

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: P300627

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-RW-8030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23910.9 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 249
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



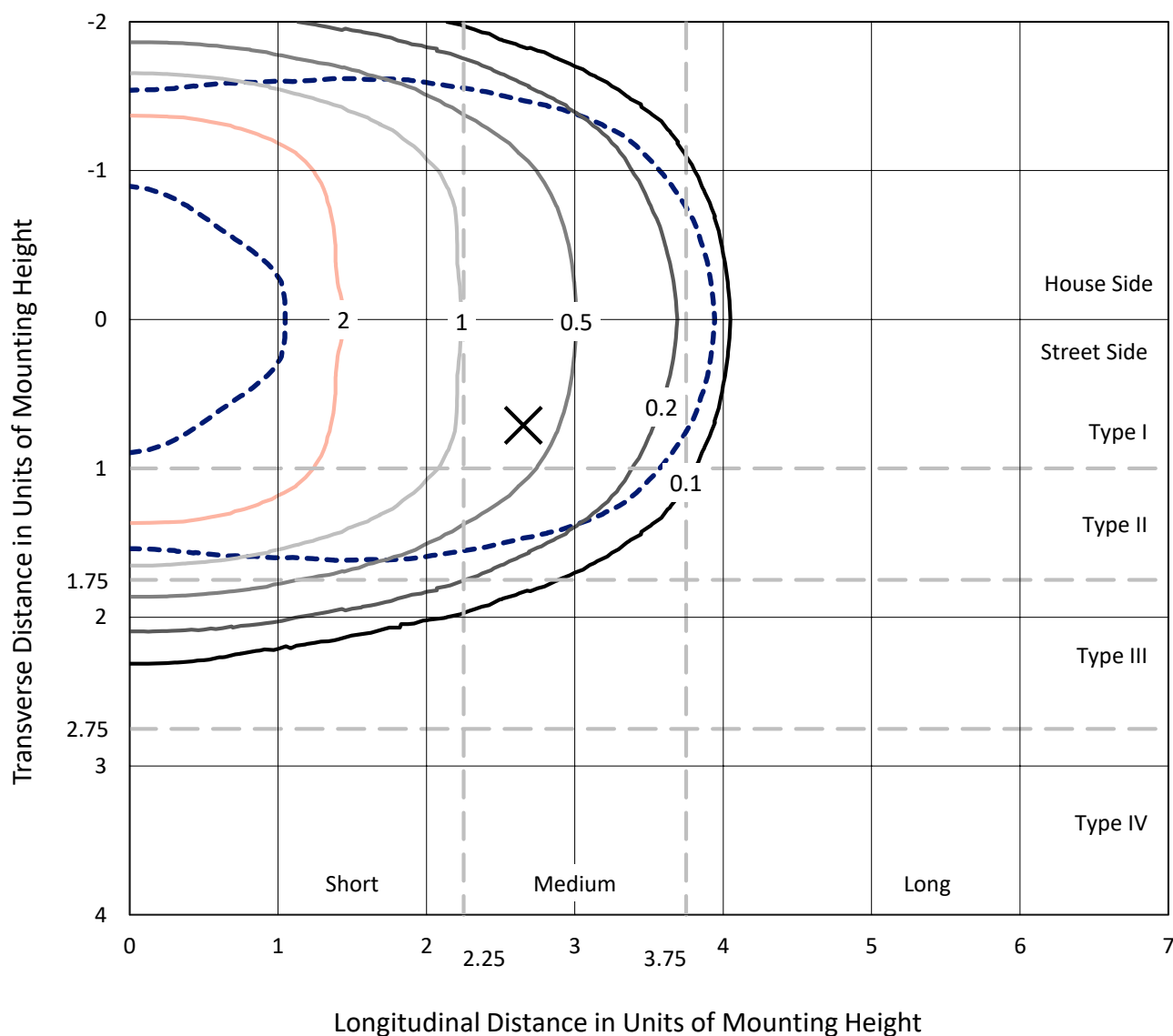
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

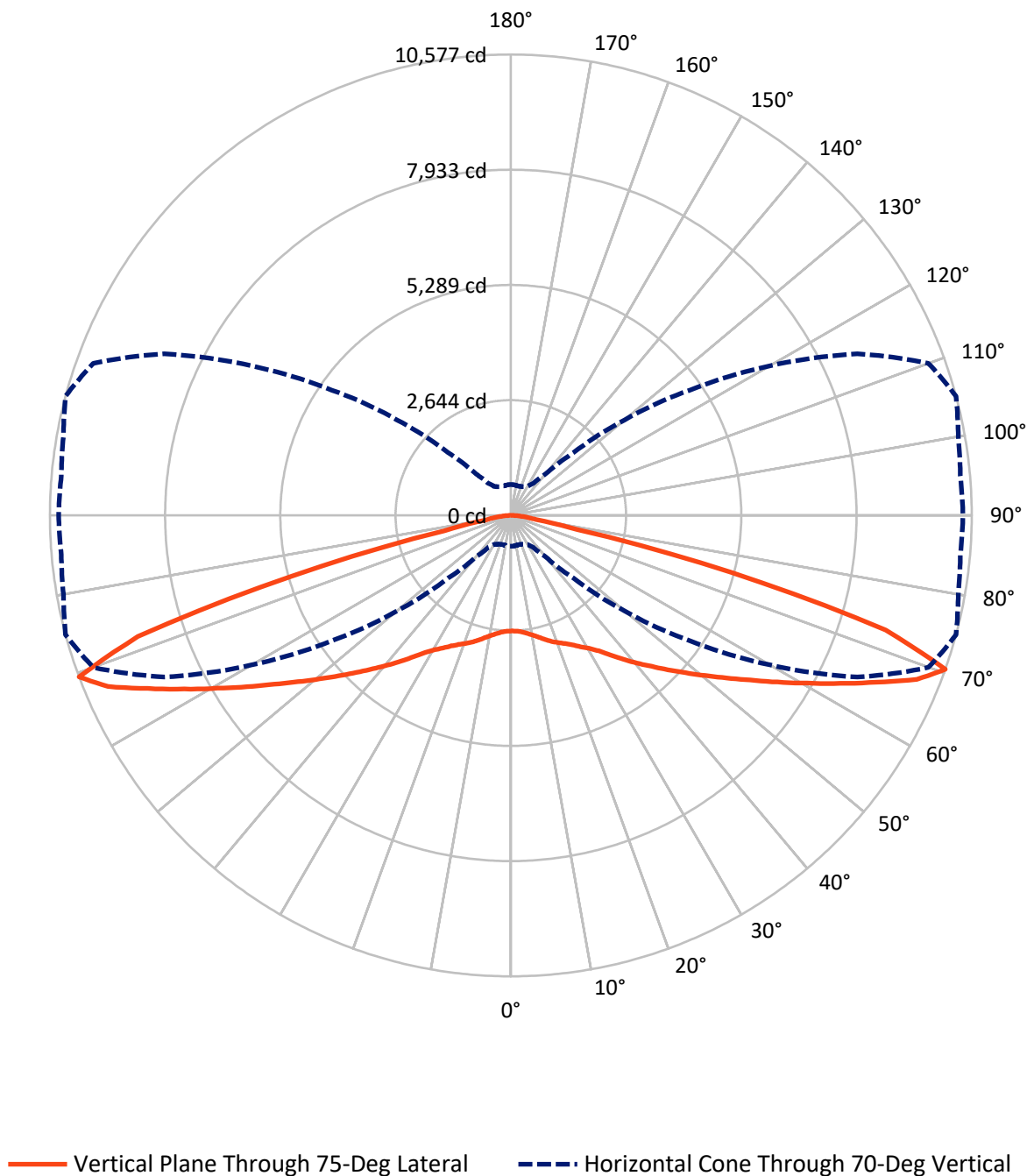


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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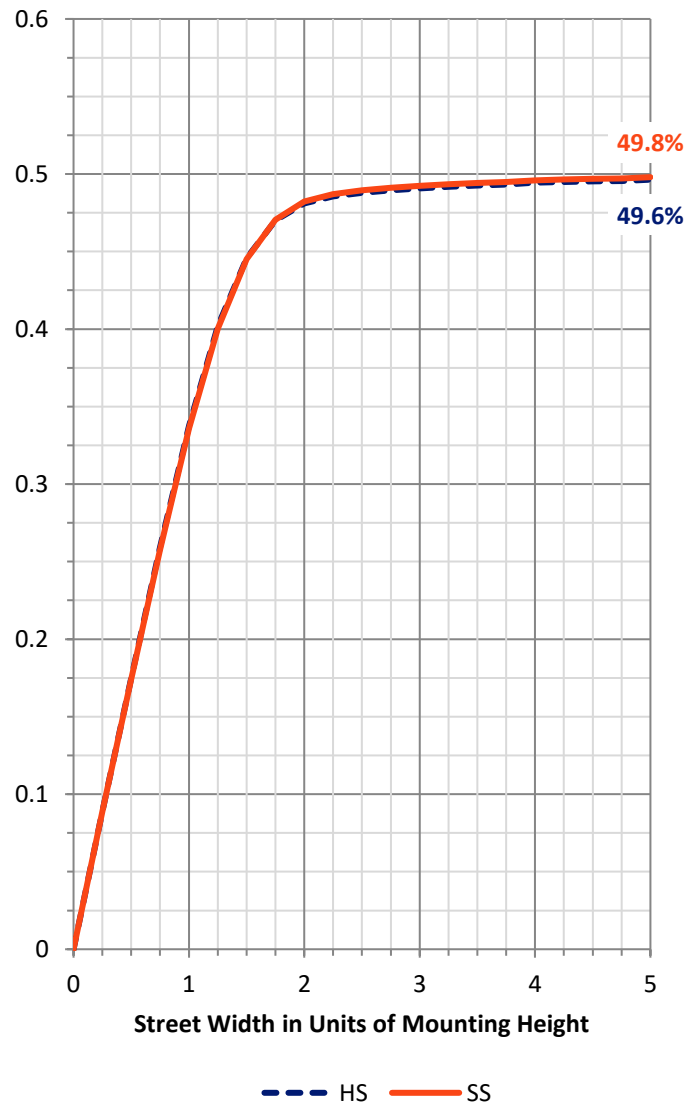
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11955.4	0.0	11955.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11955.4	0.0	11955.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	23910.9	0.0	23910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.1
10°-20°	790.4	3.3
20°-30°	1487.6	6.2
30°-40°	2634.3	11.0
40°-50°	4405.3	18.4
50°-60°	6138.9	25.7
60°-70°	5692.8	23.8
70°-80°	2268.8	9.5
80°-90°	238.5	1.0
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°	23910.9	100.0
0°-180°	23910.9	100.0

Coefficient of Utilization



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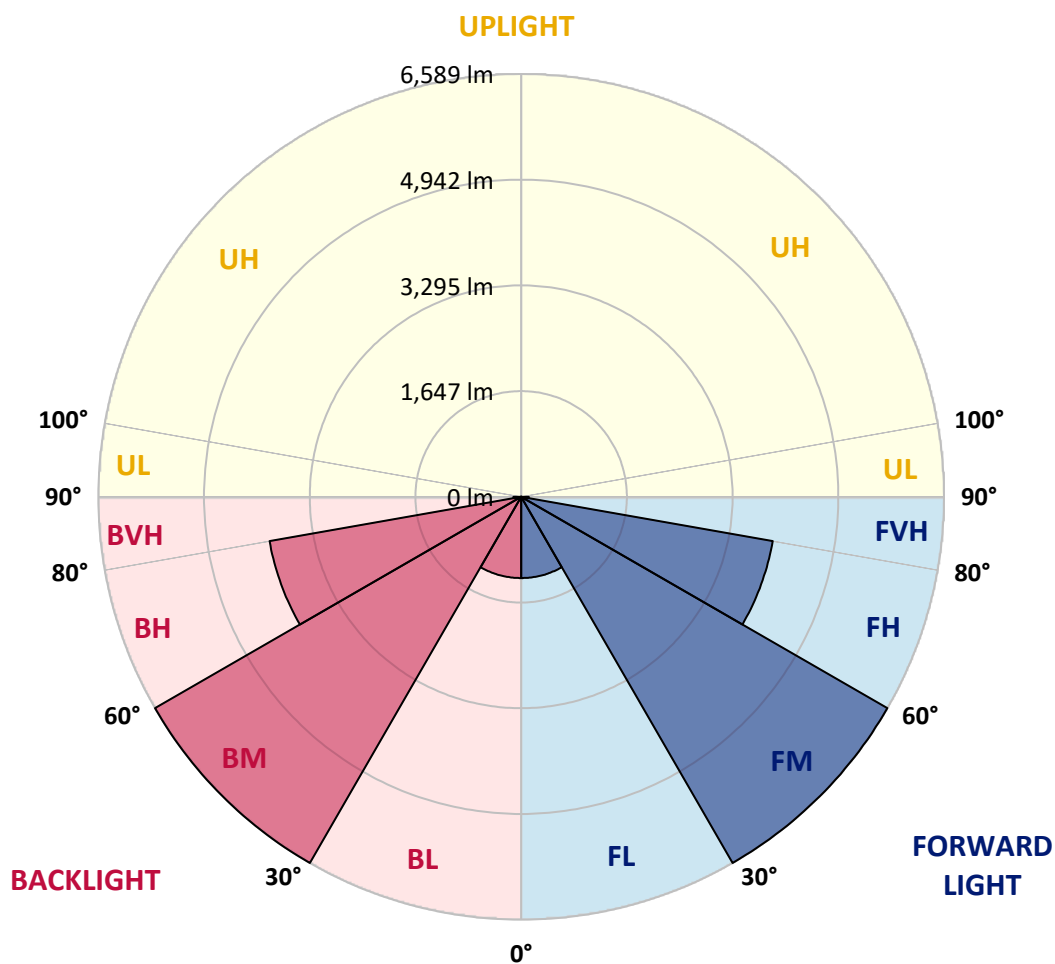
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1266.2	5.3			
FM	(30°-60°)	6589.2	27.6			
FH	(60°-80°)	3980.8	16.6			G2/5000
FVH	(80°-90°)	119.2	0.5			G2/225
BL	(0°-30°)	1266.2	5.3	B3/2500		
BM	(30°-60°)	6589.2	27.6	B4/8500		
BH	(60°-80°)	3980.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	119.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2647.7	2645.5	2647.7	2646.6	2648.9	2648.9	2651.1	2655.7	2655.7	2659.1	2657.9
5°	2621.8	2620.6	2624.0	2627.4	2630.8	2637.6	2644.4	2654.5	2662.4	2668.1	2673.7
7.5°	2570.9	2570.9	2575.4	2583.3	2591.2	2605.9	2621.8	2642.1	2662.4	2679.4	2694.1
10°	2529.1	2531.4	2537.0	2550.6	2564.1	2586.7	2608.2	2637.6	2665.8	2694.1	2716.7
12.5°	2504.2	2507.6	2517.8	2538.1	2560.7	2591.2	2624.0	2661.3	2693.0	2726.9	2749.5
15°	2512.1	2514.4	2529.1	2554.0	2583.3	2621.8	2665.8	2709.9	2747.2	2783.4	2813.9
17.5°	2556.2	2559.6	2576.6	2604.8	2635.3	2680.5	2728.0	2777.7	2824.0	2864.7	2902.0
20°	2635.3	2638.7	2660.2	2690.7	2726.9	2773.2	2820.7	2872.6	2924.6	2967.6	3009.4
22.5°	2747.2	2752.8	2773.2	2803.7	2844.4	2894.1	2950.6	3006.0	3055.7	3095.3	3132.5
25°	2894.1	2906.5	2925.7	2959.6	3002.6	3047.8	3108.8	3165.3	3212.8	3250.1	3277.2
27.5°	3102.0	3119.0	3133.7	3166.5	3208.3	3251.2	3312.2	3362.0	3407.2	3443.3	3463.7
30°	3377.8	3394.7	3409.4	3441.1	3479.5	3520.2	3577.8	3621.9	3650.1	3678.4	3677.2
32.5°	3712.3	3730.4	3736.0	3769.9	3809.5	3853.5	3905.5	3930.4	3953.0	3956.4	3936.0
35°	4086.3	4095.4	4118.0	4163.2	4208.4	4244.5	4294.3	4306.7	4306.7	4289.7	4244.5
37.5°	4496.5	4502.2	4533.8	4584.7	4631.0	4668.3	4702.2	4727.1	4714.6	4678.5	4602.8
40°	4946.3	4956.5	5001.7	5046.9	5098.9	5133.9	5170.1	5174.6	5162.2	5109.0	5006.2
42.5°	5375.7	5384.8	5430.0	5501.2	5569.0	5617.6	5651.5	5658.3	5618.7	5570.1	5442.4
45°	5745.3	5769.0	5827.8	5911.4	6009.7	6078.6	6125.0	6144.2	6109.1	6045.9	5897.8
47.5°	6038.0	6061.7	6145.3	6244.8	6366.8	6478.7	6555.5	6596.2	6587.2	6539.7	6378.1
50°	6252.7	6275.3	6365.7	6487.7	6630.1	6769.1	6900.2	6997.4	7031.3	7009.8	6861.8
52.5°	6277.5	6314.8	6421.0	6584.9	6770.2	6960.1	7146.6	7311.5	7423.4	7440.4	7330.8
55°	5930.6	5967.9	6114.8	6357.8	6633.5	6943.1	7241.5	7519.5	7739.8	7852.8	7795.2
57.5°	5112.4	5179.1	5333.9	5618.7	6024.4	6487.7	6963.5	7457.3	7906.0	8205.4	8263.1
60°	3917.9	3997.1	4153.0	4455.9	4907.9	5460.5	6095.6	6825.6	7617.8	8291.3	8693.6
62.5°	2513.3	2587.9	2751.7	3015.0	3383.4	3982.4	4663.8	5530.6	6595.1	7658.5	8616.8
65°	1291.7	1332.4	1418.2	1577.6	1864.6	2312.1	2923.5	3788.0	5005.1	6317.1	7702.5
67.5°	818.2	826.1	845.3	867.9	941.3	1096.2	1380.9	1920.0	2921.2	4289.7	5911.4
70°	707.4	707.4	698.4	695.0	704.0	725.5	769.6	895.0	1232.9	2036.4	3409.4
72.5°	647.5	640.7	624.9	612.5	610.2	610.2	619.3	638.5	692.7	829.5	1334.6
75°	596.7	577.5	556.0	541.3	535.7	530.0	528.9	532.3	543.6	565.0	637.4
77.5°	534.5	509.7	484.8	470.1	463.3	455.4	448.6	440.7	435.1	441.9	473.5
80°	459.9	431.7	412.5	403.4	396.7	385.4	370.7	357.1	344.7	342.4	361.6
82.5°	370.7	337.9	339.0	342.4	330.0	314.2	298.3	283.6	262.2	250.9	262.2
85°	299.5	282.5	274.6	296.1	278.0	254.3	229.4	203.4	169.5	142.4	154.8
87.5°	116.4	116.4	174.0	267.8	240.7	196.6	168.4	143.5	89.3	68.9	70.1
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°	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2656.8	2659.1	2657.9	2656.8	2656.8	2655.7	2656.8	2656.8
5°	2677.1	2682.8	2682.8	2685.0	2685.0	2686.2	2687.3	2686.2
7.5°	2707.6	2717.8	2724.6	2732.5	2733.6	2734.8	2737.0	2734.8
10°	2738.2	2758.5	2773.2	2787.9	2794.7	2796.9	2799.2	2799.2
12.5°	2776.6	2804.8	2830.8	2856.8	2869.2	2876.0	2876.0	2880.5
15°	2839.9	2868.1	2898.6	2933.7	2955.1	2966.4	2969.8	2969.8
17.5°	2929.1	2954.0	2980.0	3013.9	3041.0	3055.7	3059.1	3058.0
20°	3033.1	3056.8	3071.5	3093.0	3116.7	3133.7	3138.2	3138.2
22.5°	3151.8	3165.3	3167.6	3174.4	3193.6	3216.2	3226.3	3228.6
25°	3282.8	3286.2	3277.2	3277.2	3289.6	3311.1	3321.3	3322.4
27.5°	3452.4	3435.4	3412.8	3404.9	3412.8	3437.7	3450.1	3454.6
30°	3663.7	3623.0	3571.0	3542.8	3538.2	3571.0	3593.6	3597.0
32.5°	3905.5	3846.8	3777.8	3720.2	3705.5	3725.8	3753.0	3751.8
35°	4192.6	4122.5	4038.9	3965.4	3931.5	3951.8	3990.3	3994.8
37.5°	4523.7	4432.1	4336.1	4243.4	4190.3	4195.9	4236.6	4250.2
40°	4893.2	4774.5	4653.6	4529.3	4453.6	4438.9	4488.6	4496.5
42.5°	5288.7	5136.2	4983.6	4829.9	4732.7	4710.1	4767.8	4764.4
45°	5710.2	5515.9	5337.3	5167.8	5052.5	5018.6	5066.1	5066.1
47.5°	6163.4	5923.8	5711.4	5519.3	5393.8	5345.2	5390.4	5393.8
50°	6643.7	6389.4	6139.7	5926.1	5775.8	5713.6	5772.4	5781.4
52.5°	7121.7	6874.2	6622.2	6378.1	6196.2	6120.4	6188.3	6217.6
55°	7606.5	7363.5	7122.8	6884.4	6668.5	6579.3	6651.6	6688.9
57.5°	8118.4	7893.5	7664.1	7423.4	7215.5	7076.5	7153.3	7203.1
60°	8718.5	8526.4	8287.9	8022.4	7812.2	7670.9	7715.0	7759.0
62.5°	9193.1	9267.7	9065.4	8758.0	8487.9	8307.1	8350.1	8396.4
65°	8963.7	9728.8	9908.4	9597.7	9223.6	8942.2	8924.1	8947.9
67.5°	7492.4	8978.4	10062.1	10358.2	10045.2	9654.2	9581.8	9616.9
70°	5011.9	6862.9	8775.0	10198.9	10577.4	10426.0	10354.8	10376.3
72.5°	2407.0	3997.1	5953.2	7846.1	8998.7	9527.6	9697.1	9779.6
75°	880.3	1586.6	2869.2	4323.6	5219.8	6042.5	6579.3	6798.5
77.5°	531.1	640.7	916.5	1379.8	1562.9	1749.3	1677.0	1713.2
80°	393.3	444.1	502.9	565.0	585.4	585.4	562.8	544.7
82.5°	275.7	308.5	336.8	370.7	379.7	362.8	298.3	237.3
85°	177.4	192.1	204.5	226.0	220.4	210.2	141.3	125.4
87.5°	81.4	92.7	97.2	107.4	102.8	98.3	70.1	58.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)