

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: P197554

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197554
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12181.5 lumens
Efficiency: N/A
Efficacy: 112.8 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

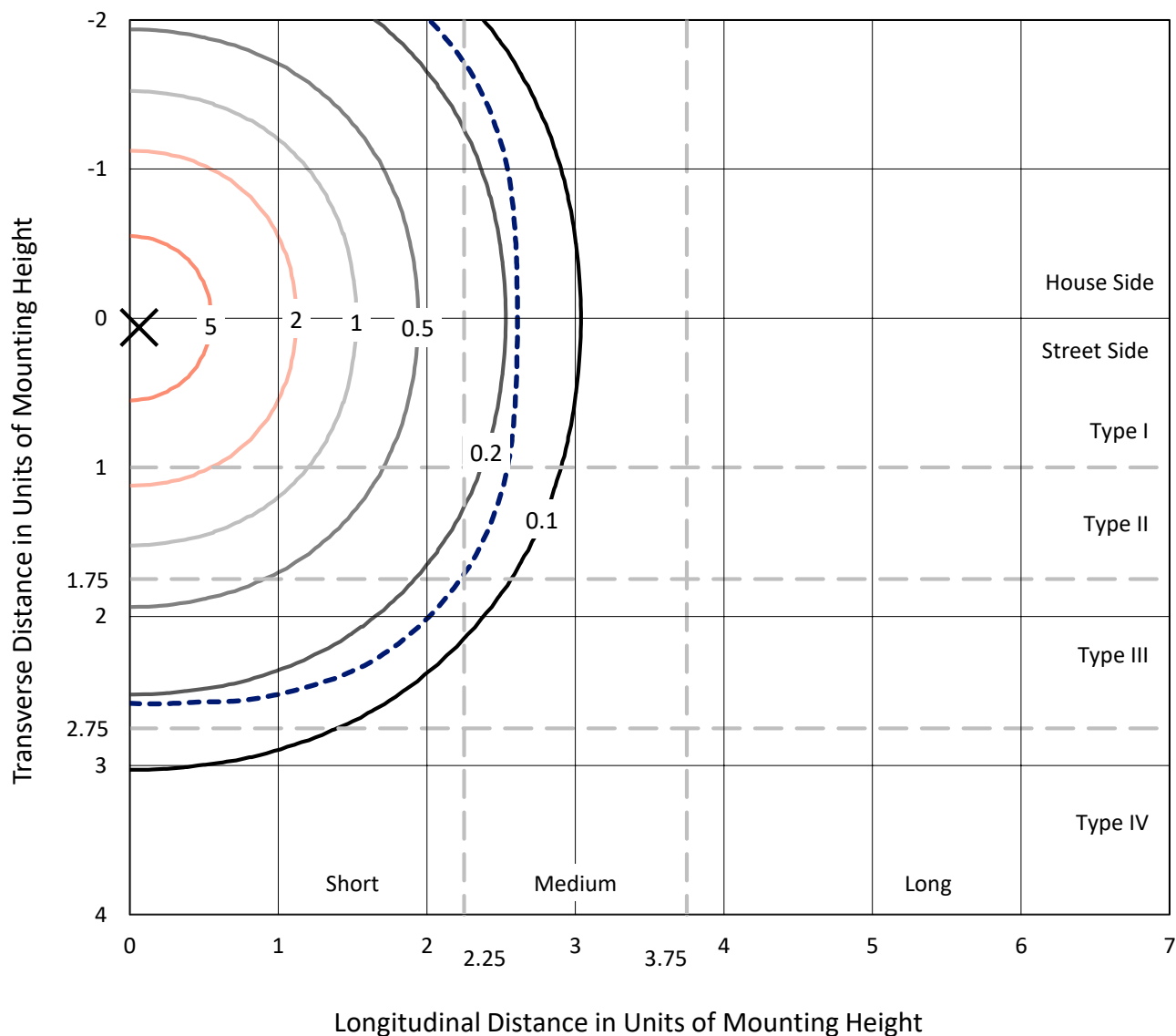


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

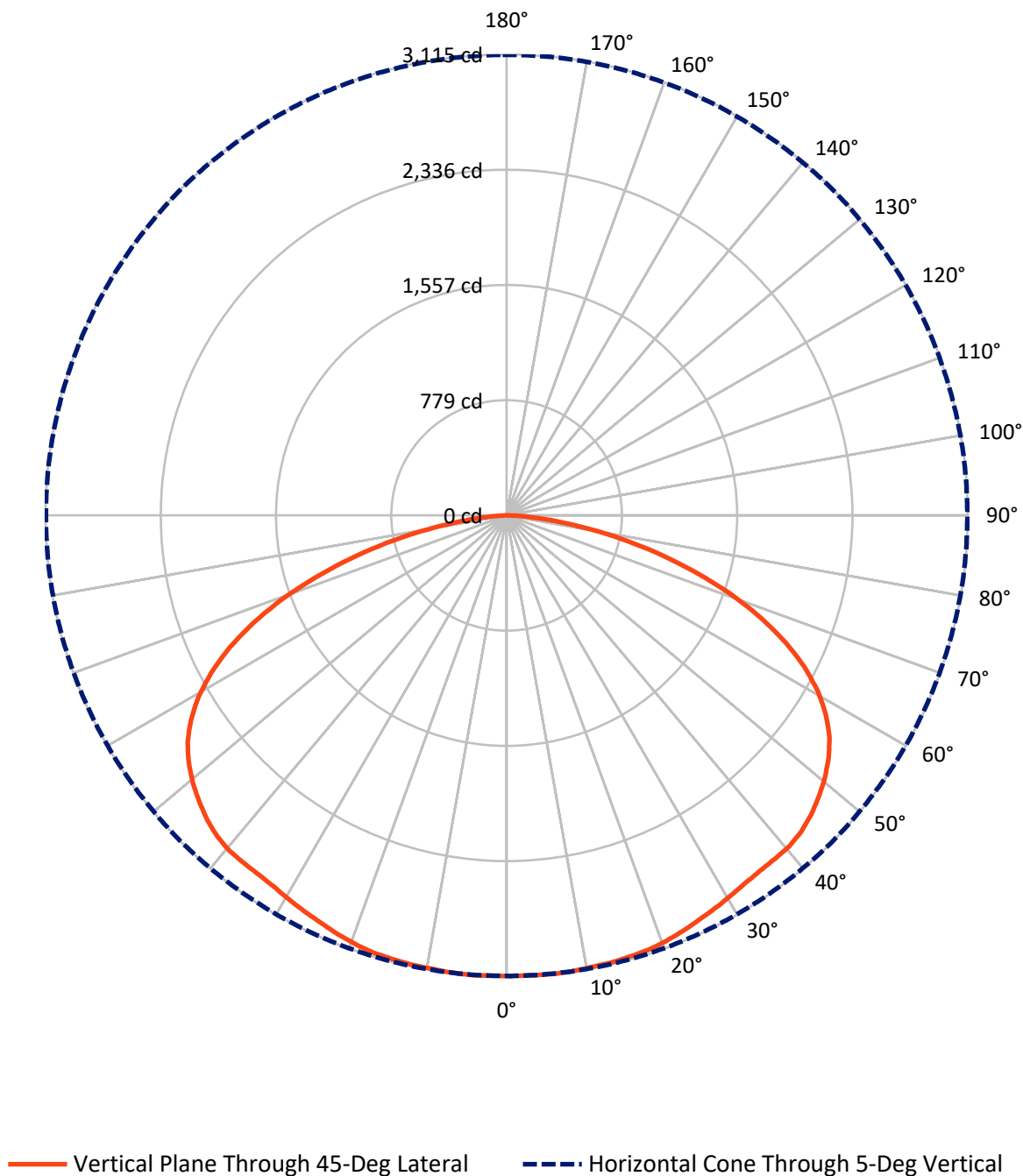


Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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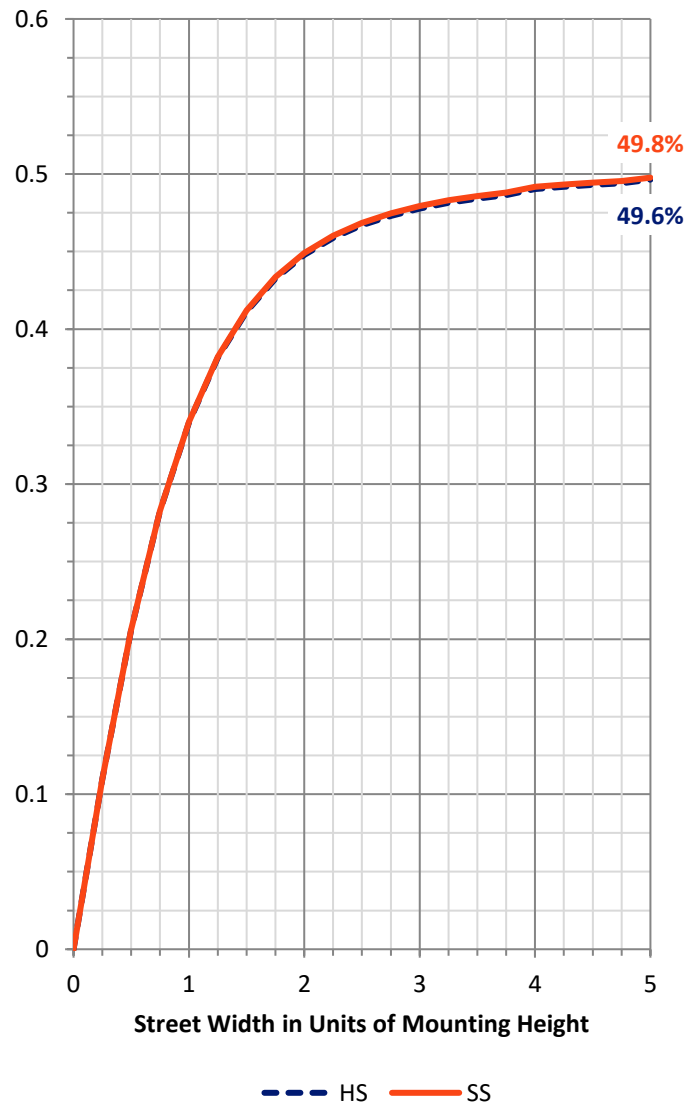
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6090.7	0.0	6090.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6090.7	0.0	6090.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12181.5	0.0	12181.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	2.4
10°-20°	875.6	7.2
20°-30°	1397.2	11.5
30°-40°	1840.4	15.1
40°-50°	2189.2	18.0
50°-60°	2291.1	18.8
60°-70°	1948.4	16.0
70°-80°	1107.3	9.1
80°-90°	235.4	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°	12181.5	100.0
0°-180°	12181.5	100.0

Coefficient of Utilization



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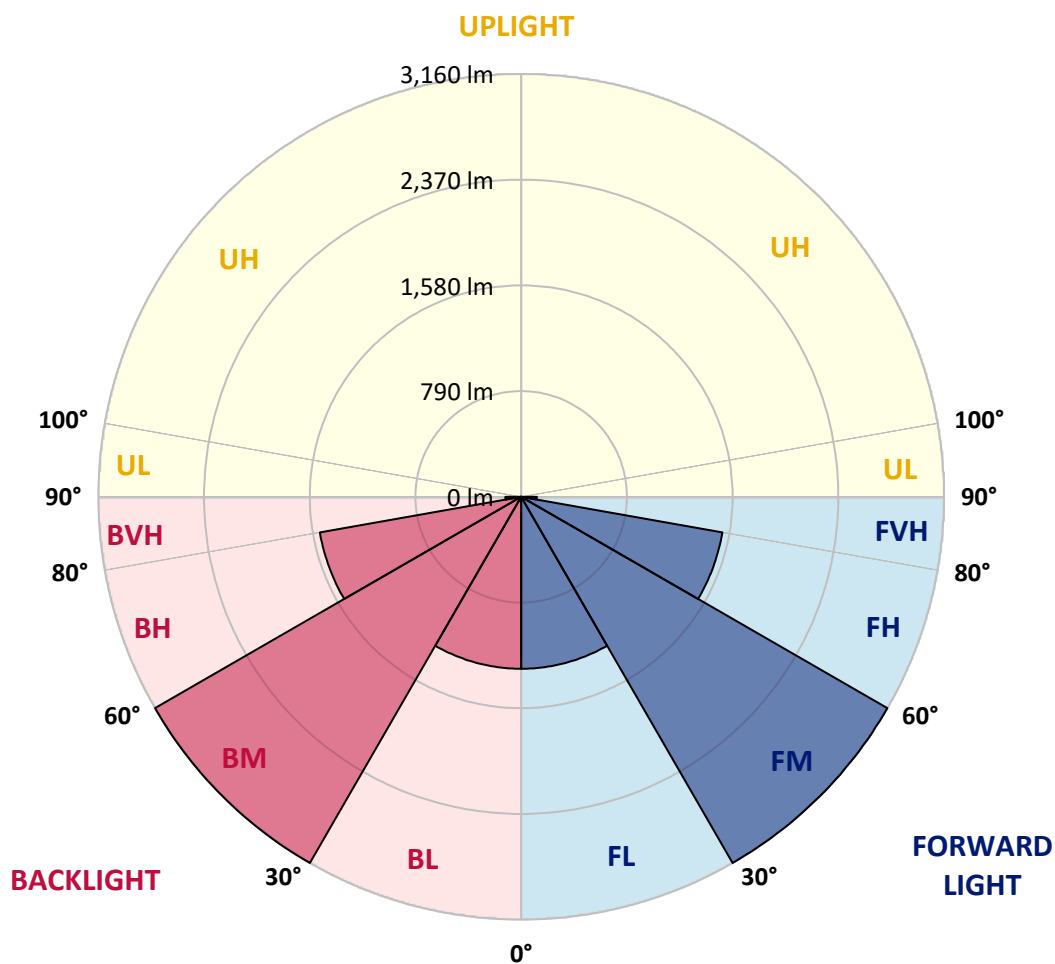
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1284.8	10.5			
FM	(30°-60°)	3160.4	25.9			
FH	(60°-80°)	1527.8	12.5			G1/1800
FVH	(80°-90°)	117.7	1.0			G2/225
BL	(0°-30°)	1284.8	10.5	B3/2500		
BM	(30°-60°)	3160.4	25.9	B3/5000		
BH	(60°-80°)	1527.8	12.5	B3/2500		G1/1800
BVH	(80°-90°)	117.7	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°	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3
2.5°	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3
5°	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3114.7	3112.3
7.5°	3109.9	3109.9	3109.9	3109.9	3112.3	3109.9	3109.9	3112.3	3112.3	3112.3	3112.3
10°	3105.1	3102.7	3102.7	3105.1	3105.1	3105.1	3105.1	3105.1	3107.5	3105.1	3105.1
12.5°	3097.9	3095.5	3097.9	3097.9	3097.9	3100.3	3100.3	3100.3	3102.7	3102.7	3100.3
15°	3090.7	3090.7	3090.7	3090.7	3090.7	3093.1	3093.1	3095.5	3095.5	3095.5	3095.5
17.5°	3081.1	3081.1	3081.1	3083.5	3083.5	3085.9	3085.9	3085.9	3088.3	3088.3	3088.3
20°	3064.3	3061.9	3064.3	3064.3	3066.7	3069.1	3069.1	3071.5	3071.5	3071.5	3071.5
22.5°	3040.2	3040.2	3042.6	3042.6	3045.0	3047.4	3047.4	3049.8	3049.8	3049.8	3049.8
25°	3016.2	3018.6	3018.6	3021.0	3021.0	3023.4	3025.8	3025.8	3025.8	3025.8	3025.8
27.5°	2992.2	2994.6	2994.6	2994.6	2997.0	2999.4	3001.8	3004.2	3006.6	3004.2	3004.2
30°	2965.8	2965.8	2968.2	2970.6	2973.0	2975.4	2980.2	2982.6	2985.0	2982.6	2982.6
32.5°	2937.0	2939.4	2941.8	2944.2	2949.0	2953.8	2958.6	2961.0	2963.4	2961.0	2961.0
35°	2915.4	2915.4	2920.2	2925.0	2929.8	2937.0	2941.8	2946.6	2951.4	2949.0	2946.6
37.5°	2893.7	2893.7	2898.6	2905.8	2915.4	2925.0	2934.6	2941.8	2944.2	2944.2	2941.8
40°	2867.3	2869.7	2874.5	2886.5	2901.0	2913.0	2925.0	2934.6	2939.4	2939.4	2934.6
42.5°	2838.5	2840.9	2848.1	2860.1	2876.9	2891.3	2905.8	2913.0	2920.2	2920.2	2915.4
45°	2797.7	2800.1	2809.7	2821.7	2838.5	2852.9	2869.7	2876.9	2886.5	2884.1	2881.7
47.5°	2744.9	2747.3	2756.9	2768.9	2785.7	2802.5	2819.3	2831.3	2838.5	2838.5	2836.1
50°	2680.0	2682.4	2692.0	2704.0	2725.6	2744.9	2761.7	2773.7	2785.7	2785.7	2783.3
52.5°	2598.4	2603.2	2610.4	2627.2	2651.2	2672.8	2694.4	2713.6	2720.8	2723.2	2720.8
55°	2497.5	2502.3	2511.9	2531.1	2557.5	2584.0	2608.0	2629.6	2639.2	2646.4	2641.6
57.5°	2379.8	2384.6	2396.6	2418.3	2447.1	2473.5	2504.7	2528.7	2535.9	2543.1	2540.7
60°	2240.6	2247.8	2259.8	2283.8	2312.6	2341.4	2370.2	2399.1	2406.3	2415.9	2411.1
62.5°	2077.3	2084.5	2096.5	2122.9	2154.1	2180.5	2214.1	2240.6	2247.8	2257.4	2255.0
65°	1889.9	1897.1	1909.2	1938.0	1966.8	1995.6	2026.8	2055.6	2062.8	2072.5	2070.1
67.5°	1676.2	1683.4	1695.4	1729.0	1757.9	1786.7	1813.1	1841.9	1846.7	1856.3	1853.9
70°	1450.5	1460.1	1469.7	1500.9	1527.3	1551.3	1580.2	1604.2	1613.8	1618.6	1613.8
72.5°	1224.7	1231.9	1241.6	1263.2	1282.4	1304.0	1332.8	1349.6	1356.8	1359.2	1359.2
75°	991.8	999.0	999.0	1023.0	1037.4	1049.4	1073.4	1085.5	1090.3	1095.1	1095.1
77.5°	770.9	766.1	770.9	780.5	790.1	799.7	814.1	821.3	826.1	835.7	830.9
80°	540.3	542.7	545.1	552.3	557.1	559.5	569.1	571.5	573.9	583.6	578.7
82.5°	348.2	343.4	348.2	345.8	350.6	343.4	348.2	355.4	350.6	355.4	357.8
85°	182.5	175.3	175.3	177.7	180.1	175.3	177.7	175.3	175.3	180.1	177.7
87.5°	57.6	55.2	57.6	55.2	57.6	55.2	57.6	60.0	57.6	57.6	60.0
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°	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3
2.5°	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3
5°	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3	3112.3
7.5°	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3107.5	3109.9
10°	3105.1	3105.1	3105.1	3105.1	3102.7	3102.7	3102.7	3102.7
12.5°	3100.3	3100.3	3097.9	3097.9	3097.9	3097.9	3095.5	3095.5
15°	3095.5	3093.1	3093.1	3090.7	3090.7	3090.7	3088.3	3090.7
17.5°	3088.3	3085.9	3085.9	3083.5	3083.5	3081.1	3081.1	3081.1
20°	3071.5	3069.1	3069.1	3066.7	3066.7	3064.3	3061.9	3061.9
22.5°	3047.4	3047.4	3047.4	3045.0	3042.6	3042.6	3040.2	3040.2
25°	3025.8	3023.4	3023.4	3021.0	3018.6	3018.6	3016.2	3016.2
27.5°	3004.2	3001.8	2999.4	2994.6	2994.6	2992.2	2989.8	2987.4
30°	2980.2	2975.4	2970.6	2968.2	2965.8	2961.0	2958.6	2956.2
32.5°	2956.2	2951.4	2946.6	2941.8	2934.6	2932.2	2927.4	2927.4
35°	2941.8	2934.6	2927.4	2917.8	2910.6	2903.4	2898.6	2896.2
37.5°	2934.6	2925.0	2913.0	2901.0	2888.9	2879.3	2872.1	2872.1
40°	2925.0	2913.0	2898.6	2881.7	2867.3	2855.3	2848.1	2845.7
42.5°	2905.8	2893.7	2874.5	2860.1	2840.9	2828.9	2819.3	2816.9
45°	2872.1	2860.1	2843.3	2824.1	2804.9	2790.5	2780.9	2778.5
47.5°	2828.9	2814.5	2795.3	2776.1	2756.9	2740.1	2730.5	2728.0
50°	2773.7	2759.3	2740.1	2720.8	2699.2	2682.4	2670.4	2670.4
52.5°	2711.2	2694.4	2672.8	2651.2	2627.2	2610.4	2598.4	2596.0
55°	2629.6	2610.4	2588.8	2564.8	2538.3	2519.1	2504.7	2502.3
57.5°	2528.7	2507.1	2483.1	2456.7	2430.3	2408.7	2391.8	2389.4
60°	2401.5	2377.4	2353.4	2327.0	2298.2	2274.2	2257.4	2252.6
62.5°	2245.4	2218.9	2192.5	2168.5	2137.3	2113.3	2096.5	2091.7
65°	2060.4	2038.8	2012.4	1983.6	1950.0	1926.0	1909.2	1906.8
67.5°	1844.3	1822.7	1796.3	1769.9	1736.2	1714.6	1697.8	1693.0
70°	1606.6	1587.4	1565.7	1539.3	1510.5	1488.9	1472.1	1469.7
72.5°	1354.4	1337.6	1318.4	1299.2	1270.4	1253.6	1239.1	1236.7
75°	1095.1	1078.3	1063.8	1049.4	1027.8	1015.8	1001.4	1001.4
77.5°	830.9	826.1	816.5	799.7	787.7	778.1	770.9	766.1
80°	581.2	576.3	571.5	561.9	554.7	552.3	547.5	542.7
82.5°	355.4	353.0	355.4	350.6	348.2	348.2	345.8	341.0
85°	180.1	182.5	180.1	177.7	177.7	177.7	177.7	175.3
87.5°	57.6	60.0	57.6	55.2	55.2	55.2	55.2	52.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)