

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: P197747

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10261.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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

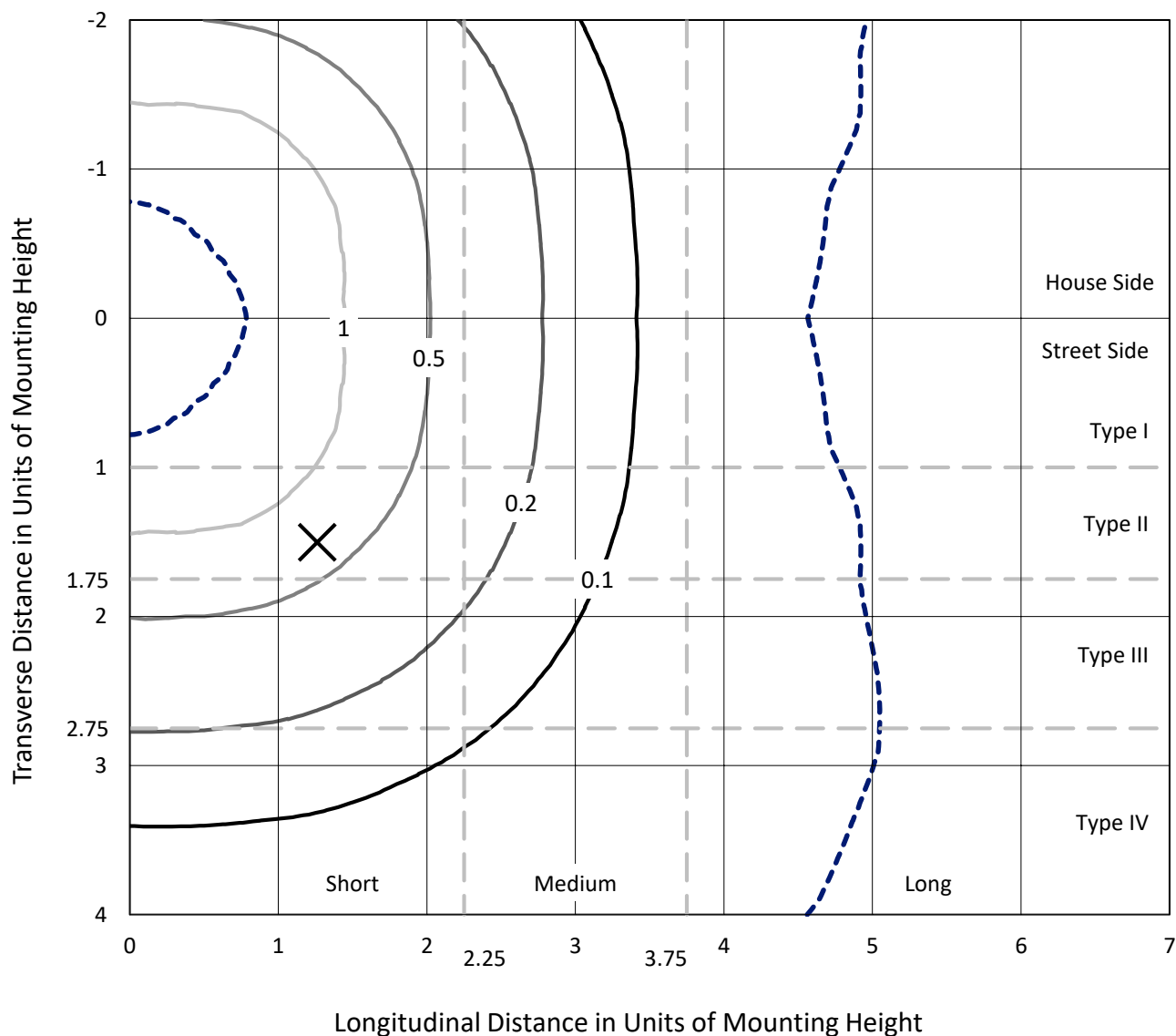


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

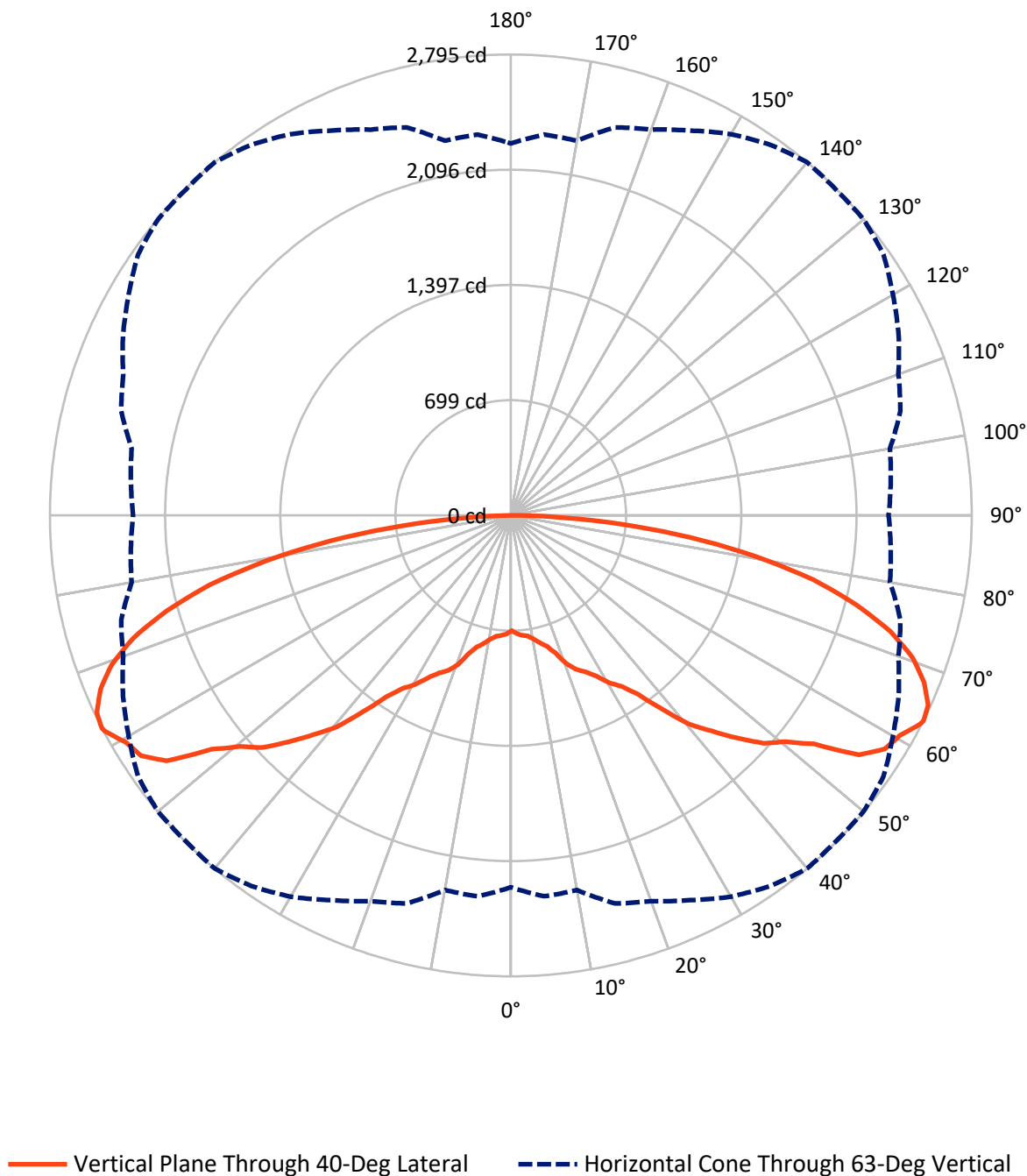


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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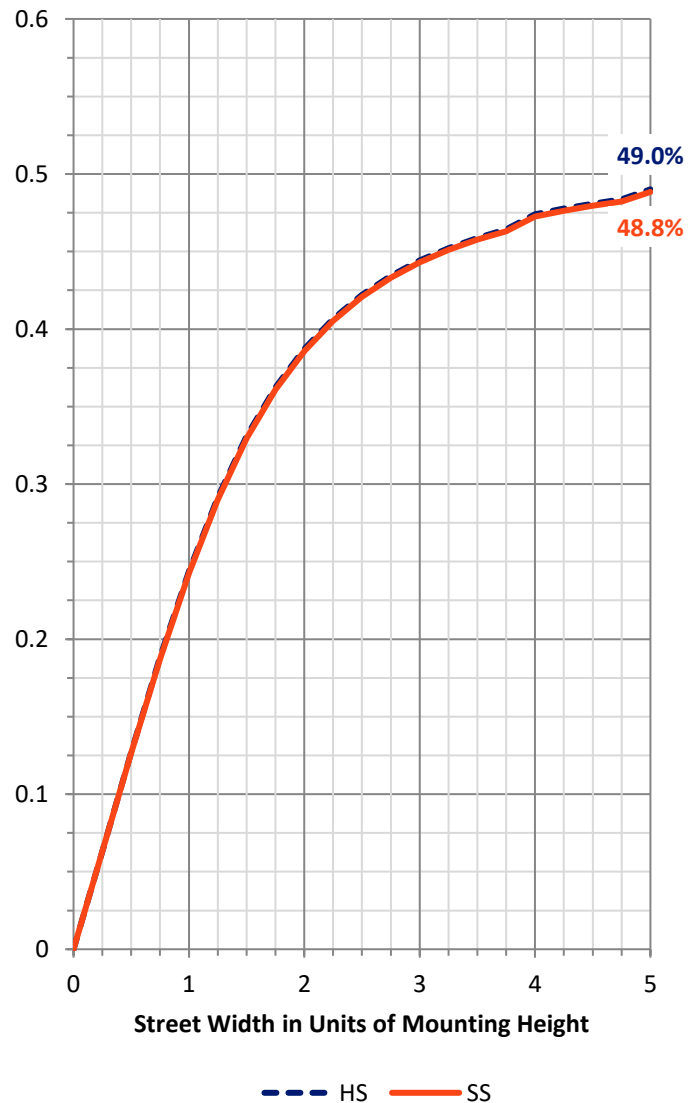
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5130.8	0.0	5130.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5130.8	0.0	5130.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10261.7	0.0	10261.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	0.7
10°-20°	239.7	2.3
20°-30°	487.4	4.7
30°-40°	840.0	8.2
40°-50°	1415.0	13.8
50°-60°	2083.7	20.3
60°-70°	2477.8	24.1
70°-80°	2005.8	19.5
80°-90°	641.7	6.3
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°	10261.7	100.0
0°-180°	10261.7	100.0

Coefficient of Utilization



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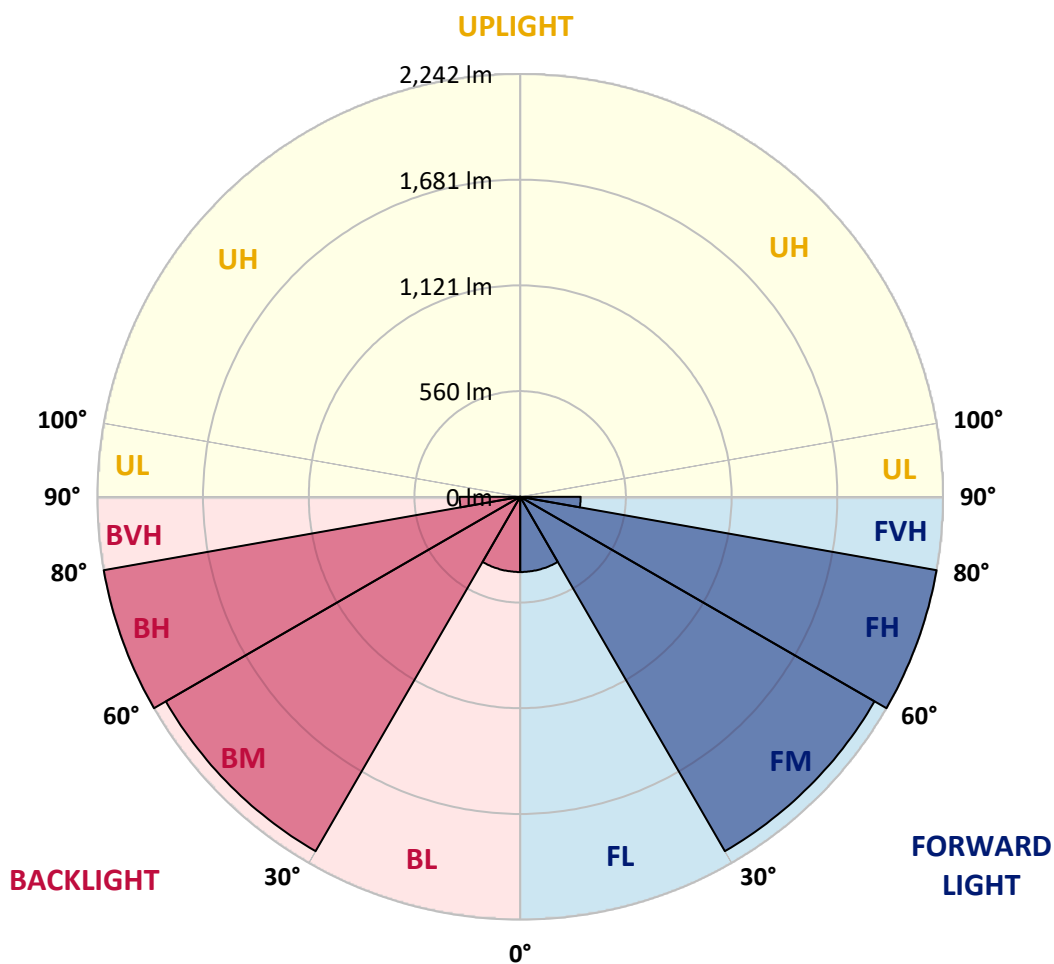
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.8	3.9			
FM	(30°-60°)	2169.3	21.1			
FH	(60°-80°)	2241.8	21.8			G2/5000
FVH	(80°-90°)	320.9	3.1			G3/500
BL	(0°-30°)	398.8	3.9	B1/500		
BM	(30°-60°)	2169.3	21.1	B2/2500		
BH	(60°-80°)	2241.8	21.8	B3/2500		G2/5000
BVH	(80°-90°)	320.9	3.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	720.6	720.6	720.6	720.6	720.6	720.6	718.4	720.6	718.4	718.4	718.4
5°	734.5	734.5	734.5	734.5	732.3	732.3	730.4	730.4	730.4	728.4	730.4
7.5°	740.4	740.4	740.4	740.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
10°	754.3	754.3	756.2	758.2	762.1	762.1	762.1	764.3	762.1	762.1	762.1
12.5°	784.0	782.1	786.0	789.9	794.0	796.0	796.0	796.0	794.0	794.0	796.0
15°	825.8	821.6	823.8	825.8	827.7	829.7	829.7	827.7	823.8	823.8	823.8
17.5°	879.2	873.4	871.4	869.4	869.4	873.4	877.3	875.3	877.3	875.3	877.3
20°	942.9	938.8	938.8	938.8	940.7	948.8	956.8	960.7	958.8	954.6	960.7
22.5°	984.4	986.6	996.4	994.4	992.4	1000.5	1010.3	1018.3	1014.2	1008.3	1012.2
25°	1030.3	1030.3	1043.9	1050.0	1043.9	1043.9	1048.1	1053.9	1050.0	1046.1	1050.0
27.5°	1081.8	1081.8	1087.6	1093.7	1089.8	1089.8	1095.7	1105.7	1103.5	1101.5	1103.5
30°	1143.3	1135.4	1129.3	1139.3	1149.3	1151.3	1157.2	1173.0	1176.9	1175.0	1179.1
32.5°	1200.8	1188.9	1193.0	1198.9	1220.6	1228.7	1226.7	1238.6	1236.5	1230.6	1238.6
35°	1256.5	1270.4	1278.2	1290.2	1298.2	1308.0	1308.0	1329.9	1333.8	1328.0	1333.8
37.5°	1363.6	1369.5	1391.4	1393.4	1403.4	1441.0	1445.1	1474.9	1490.7	1482.7	1484.6
40°	1510.5	1508.5	1524.4	1548.1	1568.1	1615.7	1629.6	1649.4	1663.3	1657.4	1665.2
42.5°	1629.6	1613.7	1625.7	1677.2	1699.1	1734.8	1752.6	1762.6	1788.4	1780.4	1790.4
45°	1715.0	1720.9	1736.7	1788.4	1802.3	1832.1	1873.6	1891.7	1925.3	1915.3	1921.4
47.5°	1798.2	1826.0	1839.9	1863.8	1907.5	1947.1	1998.8	2016.6	2064.2	2060.3	2054.4
50°	1907.5	1929.2	1945.1	1962.9	2022.7	2088.1	2131.8	2139.6	2155.5	2143.7	2163.5
52.5°	2024.6	2022.7	2036.4	2086.1	2169.4	2195.2	2233.0	2268.7	2302.4	2314.3	2302.4
55°	2179.4	2129.8	2187.4	2258.7	2294.5	2356.0	2447.3	2497.1	2562.5	2572.5	2552.5
57.5°	2242.8	2242.8	2302.4	2344.1	2409.7	2518.8	2616.2	2639.8	2673.5	2655.7	2675.7
60°	2235.0	2310.4	2310.4	2383.9	2491.0	2588.3	2624.0	2663.7	2709.4	2707.4	2707.4
62.5°	2245.0	2318.2	2298.5	2425.6	2491.0	2570.3	2649.8	2723.3	2786.7	2784.8	2782.8
63°	2254.8	2318.2	2306.5	2435.4	2489.0	2574.4	2669.6	2743.1	2794.8	2790.7	2792.6
65°	2284.5	2266.7	2338.2	2419.5	2481.0	2608.1	2687.4	2745.0	2780.9	2778.9	2778.9
67.5°	2228.9	2187.4	2288.5	2320.4	2437.5	2550.5	2612.0	2677.7	2703.3	2703.3	2699.4
70°	2058.3	2076.1	2145.7	2197.2	2316.3	2417.5	2469.3	2552.5	2584.2	2584.2	2582.3
72.5°	1885.6	1915.3	1962.9	2036.4	2149.6	2228.9	2290.6	2366.0	2407.5	2405.6	2405.6
75°	1665.2	1693.0	1748.7	1818.2	1917.3	1994.9	2044.4	2115.9	2163.5	2181.3	2161.6
77.5°	1417.3	1425.1	1476.8	1548.1	1635.5	1689.1	1764.5	1834.1	1873.6	1871.7	1865.8
80°	1115.4	1125.4	1169.1	1250.4	1298.2	1361.6	1431.2	1468.8	1502.5	1502.5	1498.5
82.5°	770.1	791.9	835.5	889.2	938.8	994.4	1032.2	1069.8	1097.6	1095.7	1089.8
85°	434.6	444.6	486.3	520.0	557.8	593.5	619.3	643.0	666.9	666.9	663.0
87.5°	131.0	117.1	141.0	154.7	174.7	192.5	204.5	228.2	244.0	226.2	226.2
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°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6
5°	730.4	732.3	732.3	734.5	734.5	734.5	734.5	734.5
7.5°	738.4	738.4	738.4	738.4	740.4	740.4	740.4	740.4
10°	762.1	764.3	762.1	762.1	758.2	756.2	756.2	756.2
12.5°	796.0	798.0	798.0	794.0	789.9	786.0	784.0	782.1
15°	827.7	833.6	829.7	827.7	823.8	825.8	825.8	827.7
17.5°	877.3	879.2	873.4	869.4	867.5	871.4	875.3	877.3
20°	962.7	958.8	946.8	942.9	938.8	938.8	942.9	942.9
22.5°	1016.3	1006.3	998.3	994.4	994.4	994.4	988.5	980.5
25°	1053.9	1048.1	1042.0	1046.1	1050.0	1043.9	1030.3	1028.1
27.5°	1105.7	1093.7	1091.7	1089.8	1091.7	1087.6	1085.7	1077.8
30°	1173.0	1157.2	1153.2	1149.3	1137.4	1133.3	1137.4	1143.3
32.5°	1236.5	1226.7	1230.6	1222.8	1200.8	1193.0	1196.9	1195.0
35°	1328.0	1309.9	1309.9	1294.1	1288.2	1286.2	1270.4	1256.5
37.5°	1472.7	1449.0	1442.9	1407.3	1391.4	1395.3	1373.6	1357.7
40°	1649.4	1631.5	1615.7	1575.9	1554.2	1526.4	1512.5	1512.5
42.5°	1766.5	1754.5	1732.8	1705.0	1681.1	1633.5	1615.7	1625.7
45°	1895.6	1879.7	1834.1	1806.3	1784.3	1750.6	1730.8	1710.9
47.5°	2026.6	2004.7	1951.2	1915.3	1863.8	1853.8	1832.1	1804.3
50°	2141.8	2133.7	2095.9	2036.4	1971.0	1955.1	1935.3	1909.5
52.5°	2282.6	2235.0	2203.3	2177.4	2104.0	2052.5	2024.6	2036.4
55°	2512.9	2453.4	2371.9	2290.6	2274.8	2213.1	2143.7	2181.3
57.5°	2645.9	2612.0	2550.5	2421.4	2358.0	2316.3	2270.6	2237.0
60°	2677.7	2616.2	2602.2	2504.9	2403.6	2316.3	2334.3	2254.8
62.5°	2739.2	2655.7	2578.3	2501.0	2439.5	2320.4	2316.3	2274.8
63°	2758.9	2675.7	2594.2	2501.0	2445.4	2334.3	2312.4	2290.6
65°	2755.0	2683.5	2622.0	2501.0	2417.5	2373.9	2266.7	2316.3
67.5°	2679.6	2620.1	2548.6	2465.1	2326.3	2292.6	2217.2	2227.0
70°	2558.6	2481.0	2413.6	2336.3	2225.0	2147.6	2102.0	2064.2
72.5°	2369.9	2300.4	2228.9	2157.6	2058.3	1965.1	1933.2	1891.7
75°	2119.8	2052.5	1986.8	1919.5	1826.0	1742.8	1708.9	1679.1
77.5°	1834.1	1776.5	1683.3	1619.6	1566.1	1476.8	1445.1	1413.1
80°	1462.9	1435.1	1367.5	1284.3	1256.5	1169.1	1145.2	1103.5
82.5°	1063.9	1036.1	982.4	924.9	891.2	845.5	805.8	778.2
85°	649.1	619.3	591.5	539.8	520.0	486.3	454.6	438.7
87.5°	234.3	210.4	188.6	164.7	152.8	129.1	125.0	113.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)