

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: P197556

Luminaire Tested: **TT-C6-LED-E1-CQ-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-CQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11975.1 lumens
Efficiency: N/A
Efficacy: 110.9 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

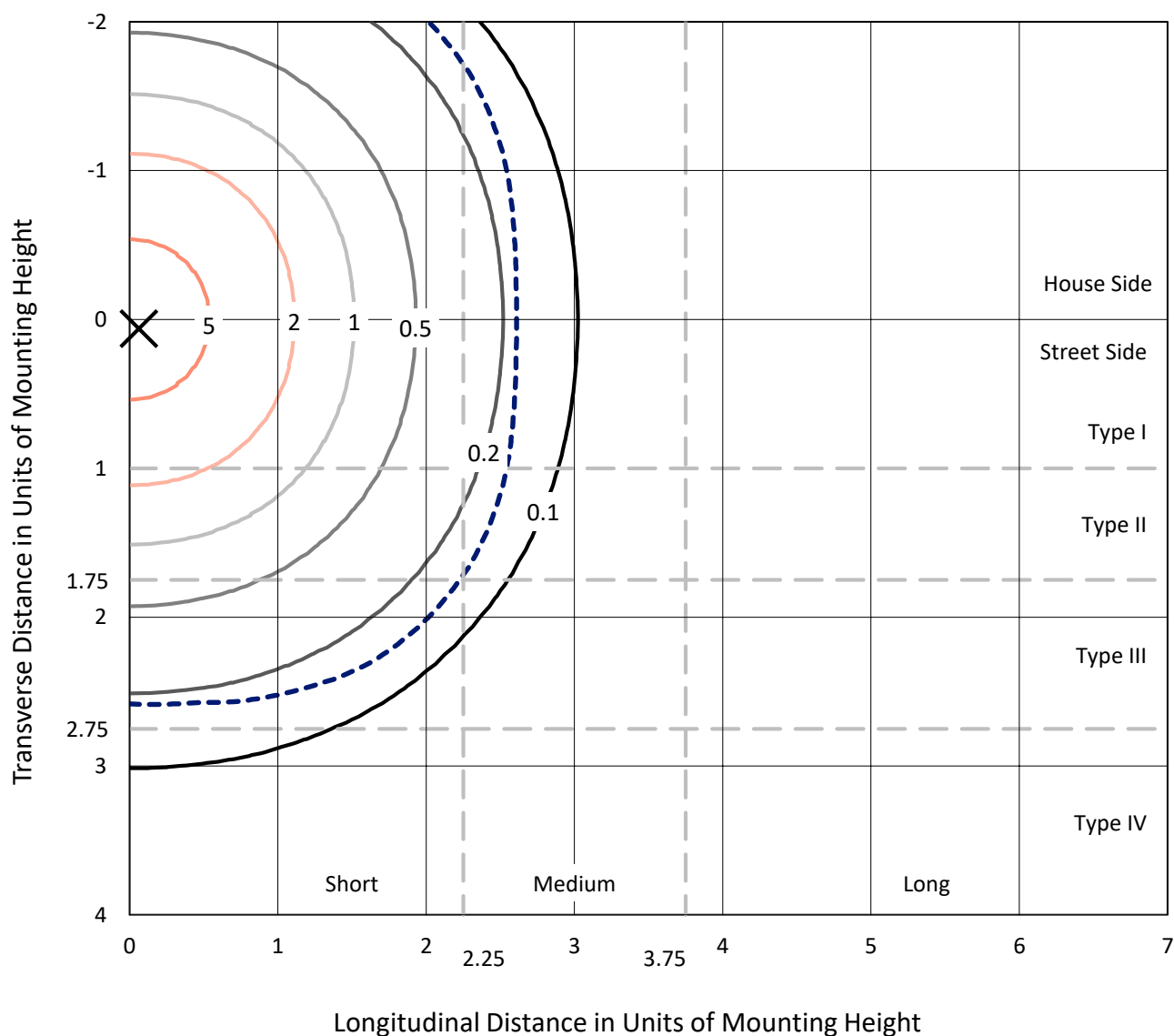


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

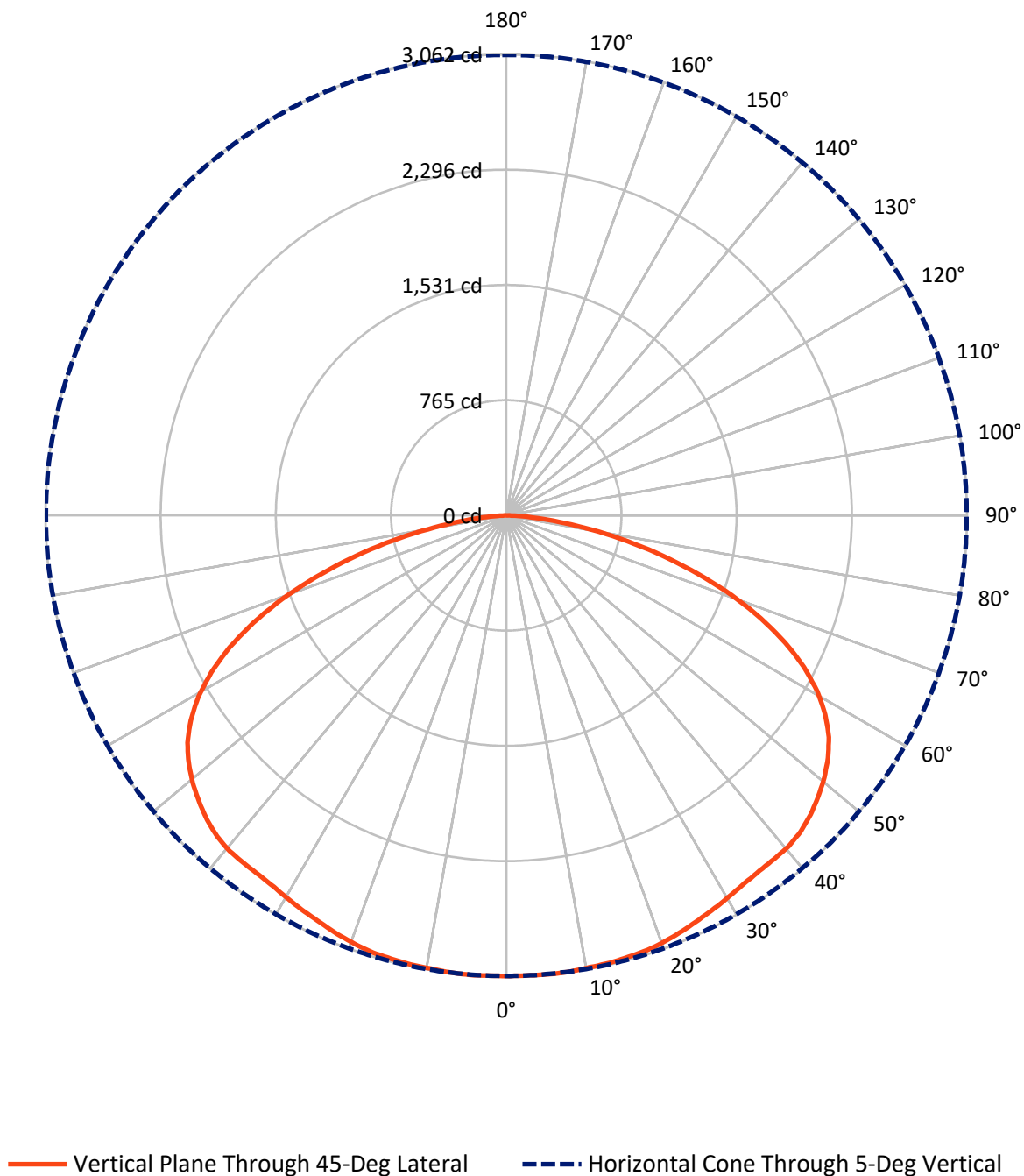


Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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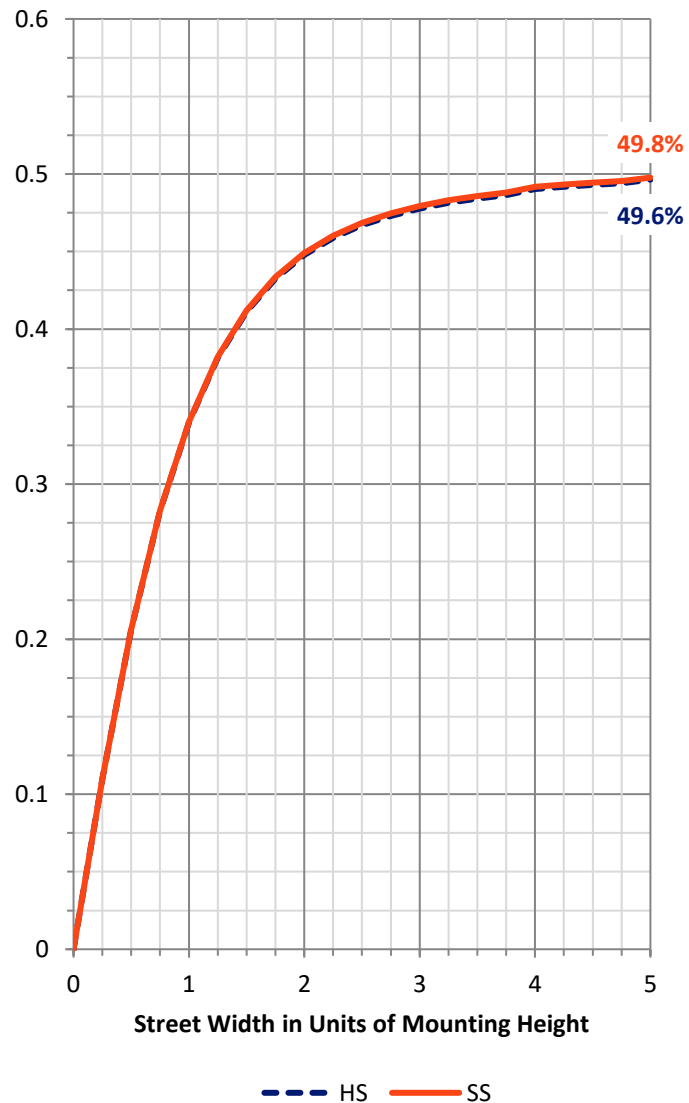
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5987.6	0.0	5987.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5987.6	0.0	5987.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11975.1	0.0	11975.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	2.4
10°-20°	860.7	7.2
20°-30°	1373.5	11.5
30°-40°	1809.2	15.1
40°-50°	2152.1	18.0
50°-60°	2252.3	18.8
60°-70°	1915.4	16.0
70°-80°	1088.5	9.1
80°-90°	231.5	1.9
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°	11975.1	100.0
0°-180°	11975.1	100.0

Coefficient of Utilization



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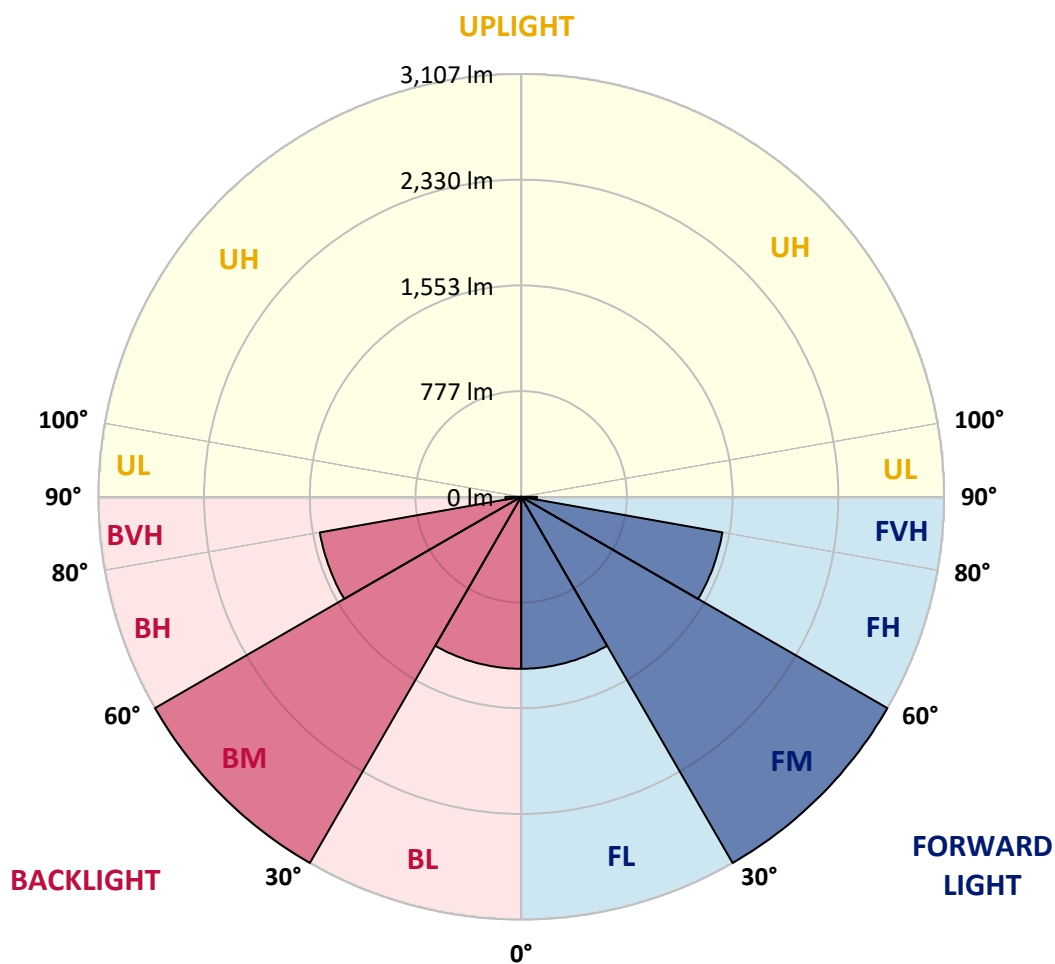
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.0	10.5			
FM	(30°-60°)	3106.8	25.9			
FH	(60°-80°)	1502.0	12.5			G1/1800
FVH	(80°-90°)	115.7	1.0			G2/225
BL	(0°-30°)	1263.0	10.5	B3/2500		
BM	(30°-60°)	3106.8	25.9	B3/5000		
BH	(60°-80°)	1502.0	12.5	B3/2500		G1/1800
BVH	(80°-90°)	115.7	1.0			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°	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6
2.5°	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6
5°	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3061.9	3059.6
7.5°	3057.2	3057.2	3057.2	3057.2	3059.6	3057.2	3057.2	3059.6	3059.6	3059.6	3059.6
10°	3052.5	3050.1	3050.1	3052.5	3052.5	3052.5	3052.5	3052.5	3054.8	3052.5	3052.5
12.5°	3045.4	3043.0	3045.4	3045.4	3045.4	3047.8	3047.8	3047.8	3050.1	3050.1	3047.8
15°	3038.3	3038.3	3038.3	3038.3	3038.3	3040.7	3040.7	3043.0	3043.0	3043.0	3043.0
17.5°	3028.9	3028.9	3028.9	3031.2	3031.2	3033.6	3033.6	3033.6	3035.9	3035.9	3035.9
20°	3012.3	3010.0	3012.3	3012.3	3014.7	3017.1	3017.1	3019.4	3019.4	3019.4	3019.4
22.5°	2988.7	2988.7	2991.1	2991.1	2993.5	2995.8	2995.8	2998.2	2998.2	2998.2	2998.2
25°	2965.1	2967.5	2967.5	2969.8	2969.8	2972.2	2974.6	2974.6	2974.6	2974.6	2974.6
27.5°	2941.5	2943.9	2943.9	2943.9	2946.2	2948.6	2951.0	2953.3	2955.7	2953.3	2953.3
30°	2915.6	2915.6	2917.9	2920.3	2922.6	2925.0	2929.7	2932.1	2934.4	2932.1	2932.1
32.5°	2887.2	2889.6	2891.9	2894.3	2899.0	2903.7	2908.5	2910.8	2913.2	2910.8	2910.8
35°	2866.0	2866.0	2870.7	2875.4	2880.1	2887.2	2891.9	2896.7	2901.4	2899.0	2896.7
37.5°	2844.7	2844.7	2849.4	2856.5	2866.0	2875.4	2884.9	2891.9	2894.3	2894.3	2891.9
40°	2818.8	2821.1	2825.8	2837.6	2851.8	2863.6	2875.4	2884.9	2889.6	2889.6	2884.9
42.5°	2790.4	2792.8	2799.9	2811.7	2828.2	2842.4	2856.5	2863.6	2870.7	2870.7	2866.0
45°	2750.3	2752.7	2762.1	2773.9	2790.4	2804.6	2821.1	2828.2	2837.6	2835.3	2832.9
47.5°	2698.4	2700.7	2710.2	2722.0	2738.5	2755.0	2771.5	2783.3	2790.4	2790.4	2788.1
50°	2634.6	2637.0	2646.4	2658.2	2679.5	2698.4	2714.9	2726.7	2738.5	2738.5	2736.1
52.5°	2554.4	2559.1	2566.2	2582.7	2606.3	2627.5	2648.8	2667.7	2674.8	2677.1	2674.8
55°	2455.2	2459.9	2469.4	2488.3	2514.2	2540.2	2563.8	2585.0	2594.5	2601.6	2596.8
57.5°	2339.5	2344.2	2356.0	2377.3	2405.6	2431.6	2462.3	2485.9	2493.0	2500.1	2497.7
60°	2202.6	2209.7	2221.5	2245.1	2273.4	2301.8	2330.1	2358.4	2365.5	2374.9	2370.2
62.5°	2042.1	2049.1	2061.0	2086.9	2117.6	2143.6	2176.6	2202.6	2209.7	2219.1	2216.8
65°	1857.9	1865.0	1876.8	1905.1	1933.5	1961.8	1992.5	2020.8	2027.9	2037.3	2035.0
67.5°	1647.8	1654.9	1666.7	1699.8	1728.1	1756.4	1782.4	1810.7	1815.4	1824.9	1822.5
70°	1425.9	1435.3	1444.8	1475.5	1501.4	1525.1	1553.4	1577.0	1586.4	1591.2	1586.4
72.5°	1204.0	1211.1	1220.5	1241.8	1260.7	1281.9	1310.2	1326.8	1333.8	1336.2	1336.2
75°	975.0	982.1	982.1	1005.7	1019.9	1031.7	1055.3	1067.1	1071.8	1076.5	1076.5
77.5°	757.8	753.1	757.8	767.3	776.7	786.1	800.3	807.4	812.1	821.5	816.8
80°	531.2	533.5	535.9	543.0	547.7	550.1	559.5	561.9	564.2	573.7	568.9
82.5°	342.3	337.6	342.3	340.0	344.7	337.6	342.3	349.4	344.7	349.4	351.8
85°	179.4	172.3	172.3	174.7	177.1	172.3	174.7	172.3	172.3	177.1	174.7
87.5°	56.7	54.3	56.7	54.3	56.7	54.3	56.7	59.0	56.7	56.7	59.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6
2.5°	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6
5°	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6	3059.6
7.5°	3057.2	3057.2	3057.2	3057.2	3057.2	3057.2	3054.8	3057.2
10°	3052.5	3052.5	3052.5	3052.5	3050.1	3050.1	3050.1	3050.1
12.5°	3047.8	3047.8	3045.4	3045.4	3045.4	3045.4	3043.0	3043.0
15°	3043.0	3040.7	3040.7	3038.3	3038.3	3038.3	3035.9	3038.3
17.5°	3035.9	3033.6	3033.6	3031.2	3031.2	3028.9	3028.9	3028.9
20°	3019.4	3017.1	3017.1	3014.7	3014.7	3012.3	3010.0	3010.0
22.5°	2995.8	2995.8	2995.8	2993.5	2991.1	2991.1	2988.7	2988.7
25°	2974.6	2972.2	2972.2	2969.8	2967.5	2967.5	2965.1	2965.1
27.5°	2953.3	2951.0	2948.6	2943.9	2943.9	2941.5	2939.2	2936.8
30°	2929.7	2925.0	2920.3	2917.9	2915.6	2910.8	2908.5	2906.1
32.5°	2906.1	2901.4	2896.7	2891.9	2884.9	2882.5	2877.8	2877.8
35°	2891.9	2884.9	2877.8	2868.3	2861.3	2854.2	2849.4	2847.1
37.5°	2884.9	2875.4	2863.6	2851.8	2840.0	2830.6	2823.5	2823.5
40°	2875.4	2863.6	2849.4	2832.9	2818.8	2807.0	2799.9	2797.5
42.5°	2856.5	2844.7	2825.8	2811.7	2792.8	2781.0	2771.5	2769.2
45°	2823.5	2811.7	2795.2	2776.3	2757.4	2743.2	2733.8	2731.4
47.5°	2781.0	2766.8	2747.9	2729.0	2710.2	2693.6	2684.2	2681.8
50°	2726.7	2712.5	2693.6	2674.8	2653.5	2637.0	2625.2	2625.2
52.5°	2665.3	2648.8	2627.5	2606.3	2582.7	2566.2	2554.4	2552.0
55°	2585.0	2566.2	2544.9	2521.3	2495.3	2476.4	2462.3	2459.9
57.5°	2485.9	2464.6	2441.0	2415.1	2389.1	2367.9	2351.3	2349.0
60°	2360.8	2337.2	2313.6	2287.6	2259.3	2235.6	2219.1	2214.4
62.5°	2207.3	2181.4	2155.4	2131.8	2101.1	2077.5	2061.0	2056.2
65°	2025.5	2004.3	1978.3	1950.0	1916.9	1893.3	1876.8	1874.5
67.5°	1813.1	1791.8	1765.9	1739.9	1706.8	1685.6	1669.1	1664.3
70°	1579.4	1560.5	1539.2	1513.3	1484.9	1463.7	1447.2	1444.8
72.5°	1331.5	1314.9	1296.1	1277.2	1248.8	1232.3	1218.2	1215.8
75°	1076.5	1060.0	1045.8	1031.7	1010.4	998.6	984.4	984.4
77.5°	816.8	812.1	802.7	786.1	774.3	764.9	757.8	753.1
80°	571.3	566.6	561.9	552.4	545.3	543.0	538.3	533.5
82.5°	349.4	347.0	349.4	344.7	342.3	342.3	340.0	335.2
85°	177.1	179.4	177.1	174.7	174.7	174.7	174.7	172.3
87.5°	56.7	59.0	56.7	54.3	54.3	54.3	54.3	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)