

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: P197530

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197530
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11413.2 lumens
Efficiency: N/A
Efficacy: 105.7 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

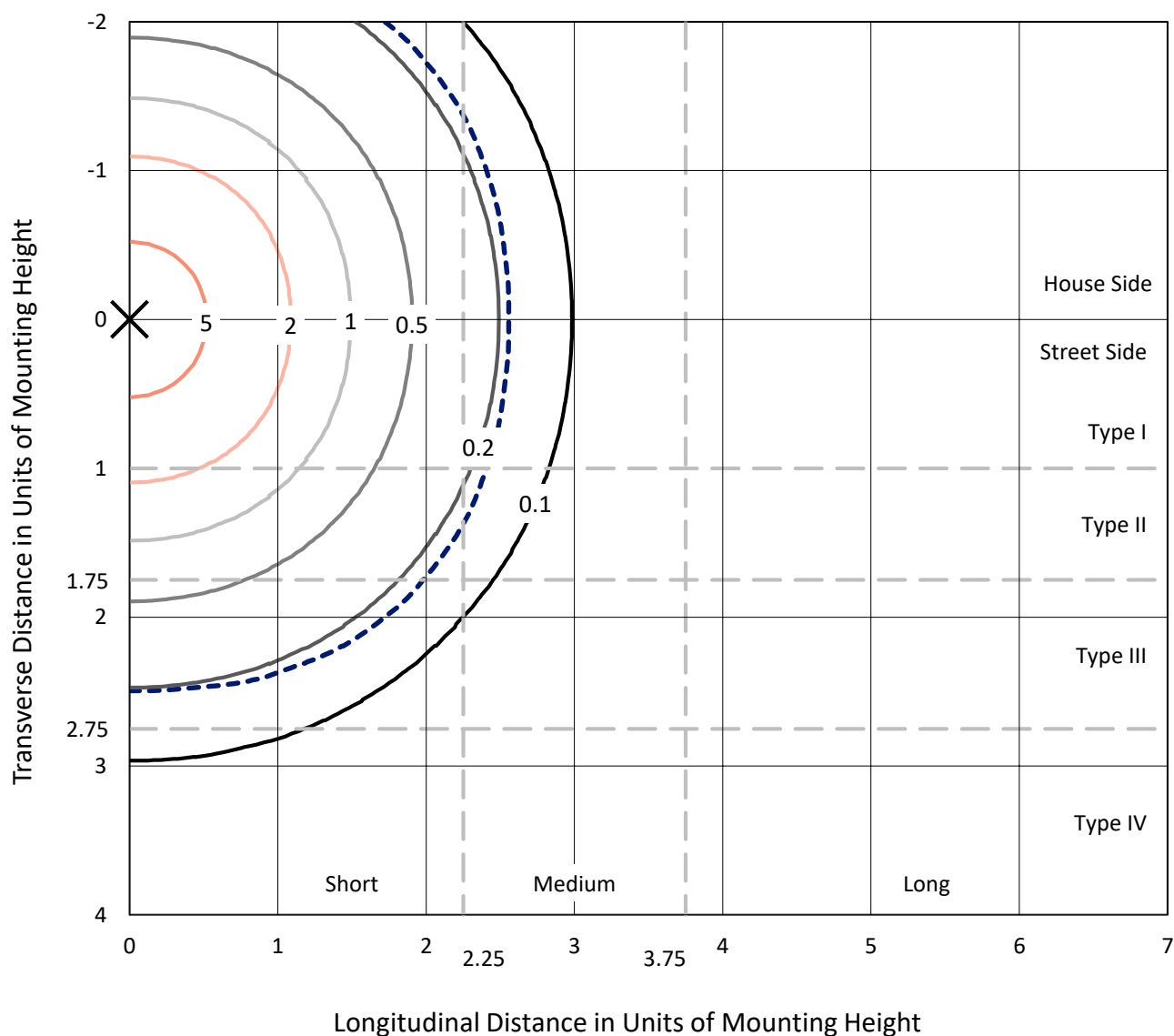


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

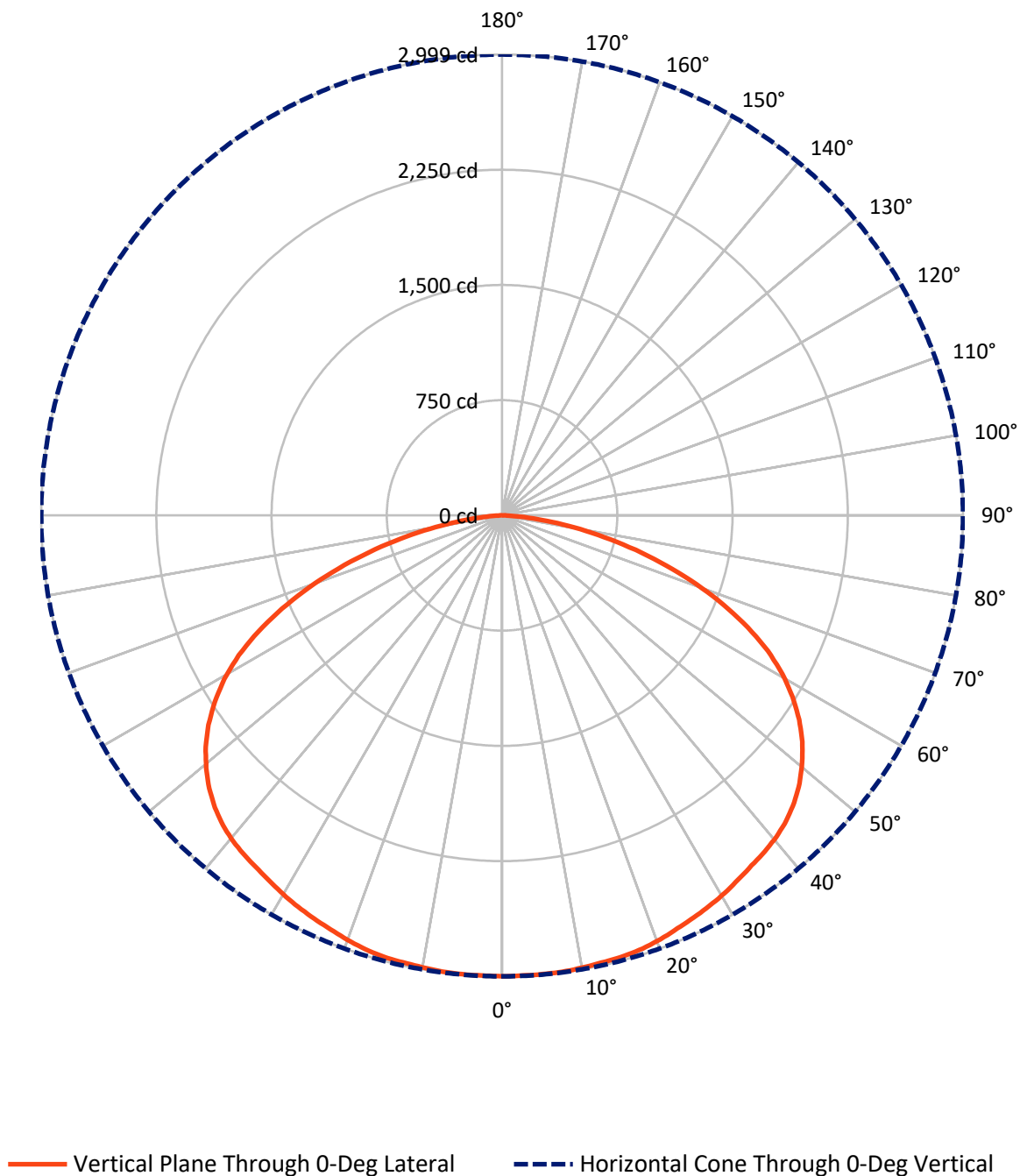


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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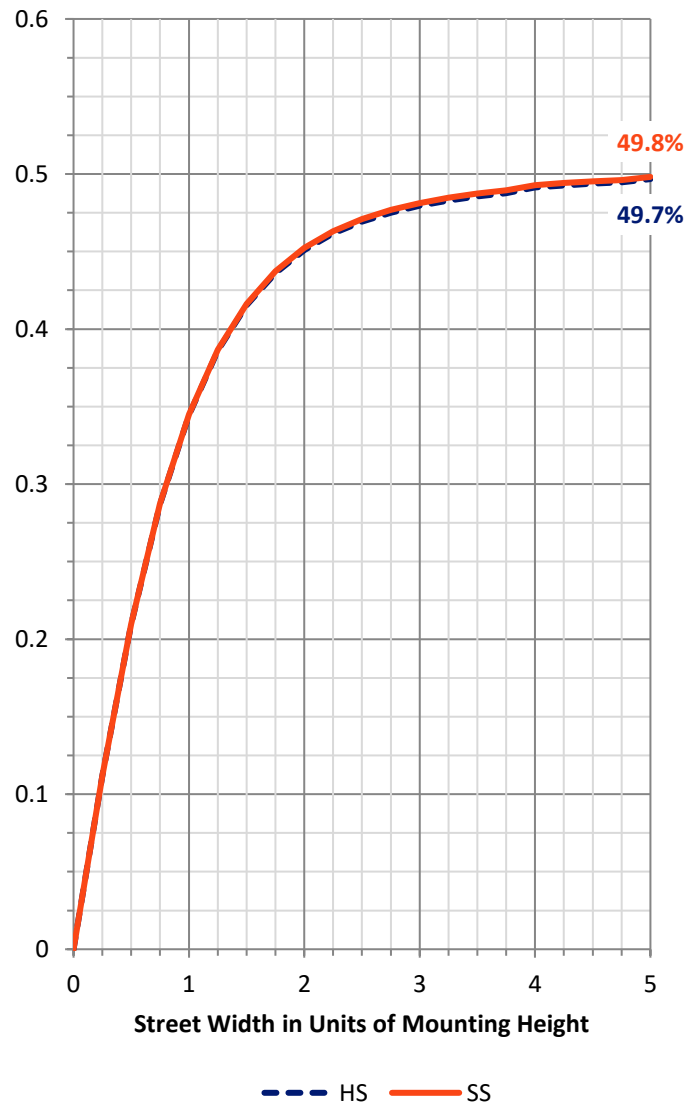
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5706.6	0.0	5706.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5706.6	0.0	5706.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11413.2	0.0	11413.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	2.5
10°-20°	841.7	7.4
20°-30°	1340.5	11.7
30°-40°	1757.5	15.4
40°-50°	2072.8	18.2
50°-60°	2146.8	18.8
60°-70°	1795.3	15.7
70°-80°	978.6	8.6
80°-90°	194.3	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°	11413.2	100.0
0°-180°	11413.2	100.0

Coefficient of Utilization



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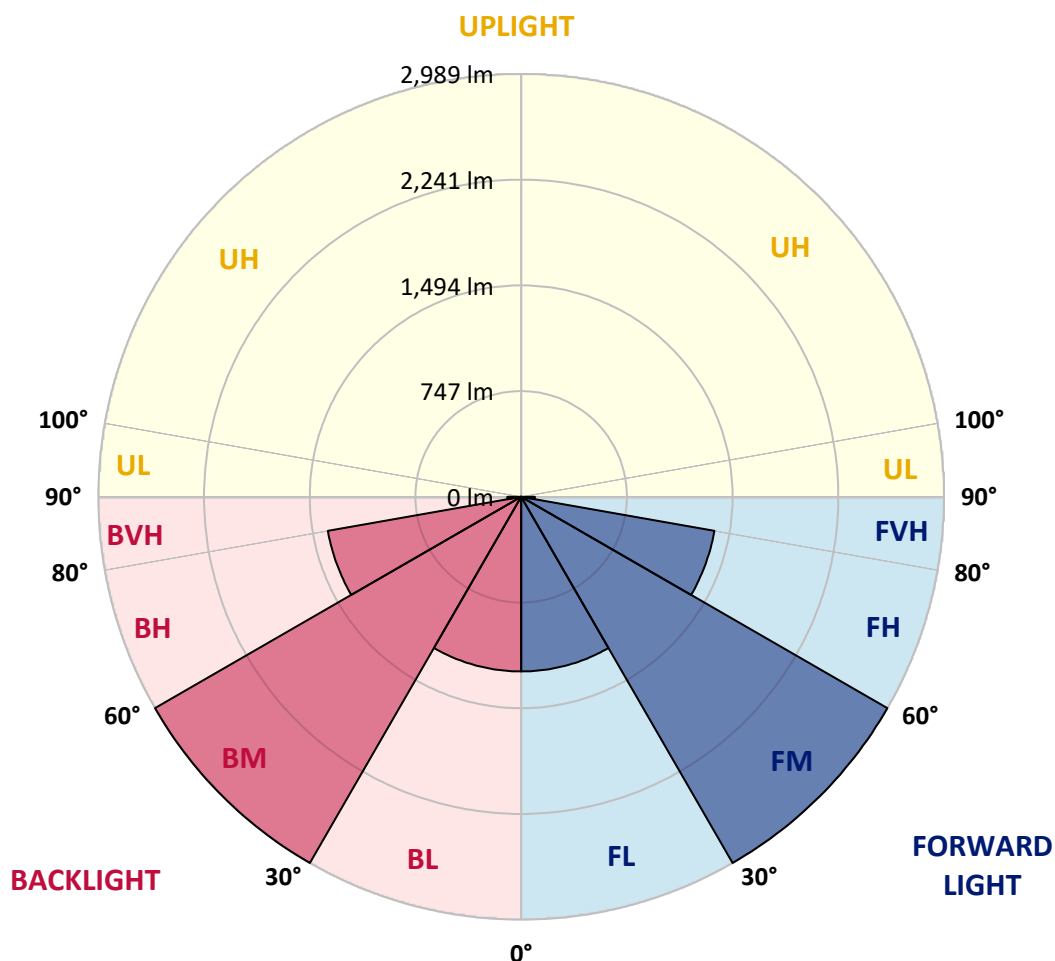
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1234.0	10.8			
FM	(30°-60°)	2988.5	26.2			
FH	(60°-80°)	1387.0	12.2			G1/1800
FVH	(80°-90°)	97.1	0.9			G1/100
BL	(0°-30°)	1234.0	10.8	B3/2500		
BM	(30°-60°)	2988.5	26.2	B3/5000		
BH	(60°-80°)	1387.0	12.2	B3/2500		G1/1800
BVH	(80°-90°)	97.1	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°	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4
2.5°	2997.0	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2997.0	2999.4	2999.4
5°	2997.0	2997.0	2997.0	2997.0	2999.4	2997.0	2997.0	2997.0	2997.0	2997.0	2997.0
7.5°	2994.6	2992.2	2992.2	2992.2	2992.2	2992.2	2994.6	2994.6	2994.6	2994.6	2994.6
10°	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4
12.5°	2980.2	2980.2	2980.2	2980.2	2982.6	2982.6	2982.6	2982.6	2982.6	2982.6	2980.2
15°	2975.4	2975.4	2975.4	2975.4	2975.4	2975.4	2975.4	2975.4	2975.4	2975.4	2975.4
17.5°	2963.4	2963.4	2963.4	2963.4	2965.8	2965.8	2965.8	2965.8	2965.8	2965.8	2965.8
20°	2944.2	2944.2	2944.2	2944.2	2944.2	2946.6	2949.0	2949.0	2949.0	2949.0	2949.0
22.5°	2920.2	2920.2	2922.6	2922.6	2925.0	2925.0	2927.4	2927.4	2927.4	2927.4	2927.4
25°	2898.6	2898.6	2898.6	2901.0	2901.0	2901.0	2903.4	2905.8	2905.8	2905.8	2903.4
27.5°	2876.9	2876.9	2876.9	2879.3	2879.3	2879.3	2881.7	2881.7	2884.1	2881.7	2881.7
30°	2852.9	2850.5	2850.5	2852.9	2855.3	2855.3	2857.7	2857.7	2857.7	2857.7	2855.3
32.5°	2824.1	2824.1	2826.5	2828.9	2828.9	2831.3	2833.7	2833.7	2833.7	2836.1	2831.3
35°	2797.7	2800.1	2800.1	2802.5	2807.3	2809.7	2812.1	2814.5	2814.5	2814.5	2809.7
37.5°	2776.1	2778.5	2780.9	2785.7	2790.5	2795.3	2800.1	2804.9	2802.5	2802.5	2795.3
40°	2749.7	2752.1	2756.9	2761.7	2771.3	2776.1	2783.3	2788.1	2790.5	2788.1	2780.9
42.5°	2713.6	2716.0	2720.8	2728.0	2740.1	2749.7	2756.9	2764.1	2766.5	2764.1	2756.9
45°	2665.6	2668.0	2672.8	2682.4	2696.8	2706.4	2718.4	2725.6	2730.5	2730.5	2723.2
47.5°	2605.6	2608.0	2615.2	2624.8	2639.2	2651.2	2665.6	2675.2	2680.0	2684.8	2677.6
50°	2531.1	2533.5	2543.1	2555.1	2567.2	2584.0	2600.8	2615.2	2622.4	2624.8	2622.4
52.5°	2447.1	2449.5	2459.1	2471.1	2487.9	2507.1	2526.3	2543.1	2552.7	2557.5	2552.7
55°	2346.2	2351.0	2358.2	2375.0	2394.2	2411.1	2435.1	2454.3	2466.3	2468.7	2466.3
57.5°	2228.5	2235.8	2243.0	2262.2	2281.4	2305.4	2324.6	2343.8	2358.2	2360.6	2360.6
60°	2096.5	2101.3	2108.5	2127.7	2149.3	2166.1	2192.5	2211.7	2223.7	2223.7	2226.1
62.5°	1940.4	1945.2	1957.2	1971.6	1995.6	2012.4	2034.0	2053.2	2065.2	2070.1	2067.7
65°	1757.9	1762.7	1769.9	1789.1	1808.3	1827.5	1849.1	1865.9	1877.9	1880.3	1877.9
67.5°	1556.1	1560.9	1565.7	1589.8	1609.0	1616.2	1642.6	1657.0	1664.2	1666.6	1666.6
70°	1342.4	1344.8	1352.0	1364.0	1385.6	1392.8	1409.7	1421.7	1426.5	1436.1	1428.9
72.5°	1119.1	1123.9	1140.7	1143.1	1159.9	1169.5	1174.3	1174.3	1186.3	1186.3	1188.7
75°	898.1	900.5	907.7	910.2	922.2	922.2	919.8	924.6	934.2	934.2	936.6
77.5°	679.6	679.6	691.6	682.0	686.8	677.2	682.0	677.2	684.4	682.0	684.4
80°	475.5	475.5	482.7	473.1	475.5	465.9	468.3	465.9	465.9	468.3	468.3
82.5°	293.0	295.4	300.2	293.0	293.0	285.8	288.2	290.6	290.6	288.2	285.8
85°	144.1	144.1	148.9	146.5	144.1	139.3	141.7	144.1	144.1	141.7	141.7
87.5°	38.4	38.4	40.8	40.8	38.4	36.0	38.4	40.8	40.8	40.8	38.4
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°	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4	2999.4
2.5°	2997.0	2997.0	2999.4	2997.0	2999.4	2997.0	2999.4	2999.4
5°	2997.0	2997.0	2997.0	2997.0	2997.0	2997.0	2997.0	2997.0
7.5°	2992.2	2994.6	2992.2	2992.2	2992.2	2994.6	2992.2	2994.6
10°	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4	2987.4
12.5°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2977.8
15°	2975.4	2973.0	2973.0	2973.0	2970.6	2970.6	2970.6	2970.6
17.5°	2965.8	2963.4	2961.0	2961.0	2961.0	2961.0	2958.6	2958.6
20°	2949.0	2946.6	2944.2	2944.2	2941.8	2941.8	2939.4	2939.4
22.5°	2925.0	2925.0	2922.6	2920.2	2920.2	2917.8	2917.8	2915.4
25°	2903.4	2901.0	2898.6	2896.2	2893.7	2893.7	2891.3	2888.9
27.5°	2879.3	2874.5	2872.1	2869.7	2867.3	2864.9	2862.5	2860.1
30°	2852.9	2848.1	2843.3	2840.9	2836.1	2831.3	2828.9	2826.5
32.5°	2826.5	2821.7	2814.5	2807.3	2802.5	2797.7	2792.9	2790.5
35°	2804.9	2795.3	2788.1	2778.5	2771.3	2764.1	2761.7	2759.3
37.5°	2788.1	2778.5	2766.5	2756.9	2749.7	2740.1	2735.3	2730.5
40°	2771.3	2759.3	2744.9	2732.9	2723.2	2711.2	2706.4	2701.6
42.5°	2747.3	2732.9	2718.4	2704.0	2689.6	2677.6	2670.4	2665.6
45°	2713.6	2699.2	2682.4	2663.2	2648.8	2634.4	2627.2	2622.4
47.5°	2668.0	2653.6	2634.4	2617.6	2600.8	2586.4	2576.8	2572.0
50°	2612.8	2598.4	2579.2	2559.9	2543.1	2526.3	2519.1	2511.9
52.5°	2543.1	2531.1	2509.5	2495.1	2475.9	2459.1	2451.9	2447.1
55°	2456.7	2444.7	2423.1	2408.7	2389.4	2375.0	2365.4	2358.2
57.5°	2351.0	2341.4	2317.4	2303.0	2283.8	2269.4	2262.2	2257.4
60°	2221.3	2211.7	2187.7	2173.3	2156.5	2139.7	2134.9	2130.1
62.5°	2060.4	2055.6	2036.4	2019.6	2002.8	1986.0	1981.2	1978.8
65°	1873.1	1868.3	1851.5	1837.1	1822.7	1808.3	1803.5	1798.7
67.5°	1659.4	1657.0	1642.6	1630.6	1621.0	1606.6	1604.2	1599.4
70°	1431.3	1426.5	1414.5	1404.8	1397.6	1385.6	1383.2	1378.4
72.5°	1193.5	1191.1	1183.9	1171.9	1171.9	1155.1	1152.7	1150.3
75°	931.8	943.8	934.2	929.4	929.4	919.8	919.8	917.4
77.5°	682.0	694.0	701.2	691.6	701.2	691.6	691.6	689.2
80°	465.9	475.5	482.7	475.5	487.5	480.3	480.3	489.9
82.5°	283.4	293.0	297.8	295.4	302.6	300.2	297.8	305.0
85°	139.3	144.1	146.5	146.5	148.9	144.1	148.9	151.3
87.5°	36.0	38.4	40.8	38.4	40.8	40.8	40.8	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)