

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: P197892

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197892
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9768.8 lumens
Efficiency: N/A
Efficacy: 90.5 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

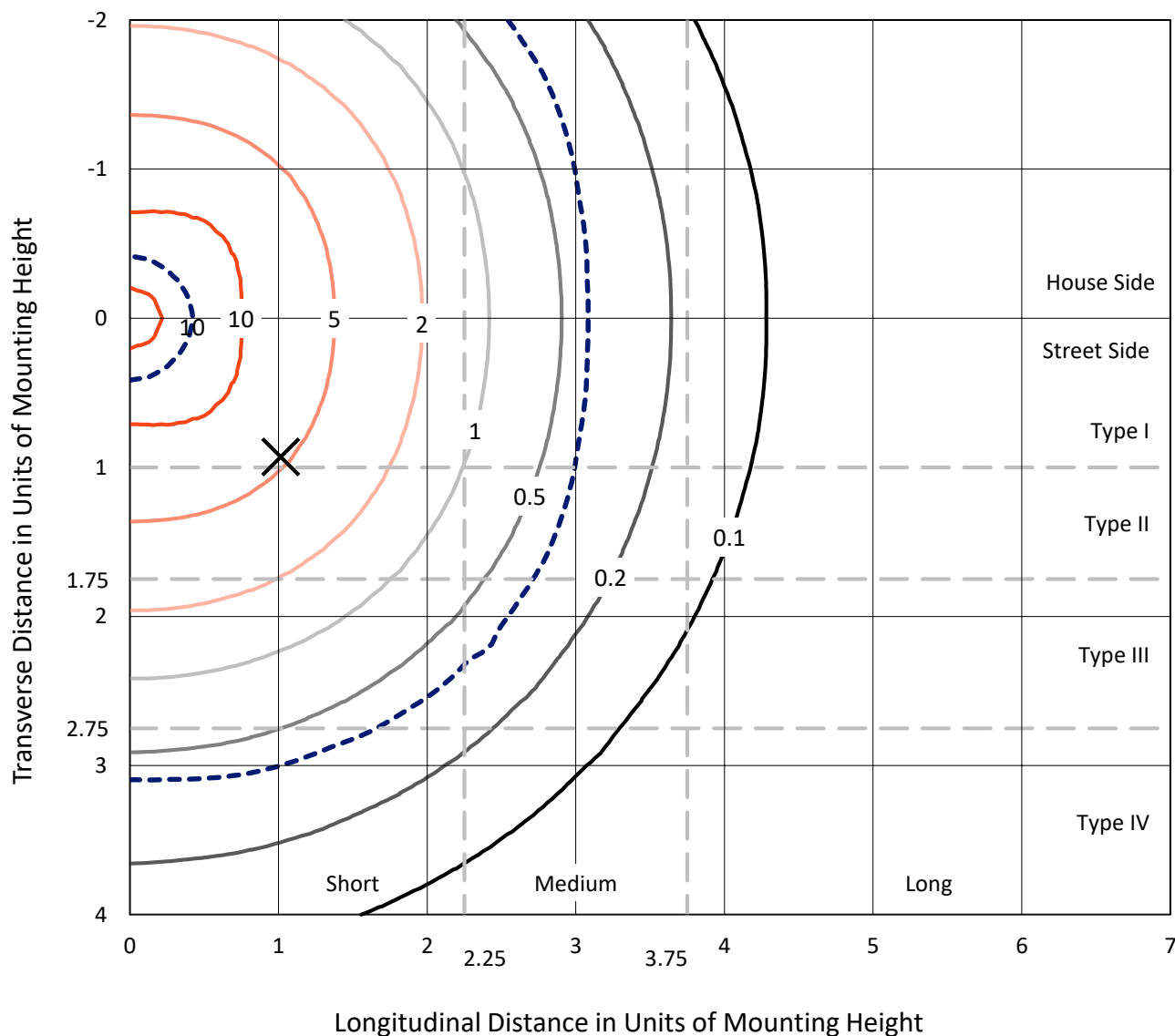


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

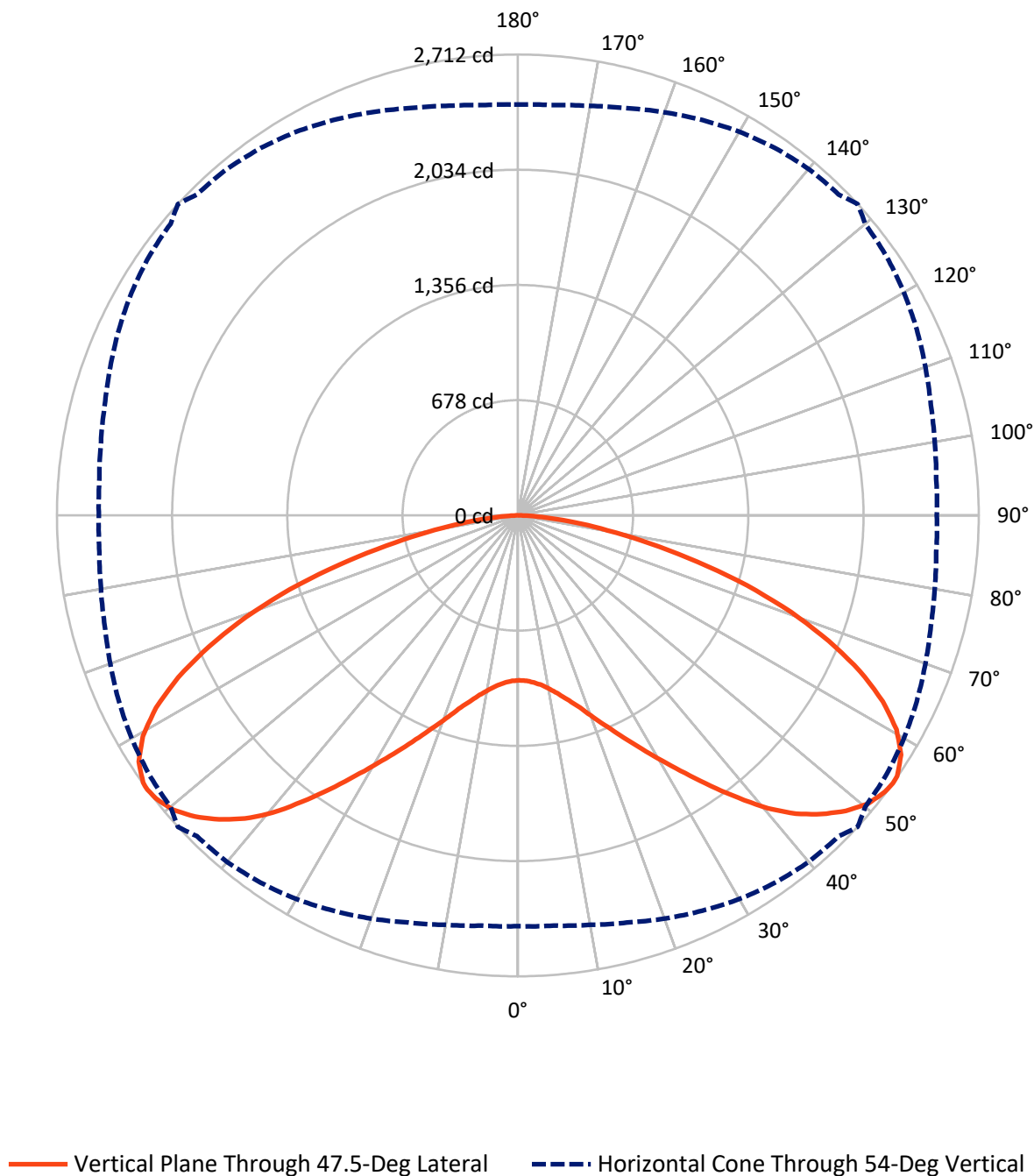


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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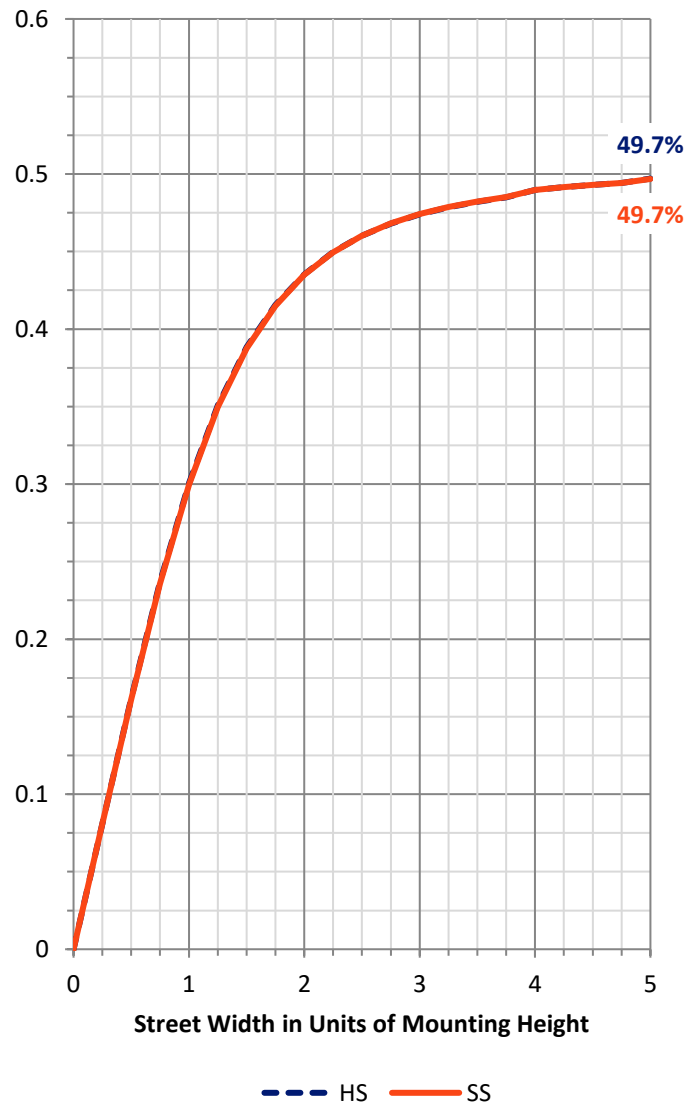
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4884.4	0.0	4884.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4884.4	0.0	4884.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9768.8	0.0	9768.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.0
10°-20°	324.6	3.3
20°-30°	668.4	6.8
30°-40°	1195.3	12.2
40°-50°	1833.9	18.8
50°-60°	2261.1	23.1
60°-70°	2045.6	20.9
70°-80°	1126.3	11.5
80°-90°	217.9	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°	9768.8	100.0
0°-180°	9768.8	100.0

Coefficient of Utilization



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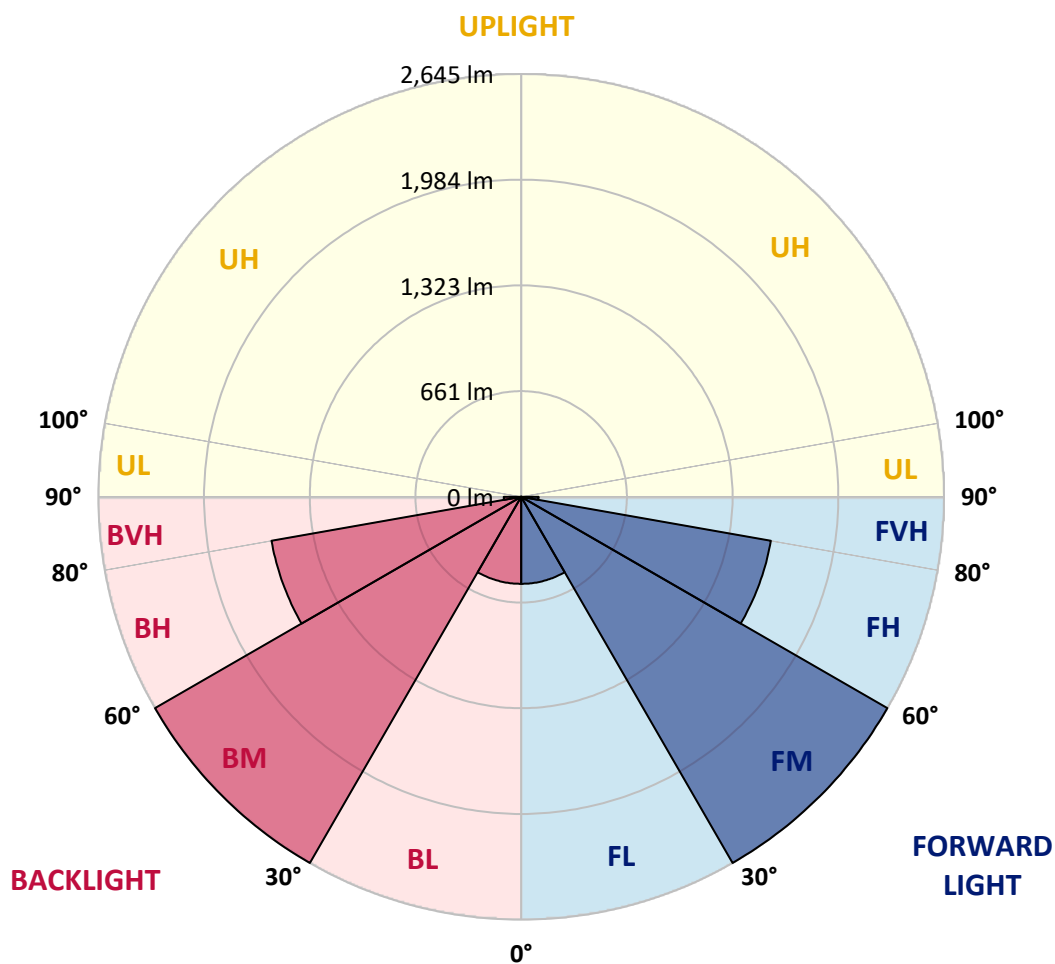
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.4	5.6			
FM	(30°-60°)	2645.1	27.1			
FH	(60°-80°)	1585.9	16.2			G1/1800
FVH	(80°-90°)	108.9	1.1			G2/225
BL	(0°-30°)	544.4	5.6	B2/1000		
BM	(30°-60°)	2645.1	27.1	B3/5000		
BH	(60°-80°)	1585.9	16.2	B3/2500		G1/1800
BVH	(80°-90°)	108.9	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°	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0
2.5°	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2
5°	986.8	986.8	986.8	989.0	986.8	986.8	986.8	986.8	986.8	986.8	986.8
7.5°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1005.8	1005.8	1007.9	1005.8	1007.9
10°	1037.5	1035.3	1035.3	1037.5	1037.5	1035.3	1037.5	1037.5	1037.5	1037.5	1039.6
12.5°	1075.4	1075.4	1077.5	1077.5	1077.5	1079.6	1079.6	1077.5	1079.6	1079.6	1079.6
15°	1126.0	1126.0	1126.0	1126.0	1128.1	1130.2	1128.1	1128.1	1126.0	1126.0	1130.2
17.5°	1185.1	1185.1	1185.1	1185.1	1189.3	1189.3	1187.2	1189.3	1191.4	1191.4	1189.3
20°	1256.8	1254.6	1252.5	1254.6	1258.9	1258.9	1261.0	1263.1	1263.1	1263.1	1267.3
22.5°	1332.7	1330.6	1334.8	1336.9	1339.0	1341.1	1341.1	1343.2	1347.4	1345.3	1351.6
25°	1417.0	1414.9	1417.0	1421.2	1429.7	1429.7	1431.8	1436.0	1436.0	1433.9	1448.6
27.5°	1511.9	1511.9	1514.0	1522.4	1524.5	1526.7	1533.0	1537.2	1543.5	1543.5	1556.2
30°	1615.2	1613.1	1617.3	1625.8	1632.1	1638.4	1646.9	1657.4	1659.5	1661.6	1674.3
32.5°	1720.7	1720.7	1724.9	1739.6	1750.2	1760.7	1773.4	1783.9	1788.1	1788.1	1807.1
35°	1832.4	1834.5	1845.1	1855.6	1876.7	1889.3	1902.0	1916.8	1925.2	1929.4	1954.7
37.5°	1950.5	1956.8	1965.3	1980.0	2001.1	2022.2	2041.2	2064.4	2077.0	2081.2	2108.6
40°	2062.3	2070.7	2083.3	2104.4	2125.5	2155.0	2178.2	2201.4	2216.2	2224.6	2266.8
42.5°	2171.9	2176.1	2190.9	2214.1	2241.5	2268.9	2300.5	2325.8	2340.6	2353.2	2399.6
45°	2258.4	2262.6	2281.6	2309.0	2340.6	2374.3	2406.0	2435.5	2450.2	2460.8	2507.2
47.5°	2330.1	2338.5	2359.6	2387.0	2418.6	2458.7	2494.5	2524.0	2543.0	2549.4	2597.8
50°	2382.8	2395.4	2414.4	2446.0	2484.0	2524.0	2562.0	2593.6	2614.7	2623.2	2667.4
52.5°	2412.3	2422.8	2443.9	2475.5	2519.8	2559.9	2600.0	2631.6	2654.8	2663.2	2703.3
54°	2416.5	2422.8	2446.0	2479.8	2524.0	2566.2	2606.3	2637.9	2661.1	2669.5	2711.7
55°	2412.3	2416.5	2441.8	2473.4	2519.8	2562.0	2602.1	2633.7	2659.0	2667.4	2707.5
57.5°	2370.1	2376.4	2397.5	2431.3	2473.4	2521.9	2559.9	2591.5	2616.8	2621.0	2659.0
60°	2283.7	2292.1	2311.1	2346.9	2389.1	2431.3	2469.2	2496.6	2519.8	2532.5	2559.9
62.5°	2159.3	2163.5	2182.4	2214.1	2252.0	2296.3	2325.8	2353.2	2374.3	2387.0	2410.2
65°	1982.1	2001.1	2015.9	2041.2	2070.7	2106.5	2144.5	2165.6	2176.1	2197.2	2214.1
67.5°	1783.9	1796.6	1811.3	1834.5	1853.5	1876.7	1912.5	1931.5	1944.2	1958.9	1973.7
70°	1562.5	1558.3	1575.2	1587.8	1608.9	1623.7	1646.9	1657.4	1672.2	1680.6	1705.9
72.5°	1298.9	1305.3	1320.0	1334.8	1341.1	1345.3	1364.3	1370.6	1383.3	1379.1	1410.7
75°	1060.6	1050.1	1054.3	1056.4	1060.6	1056.4	1069.1	1075.4	1081.7	1075.4	1092.3
77.5°	801.3	788.6	792.9	790.7	790.7	786.5	784.4	784.4	786.5	782.3	792.9
80°	552.5	546.1	548.2	552.5	541.9	544.0	531.4	531.4	531.4	531.4	535.6
82.5°	341.6	333.2	331.1	333.2	333.2	326.8	328.9	320.5	318.4	316.3	335.3
85°	166.6	162.4	166.6	162.4	160.3	160.3	156.0	158.1	153.9	151.8	164.5
87.5°	44.3	42.2	42.2	42.2	40.1	42.2	42.2	42.2	42.2	44.3	50.6
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°	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0
2.5°	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	972.1
5°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
7.5°	1007.9	1007.9	1005.8	1005.8	1005.8	1005.8	1005.8	1005.8	1005.8
10°	1037.5	1039.6	1035.3	1035.3	1037.5	1035.3	1035.3	1033.2	1033.2
12.5°	1079.6	1077.5	1079.6	1079.6	1077.5	1075.4	1073.3	1071.2	1073.3
15°	1128.1	1126.0	1126.0	1126.0	1123.9	1123.9	1121.8	1123.9	1121.8
17.5°	1187.2	1187.2	1189.3	1182.9	1185.1	1180.8	1180.8	1180.8	1178.7
20°	1263.1	1261.0	1258.9	1252.5	1254.6	1250.4	1248.3	1246.2	1244.1
22.5°	1345.3	1341.1	1339.0	1332.7	1334.8	1330.6	1324.2	1320.0	1320.0
25°	1436.0	1431.8	1427.6	1425.4	1423.3	1414.9	1410.7	1404.4	1408.6
27.5°	1543.5	1535.1	1528.8	1520.3	1522.4	1511.9	1507.7	1503.5	1503.5
30°	1659.5	1653.2	1642.6	1636.3	1634.2	1623.7	1615.2	1611.0	1608.9
32.5°	1786.0	1781.8	1775.5	1764.9	1760.7	1743.8	1737.5	1731.2	1729.1
35°	1935.7	1925.2	1918.9	1904.1	1889.3	1878.8	1864.0	1859.8	1855.6
37.5°	2074.9	2074.9	2064.4	2047.5	2026.4	2011.6	1999.0	1990.6	1984.2
40°	2222.5	2218.3	2201.4	2186.7	2165.6	2144.5	2121.3	2112.9	2108.6
42.5°	2353.2	2344.8	2327.9	2309.0	2287.9	2262.6	2237.3	2224.6	2222.5
45°	2462.9	2452.4	2435.5	2410.2	2382.8	2357.5	2334.3	2321.6	2315.3
47.5°	2551.5	2538.8	2517.7	2494.5	2462.9	2433.4	2410.2	2397.5	2389.1
50°	2616.8	2606.3	2583.1	2553.6	2521.9	2488.2	2465.0	2450.2	2443.9
52.5°	2659.0	2644.2	2618.9	2587.3	2551.5	2517.7	2490.3	2473.4	2467.1
54°	2667.4	2650.6	2623.2	2589.4	2551.5	2515.6	2490.3	2471.3	2465.0
55°	2663.2	2646.3	2616.8	2585.2	2545.1	2509.3	2481.9	2462.9	2456.6
57.5°	2618.9	2600.0	2572.5	2538.8	2496.6	2460.8	2435.5	2414.4	2408.1
60°	2524.0	2507.2	2475.5	2446.0	2403.9	2368.0	2340.6	2319.5	2313.2
62.5°	2378.6	2363.8	2336.4	2306.9	2262.6	2230.9	2203.5	2190.9	2174.0
65°	2184.6	2174.0	2146.6	2110.8	2079.1	2047.5	2020.1	2011.6	2001.1
67.5°	1952.6	1937.8	1927.3	1891.5	1866.1	1836.6	1809.2	1792.3	1788.1
70°	1678.5	1672.2	1661.6	1627.9	1613.1	1587.8	1568.8	1554.1	1549.9
72.5°	1383.3	1376.9	1374.8	1358.0	1339.0	1315.8	1307.4	1294.7	1292.6
75°	1075.4	1071.2	1075.4	1062.8	1056.4	1050.1	1045.9	1045.9	1039.6
77.5°	778.1	784.4	786.5	786.5	790.7	790.7	795.0	788.6	782.3
80°	529.3	535.6	533.5	537.7	535.6	550.4	539.8	548.2	539.8
82.5°	318.4	326.8	326.8	326.8	335.3	333.2	333.2	337.4	335.3
85°	156.0	158.1	156.0	153.9	164.5	162.4	162.4	160.3	162.4
87.5°	46.4	42.2	44.3	40.1	44.3	38.0	42.2	42.2	44.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)