

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: P197531

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197531
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED 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: 11305.2 lumens
Efficiency: N/A
Efficacy: 104.7 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



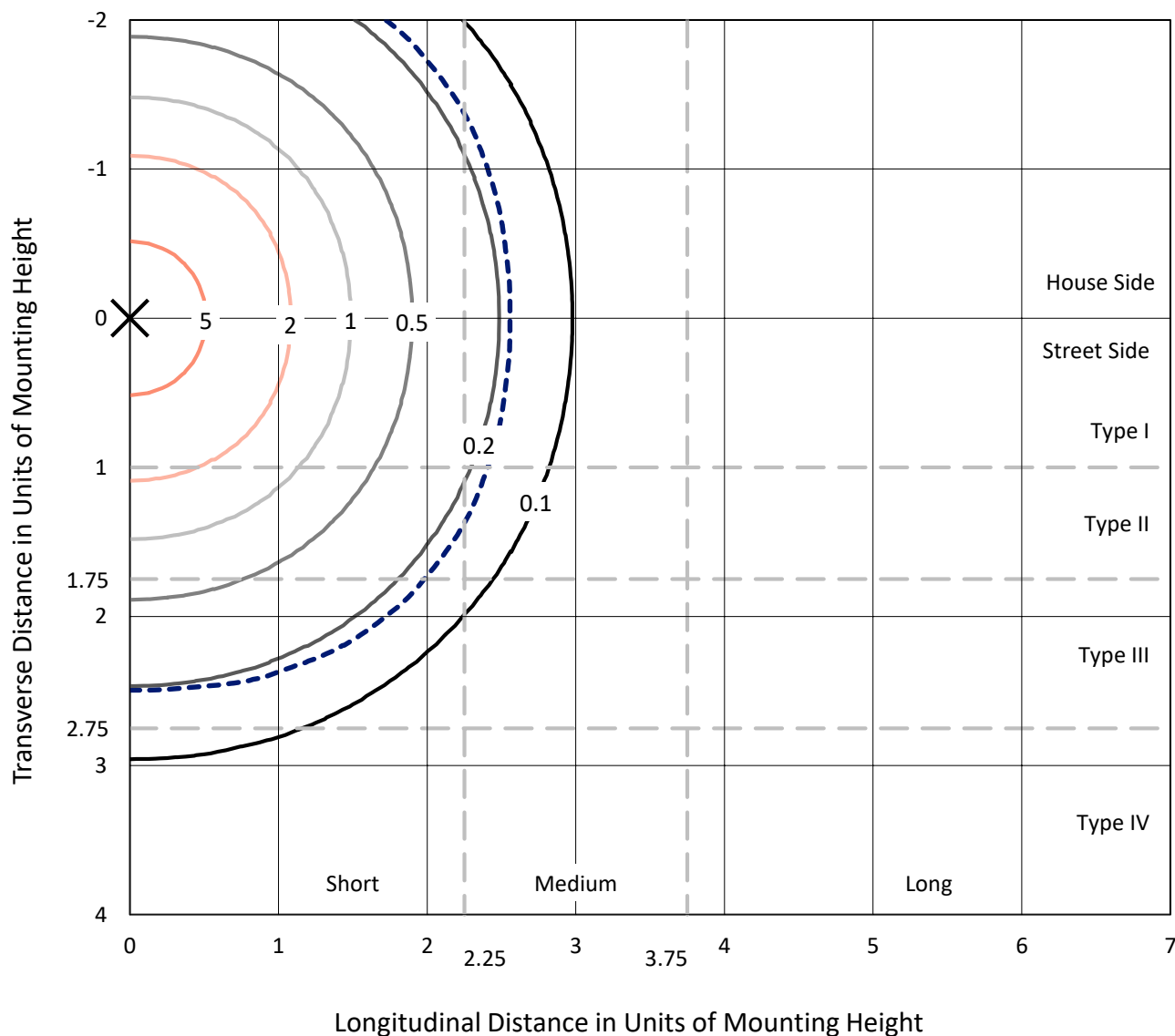
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

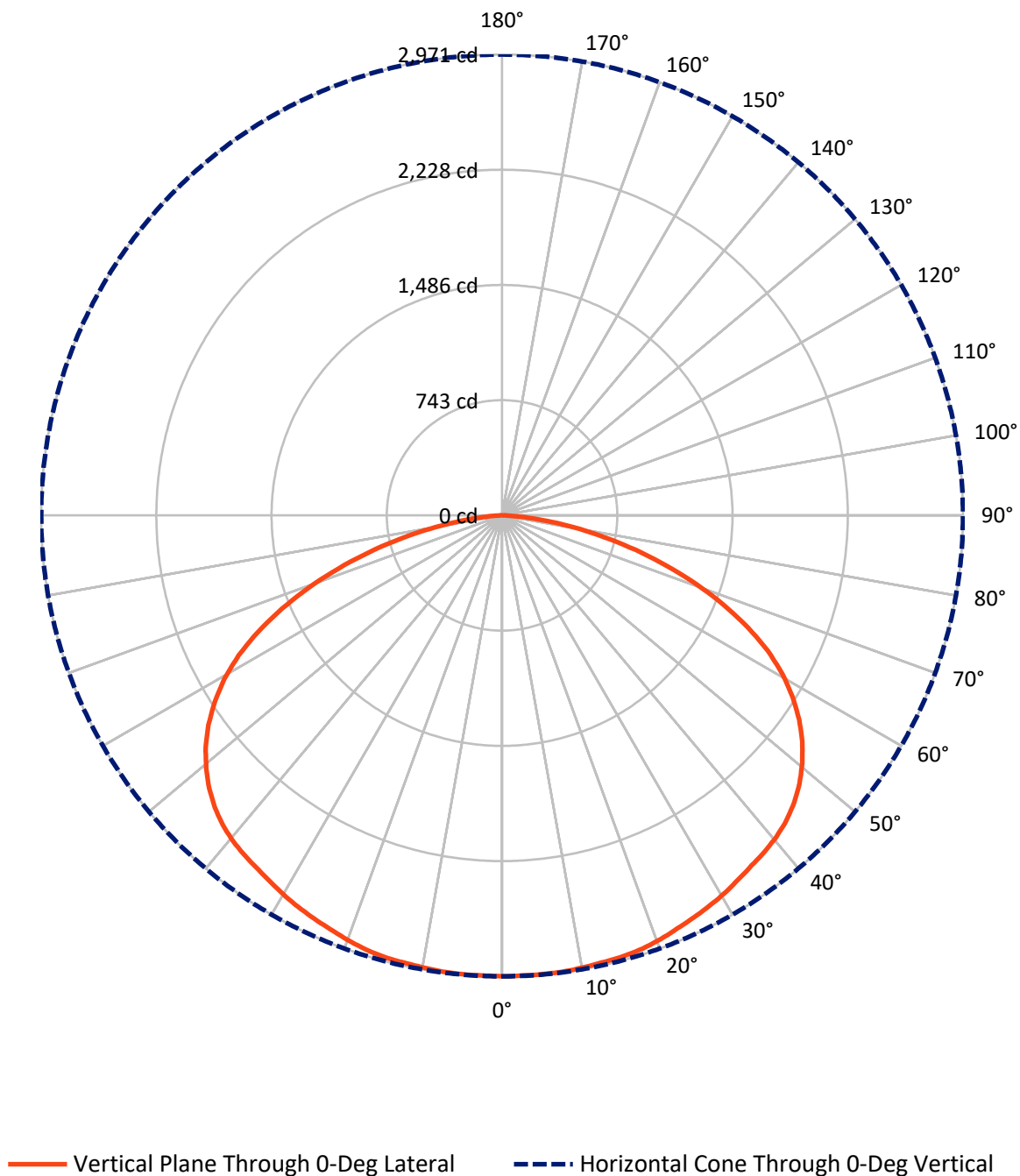


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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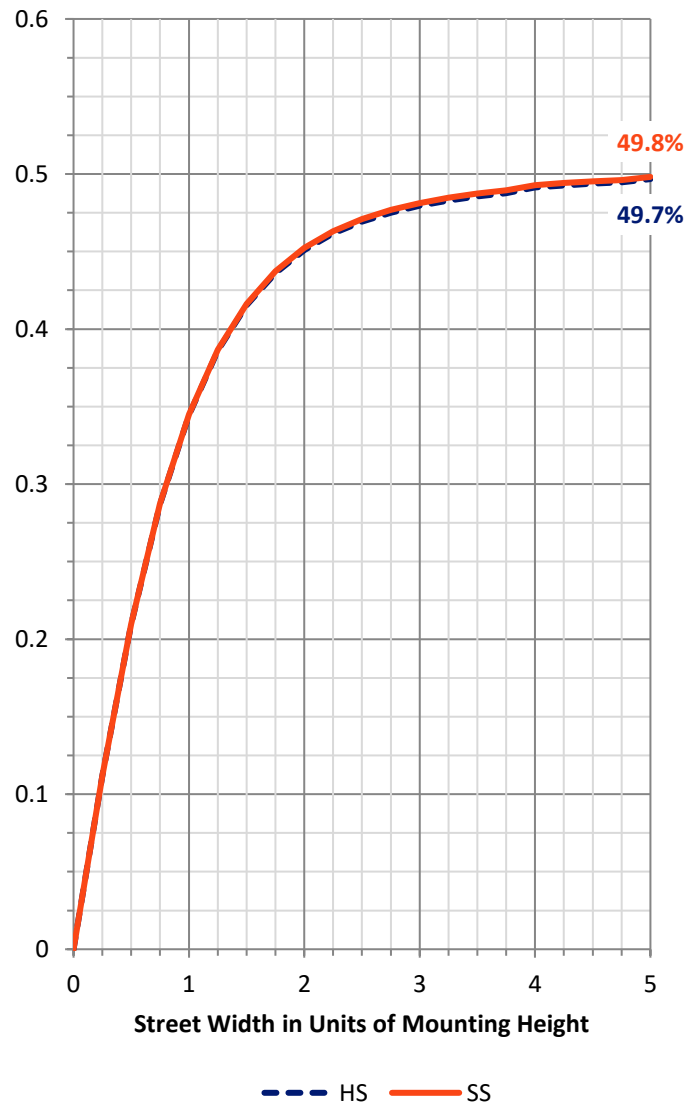
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5652.6	0.0	5652.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5652.6	0.0	5652.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11305.2	0.0	11305.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	2.5
10°-20°	833.7	7.4
20°-30°	1327.8	11.7
30°-40°	1740.9	15.4
40°-50°	2053.2	18.2
50°-60°	2126.5	18.8
60°-70°	1778.4	15.7
70°-80°	969.3	8.6
80°-90°	192.4	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°	11305.2	100.0
0°-180°	11305.2	100.0

Coefficient of Utilization



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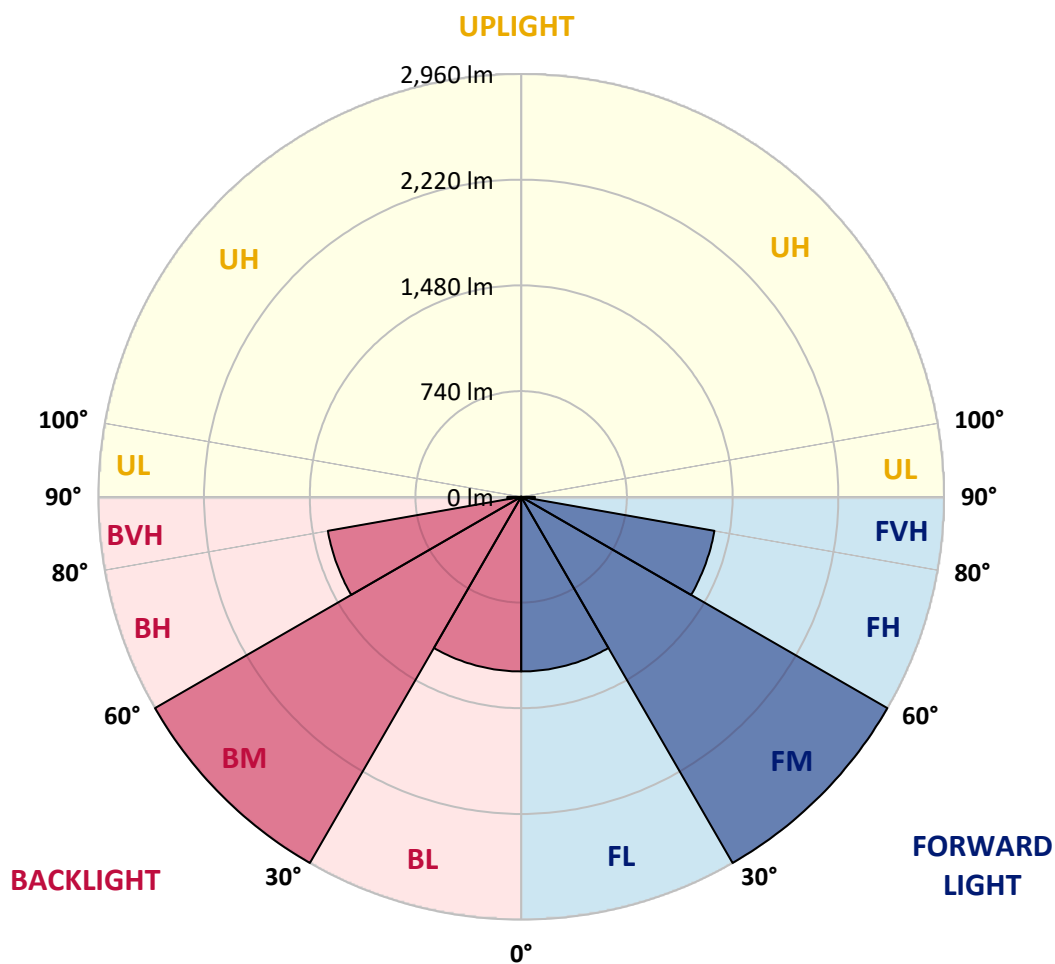
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1222.3	10.8			
FM	(30°-60°)	2960.3	26.2			
FH	(60°-80°)	1373.8	12.2			G1/1800
FVH	(80°-90°)	96.2	0.9			G1/100
BL	(0°-30°)	1222.3	10.8	B3/2500		
BM	(30°-60°)	2960.3	26.2	B3/5000		
BH	(60°-80°)	1373.8	12.2	B3/2500		G1/1800
BVH	(80°-90°)	96.2	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°	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0
2.5°	2968.7	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2968.7	2971.0	2971.0
5°	2968.7	2968.7	2968.7	2968.7	2971.0	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7
7.5°	2966.3	2963.9	2963.9	2963.9	2963.9	2963.9	2966.3	2966.3	2966.3	2966.3	2966.3
10°	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1
12.5°	2952.0	2952.0	2952.0	2952.0	2954.4	2954.4	2954.4	2954.4	2954.4	2954.4	2952.0
15°	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2
17.5°	2935.4	2935.4	2935.4	2935.4	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7	2937.7
20°	2916.3	2916.3	2916.3	2916.3	2916.3	2918.7	2921.1	2921.1	2921.1	2921.1	2921.1
22.5°	2892.5	2892.5	2894.9	2894.9	2897.3	2897.3	2899.7	2899.7	2899.7	2899.7	2899.7
25°	2871.1	2871.1	2871.1	2873.5	2873.5	2873.5	2875.9	2878.3	2878.3	2878.3	2875.9
27.5°	2849.7	2849.7	2849.7	2852.1	2852.1	2852.1	2854.5	2854.5	2856.9	2854.5	2854.5
30°	2825.9	2823.6	2823.6	2825.9	2828.3	2828.3	2830.7	2830.7	2830.7	2830.7	2828.3
32.5°	2797.4	2797.4	2799.8	2802.1	2802.1	2804.5	2806.9	2806.9	2806.9	2809.3	2804.5
35°	2771.2	2773.6	2773.6	2776.0	2780.7	2783.1	2785.5	2787.9	2787.9	2787.9	2783.1
37.5°	2749.8	2752.2	2754.6	2759.3	2764.1	2768.8	2773.6	2778.4	2776.0	2776.0	2768.8
40°	2723.6	2726.0	2730.8	2735.5	2745.1	2749.8	2756.9	2761.7	2764.1	2761.7	2754.6
42.5°	2688.0	2690.3	2695.1	2702.2	2714.1	2723.6	2730.8	2737.9	2740.3	2737.9	2730.8
45°	2640.4	2642.8	2647.5	2657.0	2671.3	2680.8	2692.7	2699.9	2704.6	2704.6	2697.5
47.5°	2580.9	2583.3	2590.4	2600.0	2614.2	2626.1	2640.4	2649.9	2654.7	2659.4	2652.3
50°	2507.2	2509.6	2519.1	2531.0	2542.9	2559.5	2576.2	2590.4	2597.6	2600.0	2597.6
52.5°	2423.9	2426.3	2435.8	2447.7	2464.4	2483.4	2502.4	2519.1	2528.6	2533.3	2528.6
55°	2324.0	2328.8	2335.9	2352.6	2371.6	2388.2	2412.0	2431.1	2443.0	2445.3	2443.0
57.5°	2207.5	2214.6	2221.7	2240.8	2259.8	2283.6	2302.6	2321.6	2335.9	2338.3	2338.3
60°	2076.6	2081.4	2088.5	2107.6	2129.0	2145.6	2171.8	2190.8	2202.7	2202.7	2205.1
62.5°	1922.0	1926.8	1938.7	1952.9	1976.7	1993.4	2014.8	2033.8	2045.7	2050.5	2048.1
65°	1741.2	1746.0	1753.1	1772.2	1791.2	1810.2	1831.6	1848.3	1860.2	1862.5	1860.2
67.5°	1541.4	1546.2	1550.9	1574.7	1593.7	1600.9	1627.1	1641.3	1648.5	1650.8	1650.8
70°	1329.7	1332.1	1339.2	1351.1	1372.5	1379.7	1396.3	1408.2	1413.0	1422.5	1415.3
72.5°	1108.5	1113.2	1129.9	1132.3	1148.9	1158.4	1163.2	1163.2	1175.1	1175.1	1177.5
75°	889.6	892.0	899.2	901.5	913.4	913.4	911.1	915.8	925.3	925.3	927.7
77.5°	673.2	673.2	685.1	675.6	680.3	670.8	675.6	670.8	677.9	675.6	677.9
80°	471.0	471.0	478.1	468.6	471.0	461.5	463.9	461.5	461.5	463.9	463.9
82.5°	290.2	292.6	297.3	290.2	290.2	283.1	285.4	287.8	287.8	285.4	283.1
85°	142.7	142.7	147.5	145.1	142.7	138.0	140.3	142.7	142.7	140.3	140.3
87.5°	38.1	38.1	40.4	40.4	38.1	35.7	38.1	40.4	40.4	40.4	38.1
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°	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0	2971.0
2.5°	2968.7	2968.7	2971.0	2968.7	2971.0	2968.7	2971.0	2971.0
5°	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7
7.5°	2963.9	2966.3	2963.9	2963.9	2963.9	2966.3	2963.9	2966.3
10°	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1	2959.1
12.5°	2952.0	2952.0	2952.0	2952.0	2952.0	2952.0	2952.0	2949.6
15°	2947.2	2944.9	2944.9	2944.9	2942.5	2942.5	2942.5	2942.5
17.5°	2937.7	2935.4	2933.0	2933.0	2933.0	2933.0	2930.6	2930.6
20°	2921.1	2918.7	2916.3	2916.3	2913.9	2913.9	2911.6	2911.6
22.5°	2897.3	2897.3	2894.9	2892.5	2892.5	2890.2	2890.2	2887.8
25°	2875.9	2873.5	2871.1	2868.7	2866.4	2866.4	2864.0	2861.6
27.5°	2852.1	2847.3	2845.0	2842.6	2840.2	2837.8	2835.4	2833.1
30°	2825.9	2821.2	2816.4	2814.0	2809.3	2804.5	2802.1	2799.8
32.5°	2799.8	2795.0	2787.9	2780.7	2776.0	2771.2	2766.5	2764.1
35°	2778.4	2768.8	2761.7	2752.2	2745.1	2737.9	2735.5	2733.2
37.5°	2761.7	2752.2	2740.3	2730.8	2723.6	2714.1	2709.4	2704.6
40°	2745.1	2733.2	2718.9	2707.0	2697.5	2685.6	2680.8	2676.1
42.5°	2721.3	2707.0	2692.7	2678.5	2664.2	2652.3	2645.1	2640.4
45°	2688.0	2673.7	2657.0	2638.0	2623.7	2609.5	2602.3	2597.6
47.5°	2642.8	2628.5	2609.5	2592.8	2576.2	2561.9	2552.4	2547.6
50°	2588.1	2573.8	2554.8	2535.7	2519.1	2502.4	2495.3	2488.2
52.5°	2519.1	2507.2	2485.8	2471.5	2452.5	2435.8	2428.7	2423.9
55°	2433.4	2421.5	2400.1	2385.9	2366.8	2352.6	2343.0	2335.9
57.5°	2328.8	2319.3	2295.5	2281.2	2262.2	2247.9	2240.8	2236.0
60°	2200.3	2190.8	2167.0	2152.8	2136.1	2119.4	2114.7	2109.9
62.5°	2041.0	2036.2	2017.2	2000.5	1983.9	1967.2	1962.5	1960.1
65°	1855.4	1850.7	1834.0	1819.7	1805.5	1791.2	1786.4	1781.7
67.5°	1643.7	1641.3	1627.1	1615.2	1605.6	1591.4	1589.0	1584.2
70°	1417.7	1413.0	1401.1	1391.6	1384.4	1372.5	1370.1	1365.4
72.5°	1182.2	1179.9	1172.7	1160.8	1160.8	1144.2	1141.8	1139.4
75°	922.9	934.8	925.3	920.6	920.6	911.1	911.1	908.7
77.5°	675.6	687.5	694.6	685.1	694.6	685.1	685.1	682.7
80°	461.5	471.0	478.1	471.0	482.9	475.7	475.7	485.3
82.5°	280.7	290.2	295.0	292.6	299.7	297.3	295.0	302.1
85°	138.0	142.7	145.1	145.1	147.5	142.7	147.5	149.9
87.5°	35.7	38.1	40.4	38.1	40.4	40.4	40.4	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)