

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: P197555

Luminaire Tested: **TT-C6-LED-E1-CQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197555
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12066.2 lumens
Efficiency: N/A
Efficacy: 111.7 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

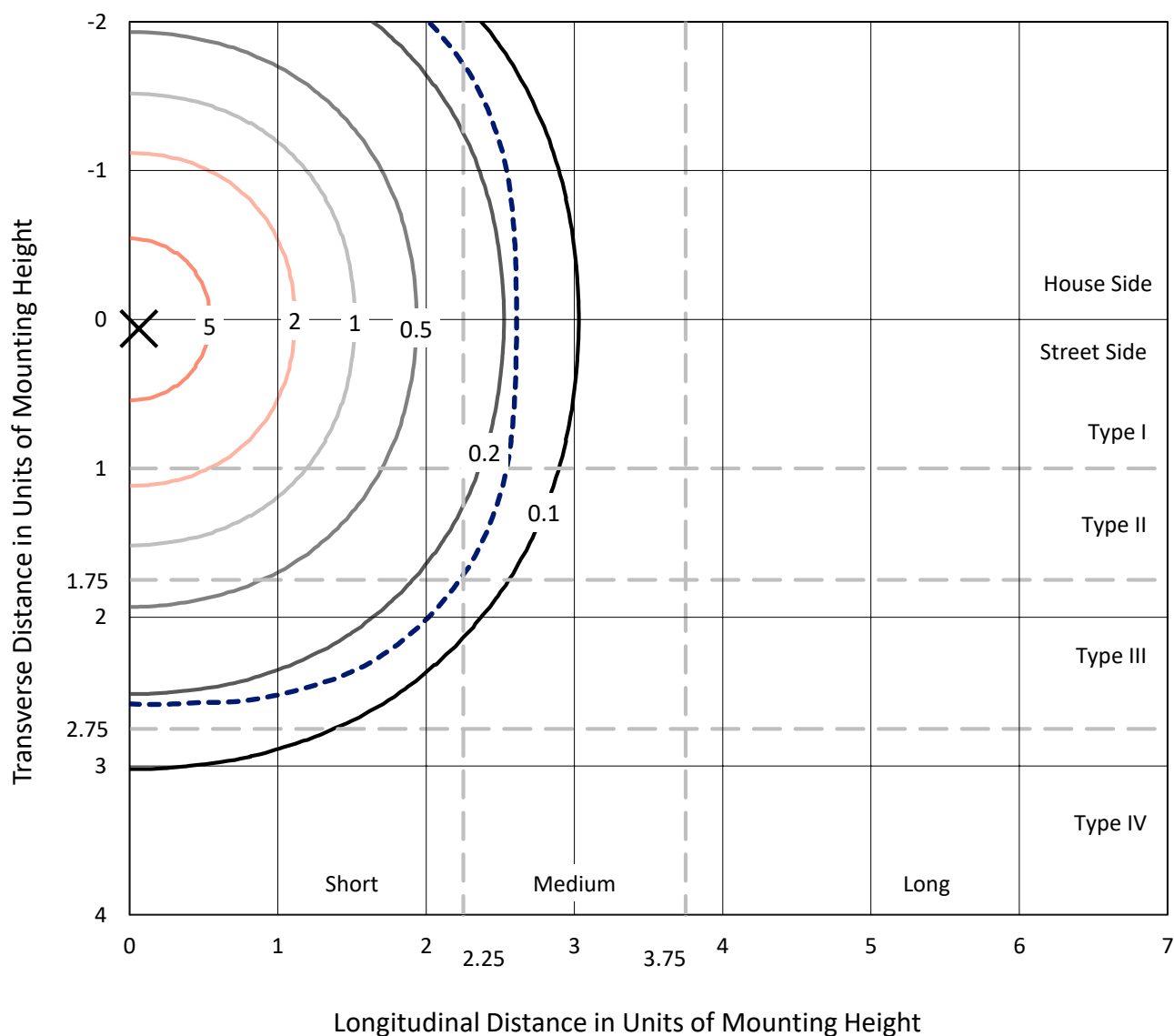


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

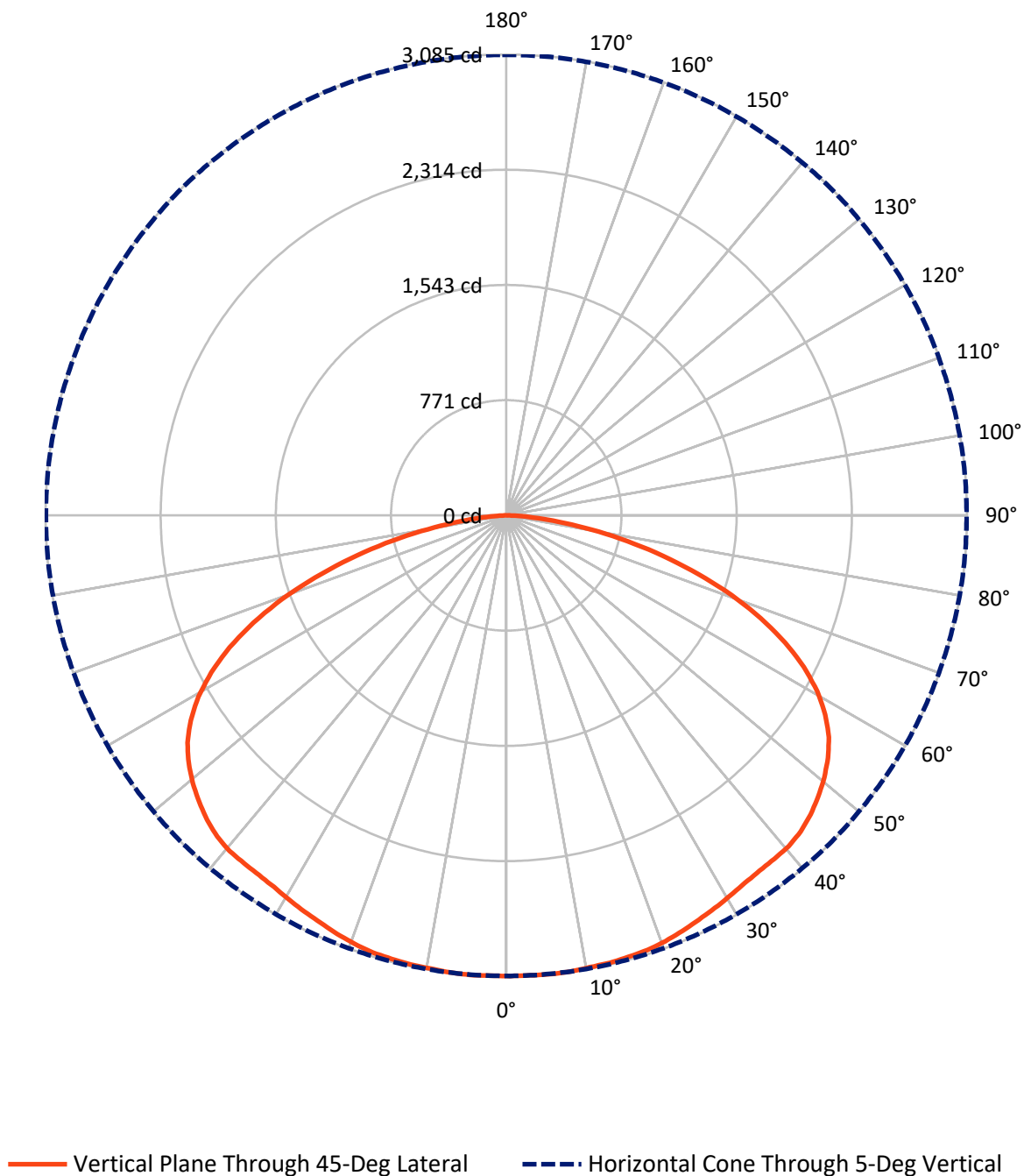


Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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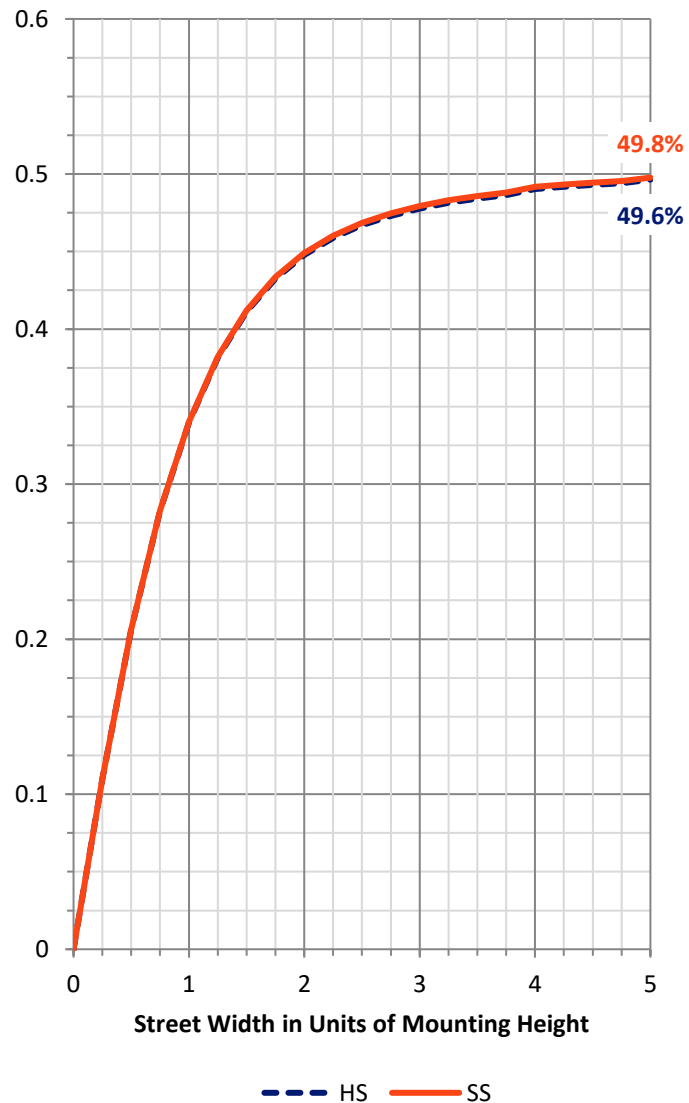
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6033.1	0.0	6033.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6033.1	0.0	6033.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12066.2	0.0	12066.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	2.4
10°-20°	867.3	7.2
20°-30°	1384.0	11.5
30°-40°	1823.0	15.1
40°-50°	2168.5	18.0
50°-60°	2269.5	18.8
60°-70°	1930.0	16.0
70°-80°	1096.8	9.1
80°-90°	233.2	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°	12066.2	100.0
0°-180°	12066.2	100.0

Coefficient of Utilization



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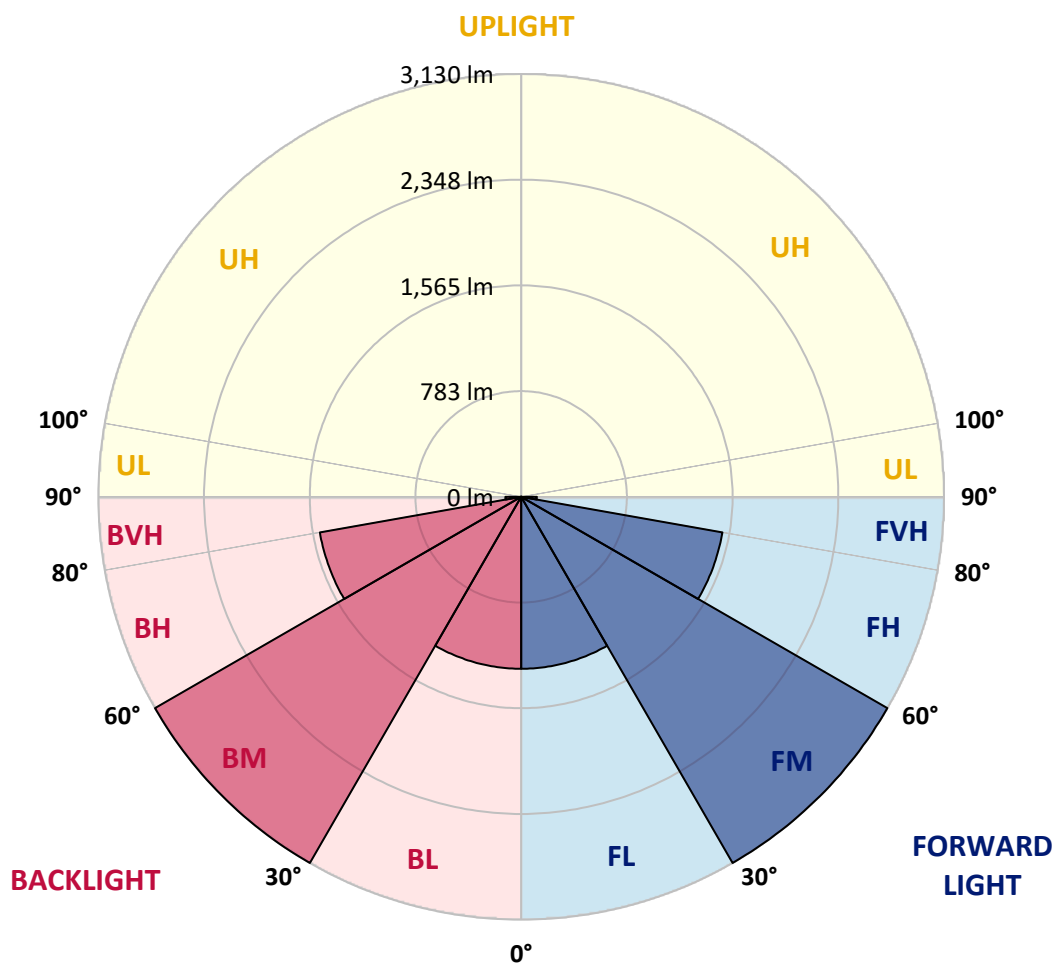
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.7	10.5			
FM	(30°-60°)	3130.5	25.9			
FH	(60°-80°)	1513.4	12.5			G1/1800
FVH	(80°-90°)	116.6	1.0			G2/225
BL	(0°-30°)	1272.7	10.5	B3/2500		
BM	(30°-60°)	3130.5	25.9	B3/5000		
BH	(60°-80°)	1513.4	12.5	B3/2500		G1/1800
BVH	(80°-90°)	116.6	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°	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8
2.5°	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8
5°	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3085.2	3082.8
7.5°	3080.5	3080.5	3080.5	3080.5	3082.8	3080.5	3080.5	3082.8	3082.8	3082.8	3082.8
10°	3075.7	3073.3	3073.3	3075.7	3075.7	3075.7	3075.7	3075.7	3078.1	3075.7	3075.7
12.5°	3068.6	3066.2	3068.6	3068.6	3068.6	3070.9	3070.9	3070.9	3073.3	3073.3	3070.9
15°	3061.4	3061.4	3061.4	3061.4	3061.4	3063.8	3063.8	3066.2	3066.2	3066.2	3066.2
17.5°	3051.9	3051.9	3051.9	3054.3	3054.3	3056.7	3056.7	3056.7	3059.0	3059.0	3059.0
20°	3035.3	3032.9	3035.3	3035.3	3037.6	3040.0	3040.0	3042.4	3042.4	3042.4	3042.4
22.5°	3011.5	3011.5	3013.9	3013.9	3016.2	3018.6	3018.6	3021.0	3021.0	3021.0	3021.0
25°	2987.7	2990.1	2990.1	2992.4	2992.4	2994.8	2997.2	2997.2	2997.2	2997.2	2997.2
27.5°	2963.9	2966.3	2966.3	2966.3	2968.7	2971.0	2973.4	2975.8	2978.2	2975.8	2975.8
30°	2937.7	2937.7	2940.1	2942.5	2944.9	2947.2	2952.0	2954.4	2956.8	2954.4	2954.4
32.5°	2909.2	2911.6	2913.9	2916.3	2921.1	2925.8	2930.6	2933.0	2935.4	2933.0	2933.0
35°	2887.8	2887.8	2892.5	2897.3	2902.1	2909.2	2913.9	2918.7	2923.5	2921.1	2918.7
37.5°	2866.4	2866.4	2871.1	2878.3	2887.8	2897.3	2906.8	2913.9	2916.3	2916.3	2913.9
40°	2840.2	2842.6	2847.3	2859.2	2873.5	2885.4	2897.3	2906.8	2911.6	2911.6	2906.8
42.5°	2811.7	2814.0	2821.2	2833.1	2849.7	2864.0	2878.3	2885.4	2892.5	2892.5	2887.8
45°	2771.2	2773.6	2783.1	2795.0	2811.7	2825.9	2842.6	2849.7	2859.2	2856.9	2854.5
47.5°	2718.9	2721.3	2730.8	2742.7	2759.3	2776.0	2792.6	2804.5	2811.7	2811.7	2809.3
50°	2654.7	2657.0	2666.6	2678.5	2699.9	2718.9	2735.5	2747.4	2759.3	2759.3	2756.9
52.5°	2573.8	2578.5	2585.7	2602.3	2626.1	2647.5	2668.9	2688.0	2695.1	2697.5	2695.1
55°	2473.9	2478.6	2488.2	2507.2	2533.3	2559.5	2583.3	2604.7	2614.2	2621.4	2616.6
57.5°	2357.3	2362.1	2374.0	2395.4	2423.9	2450.1	2481.0	2504.8	2511.9	2519.1	2516.7
60°	2219.4	2226.5	2238.4	2262.2	2290.7	2319.3	2347.8	2376.4	2383.5	2393.0	2388.2
62.5°	2057.6	2064.7	2076.6	2102.8	2133.7	2159.9	2193.2	2219.4	2226.5	2236.0	2233.6
65°	1872.1	1879.2	1891.1	1919.6	1948.2	1976.7	2007.6	2036.2	2043.3	2052.8	2050.5
67.5°	1660.4	1667.5	1679.4	1712.7	1741.2	1769.8	1795.9	1824.5	1829.2	1838.8	1836.4
70°	1436.8	1446.3	1455.8	1486.7	1512.9	1536.7	1565.2	1589.0	1598.5	1603.3	1598.5
72.5°	1213.2	1220.3	1229.8	1251.2	1270.2	1291.7	1320.2	1336.8	1344.0	1346.4	1346.4
75°	982.4	989.6	989.6	1013.3	1027.6	1039.5	1063.3	1075.2	1079.9	1084.7	1084.7
77.5°	763.6	758.8	763.6	773.1	782.6	792.1	806.4	813.5	818.3	827.8	823.0
80°	535.2	537.6	540.0	547.1	551.9	554.2	563.8	566.1	568.5	578.0	573.3
82.5°	344.9	340.2	344.9	342.5	347.3	340.2	344.9	352.1	347.3	352.1	354.4
85°	180.8	173.6	173.6	176.0	178.4	173.6	176.0	173.6	173.6	178.4	176.0
87.5°	57.1	54.7	57.1	54.7	57.1	54.7	57.1	59.5	57.1	57.1	59.5
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°	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8
2.5°	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8
5°	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8	3082.8
7.5°	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3078.1	3080.5
10°	3075.7	3075.7	3075.7	3075.7	3073.3	3073.3	3073.3	3073.3
12.5°	3070.9	3070.9	3068.6	3068.6	3068.6	3068.6	3066.2	3066.2
15°	3066.2	3063.8	3063.8	3061.4	3061.4	3061.4	3059.0	3061.4
17.5°	3059.0	3056.7	3056.7	3054.3	3054.3	3051.9	3051.9	3051.9
20°	3042.4	3040.0	3040.0	3037.6	3037.6	3035.3	3032.9	3032.9
22.5°	3018.6	3018.6	3018.6	3016.2	3013.9	3013.9	3011.5	3011.5
25°	2997.2	2994.8	2994.8	2992.4	2990.1	2990.1	2987.7	2987.7
27.5°	2975.8	2973.4	2971.0	2966.3	2966.3	2963.9	2961.5	2959.1
30°	2952.0	2947.2	2942.5	2940.1	2937.7	2933.0	2930.6	2928.2
32.5°	2928.2	2923.5	2918.7	2913.9	2906.8	2904.4	2899.7	2899.7
35°	2913.9	2906.8	2899.7	2890.2	2883.0	2875.9	2871.1	2868.7
37.5°	2906.8	2897.3	2885.4	2873.5	2861.6	2852.1	2845.0	2845.0
40°	2897.3	2885.4	2871.1	2854.5	2840.2	2828.3	2821.2	2818.8
42.5°	2878.3	2866.4	2847.3	2833.1	2814.0	2802.1	2792.6	2790.3
45°	2845.0	2833.1	2816.4	2797.4	2778.4	2764.1	2754.6	2752.2
47.5°	2802.1	2787.9	2768.8	2749.8	2730.8	2714.1	2704.6	2702.2
50°	2747.4	2733.2	2714.1	2695.1	2673.7	2657.0	2645.1	2645.1
52.5°	2685.6	2668.9	2647.5	2626.1	2602.3	2585.7	2573.8	2571.4
55°	2604.7	2585.7	2564.3	2540.5	2514.3	2495.3	2481.0	2478.6
57.5°	2504.8	2483.4	2459.6	2433.4	2407.3	2385.9	2369.2	2366.8
60°	2378.7	2354.9	2331.2	2305.0	2276.4	2252.7	2236.0	2231.2
62.5°	2224.1	2197.9	2171.8	2148.0	2117.1	2093.3	2076.6	2071.9
65°	2041.0	2019.5	1993.4	1964.8	1931.5	1907.7	1891.1	1888.7
67.5°	1826.9	1805.5	1779.3	1753.1	1719.8	1698.4	1681.8	1677.0
70°	1591.4	1572.3	1550.9	1524.8	1496.2	1474.8	1458.2	1455.8
72.5°	1341.6	1325.0	1305.9	1286.9	1258.3	1241.7	1227.4	1225.0
75°	1084.7	1068.1	1053.8	1039.5	1018.1	1006.2	991.9	991.9
77.5°	823.0	818.3	808.8	792.1	780.2	770.7	763.6	758.8
80°	575.7	570.9	566.1	556.6	549.5	547.1	542.4	537.6
82.5°	352.1	349.7	352.1	347.3	344.9	344.9	342.5	337.8
85°	178.4	180.8	178.4	176.0	176.0	176.0	176.0	173.6
87.5°	57.1	59.5	57.1	54.7	54.7	54.7	54.7	52.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)