

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: P197891

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197891
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING 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: 9843.1 lumens
Efficiency: N/A
Efficacy: 91.1 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

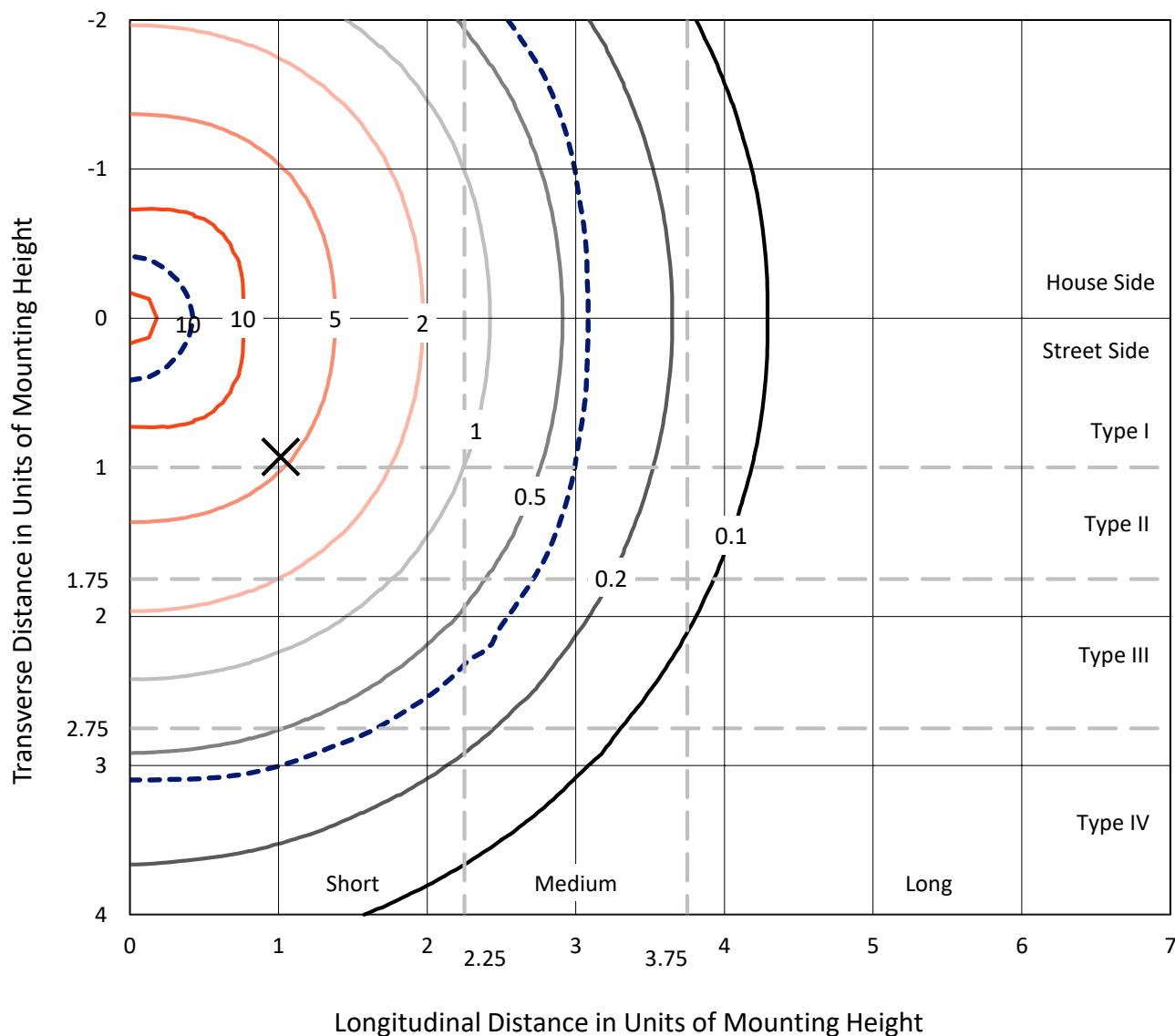


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

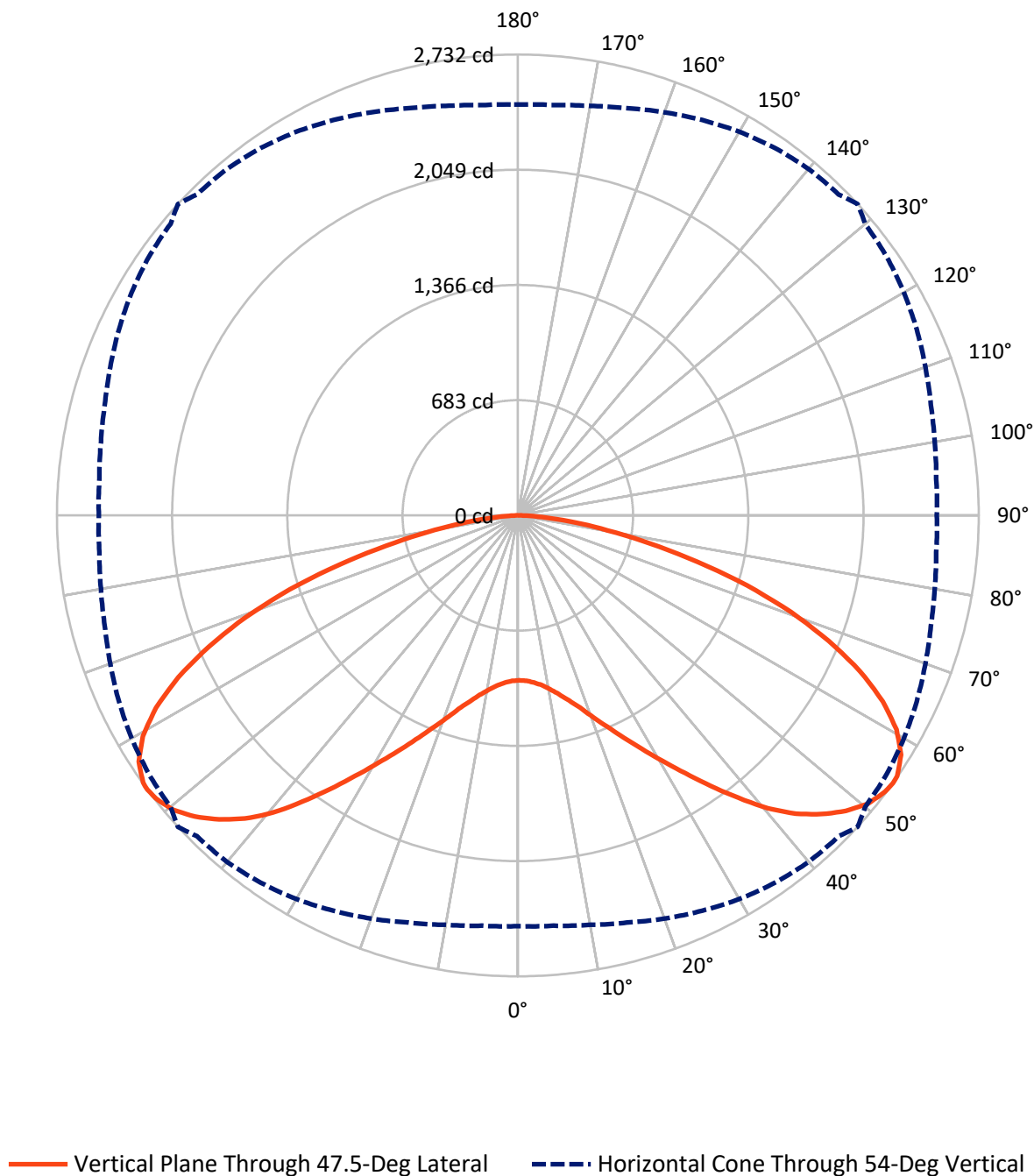


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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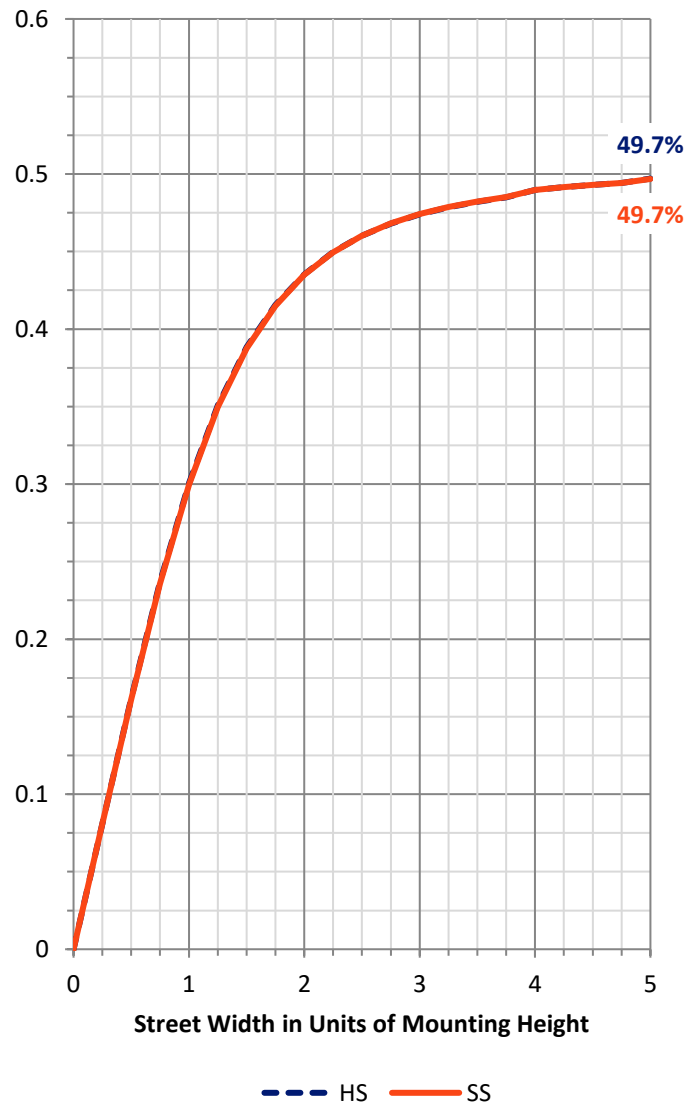
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4921.5	0.0	4921.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4921.5	0.0	4921.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9843.1	0.0	9843.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.0
10°-20°	327.1	3.3
20°-30°	673.5	6.8
30°-40°	1204.4	12.2
40°-50°	1847.9	18.8
50°-60°	2278.3	23.1
60°-70°	2061.1	20.9
70°-80°	1134.9	11.5
80°-90°	219.5	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°	9843.1	100.0
0°-180°	9843.1	100.0

Coefficient of Utilization



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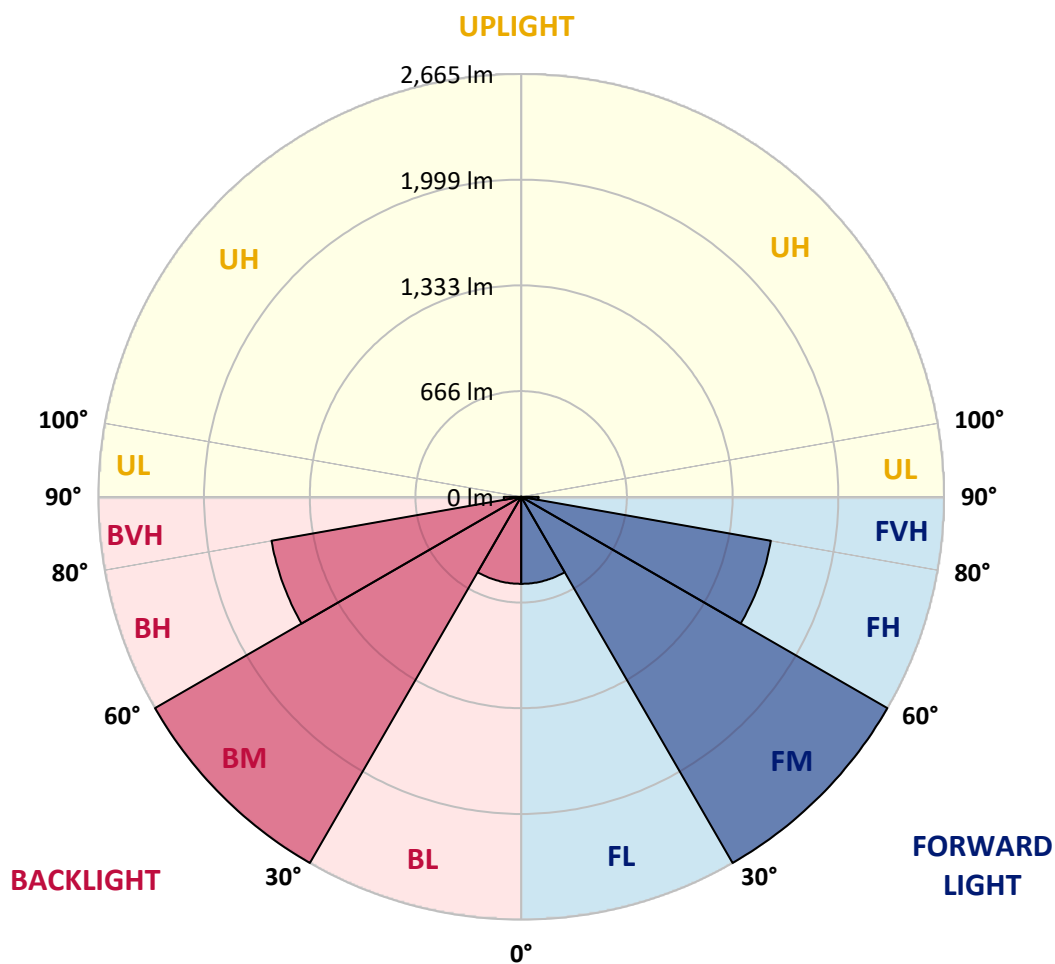
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.5	5.6			
FM	(30°-60°)	2665.3	27.1			
FH	(60°-80°)	1598.0	16.2			G1/1800
FVH	(80°-90°)	109.8	1.1			G2/225
BL	(0°-30°)	548.5	5.6	B2/1000		
BM	(30°-60°)	2665.3	27.1	B3/5000		
BH	(60°-80°)	1598.0	16.2	B3/2500		G1/1800
BVH	(80°-90°)	109.8	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°	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4
2.5°	981.6	981.6	981.6	981.6	981.6	981.6	981.6	981.6	981.6	981.6	981.6
5°	994.4	994.4	994.4	996.5	994.4	994.4	994.4	994.4	994.4	994.4	994.4
7.5°	1015.6	1015.6	1015.6	1015.6	1015.6	1015.6	1013.5	1013.5	1015.6	1013.5	1015.6
10°	1045.3	1043.2	1043.2	1045.3	1045.3	1043.2	1045.3	1045.3	1045.3	1045.3	1047.5
12.5°	1083.6	1083.6	1085.7	1085.7	1085.7	1087.8	1087.8	1085.7	1087.8	1087.8	1087.8
15°	1134.6	1134.6	1134.6	1134.6	1136.7	1138.8	1136.7	1136.7	1134.6	1134.6	1138.8
17.5°	1194.1	1194.1	1194.1	1194.1	1198.3	1198.3	1196.2	1198.3	1200.4	1200.4	1198.3
20°	1266.3	1264.2	1262.1	1264.2	1268.4	1268.4	1270.6	1272.7	1272.7	1272.7	1276.9
22.5°	1342.8	1340.7	1344.9	1347.1	1349.2	1351.3	1351.3	1353.4	1357.7	1355.6	1361.9
25°	1427.8	1425.7	1427.8	1432.0	1440.5	1440.5	1442.7	1446.9	1446.9	1444.8	1459.7
27.5°	1523.4	1523.4	1525.5	1534.0	1536.1	1538.3	1544.6	1548.9	1555.3	1555.3	1568.0
30°	1627.5	1625.4	1629.6	1638.1	1644.5	1650.9	1659.4	1670.0	1672.1	1674.3	1687.0
32.5°	1733.7	1733.7	1738.0	1752.9	1763.5	1774.1	1786.9	1797.5	1801.7	1801.7	1820.9
35°	1846.4	1848.5	1859.1	1869.7	1891.0	1903.7	1916.5	1931.3	1939.8	1944.1	1969.6
37.5°	1965.3	1971.7	1980.2	1995.1	2016.3	2037.6	2056.7	2080.1	2092.8	2097.1	2124.7
40°	2077.9	2086.4	2099.2	2120.4	2141.7	2171.4	2194.8	2218.2	2233.0	2241.5	2284.0
42.5°	2188.4	2192.7	2207.5	2230.9	2258.5	2286.2	2318.0	2343.5	2358.4	2371.2	2417.9
45°	2275.5	2279.8	2298.9	2326.5	2358.4	2392.4	2424.3	2454.0	2468.9	2479.5	2526.3
47.5°	2347.8	2356.3	2377.5	2405.1	2437.0	2477.4	2513.5	2543.3	2562.4	2568.7	2617.6
50°	2400.9	2413.6	2432.8	2464.6	2502.9	2543.3	2581.5	2613.4	2634.6	2643.1	2687.7
52.5°	2430.6	2441.3	2462.5	2494.4	2539.0	2579.4	2619.7	2651.6	2675.0	2683.5	2723.8
54°	2434.9	2441.3	2464.6	2498.6	2543.3	2585.7	2626.1	2658.0	2681.4	2689.9	2732.3
55°	2430.6	2434.9	2460.4	2492.3	2539.0	2581.5	2621.9	2653.7	2679.2	2687.7	2728.1
57.5°	2388.1	2394.5	2415.8	2449.8	2492.3	2541.1	2579.4	2611.2	2636.7	2641.0	2679.2
60°	2301.0	2309.5	2328.7	2364.8	2407.3	2449.8	2488.0	2515.6	2539.0	2551.7	2579.4
62.5°	2175.7	2179.9	2199.1	2230.9	2269.2	2313.8	2343.5	2371.2	2392.4	2405.1	2428.5
65°	1997.2	2016.3	2031.2	2056.7	2086.4	2122.6	2160.8	2182.1	2192.7	2213.9	2230.9
67.5°	1797.5	1810.2	1825.1	1848.5	1867.6	1891.0	1927.1	1946.2	1959.0	1973.8	1988.7
70°	1574.4	1570.1	1587.1	1599.9	1621.1	1636.0	1659.4	1670.0	1684.9	1693.4	1718.9
72.5°	1308.8	1315.2	1330.1	1344.9	1351.3	1355.6	1374.7	1381.0	1393.8	1389.5	1421.4
75°	1068.7	1058.1	1062.3	1064.5	1068.7	1064.5	1077.2	1083.6	1090.0	1083.6	1100.6
77.5°	807.4	794.6	798.9	796.8	796.8	792.5	790.4	790.4	792.5	788.3	798.9
80°	556.7	550.3	552.4	556.7	546.0	548.2	535.4	535.4	535.4	535.4	539.7
82.5°	344.2	335.7	333.6	335.7	335.7	329.3	331.5	323.0	320.8	318.7	337.8
85°	167.9	163.6	167.9	163.6	161.5	161.5	157.2	159.4	155.1	153.0	165.7
87.5°	44.6	42.5	42.5	42.5	40.4	42.5	42.5	42.5	42.5	44.6	51.0
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°	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4
2.5°	981.6	981.6	981.6	981.6	981.6	981.6	981.6	981.6	979.5
5°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4
7.5°	1015.6	1015.6	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5
10°	1045.3	1047.5	1043.2	1043.2	1045.3	1043.2	1043.2	1041.1	1041.1
12.5°	1087.8	1085.7	1087.8	1087.8	1085.7	1083.6	1081.5	1079.3	1081.5
15°	1136.7	1134.6	1134.6	1134.6	1132.5	1132.5	1130.3	1132.5	1130.3
17.5°	1196.2	1196.2	1198.3	1191.9	1194.1	1189.8	1189.8	1189.8	1187.7
20°	1272.7	1270.6	1268.4	1262.1	1264.2	1259.9	1257.8	1255.7	1253.6
22.5°	1355.6	1351.3	1349.2	1342.8	1344.9	1340.7	1334.3	1330.1	1330.1
25°	1446.9	1442.7	1438.4	1436.3	1434.2	1425.7	1421.4	1415.0	1419.3
27.5°	1555.3	1546.8	1540.4	1531.9	1534.0	1523.4	1519.2	1514.9	1514.9
30°	1672.1	1665.8	1655.1	1648.8	1646.6	1636.0	1627.5	1623.3	1621.1
32.5°	1799.6	1795.4	1789.0	1778.4	1774.1	1757.1	1750.7	1744.4	1742.2
35°	1950.5	1939.8	1933.5	1918.6	1903.7	1893.1	1878.2	1874.0	1869.7
37.5°	2090.7	2090.7	2080.1	2063.1	2041.8	2027.0	2014.2	2005.7	1999.3
40°	2239.4	2235.2	2218.2	2203.3	2182.1	2160.8	2137.4	2128.9	2124.7
42.5°	2371.2	2362.7	2345.7	2326.5	2305.3	2279.8	2254.3	2241.5	2239.4
45°	2481.6	2471.0	2454.0	2428.5	2400.9	2375.4	2352.0	2339.3	2332.9
47.5°	2570.9	2558.1	2536.9	2513.5	2481.6	2451.9	2428.5	2415.8	2407.3
50°	2636.7	2626.1	2602.7	2573.0	2541.1	2507.1	2483.8	2468.9	2462.5
52.5°	2679.2	2664.4	2638.9	2607.0	2570.9	2536.9	2509.3	2492.3	2485.9
54°	2687.7	2670.7	2643.1	2609.1	2570.9	2534.8	2509.3	2490.1	2483.8
55°	2683.5	2666.5	2636.7	2604.9	2564.5	2528.4	2500.8	2481.6	2475.3
57.5°	2638.9	2619.7	2592.1	2558.1	2515.6	2479.5	2454.0	2432.8	2426.4
60°	2543.3	2526.3	2494.4	2464.6	2422.1	2386.0	2358.4	2337.2	2330.8
62.5°	2396.6	2381.8	2354.2	2324.4	2279.8	2247.9	2220.3	2207.5	2190.6
65°	2201.2	2190.6	2162.9	2126.8	2094.9	2063.1	2035.5	2027.0	2016.3
67.5°	1967.5	1952.6	1942.0	1905.8	1880.3	1850.6	1823.0	1806.0	1801.7
70°	1691.3	1684.9	1674.3	1640.3	1625.4	1599.9	1580.8	1565.9	1561.6
72.5°	1393.8	1387.4	1385.3	1368.3	1349.2	1325.8	1317.3	1304.6	1302.4
75°	1083.6	1079.3	1083.6	1070.8	1064.5	1058.1	1053.8	1053.8	1047.5
77.5°	784.0	790.4	792.5	792.5	796.8	796.8	801.0	794.6	788.3
80°	533.3	539.7	537.5	541.8	539.7	554.5	543.9	552.4	543.9
82.5°	320.8	329.3	329.3	329.3	337.8	335.7	335.7	339.9	337.8
85°	157.2	159.4	157.2	155.1	165.7	163.6	163.6	161.5	163.6
87.5°	46.7	42.5	44.6	40.4	44.6	38.2	42.5	42.5	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)