

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: P197818

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
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-CG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR 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: 9911.3 lumens
Efficiency: N/A
Efficacy: 91.8 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

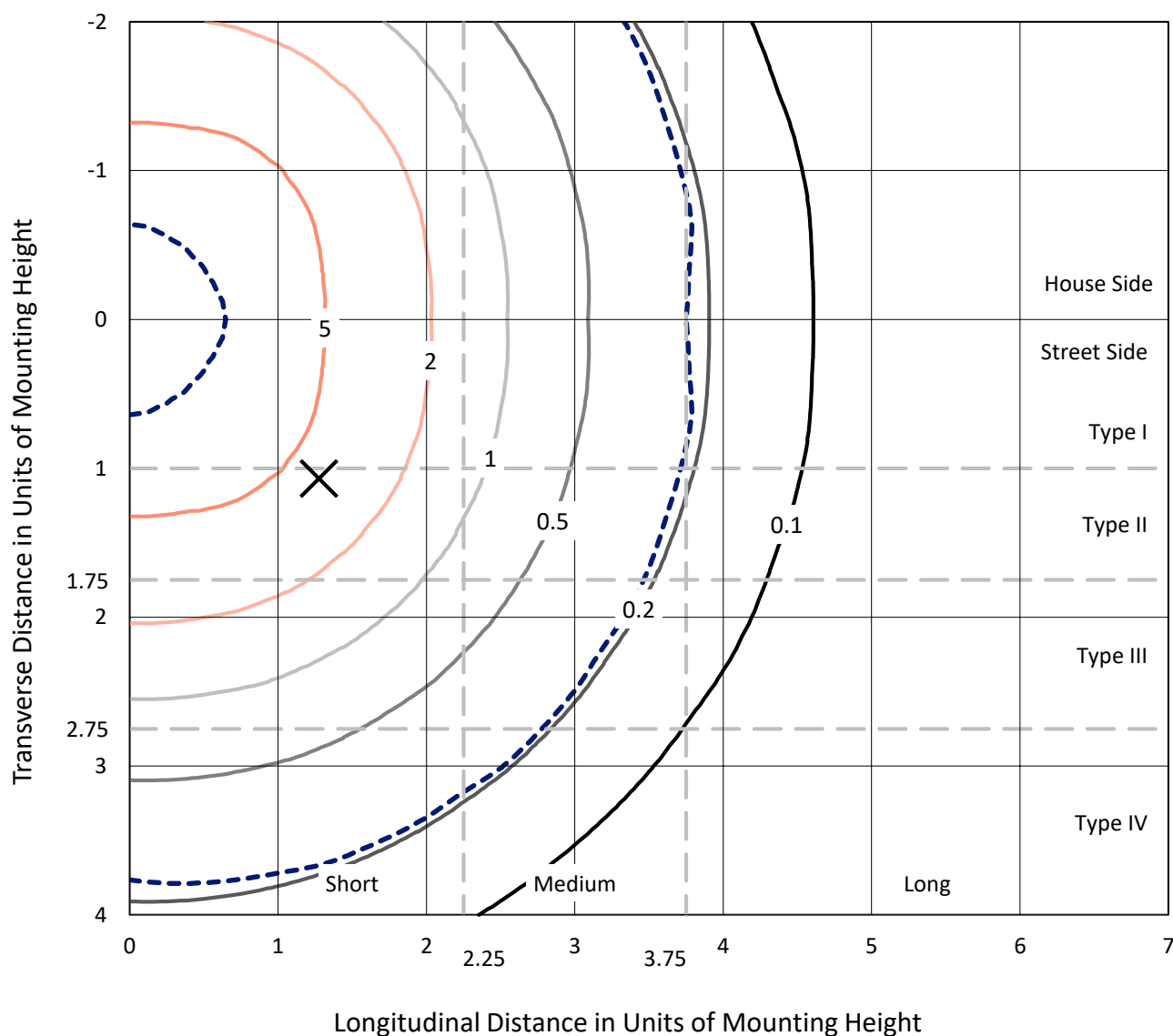


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

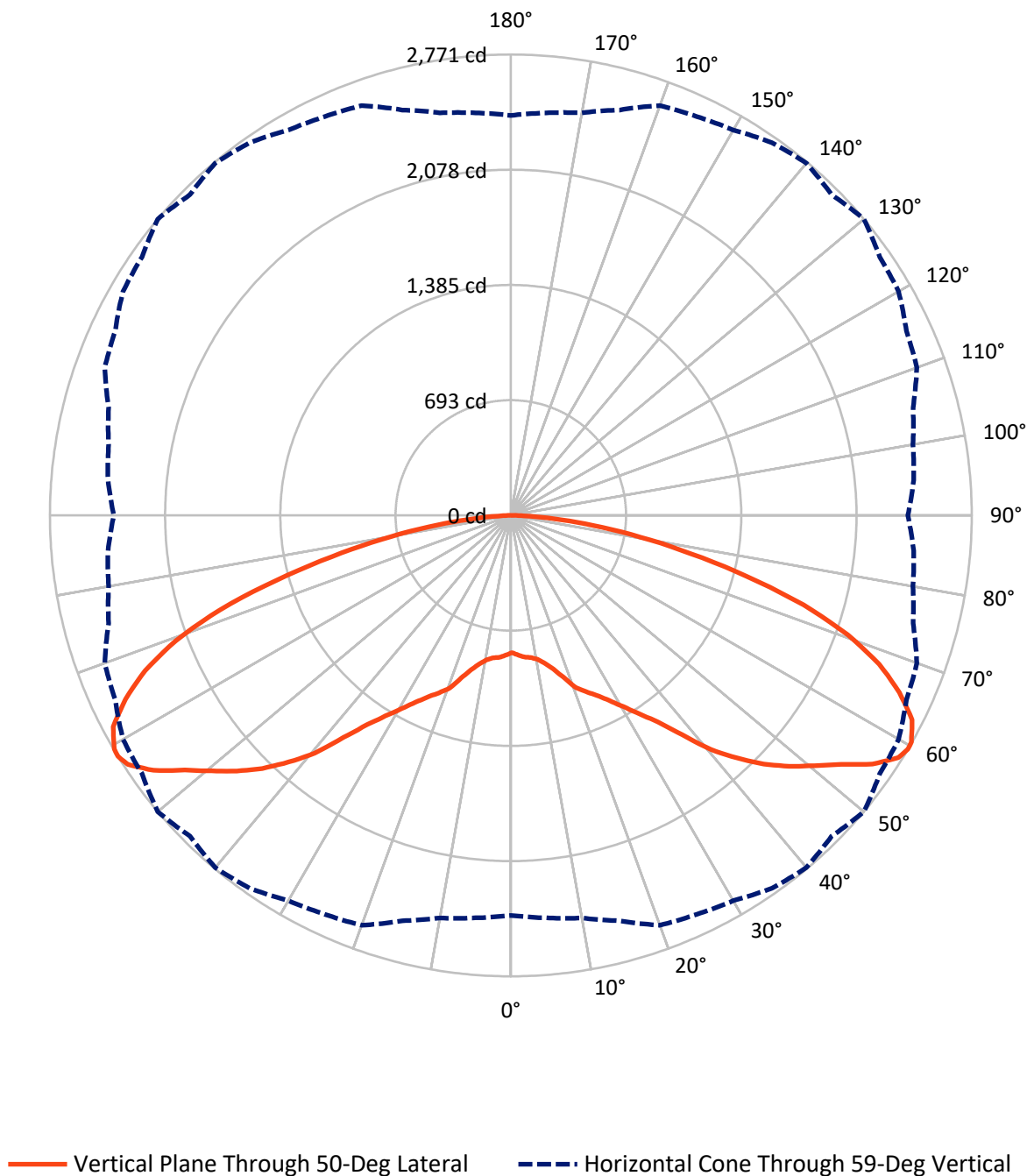


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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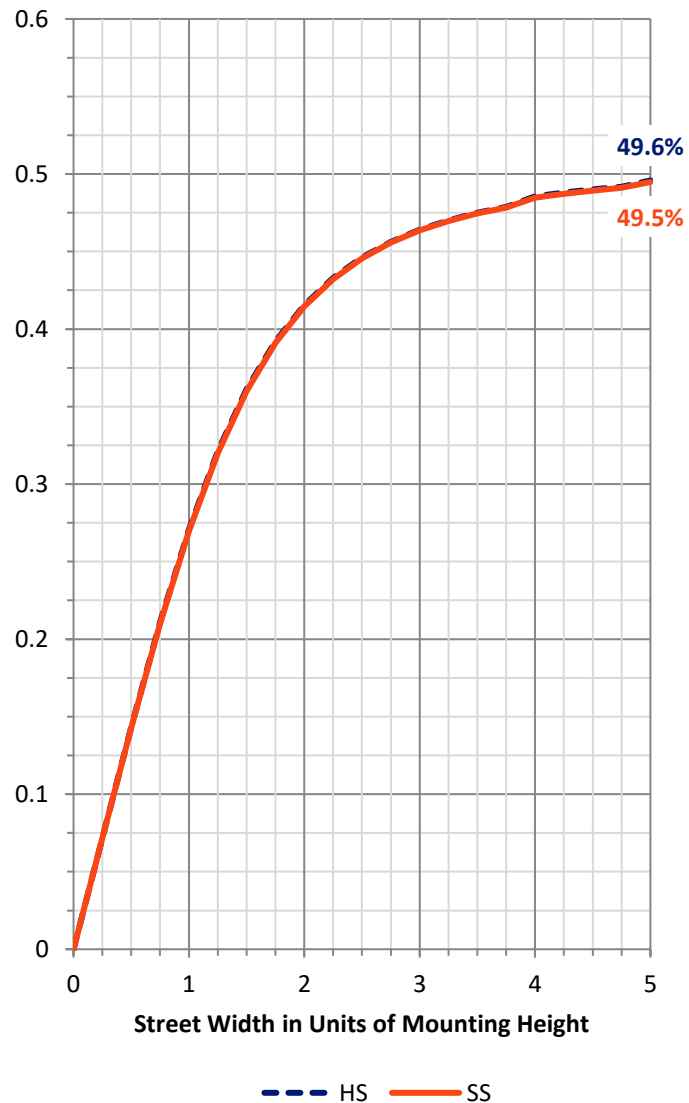
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4955.7	0.0	4955.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4955.7	0.0	4955.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9911.3	0.0	9911.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	0.8
10°-20°	276.8	2.8
20°-30°	557.1	5.6
30°-40°	958.6	9.7
40°-50°	1582.6	16.0
50°-60°	2228.5	22.5
60°-70°	2384.1	24.1
70°-80°	1514.3	15.3
80°-90°	327.3	3.3
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°	9911.3	100.0
0°-180°	9911.3	100.0

Coefficient of Utilization



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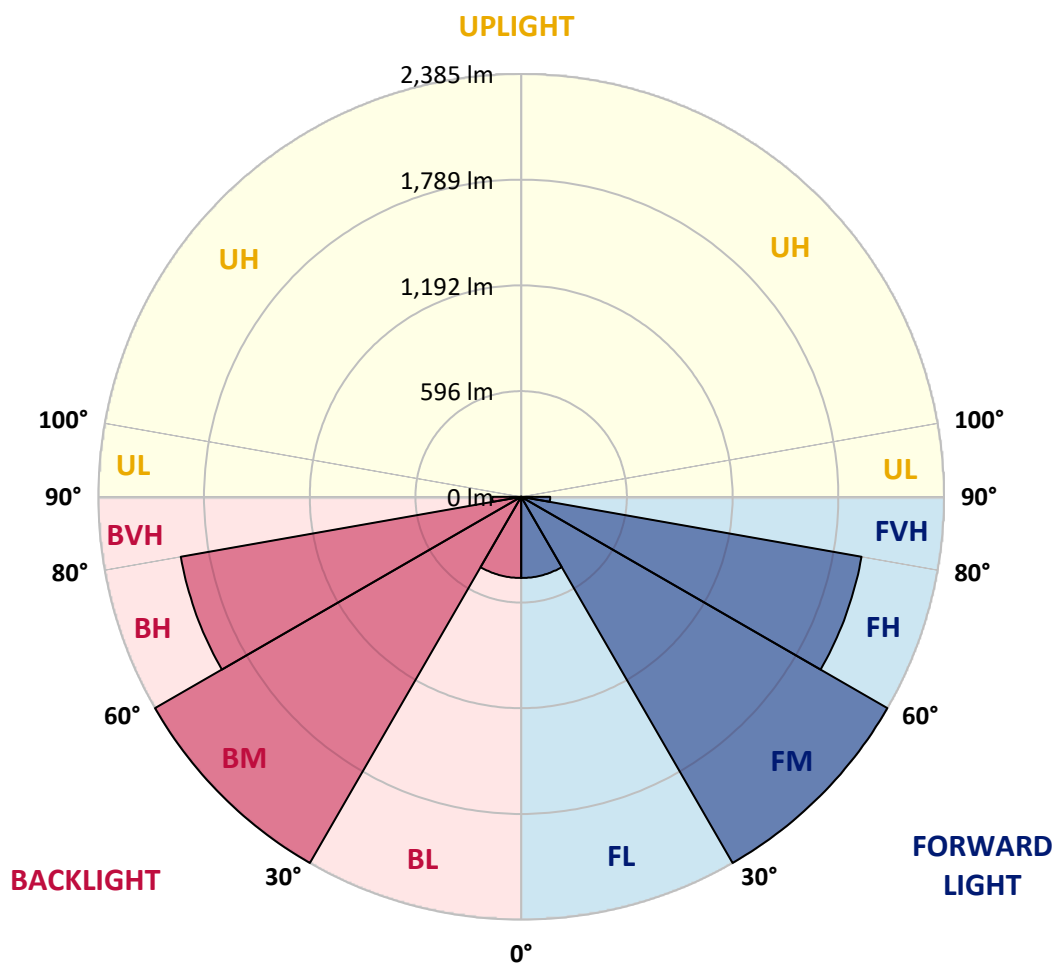
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.9	4.6			
FM	(30°-60°)	2384.9	24.1			
FH	(60°-80°)	1949.2	19.7			G2/5000
FVH	(80°-90°)	163.6	1.7			G2/225
BL	(0°-30°)	457.9	4.6	B1/500		
BM	(30°-60°)	2384.9	24.1	B2/2500		
BH	(60°-80°)	1949.2	19.7	B3/2500		G2/5000
BVH	(80°-90°)	163.6	1.7			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°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9
2.5°	842.4	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2
5°	846.8	846.8	849.0	849.0	851.2	851.2	851.2	853.4	853.4	853.4	855.6
7.5°	855.6	853.4	855.6	855.6	855.6	857.8	857.8	857.8	860.0	862.2	862.2
10°	884.1	881.9	884.1	884.1	884.1	879.7	879.7	881.9	879.7	879.7	879.7
12.5°	917.0	917.0	919.2	921.4	921.4	919.2	917.0	914.8	912.6	912.6	912.6
15°	947.7	949.9	952.1	956.5	958.7	958.7	960.9	963.1	960.9	960.9	958.7
17.5°	996.0	1000.4	1002.6	1004.8	1004.8	1004.8	1009.2	1015.7	1022.3	1026.7	1022.3
20°	1077.2	1079.4	1083.7	1083.7	1081.6	1083.7	1088.1	1090.3	1094.7	1099.1	1101.3
22.5°	1132.0	1136.4	1143.0	1143.0	1140.8	1143.0	1147.4	1147.4	1143.0	1145.2	1149.6
25°	1178.1	1180.3	1184.7	1186.9	1189.1	1200.0	1208.8	1206.6	1197.8	1200.0	1197.8
27.5°	1232.9	1237.3	1241.7	1241.7	1241.7	1248.3	1257.1	1261.4	1268.0	1265.8	1259.3
30°	1305.3	1311.9	1314.1	1311.9	1316.3	1322.9	1320.7	1325.1	1336.0	1347.0	1333.8
32.5°	1362.4	1368.9	1375.5	1384.3	1399.7	1408.4	1404.0	1406.2	1412.8	1421.6	1421.6
35°	1447.9	1458.9	1463.3	1465.5	1480.8	1498.4	1511.5	1522.5	1520.3	1513.7	1524.7
37.5°	1577.4	1588.3	1592.7	1601.5	1621.2	1625.6	1645.4	1671.7	1680.5	1671.7	1671.7
40°	1715.6	1726.5	1748.5	1768.2	1798.9	1805.5	1829.6	1840.6	1862.6	1864.7	1851.6
42.5°	1829.6	1842.8	1847.2	1880.1	1921.8	1952.5	1978.8	1981.0	1996.4	2009.5	1994.2
45°	1952.5	1963.5	1970.1	2000.8	2022.7	2060.0	2101.7	2119.2	2125.8	2123.6	2132.4
47.5°	2066.6	2081.9	2088.5	2112.7	2139.0	2169.7	2193.8	2244.3	2255.3	2233.3	2253.1
50°	2136.8	2154.3	2169.7	2222.3	2268.4	2292.5	2312.3	2354.0	2378.1	2358.4	2364.9
52.5°	2246.5	2250.9	2264.0	2286.0	2354.0	2435.1	2457.1	2470.2	2505.3	2516.3	2485.6
55°	2395.7	2411.0	2422.0	2450.5	2479.0	2536.1	2632.6	2650.1	2641.4	2694.0	2639.2
57.5°	2417.6	2446.1	2479.0	2542.6	2599.7	2617.2	2674.3	2742.3	2735.7	2742.3	2746.7
59°	2404.4	2428.6	2457.1	2522.9	2621.6	2645.8	2674.3	2735.7	2764.2	2726.9	2770.8
60°	2408.8	2426.4	2441.7	2494.4	2599.7	2654.5	2672.1	2709.4	2764.2	2713.8	2766.4
62.5°	2391.3	2413.2	2430.8	2461.5	2511.9	2588.7	2656.7	2639.2	2718.1	2678.7	2707.2
65°	2296.9	2321.1	2356.2	2400.0	2459.3	2481.2	2549.2	2586.5	2569.0	2612.8	2566.8
67.5°	2139.0	2160.9	2182.9	2235.5	2301.3	2329.8	2347.4	2415.4	2391.3	2441.7	2389.1
70°	1928.4	1952.5	1983.2	2011.7	2071.0	2095.1	2114.8	2145.6	2154.3	2154.3	2149.9
72.5°	1676.1	1695.8	1715.6	1744.1	1779.2	1801.1	1809.9	1816.5	1851.6	1838.4	1840.6
75°	1390.9	1410.6	1419.4	1430.4	1454.5	1452.3	1461.1	1456.7	1478.6	1469.9	1465.5
77.5°	1088.1	1094.7	1118.8	1118.8	1112.3	1123.2	1112.3	1105.7	1101.3	1105.7	1105.7
80°	754.7	774.4	789.8	800.7	805.1	800.7	802.9	794.2	794.2	787.6	789.8
82.5°	465.1	484.8	491.4	502.4	504.6	504.6	504.6	498.0	500.2	493.6	498.0
85°	228.2	228.2	236.9	247.9	250.1	254.5	254.5	254.5	254.5	254.5	256.7
87.5°	57.0	57.0	61.4	68.0	68.0	70.2	72.4	74.6	74.6	76.8	76.8
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°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9
2.5°	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2
5°	855.6	853.4	853.4	851.2	851.2	849.0	849.0	849.0
7.5°	864.4	864.4	862.2	860.0	857.8	857.8	860.0	860.0
10°	881.9	886.3	888.5	888.5	886.3	886.3	884.1	884.1
12.5°	910.4	914.8	919.2	923.6	923.6	921.4	917.0	914.8
15°	954.3	954.3	956.5	958.7	958.7	954.3	945.5	945.5
17.5°	1013.5	1009.2	1002.6	1004.8	1007.0	1004.8	996.0	1000.4
20°	1094.7	1085.9	1081.6	1077.2	1085.9	1085.9	1072.8	1072.8
22.5°	1154.0	1147.4	1136.4	1134.2	1140.8	1145.2	1134.2	1127.6
25°	1204.4	1206.6	1193.4	1186.9	1189.1	1191.2	1175.9	1178.1
27.5°	1259.3	1261.4	1254.9	1243.9	1239.5	1246.1	1235.1	1230.7
30°	1325.1	1322.9	1327.3	1314.1	1303.1	1309.7	1309.7	1298.7
32.5°	1410.6	1404.0	1406.2	1390.9	1377.7	1375.5	1366.8	1353.6
35°	1526.9	1509.4	1496.2	1487.4	1463.3	1458.9	1458.9	1443.5
37.5°	1678.3	1651.9	1627.8	1627.8	1590.5	1579.6	1586.1	1566.4
40°	1847.2	1838.4	1801.1	1794.5	1755.1	1728.7	1728.7	1704.6
42.5°	1970.1	1981.0	1937.1	1910.8	1884.5	1842.8	1847.2	1816.5
45°	2103.9	2097.3	2060.0	2013.9	2005.2	1961.3	1965.7	1935.0
47.5°	2231.1	2191.6	2174.1	2128.0	2108.3	2057.8	2073.2	2049.0
50°	2354.0	2310.1	2292.5	2237.7	2211.4	2156.5	2158.7	2114.8
52.5°	2481.2	2441.7	2415.4	2345.2	2299.1	2259.6	2250.9	2231.1
55°	2645.8	2604.1	2540.4	2474.6	2439.5	2382.5	2389.1	2358.4
57.5°	2709.4	2683.0	2615.0	2575.5	2509.7	2452.7	2439.5	2384.7
59°	2707.2	2691.8	2623.8	2597.5	2503.2	2454.9	2430.8	2386.9
60°	2691.8	2687.4	2619.4	2586.5	2487.8	2443.9	2422.0	2393.5
62.5°	2645.8	2643.6	2566.8	2527.3	2446.1	2411.0	2397.8	2360.6
65°	2577.7	2540.4	2481.2	2454.9	2371.5	2345.2	2307.9	2270.6
67.5°	2415.4	2332.0	2323.3	2290.4	2218.0	2185.0	2160.9	2125.8
70°	2147.8	2092.9	2092.9	2051.2	2000.8	1985.4	1952.5	1913.0
72.5°	1814.3	1801.1	1807.7	1759.4	1735.3	1726.5	1698.0	1662.9
75°	1450.1	1452.3	1445.7	1434.8	1428.2	1430.4	1399.7	1384.3
77.5°	1099.1	1118.8	1114.5	1099.1	1114.5	1112.3	1085.9	1079.4
80°	783.2	792.0	796.4	787.6	796.4	789.8	767.8	765.6
82.5°	493.6	495.8	500.2	491.4	493.6	491.4	476.1	476.1
85°	252.3	261.1	250.1	241.3	241.3	232.5	228.2	230.4
87.5°	74.6	79.0	70.2	70.2	65.8	61.4	59.2	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)