

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: P197939

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
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-SG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10623.9 lumens
Efficiency: N/A
Efficacy: 98.4 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

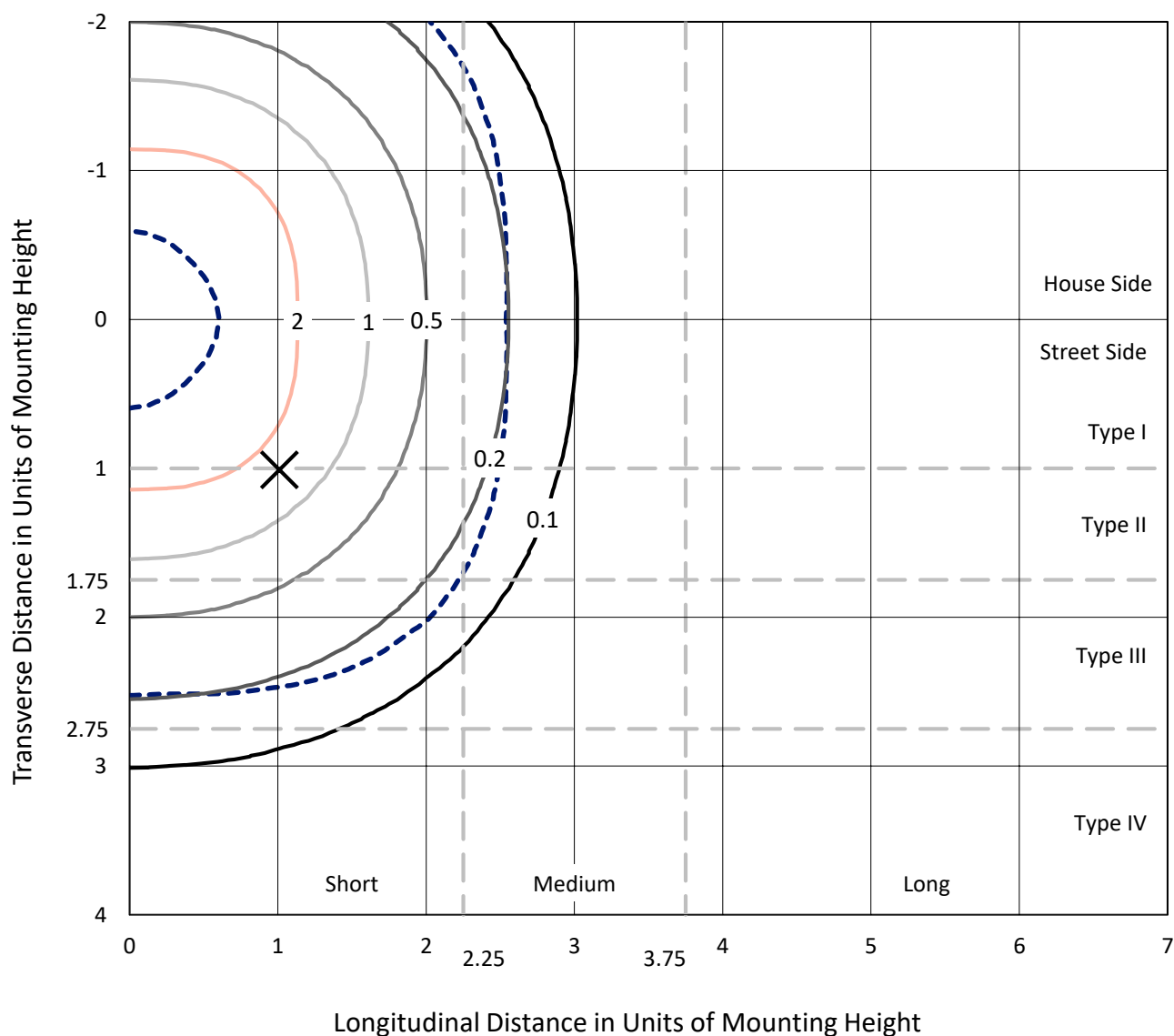


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

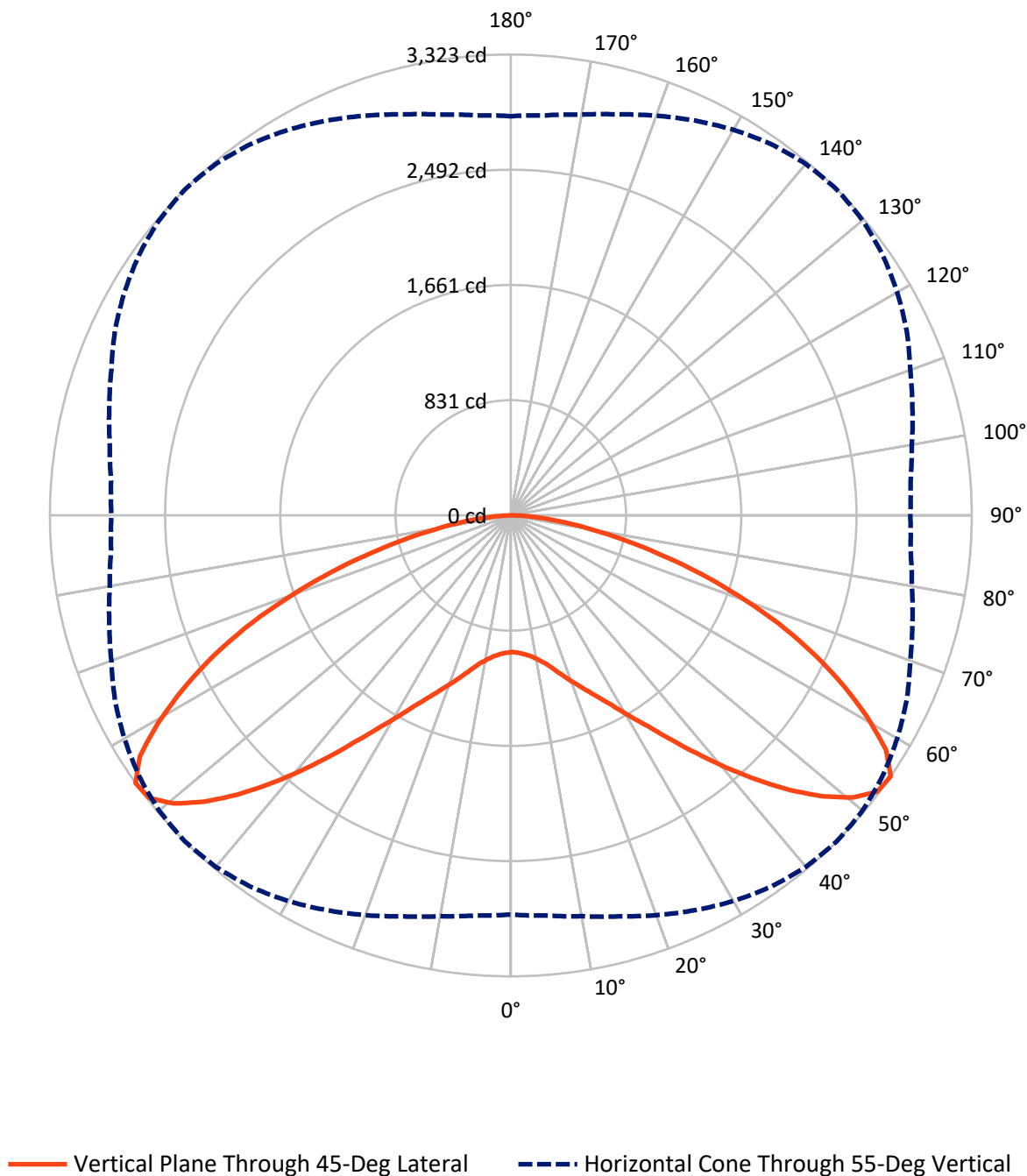


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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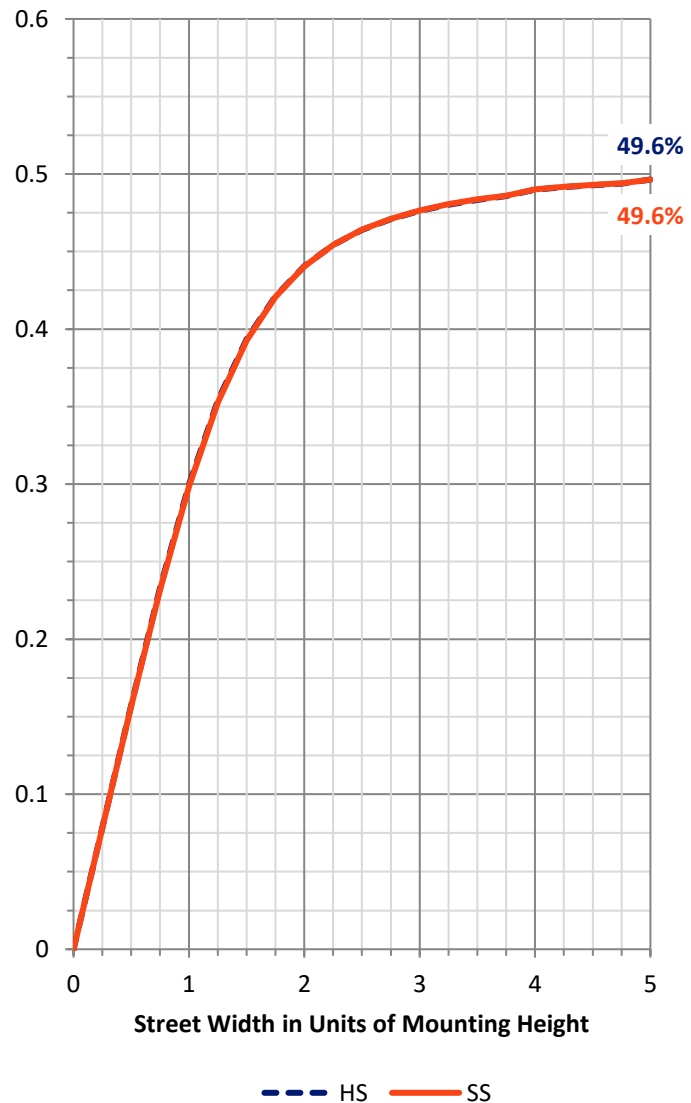
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5311.9	0.0	5311.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5311.9	0.0	5311.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	10623.9	0.0	10623.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	0.9
10°-20°	329.8	3.1
20°-30°	671.6	6.3
30°-40°	1226.4	11.5
40°-50°	2082.4	19.6
50°-60°	2712.0	25.5
60°-70°	2193.4	20.6
70°-80°	1077.8	10.1
80°-90°	233.3	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°	10623.9	100.0
0°-180°	10623.9	100.0

Coefficient of Utilization



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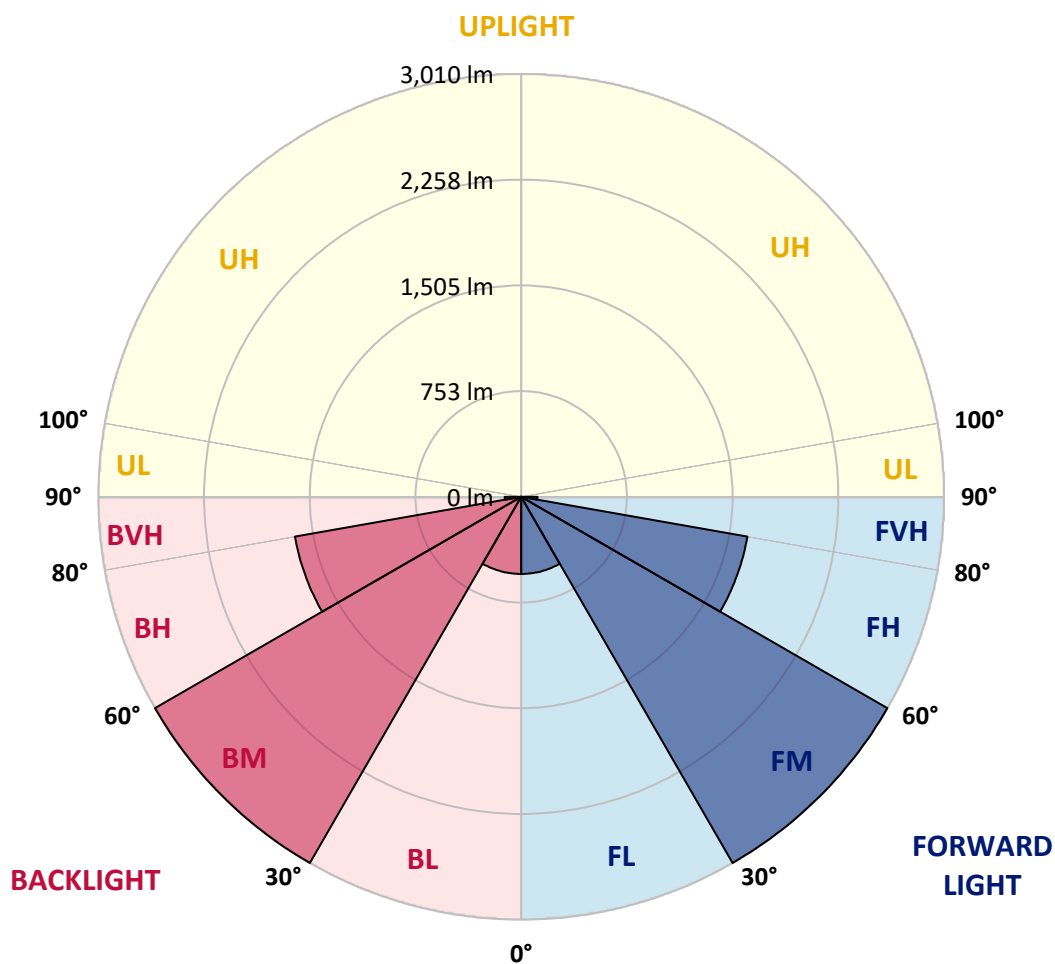
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.3	5.2			
FM	(30°-60°)	3010.4	28.3			
FH	(60°-80°)	1635.6	15.4			G1/1800
FVH	(80°-90°)	116.6	1.1			G2/225
BL	(0°-30°)	549.3	5.2	B2/1000		
BM	(30°-60°)	3010.4	28.3	B3/5000		
BH	(60°-80°)	1635.6	15.4	B3/2500		G1/1800
BVH	(80°-90°)	116.6	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°	50°
0°	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4
2.5°	988.7	988.7	988.7	988.7	988.7	988.7	990.9	990.9	990.9	990.9	990.9
5°	1001.8	1001.8	1001.8	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0
7.5°	1021.3	1019.2	1021.3	1021.3	1021.3	1023.5	1023.5	1021.3	1023.5	1023.5	1023.5
10°	1049.6	1047.4	1049.6	1049.6	1049.6	1051.8	1051.8	1051.8	1051.8	1053.9	1053.9
12.5°	1090.9	1088.7	1090.9	1093.1	1090.9	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1
15°	1143.0	1140.9	1143.0	1145.2	1143.0	1147.4	1147.4	1145.2	1145.2	1147.4	1147.4
17.5°	1206.1	1201.7	1203.9	1206.1	1206.1	1210.4	1210.4	1208.2	1210.4	1212.6	1210.4
20°	1271.2	1266.9	1269.1	1275.6	1275.6	1277.8	1282.1	1279.9	1282.1	1284.3	1282.1
22.5°	1343.0	1340.8	1343.0	1349.5	1349.5	1351.6	1358.2	1358.2	1358.2	1360.3	1358.2
25°	1421.2	1419.0	1421.2	1427.7	1427.7	1432.1	1440.7	1440.7	1442.9	1445.1	1442.9
27.5°	1512.5	1510.3	1514.6	1521.1	1523.3	1529.8	1540.7	1542.9	1545.1	1547.2	1542.9
30°	1618.9	1614.6	1621.1	1632.0	1636.3	1645.0	1658.0	1662.4	1664.6	1671.1	1666.7
32.5°	1740.6	1736.3	1745.0	1758.0	1764.5	1777.6	1795.0	1799.3	1805.8	1810.2	1803.6
35°	1884.0	1881.9	1890.6	1910.1	1921.0	1936.2	1960.1	1966.6	1971.0	1979.7	1971.0
37.5°	2042.7	2040.5	2055.7	2077.5	2097.0	2120.9	2147.0	2157.9	2164.4	2175.2	2164.4
40°	2218.7	2216.5	2236.1	2262.2	2286.1	2316.5	2349.1	2364.3	2377.3	2388.2	2375.2
42.5°	2399.1	2399.1	2423.0	2451.2	2486.0	2522.9	2559.9	2577.3	2599.0	2605.5	2590.3
45°	2572.9	2575.1	2599.0	2633.8	2683.7	2731.5	2772.8	2794.6	2818.5	2825.0	2805.4
47.5°	2738.1	2740.2	2762.0	2807.6	2864.1	2918.4	2968.4	2998.8	3022.7	3024.9	3009.7
50°	2872.8	2881.5	2909.7	2951.0	3009.7	3066.2	3127.0	3166.2	3190.1	3196.6	3181.4
52.5°	2924.9	2940.2	2972.8	3024.9	3092.3	3150.9	3218.3	3268.3	3296.5	3307.4	3294.4
55°	2877.1	2894.5	2933.6	2992.3	3066.2	3140.1	3209.6	3268.3	3307.4	3322.6	3309.6
57.5°	2770.7	2772.8	2811.9	2870.6	2938.0	3014.0	3081.4	3135.7	3172.7	3187.9	3185.7
60°	2585.9	2585.9	2622.9	2679.4	2731.5	2809.8	2866.3	2907.6	2933.6	2951.0	2946.7
62.5°	2338.2	2338.2	2370.8	2429.5	2481.6	2549.0	2603.3	2646.8	2664.2	2683.7	2688.1
65°	2062.2	2062.2	2092.7	2151.3	2199.1	2260.0	2312.1	2353.4	2370.8	2394.7	2390.4
67.5°	1768.9	1766.7	1795.0	1844.9	1890.6	1947.1	1997.0	2036.2	2055.7	2084.0	2064.4
70°	1466.8	1466.8	1490.7	1529.8	1562.4	1618.9	1666.7	1705.9	1721.1	1745.0	1734.1
72.5°	1180.0	1177.8	1197.4	1227.8	1253.9	1303.8	1332.1	1375.6	1388.6	1421.2	1403.8
75°	921.4	917.0	932.2	954.0	971.4	1004.0	1025.7	1060.5	1071.3	1093.1	1084.4
77.5°	693.2	691.0	697.6	712.8	725.8	751.9	760.6	778.0	786.6	808.4	791.0
80°	497.6	491.1	497.6	506.3	510.7	530.2	532.4	538.9	543.3	558.5	541.1
82.5°	334.7	326.0	330.3	336.8	336.8	347.7	349.9	347.7	356.4	360.7	352.0
85°	191.2	184.7	186.9	191.2	189.1	195.6	195.6	193.4	199.9	199.9	195.6
87.5°	63.0	58.7	60.8	63.0	63.0	65.2	67.4	65.2	69.5	69.5	65.2
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°	984.4	984.4	984.4	984.4	984.4	984.4	984.4	984.4
2.5°	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9
5°	1004.0	1004.0	1004.0	1004.0	1004.0	1001.8	1001.8	1001.8
7.5°	1023.5	1023.5	1023.5	1023.5	1023.5	1021.3	1021.3	1021.3
10°	1053.9	1051.8	1051.8	1051.8	1051.8	1049.6	1051.8	1049.6
12.5°	1093.1	1095.2	1095.2	1093.1	1095.2	1090.9	1090.9	1090.9
15°	1147.4	1145.2	1145.2	1145.2	1145.2	1143.0	1143.0	1143.0
17.5°	1208.2	1208.2	1206.1	1206.1	1203.9	1201.7	1201.7	1201.7
20°	1279.9	1277.8	1275.6	1273.4	1271.2	1266.9	1264.7	1264.7
22.5°	1353.8	1351.6	1349.5	1347.3	1345.1	1340.8	1336.4	1336.4
25°	1436.4	1432.1	1429.9	1425.5	1421.2	1416.8	1414.7	1412.5
27.5°	1536.4	1532.0	1525.5	1519.0	1510.3	1508.1	1503.8	1503.8
30°	1655.9	1649.4	1640.7	1629.8	1621.1	1612.4	1608.1	1605.9
32.5°	1795.0	1786.3	1771.0	1758.0	1742.8	1734.1	1727.6	1723.2
35°	1957.9	1944.9	1927.5	1908.0	1888.4	1873.2	1862.3	1862.3
37.5°	2149.2	2129.6	2103.5	2079.6	2051.4	2034.0	2021.0	2012.3
40°	2357.8	2329.5	2296.9	2266.5	2233.9	2210.0	2190.5	2192.6
42.5°	2564.2	2540.3	2501.2	2464.3	2423.0	2390.4	2366.5	2364.3
45°	2781.5	2751.1	2703.3	2655.5	2607.7	2568.6	2540.3	2536.0
47.5°	2983.6	2951.0	2894.5	2835.9	2783.7	2740.2	2709.8	2705.5
50°	3148.8	3109.7	3051.0	2988.0	2931.5	2883.7	2851.1	2842.4
52.5°	3255.3	3211.8	3148.8	3072.7	3011.9	2957.5	2918.4	2907.6
55°	3272.6	3216.1	3148.8	3064.0	2996.7	2935.8	2892.4	2879.3
57.5°	3153.1	3092.3	3031.4	2957.5	2890.2	2825.0	2790.2	2772.8
60°	2920.6	2872.8	2822.8	2755.4	2701.1	2640.3	2612.0	2603.3
62.5°	2653.3	2612.0	2566.4	2496.9	2451.2	2396.9	2370.8	2359.9
65°	2366.5	2318.7	2275.2	2218.7	2168.7	2123.1	2086.1	2081.8
67.5°	2049.2	1999.2	1962.3	1912.3	1862.3	1818.9	1795.0	1781.9
70°	1714.5	1673.3	1636.3	1582.0	1549.4	1508.1	1490.7	1477.7
72.5°	1382.1	1358.2	1312.5	1277.8	1240.8	1208.2	1197.4	1184.3
75°	1069.1	1040.9	1006.1	984.4	956.1	938.8	930.1	921.4
77.5°	784.5	760.6	741.0	732.3	719.3	701.9	695.4	688.9
80°	543.3	532.4	519.4	517.2	508.5	495.5	493.3	491.1
82.5°	352.0	345.5	341.2	341.2	336.8	328.1	326.0	326.0
85°	195.6	193.4	195.6	193.4	189.1	184.7	184.7	184.7
87.5°	65.2	65.2	67.4	69.5	63.0	63.0	60.8	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)