

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: P197532

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11219.8 lumens
Efficiency: N/A
Efficacy: 103.9 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): 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

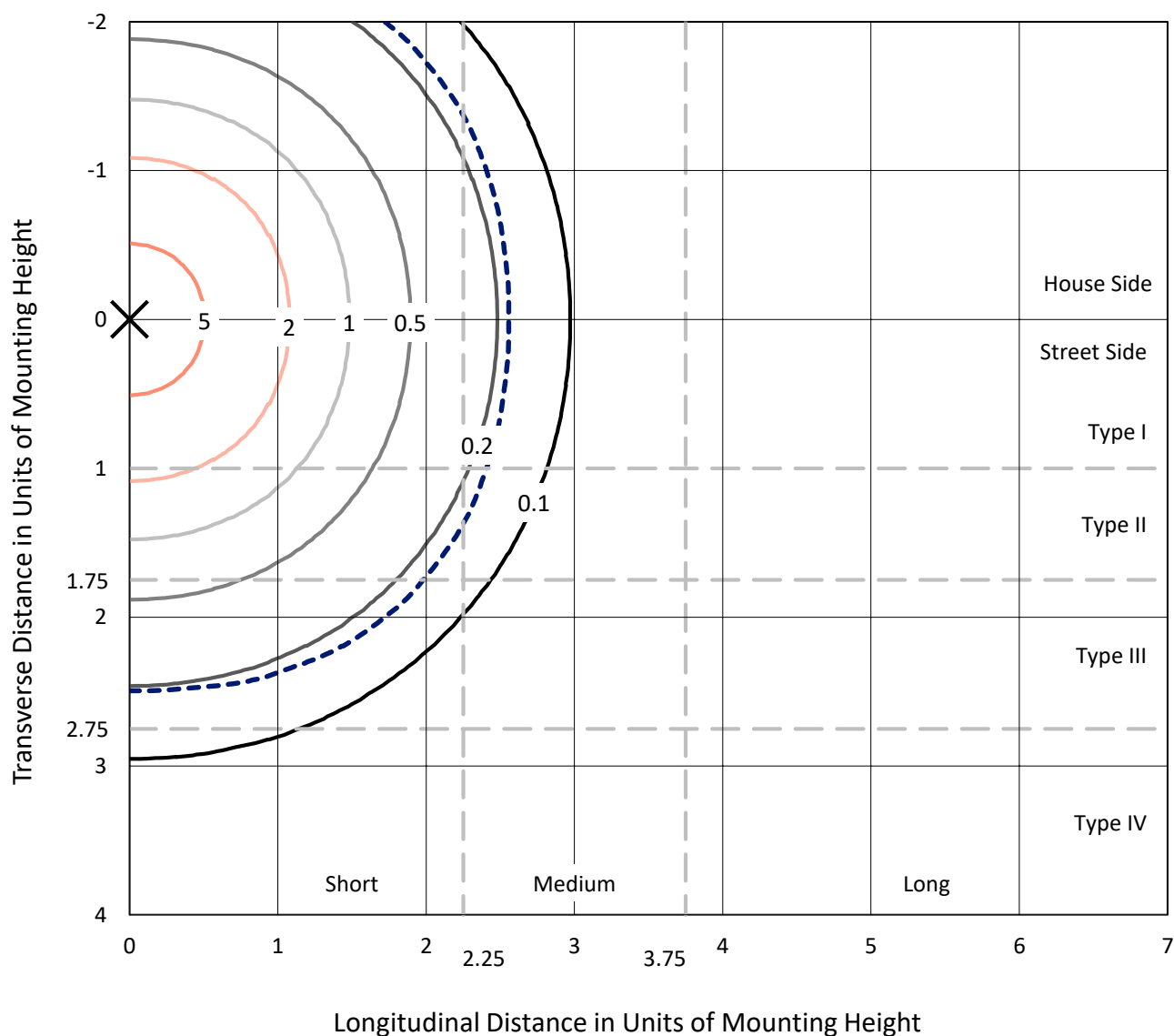


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

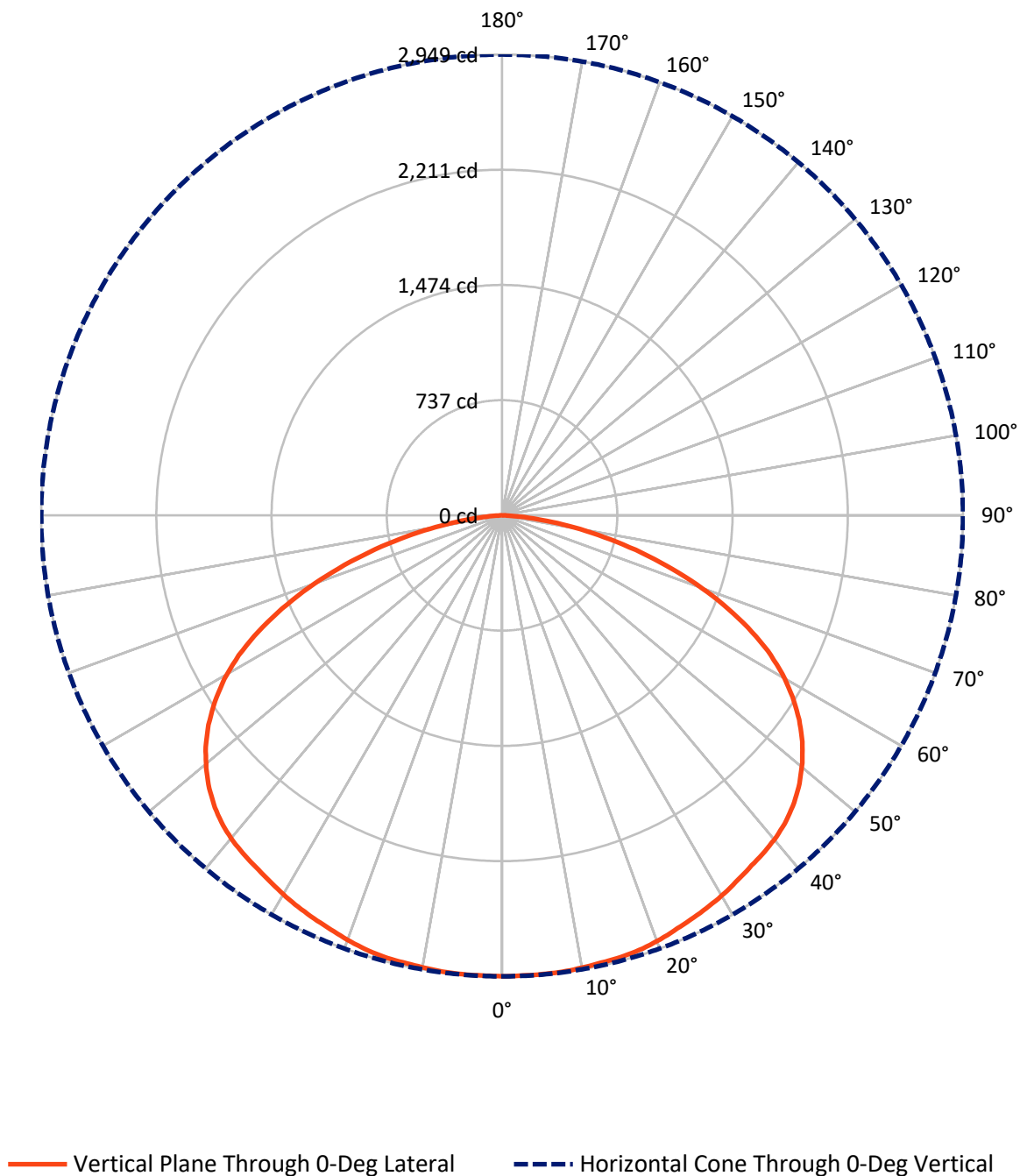


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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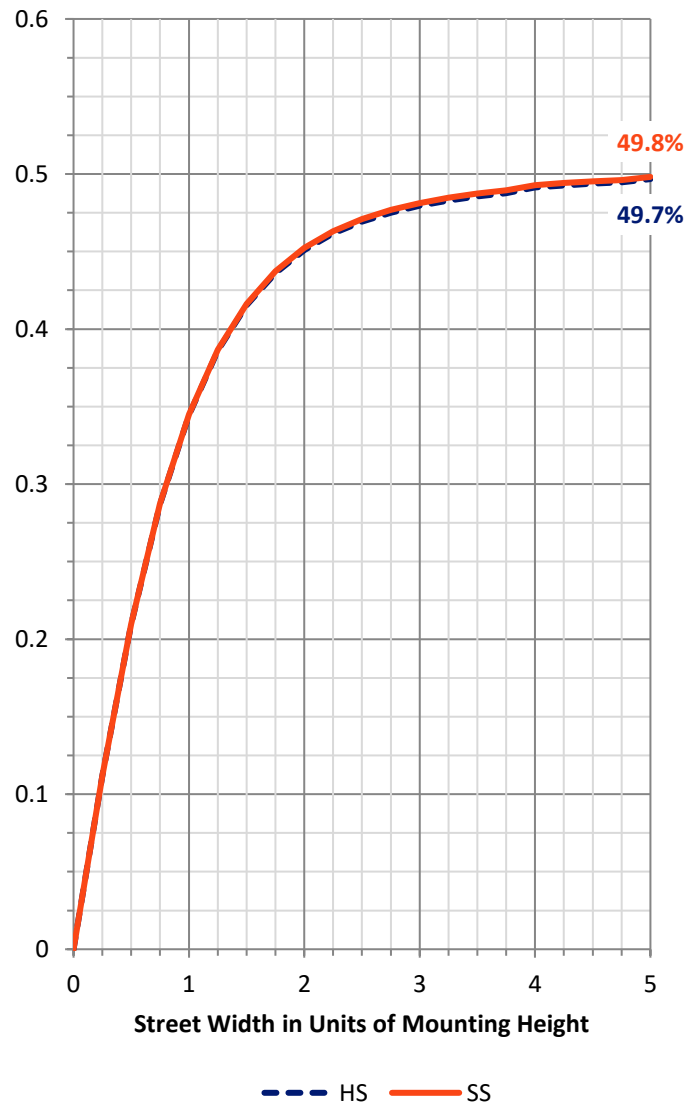
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5609.9	0.0	5609.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5609.9	0.0	5609.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	11219.8	0.0	11219.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	2.5
10°-20°	827.4	7.4
20°-30°	1317.8	11.7
30°-40°	1727.7	15.4
40°-50°	2037.7	18.2
50°-60°	2110.4	18.8
60°-70°	1764.9	15.7
70°-80°	962.0	8.6
80°-90°	191.0	1.7
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°	11219.8	100.0
0°-180°	11219.8	100.0

Coefficient of Utilization



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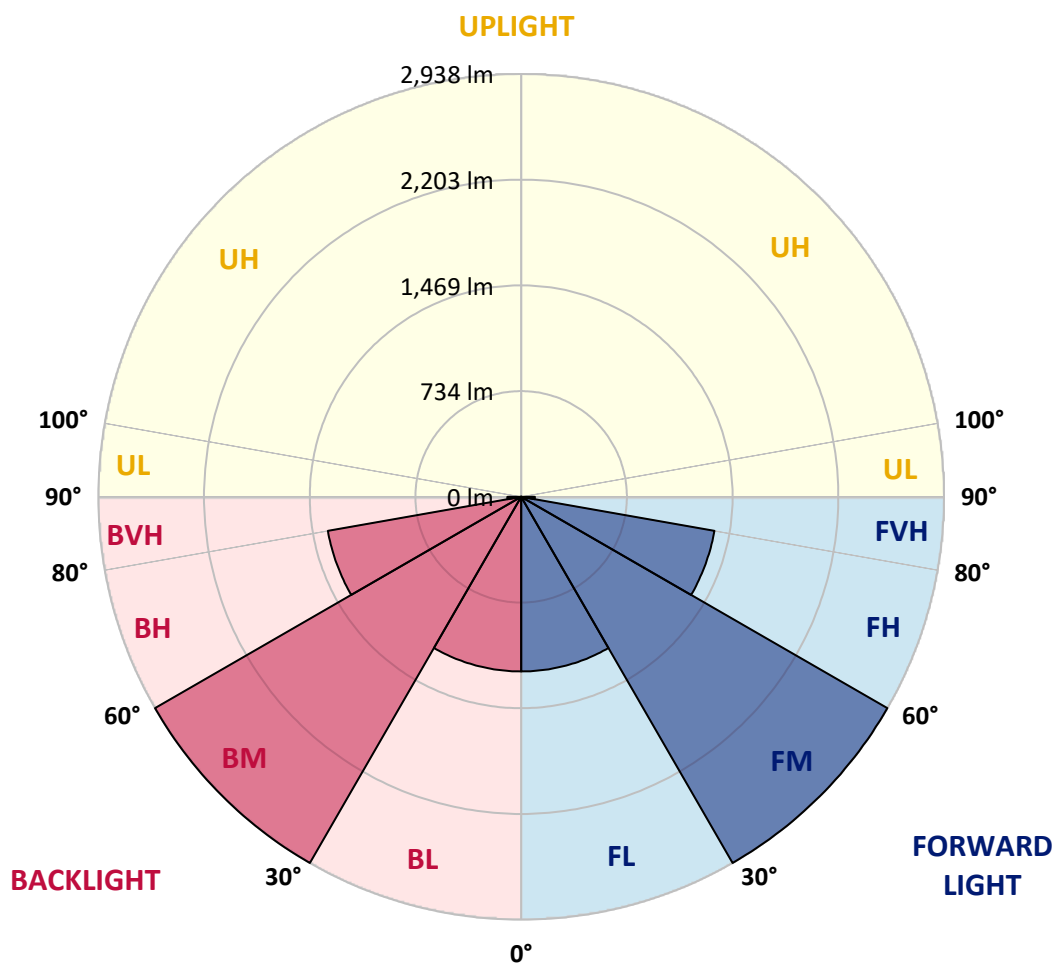
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1213.1	10.8			
FM	(30°-60°)	2937.9	26.2			
FH	(60°-80°)	1363.5	12.2			G1/1800
FVH	(80°-90°)	95.5	0.9			G1/100
BL	(0°-30°)	1213.1	10.8	B3/2500		
BM	(30°-60°)	2937.9	26.2	B3/5000		
BH	(60°-80°)	1363.5	12.2	B3/2500		G1/1800
BVH	(80°-90°)	95.5	0.9			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°	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2946.2	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2946.2	2948.6	2948.6
5°	2946.2	2946.2	2946.2	2946.2	2948.6	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2
7.5°	2943.9	2941.5	2941.5	2941.5	2941.5	2941.5	2943.9	2943.9	2943.9	2943.9	2943.9
10°	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8
12.5°	2929.7	2929.7	2929.7	2929.7	2932.1	2932.1	2932.1	2932.1	2932.1	2932.1	2929.7
15°	2925.0	2925.0	2925.0	2925.0	2925.0	2925.0	2925.0	2925.0	2925.0	2925.0	2925.0
17.5°	2913.2	2913.2	2913.2	2913.2	2915.6	2915.6	2915.6	2915.6	2915.6	2915.6	2915.6
20°	2894.3	2894.3	2894.3	2894.3	2894.3	2896.7	2899.0	2899.0	2899.0	2899.0	2899.0
22.5°	2870.7	2870.7	2873.1	2873.1	2875.4	2875.4	2877.8	2877.8	2877.8	2877.8	2877.8
25°	2849.4	2849.4	2849.4	2851.8	2851.8	2851.8	2854.2	2856.5	2856.5	2856.5	2854.2
27.5°	2828.2	2828.2	2828.2	2830.6	2830.6	2830.6	2832.9	2832.9	2835.3	2832.9	2832.9
30°	2804.6	2802.2	2802.2	2804.6	2807.0	2807.0	2809.3	2809.3	2809.3	2809.3	2807.0
32.5°	2776.3	2776.3	2778.6	2781.0	2781.0	2783.3	2785.7	2785.7	2785.7	2788.1	2783.3
35°	2750.3	2752.7	2752.7	2755.0	2759.7	2762.1	2764.5	2766.8	2766.8	2766.8	2762.1
37.5°	2729.0	2731.4	2733.8	2738.5	2743.2	2747.9	2752.7	2757.4	2755.0	2755.0	2747.9
40°	2703.1	2705.4	2710.2	2714.9	2724.3	2729.0	2736.1	2740.9	2743.2	2740.9	2733.8
42.5°	2667.7	2670.0	2674.8	2681.8	2693.6	2703.1	2710.2	2717.2	2719.6	2717.2	2710.2
45°	2620.5	2622.8	2627.5	2637.0	2651.1	2660.6	2672.4	2679.5	2684.2	2684.2	2677.1
47.5°	2561.4	2563.8	2570.9	2580.3	2594.5	2606.3	2620.5	2629.9	2634.6	2639.3	2632.3
50°	2488.3	2490.6	2500.1	2511.9	2523.7	2540.2	2556.7	2570.9	2578.0	2580.3	2578.0
52.5°	2405.6	2408.0	2417.4	2429.2	2445.8	2464.6	2483.5	2500.1	2509.5	2514.2	2509.5
55°	2306.5	2311.2	2318.3	2334.8	2353.7	2370.2	2393.8	2412.7	2424.5	2426.9	2424.5
57.5°	2190.8	2197.9	2205.0	2223.8	2242.7	2266.3	2285.2	2304.1	2318.3	2320.6	2320.6
60°	2061.0	2065.7	2072.8	2091.6	2112.9	2129.4	2155.4	2174.3	2186.1	2186.1	2188.4
62.5°	1907.5	1912.2	1924.0	1938.2	1961.8	1978.3	1999.6	2018.5	2030.3	2035.0	2032.6
65°	1728.1	1732.8	1739.9	1758.8	1777.7	1796.5	1817.8	1834.3	1846.1	1848.5	1846.1
67.5°	1529.8	1534.5	1539.2	1562.8	1581.7	1588.8	1614.8	1628.9	1636.0	1638.4	1638.4
70°	1319.7	1322.0	1329.1	1340.9	1362.2	1369.2	1385.8	1397.6	1402.3	1411.7	1404.7
72.5°	1100.1	1104.8	1121.4	1123.7	1140.3	1149.7	1154.4	1154.4	1166.2	1166.2	1168.6
75°	882.9	885.3	892.4	894.7	906.5	906.5	904.2	908.9	918.3	918.3	920.7
77.5°	668.1	668.1	679.9	670.5	675.2	665.7	670.5	665.7	672.8	670.5	672.8
80°	467.4	467.4	474.5	465.1	467.4	458.0	460.4	458.0	458.0	460.4	460.4
82.5°	288.0	290.4	295.1	288.0	288.0	280.9	283.3	285.7	285.7	283.3	280.9
85°	141.6	141.6	146.4	144.0	141.6	136.9	139.3	141.6	141.6	139.3	139.3
87.5°	37.8	37.8	40.1	40.1	37.8	35.4	37.8	40.1	40.1	40.1	37.8
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°	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6	2948.6
2.5°	2946.2	2946.2	2948.6	2946.2	2948.6	2946.2	2948.6	2948.6
5°	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2	2946.2
7.5°	2941.5	2943.9	2941.5	2941.5	2941.5	2943.9	2941.5	2943.9
10°	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8	2936.8
12.5°	2929.7	2929.7	2929.7	2929.7	2929.7	2929.7	2929.7	2927.4
15°	2925.0	2922.6	2922.6	2922.6	2920.3	2920.3	2920.3	2920.3
17.5°	2915.6	2913.2	2910.8	2910.8	2910.8	2910.8	2908.5	2908.5
20°	2899.0	2896.7	2894.3	2894.3	2891.9	2891.9	2889.6	2889.6
22.5°	2875.4	2875.4	2873.1	2870.7	2870.7	2868.3	2868.3	2866.0
25°	2854.2	2851.8	2849.4	2847.1	2844.7	2844.7	2842.4	2840.0
27.5°	2830.6	2825.8	2823.5	2821.1	2818.8	2816.4	2814.0	2811.7
30°	2804.6	2799.9	2795.2	2792.8	2788.1	2783.3	2781.0	2778.6
32.5°	2778.6	2773.9	2766.8	2759.7	2755.0	2750.3	2745.6	2743.2
35°	2757.4	2747.9	2740.9	2731.4	2724.3	2717.2	2714.9	2712.5
37.5°	2740.9	2731.4	2719.6	2710.2	2703.1	2693.6	2688.9	2684.2
40°	2724.3	2712.5	2698.4	2686.6	2677.1	2665.3	2660.6	2655.9
42.5°	2700.7	2686.6	2672.4	2658.2	2644.1	2632.3	2625.2	2620.5
45°	2667.7	2653.5	2637.0	2618.1	2603.9	2589.8	2582.7	2578.0
47.5°	2622.8	2608.7	2589.8	2573.2	2556.7	2542.5	2533.1	2528.4
50°	2568.5	2554.4	2535.5	2516.6	2500.1	2483.5	2476.4	2469.4
52.5°	2500.1	2488.3	2467.0	2452.8	2434.0	2417.4	2410.3	2405.6
55°	2415.1	2403.3	2382.0	2367.9	2349.0	2334.8	2325.4	2318.3
57.5°	2311.2	2301.8	2278.1	2264.0	2245.1	2230.9	2223.8	2219.1
60°	2183.7	2174.3	2150.7	2136.5	2120.0	2103.4	2098.7	2094.0
62.5°	2025.5	2020.8	2001.9	1985.4	1968.9	1952.4	1947.6	1945.3
65°	1841.4	1836.7	1820.2	1806.0	1791.8	1777.7	1772.9	1768.2
67.5°	1631.3	1628.9	1614.8	1603.0	1593.5	1579.4	1577.0	1572.3
70°	1407.0	1402.3	1390.5	1381.1	1374.0	1362.2	1359.8	1355.1
72.5°	1173.3	1170.9	1163.9	1152.1	1152.1	1135.5	1133.2	1130.8
75°	916.0	927.8	918.3	913.6	913.6	904.2	904.2	901.8
77.5°	670.5	682.3	689.3	679.9	689.3	679.9	679.9	677.5
80°	458.0	467.4	474.5	467.4	479.2	472.2	472.2	481.6
82.5°	278.6	288.0	292.7	290.4	297.5	295.1	292.7	299.8
85°	136.9	141.6	144.0	144.0	146.4	141.6	146.4	148.7
87.5°	35.4	37.8	40.1	37.8	40.1	40.1	40.1	42.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)