5	2164.9
57.5°	2625.9	2592.3	2531.3	2403.2	2340.2	2298.8	2253.5	2220.1
60°	2657.4	2596.4	2582.6	2486.0	2385.5	2298.8	2316.7	2237.8
62.5°	2718.5	2635.7	2558.9	2482.1	2421.1	2302.9	2298.8	2257.6
63°	2738.1	2655.5	2574.6	2482.1	2426.9	2316.7	2294.9	2273.3
65°	2734.2	2663.3	2602.2	2482.1	2399.3	2355.9	2249.6	2298.8
67.5°	2659.4	2600.3	2529.3	2446.5	2308.7	2275.3	2200.4	2210.1
70°	2539.3	2462.3	2395.4	2318.6	2208.2	2131.4	2086.1	2048.6
72.5°	2352.1	2283.0	2212.1	2141.3	2042.8	1950.3	1918.6	1877.4
75°	2103.8	2037.0	1971.8	1905.0	1812.2	1729.6	1696.0	1666.5
77.5°	1820.2	1763.1	1670.5	1607.4	1554.3	1465.7	1434.2	1402.5
80°	1451.9	1424.3	1357.2	1274.6	1247.0	1160.3	1136.6	1095.2
82.5°	1055.9	1028.3	975.0	917.9	884.4	839.2	799.7	772.3
85°	644.2	614.6	587.0	535.7	516.1	482.7	451.2	435.4
87.5°	232.5	208.8	187.2	163.5	151.6	128.1	124.0	112.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)