

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: P197819

Luminaire Tested: **TT-C6-LED-E1-WQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197819
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9817.6 lumens
Efficiency: N/A
Efficacy: 90.9 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



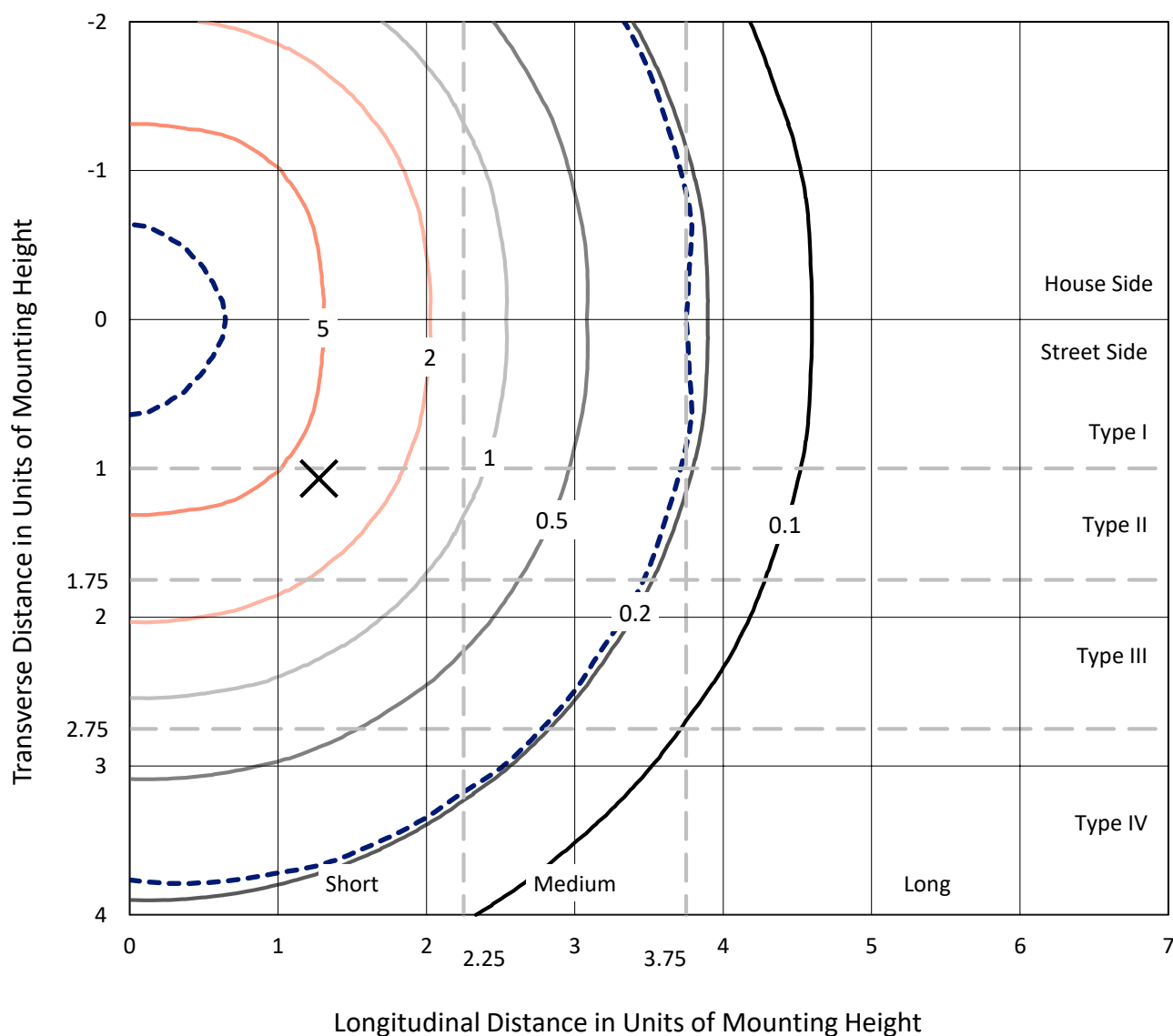
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

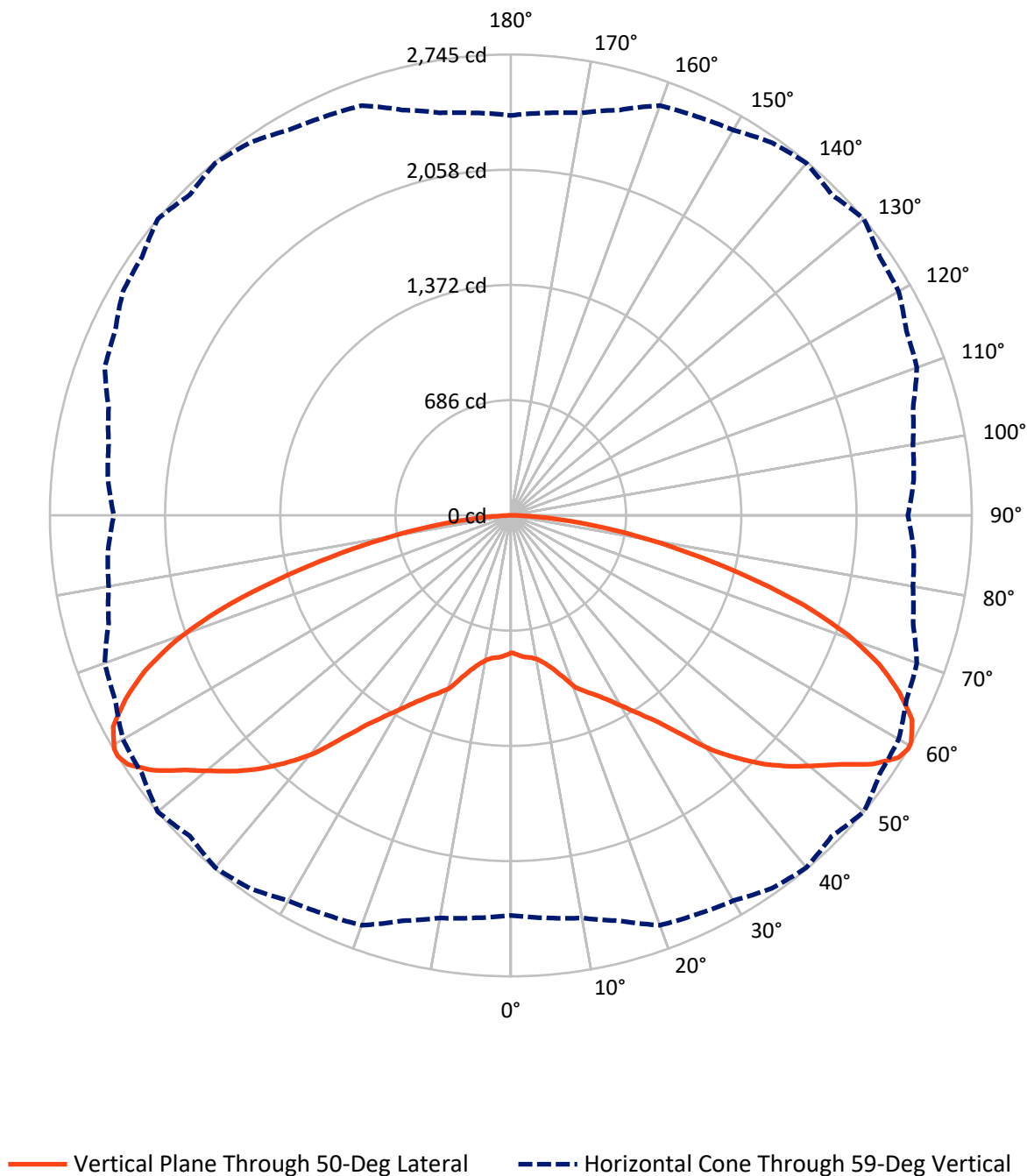


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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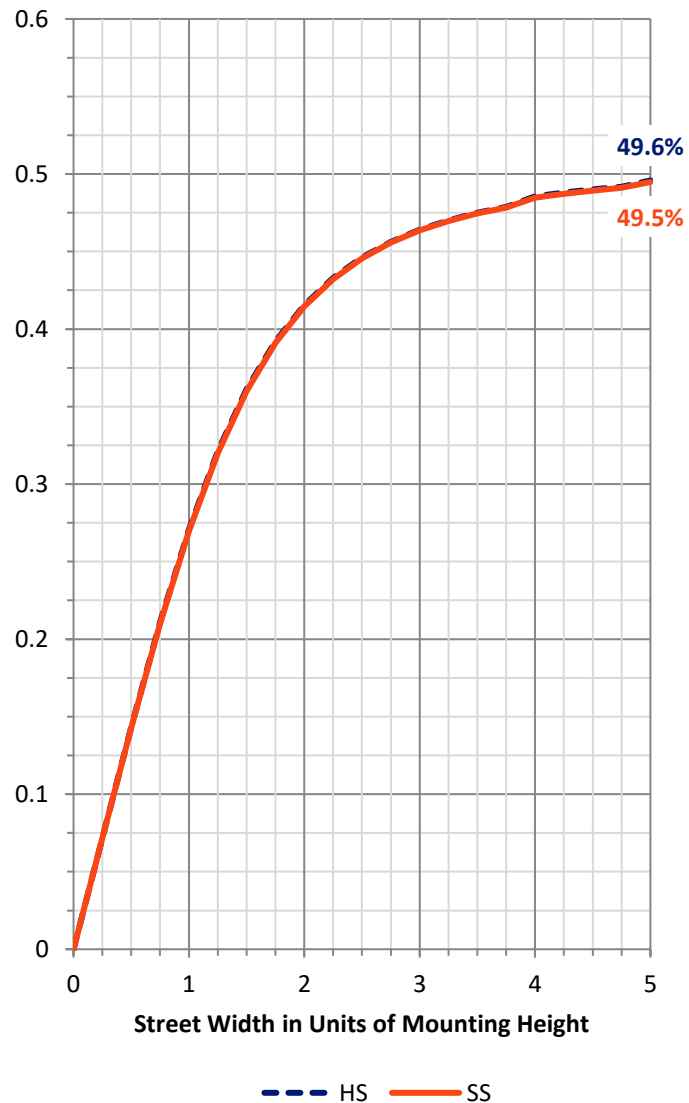
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4908.8	0.0	4908.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4908.8	0.0	4908.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	9817.6	0.0	9817.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	0.8
10°-20°	274.2	2.8
20°-30°	551.8	5.6
30°-40°	949.5	9.7
40°-50°	1567.6	16.0
50°-60°	2207.5	22.5
60°-70°	2361.5	24.1
70°-80°	1500.0	15.3
80°-90°	324.2	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°	9817.6	100.0
0°-180°	9817.6	100.0

Coefficient of Utilization



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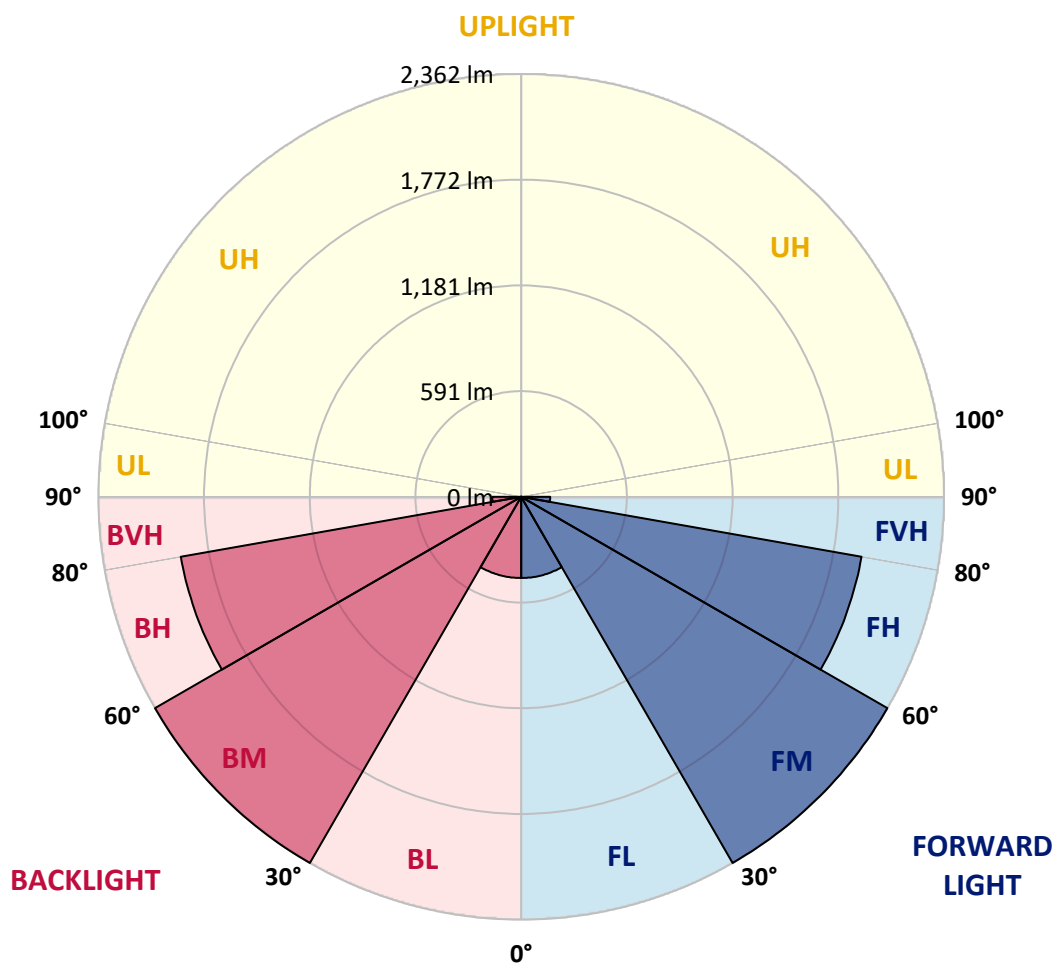
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.6	4.6			
FM	(30°-60°)	2362.3	24.1			
FH	(60°-80°)	1930.8	19.7			G2/5000
FVH	(80°-90°)	162.1	1.7			G2/225
BL	(0°-30°)	453.6	4.6	B1/500		
BM	(30°-60°)	2362.3	24.1	B2/2500		
BH	(60°-80°)	1930.8	19.7	B3/2500		G2/5000
BVH	(80°-90°)	162.1	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°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	834.5	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3
5°	838.8	838.8	841.0	841.0	843.1	843.1	843.1	845.3	845.3	845.3	847.5
7.5°	847.5	845.3	847.5	847.5	847.5	849.7	849.7	849.7	851.8	854.0	854.0
10°	875.7	873.6	875.7	875.7	875.7	871.4	871.4	873.6	871.4	871.4	871.4
12.5°	908.3	908.3	910.5	912.7	912.7	910.5	908.3	906.2	904.0	904.0	904.0
15°	938.8	940.9	943.1	947.5	949.6	949.6	951.8	954.0	951.8	951.8	949.6
17.5°	986.6	990.9	993.1	995.3	995.3	995.3	999.6	1006.1	1012.6	1017.0	1012.6
20°	1067.0	1069.1	1073.5	1073.5	1071.3	1073.5	1077.8	1080.0	1084.4	1088.7	1090.9
22.5°	1121.3	1125.6	1132.2	1132.2	1130.0	1132.2	1136.5	1136.5	1132.2	1134.3	1138.7
25°	1166.9	1169.1	1173.5	1175.6	1177.8	1188.7	1197.4	1195.2	1186.5	1188.7	1186.5
27.5°	1221.3	1225.6	1230.0	1230.0	1230.0	1236.5	1245.2	1249.5	1256.0	1253.9	1247.3
30°	1293.0	1299.5	1301.7	1299.5	1303.8	1310.4	1308.2	1312.5	1323.4	1334.3	1321.2
32.5°	1349.5	1356.0	1362.5	1371.2	1386.4	1395.1	1390.8	1392.9	1399.5	1408.1	1408.1
35°	1434.2	1445.1	1449.4	1451.6	1466.8	1484.2	1497.2	1508.1	1505.9	1499.4	1510.3
37.5°	1562.4	1573.3	1577.6	1586.3	1605.9	1610.2	1629.8	1655.9	1664.6	1655.9	1655.9
40°	1699.3	1710.2	1731.9	1751.5	1781.9	1788.4	1812.3	1823.2	1844.9	1847.1	1834.1
42.5°	1812.3	1825.4	1829.7	1862.3	1903.6	1934.0	1960.1	1962.3	1977.5	1990.5	1975.3
45°	1934.0	1944.9	1951.4	1981.8	2003.6	2040.5	2081.8	2099.2	2105.7	2103.5	2112.2
47.5°	2047.0	2062.2	2068.8	2092.7	2118.7	2149.2	2173.1	2223.0	2233.9	2212.2	2231.7
50°	2116.6	2134.0	2149.2	2201.3	2247.0	2270.9	2290.4	2331.7	2355.6	2336.0	2342.6
52.5°	2225.2	2229.6	2242.6	2264.3	2331.7	2412.1	2433.8	2446.9	2481.6	2492.5	2462.1
55°	2373.0	2388.2	2399.1	2427.3	2455.6	2512.1	2607.7	2625.1	2616.4	2668.5	2614.2
57.5°	2394.7	2423.0	2455.6	2518.6	2575.1	2592.5	2649.0	2716.3	2709.8	2716.3	2720.7
59°	2381.7	2405.6	2433.8	2499.0	2596.8	2620.7	2649.0	2709.8	2738.1	2701.1	2744.6
60°	2386.0	2403.4	2418.6	2470.8	2575.1	2629.4	2646.8	2683.7	2738.1	2688.1	2740.2
62.5°	2368.6	2390.4	2407.8	2438.2	2488.2	2564.2	2631.6	2614.2	2692.4	2653.3	2681.6
65°	2275.2	2299.1	2333.9	2377.3	2436.0	2457.7	2525.1	2562.0	2544.7	2588.1	2542.5
67.5°	2118.7	2140.5	2162.2	2214.4	2279.5	2307.8	2325.2	2392.5	2368.6	2418.6	2366.5
70°	1910.1	1934.0	1964.5	1992.7	2051.4	2075.3	2094.8	2125.3	2134.0	2134.0	2129.6
72.5°	1660.2	1679.8	1699.3	1727.6	1762.4	1784.1	1792.8	1799.3	1834.1	1821.0	1823.2
75°	1377.7	1397.3	1406.0	1416.8	1440.7	1438.6	1447.3	1442.9	1464.6	1456.0	1451.6
77.5°	1077.8	1084.4	1108.3	1108.3	1101.7	1112.6	1101.7	1095.2	1090.9	1095.2	1095.2
80°	747.5	767.1	782.3	793.2	797.5	793.2	795.3	786.6	786.6	780.1	782.3
82.5°	460.7	480.2	486.8	497.6	499.8	499.8	499.8	493.3	495.5	488.9	493.3
85°	226.0	226.0	234.7	245.6	247.7	252.1	252.1	252.1	252.1	252.1	254.2
87.5°	56.5	56.5	60.8	67.4	67.4	69.5	71.7	73.9	73.9	76.1	76.1
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°	817.1	817.1	817.1	817.1	817.1	817.1	817.1	817.1
2.5°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3
5°	847.5	845.3	845.3	843.1	843.1	841.0	841.0	841.0
7.5°	856.2	856.2	854.0	851.8	849.7	849.7	851.8	851.8
10°	873.6	877.9	880.1	880.1	877.9	877.9	875.7	875.7
12.5°	901.8	906.2	910.5	914.9	914.9	912.7	908.3	906.2
15°	945.3	945.3	947.5	949.6	949.6	945.3	936.6	936.6
17.5°	1004.0	999.6	993.1	995.3	997.4	995.3	986.6	990.9
20°	1084.4	1075.7	1071.3	1067.0	1075.7	1075.7	1062.6	1062.6
22.5°	1143.0	1136.5	1125.6	1123.5	1130.0	1134.3	1123.5	1117.0
25°	1193.0	1195.2	1182.1	1175.6	1177.8	1180.0	1164.8	1166.9
27.5°	1247.3	1249.5	1243.0	1232.1	1227.8	1234.3	1223.4	1219.1
30°	1312.5	1310.4	1314.7	1301.7	1290.8	1297.3	1297.3	1286.5
32.5°	1397.3	1390.8	1392.9	1377.7	1364.7	1362.5	1353.8	1340.8
35°	1512.5	1495.1	1482.0	1473.3	1449.4	1445.1	1445.1	1429.9
37.5°	1662.4	1636.3	1612.4	1612.4	1575.5	1564.6	1571.1	1551.6
40°	1829.7	1821.0	1784.1	1777.6	1738.5	1712.4	1712.4	1688.5
42.5°	1951.4	1962.3	1918.8	1892.7	1866.7	1825.4	1829.7	1799.3
45°	2084.0	2077.5	2040.5	1994.9	1986.2	1942.7	1947.1	1916.6
47.5°	2210.0	2170.9	2153.5	2107.9	2088.3	2038.3	2053.5	2029.6
50°	2331.7	2288.2	2270.9	2216.5	2190.5	2136.1	2138.3	2094.8
52.5°	2457.7	2418.6	2392.5	2323.0	2277.4	2238.3	2229.6	2210.0
55°	2620.7	2579.4	2516.4	2451.2	2416.4	2359.9	2366.5	2336.0
57.5°	2683.7	2657.7	2590.3	2551.2	2486.0	2429.5	2416.4	2362.1
59°	2681.6	2666.4	2599.0	2572.9	2479.5	2431.7	2407.8	2364.3
60°	2666.4	2662.0	2594.6	2562.0	2464.3	2420.8	2399.1	2370.8
62.5°	2620.7	2618.5	2542.5	2503.4	2423.0	2388.2	2375.2	2338.2
65°	2553.4	2516.4	2457.7	2431.7	2349.1	2323.0	2286.1	2249.1
67.5°	2392.5	2310.0	2301.3	2268.7	2197.0	2164.4	2140.5	2105.7
70°	2127.4	2073.1	2073.1	2031.8	1981.8	1966.6	1934.0	1894.9
72.5°	1797.1	1784.1	1790.6	1742.8	1718.9	1710.2	1682.0	1647.2
75°	1436.4	1438.6	1432.1	1421.2	1414.7	1416.8	1386.4	1371.2
77.5°	1088.7	1108.3	1103.9	1088.7	1103.9	1101.7	1075.7	1069.1
80°	775.8	784.5	788.8	780.1	788.8	782.3	760.6	758.4
82.5°	488.9	491.1	495.5	486.8	488.9	486.8	471.6	471.6
85°	249.9	258.6	247.7	239.0	239.0	230.3	226.0	228.2
87.5°	73.9	78.2	69.5	69.5	65.2	60.8	58.7	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)