

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: P192553

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30226.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 279
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

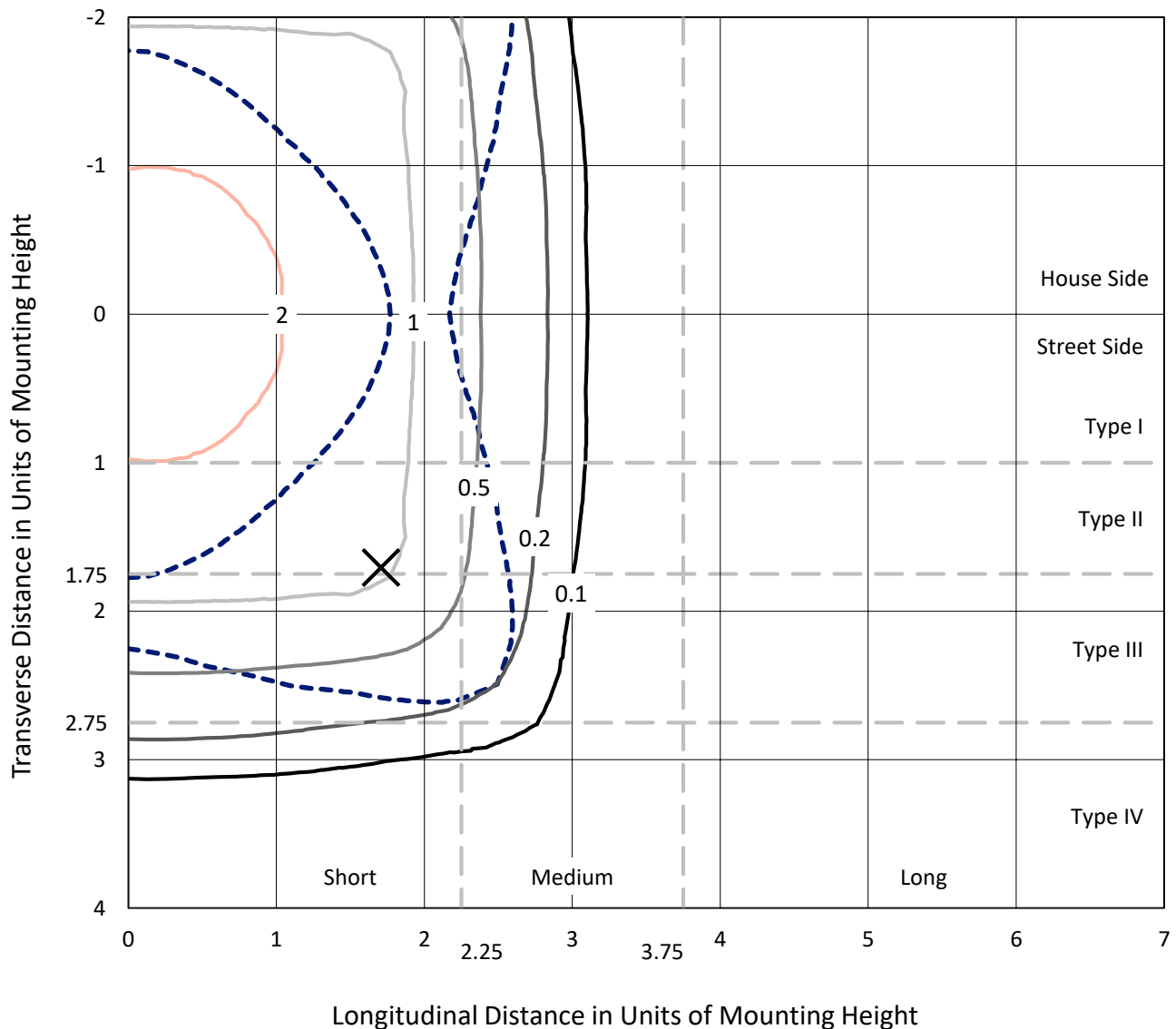


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

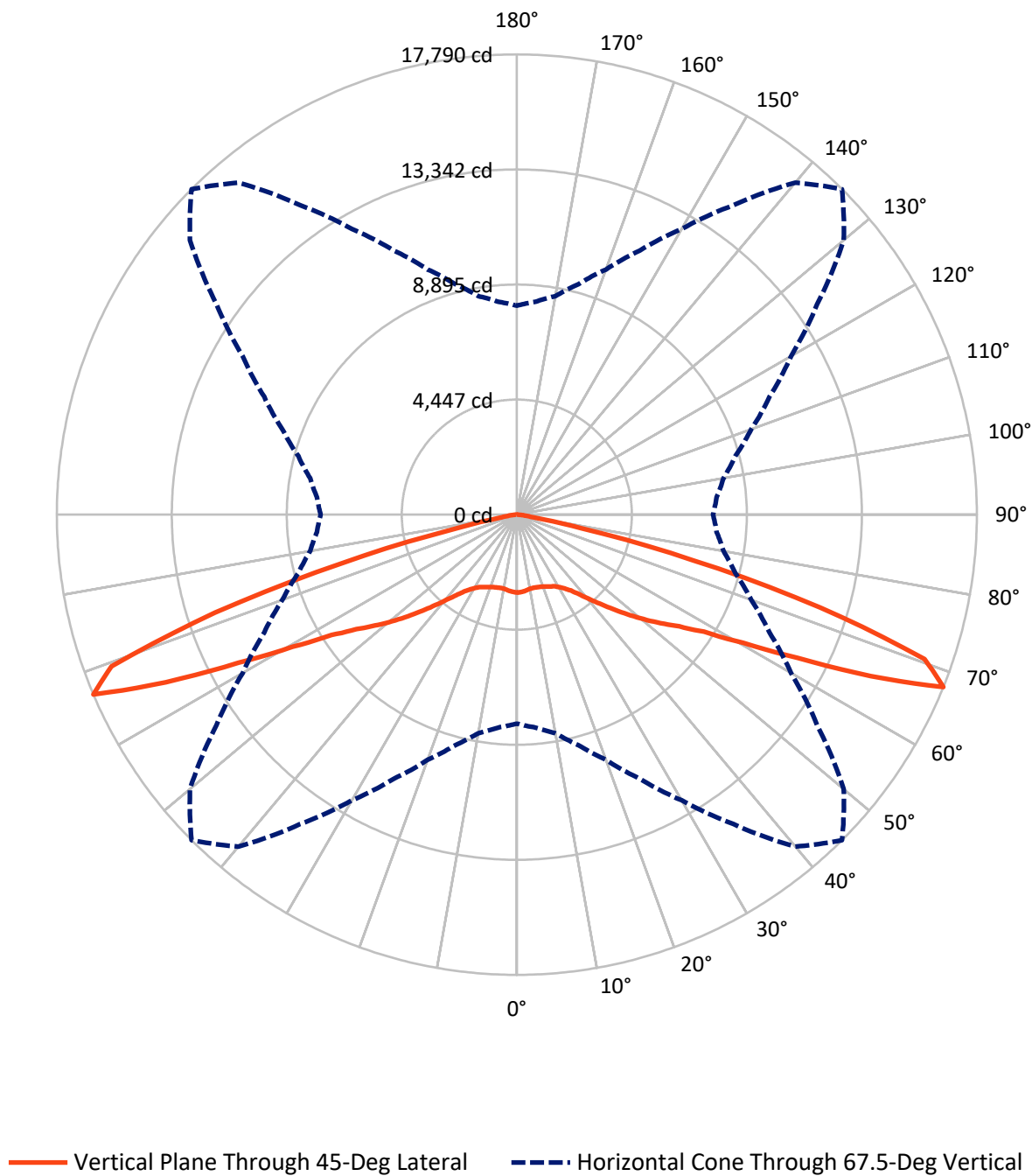


Based on 30 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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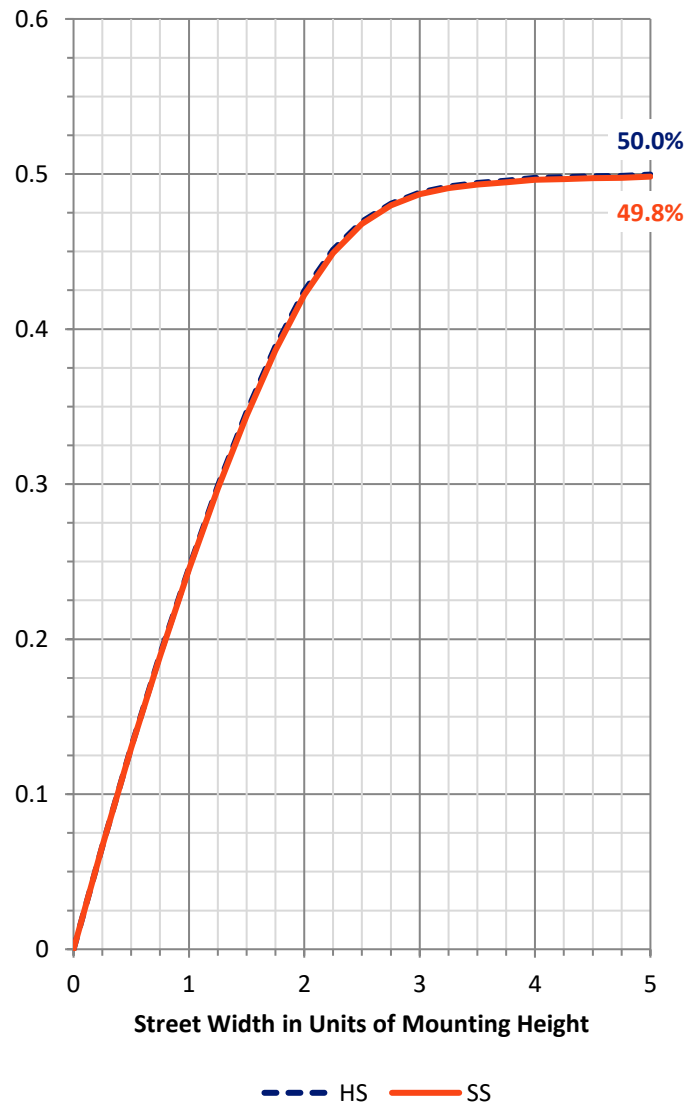
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15113.3	0.0	15113.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15113.3	0.0	15113.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	30226.6	0.0	30226.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	0.9
10°-20°	818.1	2.7
20°-30°	1390.8	4.6
30°-40°	2273.5	7.5
40°-50°	4058.5	13.4
50°-60°	6842.8	22.6
60°-70°	10619.0	35.1
70°-80°	3731.0	12.3
80°-90°	210.9	0.7
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°	30226.6	100.0
0°-180°	30226.6	100.0

Coefficient of Utilization



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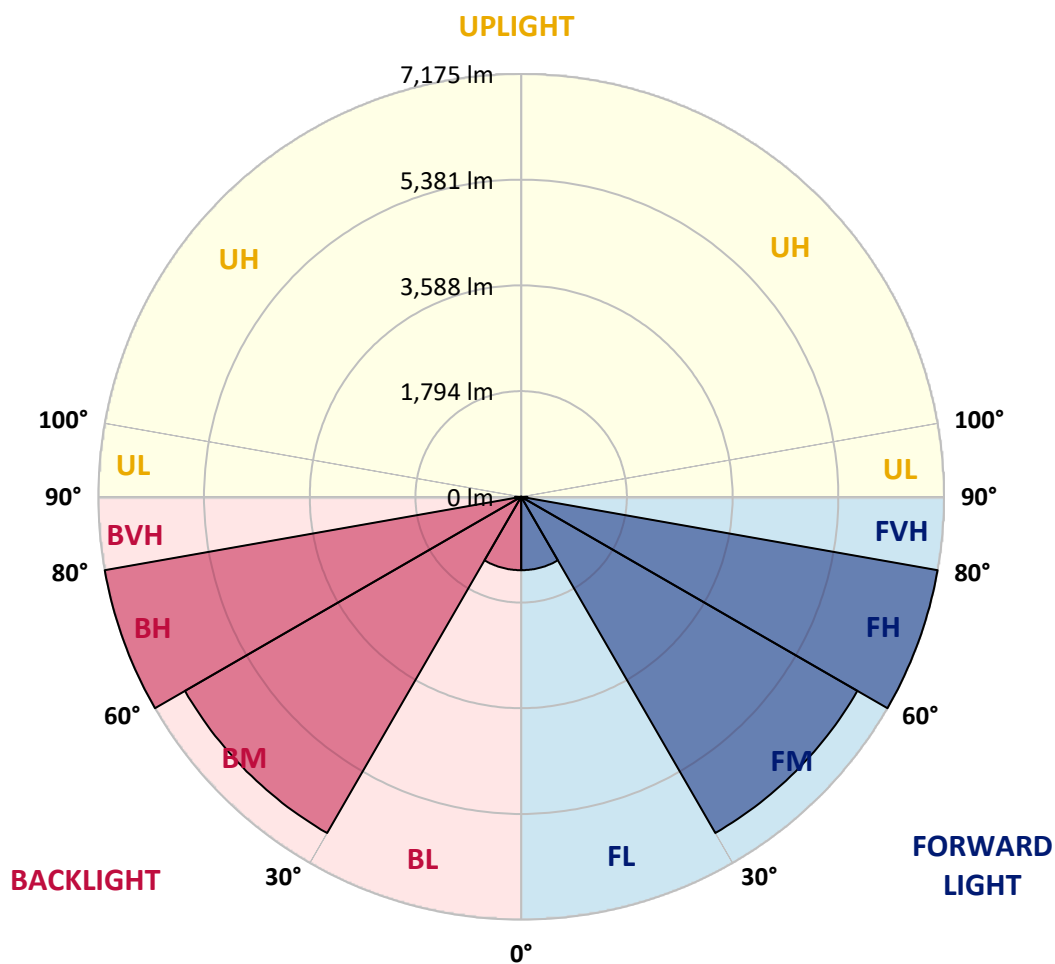
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.4	4.1			
FM	(30°-60°)	6587.4	21.8			
FH	(60°-80°)	7175.0	23.7			G3/7500
FVH	(80°-90°)	105.4	0.3			G2/225
BL	(0°-30°)	1245.4	4.1	B3/2500		
BM	(30°-60°)	6587.4	21.8	B4/8500		
BH	(60°-80°)	7175.0	23.7	B5		G3/7500
BVH	(80°-90°)	105.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2
2.5°	3001.2	3003.9	3003.9	3003.9	3002.5	3002.5	2999.7	3002.5	3001.2	2996.9	2998.3
5°	2976.1	2978.9	2978.9	2977.5	2981.5	2980.3	2976.1	2978.9	2977.5	2974.7	2976.1
7.5°	2939.9	2944.1	2944.1	2942.7	2946.8	2945.5	2942.7	2944.1	2944.1	2939.9	2939.9
10°	2899.6	2902.4	2902.4	2901.1	2907.9	2907.9	2906.6	2910.7	2912.1	2907.9	2905.2
12.5°	2862.0	2866.2	2866.2	2871.8	2878.8	2881.5	2888.5	2894.1	2899.6	2898.2	2892.6
15°	2839.8	2842.6	2848.2	2855.2	2866.2	2876.0	2887.0	2899.6	2910.7	2913.5	2905.2
17.5°	2826.0	2830.2	2838.4	2848.2	2863.4	2880.2	2896.8	2913.5	2928.8	2934.3	2924.7
20°	2821.7	2824.6	2832.9	2849.6	2870.5	2895.5	2919.1	2938.5	2959.4	2966.4	2959.4
22.5°	2830.2	2835.8	2845.4	2864.9	2892.6	2924.7	2952.4	2978.9	3005.2	3017.7	3008.0
25°	2867.6	2873.2	2885.7	2910.7	2941.3	2974.7	3006.6	3037.2	3060.9	3073.4	3066.5
27.5°	2937.1	2944.1	2959.4	2984.4	3017.7	3053.9	3088.6	3113.7	3133.1	3137.3	3128.9
30°	3041.4	3056.6	3074.8	3102.5	3141.5	3172.1	3206.8	3229.0	3252.6	3252.6	3245.8
32.5°	3204.0	3219.4	3238.8	3265.2	3295.8	3329.1	3359.7	3379.2	3404.2	3405.6	3388.9
35°	3447.2	3454.2	3470.9	3487.5	3515.4	3544.6	3571.0	3583.4	3604.4	3605.8	3590.5
37.5°	3768.4	3769.8	3780.9	3786.5	3811.5	3843.4	3868.5	3876.8	3896.3	3893.5	3878.1
40°	4142.3	4149.2	4153.4	4161.8	4188.1	4218.7	4245.2	4249.3	4270.2	4266.0	4246.6
42.5°	4574.5	4577.4	4601.0	4613.5	4638.5	4653.8	4687.2	4691.4	4716.4	4705.2	4683.1
45°	5059.7	5084.7	5107.0	5132.0	5158.4	5176.4	5202.9	5197.4	5214.1	5197.4	5184.8
47.5°	5569.8	5587.9	5638.0	5676.9	5719.9	5735.2	5772.8	5756.1	5772.8	5749.2	5745.0
50°	6131.4	6163.5	6206.5	6250.9	6296.8	6321.8	6370.6	6349.7	6371.9	6349.7	6337.1
52.5°	6684.7	6693.0	6787.5	6852.8	6916.7	6946.0	6975.2	6965.5	6966.8	6965.5	6952.9
55°	7210.1	7229.5	7324.0	7413.0	7524.2	7606.3	7656.4	7650.8	7638.2	7625.7	7604.9
57.5°	7802.3	7821.8	7930.1	8040.0	8166.5	8283.3	8384.7	8488.9	8529.3	8540.4	8494.5
60°	8603.0	8601.6	8746.1	8879.5	9060.3	9234.0	9456.4	9683.0	9942.9	10063.9	9904.1
62.5°	9417.5	9450.8	9659.4	9895.6	10268.1	10631.0	11041.0	11444.2	11855.6	12190.6	11834.8
65°	9320.2	9448.0	9758.1	10293.2	10981.3	11798.6	12682.7	13618.2	14463.3	15044.4	14392.4
67.5°	8077.5	8259.6	8575.1	9225.7	10086.0	11264.8	12749.4	14599.6	16749.9	17789.7	16501.1
70°	5854.8	6060.5	6391.3	7026.6	7878.6	8999.1	10611.5	12832.8	15679.6	16727.7	15308.5
72.5°	2913.5	3024.8	3229.0	3633.5	4278.5	5187.6	6649.9	8785.0	11303.8	12265.7	10968.7
75°	989.7	1041.1	1075.8	1208.0	1412.2	1769.6	2496.5	3840.7	5859.0	7023.8	5775.6
77.5°	571.3	572.7	596.3	619.9	654.7	693.6	790.9	1038.4	1795.9	2550.7	1858.5
80°	369.8	368.3	387.9	405.9	429.5	448.9	454.5	481.0	554.6	657.5	588.1
82.5°	191.9	215.5	258.5	282.2	326.6	335.0	323.9	314.1	332.2	344.7	353.0
85°	105.7	91.8	137.6	177.9	197.4	200.2	200.2	189.0	196.0	191.9	208.4
87.5°	48.6	44.5	54.2	87.6	93.1	79.2	83.4	73.6	52.8	51.5	58.4
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°	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2
2.5°	2998.3	2999.7	2999.7	3003.9	3005.2	3008.0	3010.8	3012.2
5°	2974.7	2978.9	2976.1	2980.3	2980.3	2983.0	2983.0	2984.4
7.5°	2939.9	2944.1	2944.1	2944.1	2942.7	2946.8	2946.8	2946.8
10°	2903.8	2906.6	2905.2	2902.4	2899.6	2903.8	2902.4	2901.1
12.5°	2892.6	2885.7	2880.2	2877.4	2871.8	2873.2	2869.0	2869.0
15°	2899.6	2887.0	2877.4	2873.2	2867.6	2864.9	2862.0	2863.4
17.5°	2917.7	2902.4	2889.9	2883.0	2876.0	2871.8	2866.2	2867.6
20°	2949.7	2931.5	2913.5	2899.6	2887.0	2880.2	2876.0	2874.6
22.5°	2996.9	2970.5	2944.1	2923.2	2906.6	2896.8	2892.6	2889.9
25°	3051.2	3021.9	2991.4	2967.7	2951.1	2938.5	2930.3	2930.3
27.5°	3119.3	3095.7	3067.8	3040.0	3024.8	3012.2	3006.6	3003.9
30°	3233.2	3211.0	3188.7	3162.3	3142.9	3130.4	3120.7	3112.2
32.5°	3379.2	3361.2	3343.0	3323.5	3305.5	3288.8	3273.5	3266.7
35°	3584.9	3571.0	3558.5	3536.2	3529.3	3519.6	3511.3	3504.3
37.5°	3868.5	3862.9	3862.9	3839.3	3833.7	3829.5	3821.3	3822.6
40°	4241.0	4246.6	4239.6	4231.3	4227.1	4216.0	4216.0	4225.7
42.5°	4681.6	4685.8	4701.1	4687.2	4702.5	4688.6	4680.2	4687.2
45°	5193.2	5208.5	5239.1	5225.1	5234.8	5211.2	5182.0	5183.5
47.5°	5767.2	5781.1	5793.7	5783.9	5785.3	5746.4	5707.4	5697.8
50°	6363.6	6369.2	6376.1	6362.1	6365.0	6321.8	6277.4	6278.8
52.5°	6952.9	6979.4	7007.2	6969.6	6961.4	6912.7	6850.1	6825.1
55°	7627.2	7664.6	7632.7	7567.3	7502.1	7436.7	7354.7	7340.8
57.5°	8458.5	8394.4	8294.3	8170.6	8080.3	7988.5	7905.1	7870.4
60°	9615.0	9374.5	9193.7	9010.2	8894.8	8782.3	8672.5	8655.7
62.5°	11249.6	10833.9	10473.9	10094.5	9784.5	9542.6	9349.5	9295.1
65°	13298.5	12315.7	11463.6	10668.5	9977.7	9456.4	9128.4	8983.9
67.5°	14179.7	12239.2	10778.3	9649.7	8746.1	8115.0	7760.5	7584.0
70°	12460.3	10150.0	8561.2	7431.2	6608.2	5935.4	5614.4	5425.3
72.5°	8572.4	6456.6	5105.5	4167.3	3509.9	2946.8	2724.5	2707.8
75°	3848.9	2549.3	1757.0	1353.9	1139.8	991.1	945.2	910.4
77.5°	1077.3	796.5	710.3	664.4	619.9	568.4	549.0	553.2
80°	524.0	494.8	475.4	446.3	405.9	362.8	343.3	351.7
82.5°	347.6	343.3	355.8	335.0	276.7	234.9	197.4	180.8
85°	211.3	214.0	218.2	219.6	186.3	130.7	88.9	100.1
87.5°	83.4	95.9	104.3	108.3	101.5	62.6	50.0	51.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)