

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: P197910

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-SG-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8202.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 77
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

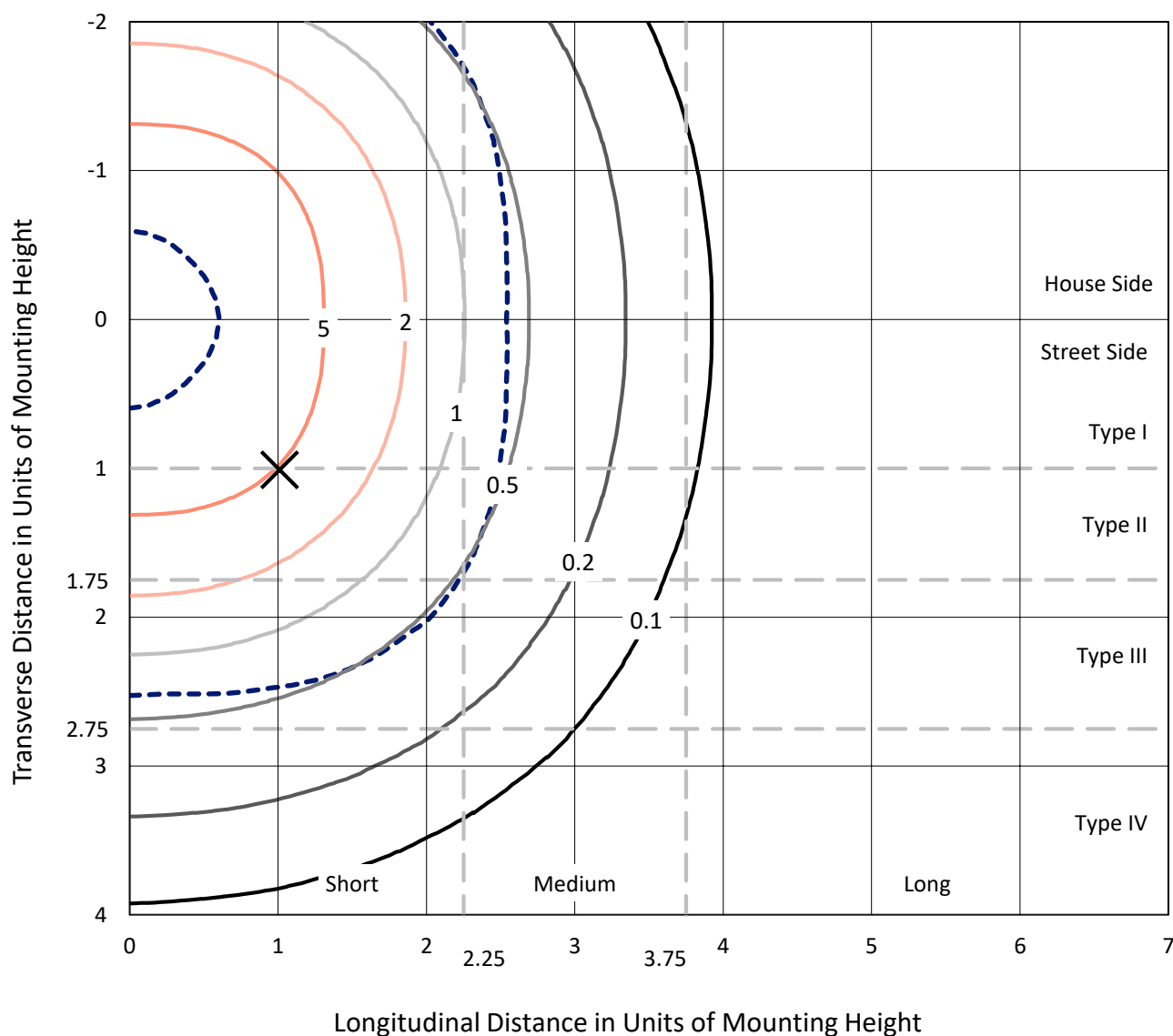


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

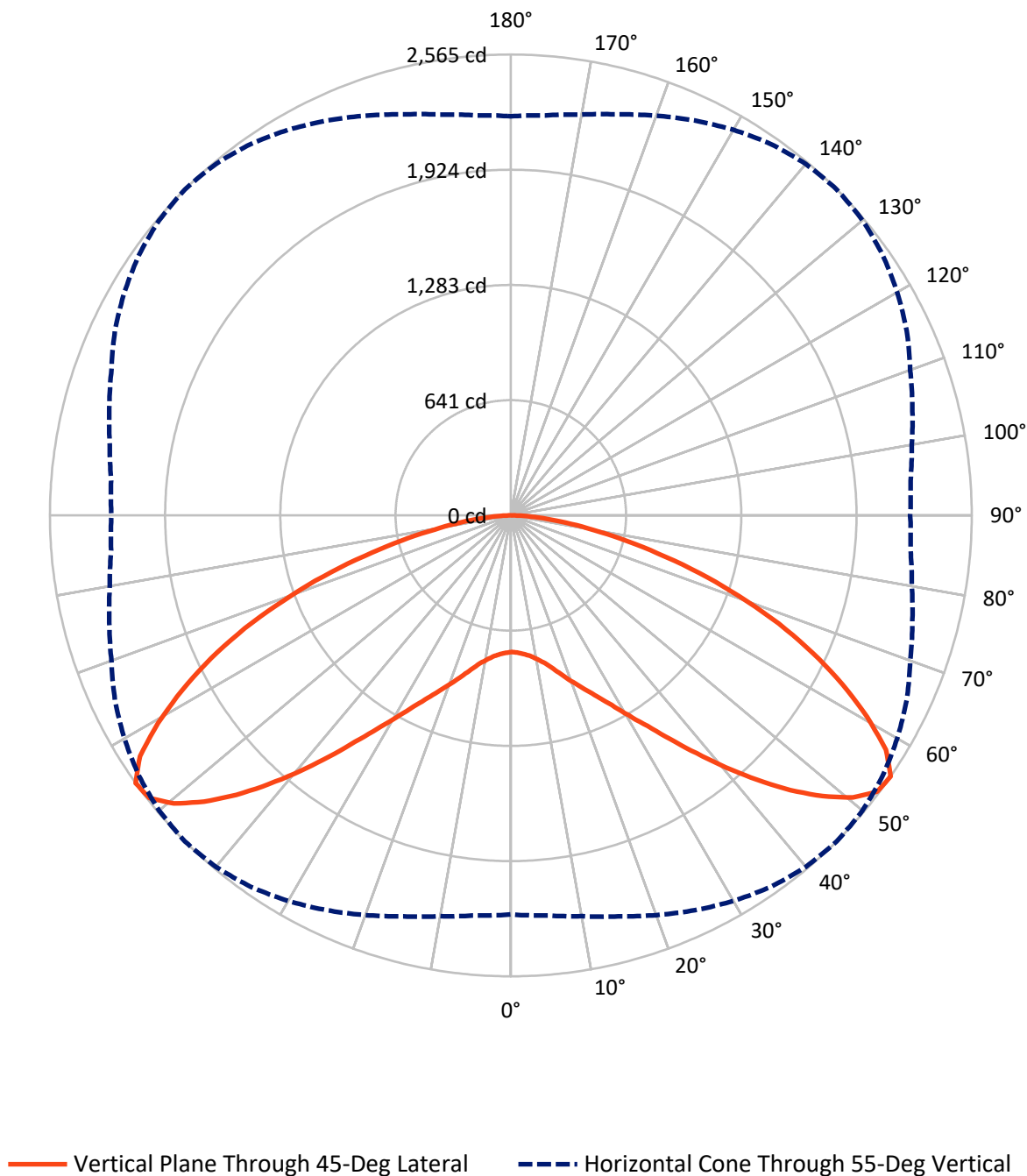


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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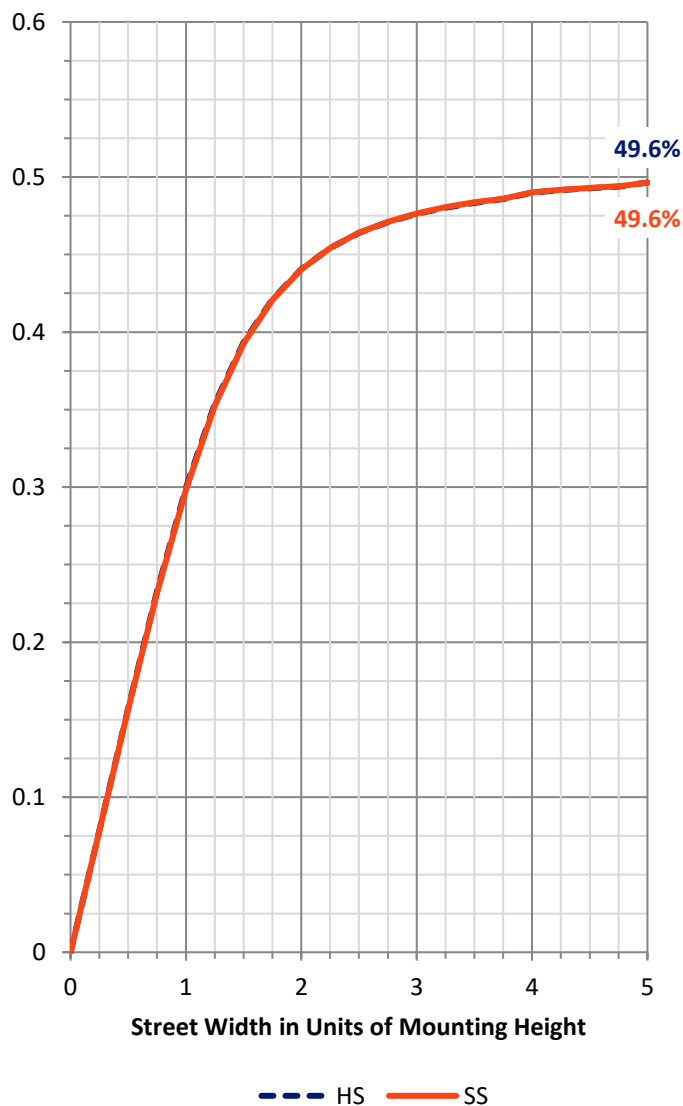
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4101.2	0.0	4101.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4101.2	0.0	4101.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8202.4	0.0	8202.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	0.9
10°-20°	254.6	3.1
20°-30°	518.5	6.3
30°-40°	946.9	11.5
40°-50°	1607.8	19.6
50°-60°	2093.8	25.5
60°-70°	1693.4	20.6
70°-80°	832.1	10.1
80°-90°	180.1	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°	8202.4	100.0
0°-180°	8202.4	100.0

Coefficient of Utilization



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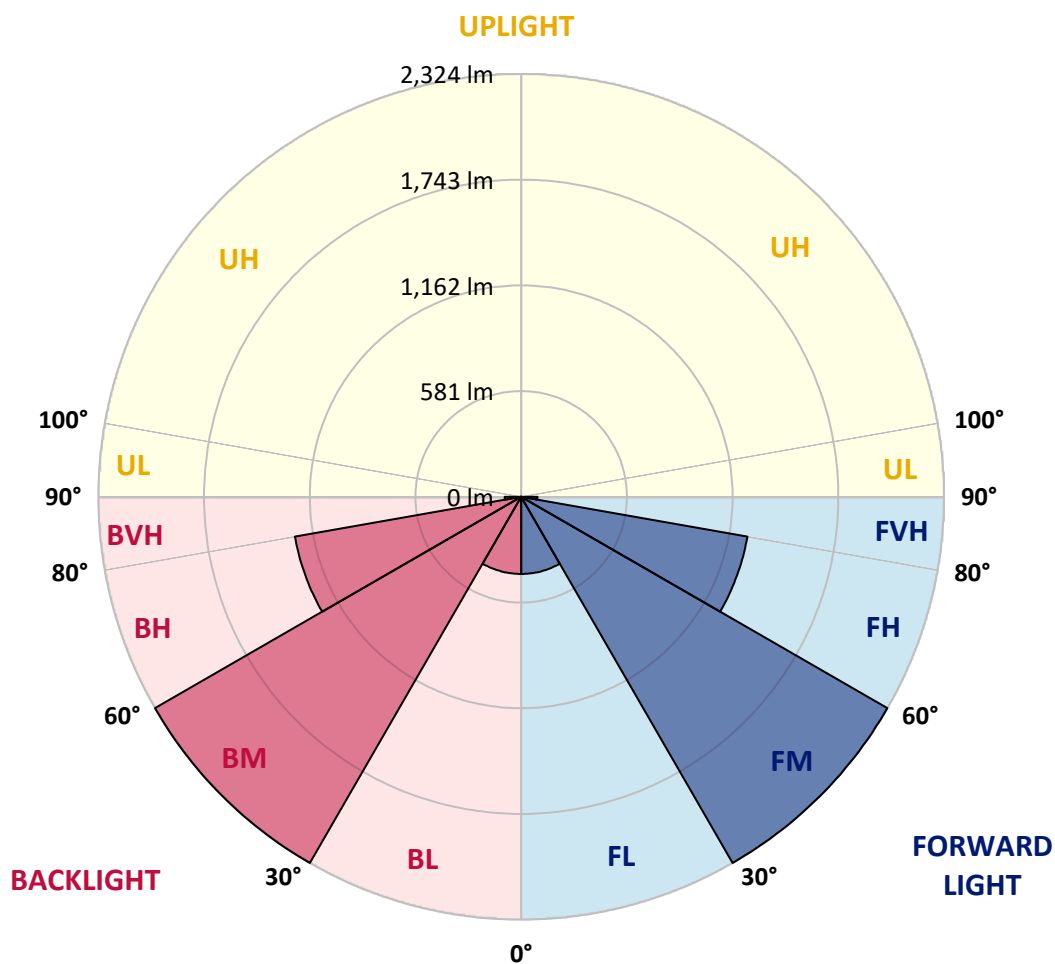
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.1	5.2			
FM	(30°-60°)	2324.2	28.3			
FH	(60°-80°)	1262.8	15.4			G1/1800
FVH	(80°-90°)	90.1	1.1			G1/100
BL	(0°-30°)	424.1	5.2	B1/500		
BM	(30°-60°)	2324.2	28.3	B2/2500		
BH	(60°-80°)	1262.8	15.4	B3/2500		G1/1800
BVH	(80°-90°)	90.1	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0
2.5°	763.3	763.3	763.3	763.3	763.3	763.3	765.0	765.0	765.0	765.0	765.0
5°	773.4	773.4	773.4	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1
7.5°	788.5	786.8	788.5	788.5	788.5	790.3	790.3	788.5	790.3	790.3	790.3
10°	810.3	808.6	810.3	810.3	810.3	812.0	812.0	812.0	812.0	813.8	813.8
12.5°	842.2	840.5	842.2	844.0	842.2	844.0	844.0	844.0	844.0	844.0	844.0
15°	882.6	880.9	882.6	884.1	882.6	885.8	885.8	884.1	884.1	885.8	885.8
17.5°	931.1	927.9	929.4	931.1	931.1	934.6	934.6	932.9	934.6	936.1	934.6
20°	981.4	978.2	979.9	984.9	984.9	986.6	989.8	988.3	989.8	991.5	989.8
22.5°	1036.9	1035.1	1036.9	1041.8	1041.8	1043.5	1048.5	1048.5	1048.5	1050.2	1048.5
25°	1097.3	1095.5	1097.3	1102.2	1102.2	1105.7	1112.4	1112.4	1114.1	1115.8	1114.1
27.5°	1167.8	1166.1	1169.3	1174.5	1176.2	1181.2	1189.6	1191.3	1192.8	1194.6	1191.3
30°	1250.0	1246.6	1251.5	1259.9	1263.4	1270.1	1280.2	1283.4	1285.2	1290.1	1286.9
32.5°	1343.9	1340.6	1347.3	1357.2	1362.4	1372.3	1385.9	1389.2	1394.1	1397.6	1392.6
35°	1454.5	1453.0	1459.7	1474.8	1483.2	1494.9	1513.4	1518.4	1521.8	1528.5	1521.8
37.5°	1577.1	1575.4	1587.2	1604.0	1619.1	1637.5	1657.6	1666.0	1671.1	1679.5	1671.1
40°	1713.0	1711.3	1726.4	1746.6	1765.0	1788.5	1813.7	1825.4	1835.5	1843.9	1833.8
42.5°	1852.3	1852.3	1870.7	1892.5	1919.4	1947.9	1976.4	1989.8	2006.6	2011.6	1999.9
45°	1986.5	1988.1	2006.6	2033.4	2072.0	2108.9	2140.8	2157.6	2176.0	2181.1	2166.0
47.5°	2114.0	2115.7	2132.4	2167.7	2211.3	2253.2	2291.8	2315.3	2333.7	2335.4	2323.7
50°	2218.0	2224.7	2246.5	2278.4	2323.7	2367.3	2414.3	2444.5	2462.9	2468.1	2456.2
52.5°	2258.3	2270.0	2295.2	2335.4	2387.4	2432.7	2484.7	2523.3	2545.1	2553.5	2543.6
55°	2221.3	2234.8	2265.0	2310.3	2367.3	2424.3	2478.0	2523.3	2553.5	2565.4	2555.2
57.5°	2139.1	2140.8	2171.0	2216.3	2268.3	2327.0	2379.0	2421.0	2449.5	2461.4	2459.6
60°	1996.5	1996.5	2025.1	2068.7	2108.9	2169.3	2213.0	2244.8	2265.0	2278.4	2275.0
62.5°	1805.3	1805.3	1830.4	1875.7	1916.0	1968.0	2010.0	2043.5	2056.9	2072.0	2075.4
65°	1592.2	1592.2	1615.7	1661.0	1697.9	1744.9	1785.1	1817.0	1830.4	1848.9	1845.5
67.5°	1365.6	1364.1	1385.9	1424.3	1459.7	1503.3	1541.9	1572.1	1587.2	1609.0	1593.9
70°	1132.4	1132.4	1151.0	1181.2	1206.2	1250.0	1286.9	1317.1	1328.8	1347.3	1338.9
72.5°	911.1	909.3	924.4	948.0	968.0	1006.6	1028.4	1062.1	1072.0	1097.3	1083.9
75°	711.3	708.1	719.7	736.5	749.9	775.1	792.0	818.7	827.1	844.0	837.3
77.5°	535.2	533.5	538.5	550.3	560.3	580.5	587.2	600.6	607.3	624.1	610.7
80°	384.2	379.3	384.2	390.9	394.4	409.5	411.0	416.1	419.4	431.2	417.7
82.5°	258.4	251.7	255.0	260.0	260.0	268.4	270.1	268.4	275.1	278.5	271.8
85°	147.6	142.6	144.3	147.6	146.0	151.0	151.0	149.3	154.3	154.3	151.0
87.5°	48.7	45.3	47.0	48.7	48.7	50.3	52.0	50.3	53.7	53.7	50.3
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°	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0
2.5°	765.0	765.0	765.0	765.0	765.0	765.0	765.0	765.0
5°	775.1	775.1	775.1	775.1	775.1	773.4	773.4	773.4
7.5°	790.3	790.3	790.3	790.3	790.3	788.5	788.5	788.5
10°	813.8	812.0	812.0	812.0	812.0	810.3	812.0	810.3
12.5°	844.0	845.5	845.5	844.0	845.5	842.2	842.2	842.2
15°	885.8	884.1	884.1	884.1	884.1	882.6	882.6	882.6
17.5°	932.9	932.9	931.1	931.1	929.4	927.9	927.9	927.9
20°	988.3	986.6	984.9	983.1	981.4	978.2	976.4	976.4
22.5°	1045.3	1043.5	1041.8	1040.3	1038.6	1035.1	1031.9	1031.9
25°	1108.9	1105.7	1103.9	1100.7	1097.3	1093.8	1092.3	1090.6
27.5°	1186.1	1182.9	1177.7	1172.8	1166.1	1164.4	1161.1	1161.1
30°	1278.5	1273.5	1266.6	1258.4	1251.5	1244.8	1241.6	1239.9
32.5°	1385.9	1379.2	1367.4	1357.2	1345.6	1338.9	1333.9	1330.5
35°	1511.7	1501.6	1488.2	1473.1	1458.0	1446.3	1437.9	1437.9
37.5°	1659.3	1644.2	1624.1	1605.6	1583.8	1570.4	1560.3	1553.6
40°	1820.4	1798.6	1773.4	1749.9	1724.8	1706.3	1691.2	1692.9
42.5°	1979.8	1961.3	1931.1	1902.6	1870.7	1845.5	1827.1	1825.4
45°	2147.5	2124.0	2087.1	2050.2	2013.3	1983.1	1961.3	1957.9
47.5°	2303.5	2278.4	2234.8	2189.5	2149.2	2115.7	2092.2	2088.8
50°	2431.2	2401.0	2355.7	2306.9	2263.3	2226.4	2201.2	2194.5
52.5°	2513.4	2479.7	2431.2	2372.3	2325.4	2283.4	2253.2	2244.8
55°	2526.7	2483.2	2431.2	2365.6	2313.6	2266.6	2233.1	2223.0
57.5°	2434.4	2387.4	2340.5	2283.4	2231.4	2181.1	2154.2	2140.8
60°	2254.9	2218.0	2179.4	2127.4	2085.5	2038.5	2016.7	2010.0
62.5°	2048.5	2016.7	1981.4	1927.8	1892.5	1850.6	1830.4	1822.1
65°	1827.1	1790.2	1756.6	1713.0	1674.4	1639.2	1610.7	1607.3
67.5°	1582.0	1543.6	1514.9	1476.5	1437.9	1404.3	1385.9	1375.8
70°	1323.8	1291.9	1263.4	1221.3	1196.3	1164.4	1151.0	1140.8
72.5°	1067.1	1048.5	1013.3	986.6	958.1	932.9	924.4	914.3
75°	825.4	803.6	776.9	760.0	738.3	724.9	718.0	711.3
77.5°	605.6	587.2	572.1	565.4	555.3	541.9	537.0	531.8
80°	419.4	411.0	401.0	399.3	392.6	382.5	380.8	379.3
82.5°	271.8	266.8	263.4	263.4	260.0	253.3	251.7	251.7
85°	151.0	149.3	151.0	149.3	146.0	142.6	142.6	142.6
87.5°	50.3	50.3	52.0	53.7	48.7	48.7	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)