

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: P299931

Luminaire Tested: **GLNA-AF-10-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-5WQ-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40771 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 419
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

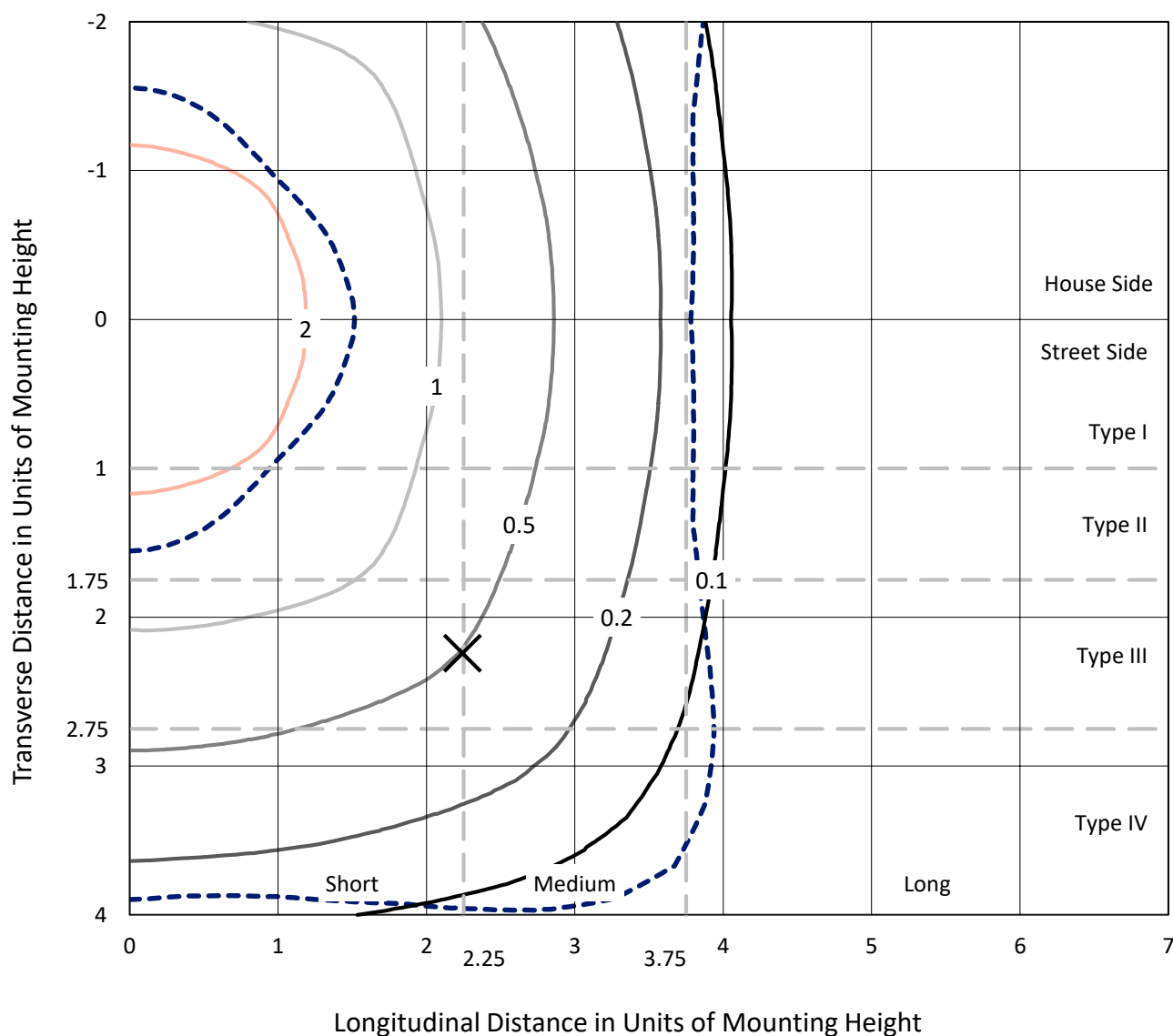


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

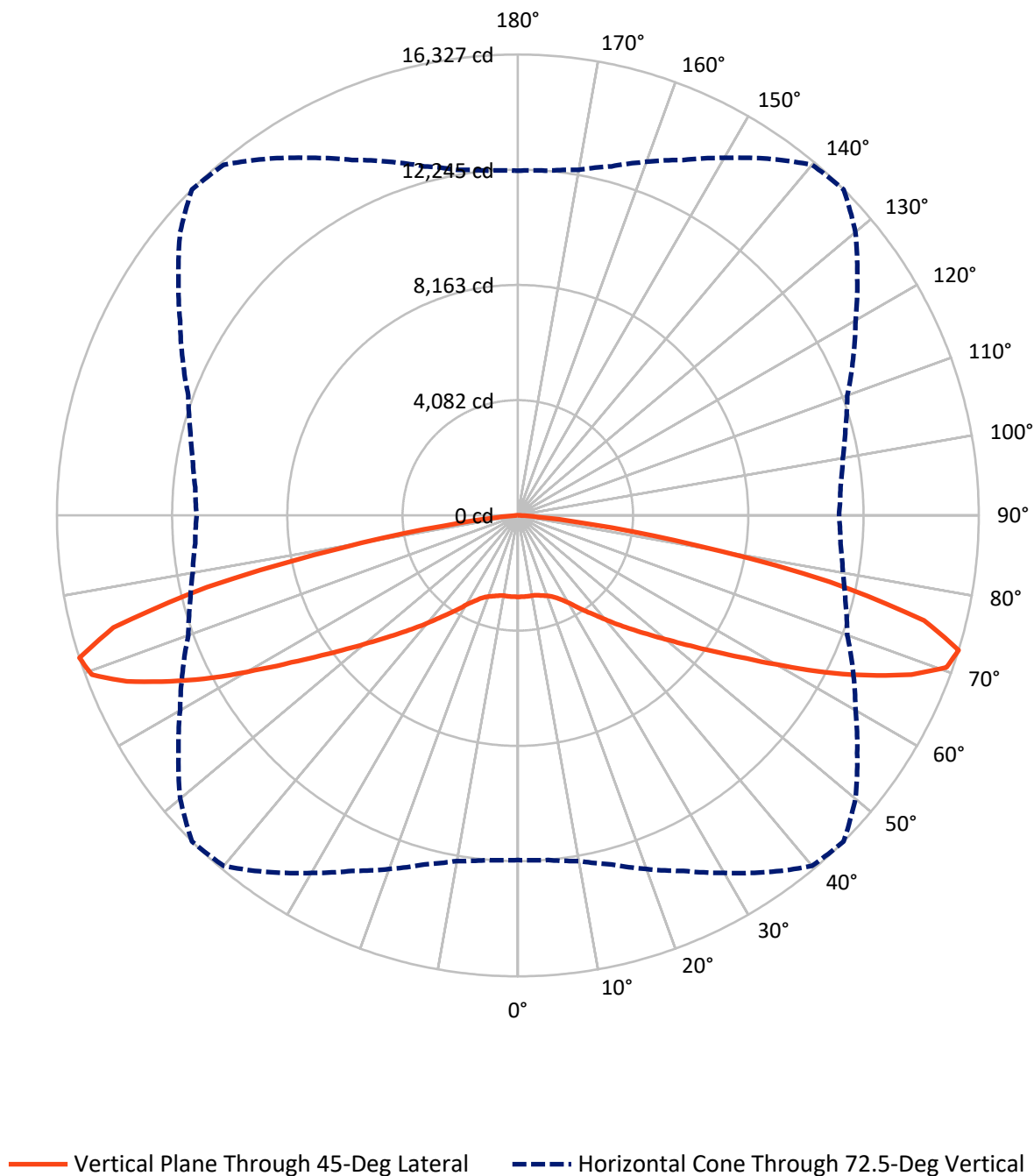


Based on 30 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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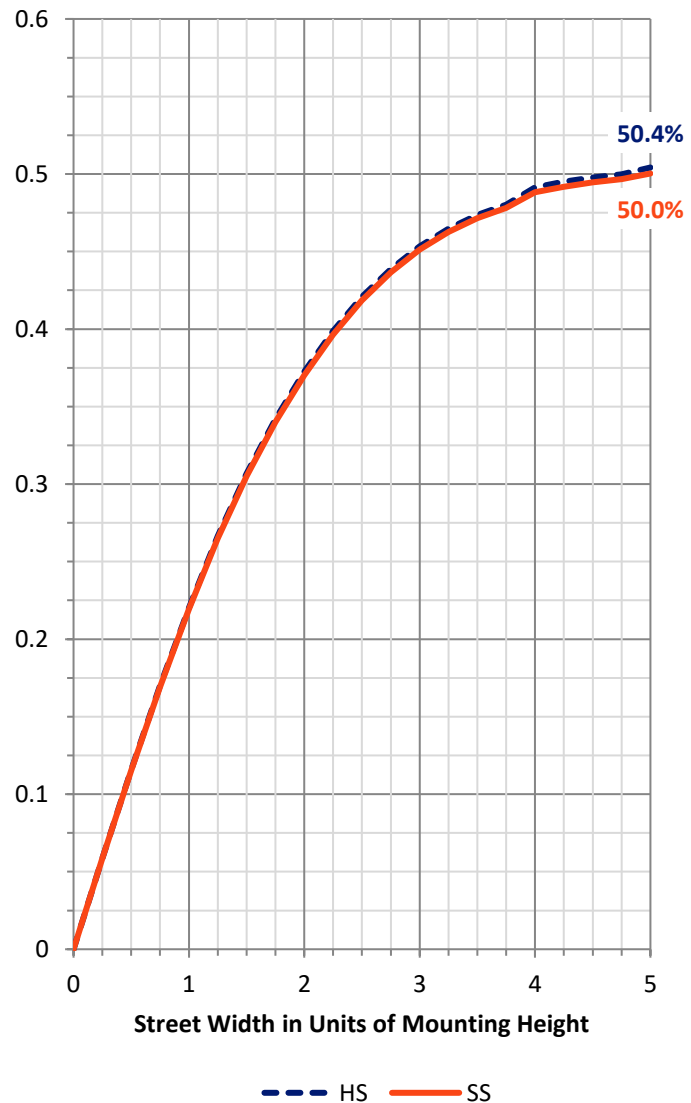
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20385.5	0.0	20385.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20385.5	0.0	20385.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40771.0	0.0	40771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	0.7
10°-20°	837.3	2.1
20°-30°	1530.1	3.8
30°-40°	2638.2	6.5
40°-50°	4510.0	11.1
50°-60°	7310.1	17.9
60°-70°	12127.2	29.7
70°-80°	10681.2	26.2
80°-90°	861.2	2.1
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°	40771.0	100.0
0°-180°	40771.0	100.0

Coefficient of Utilization



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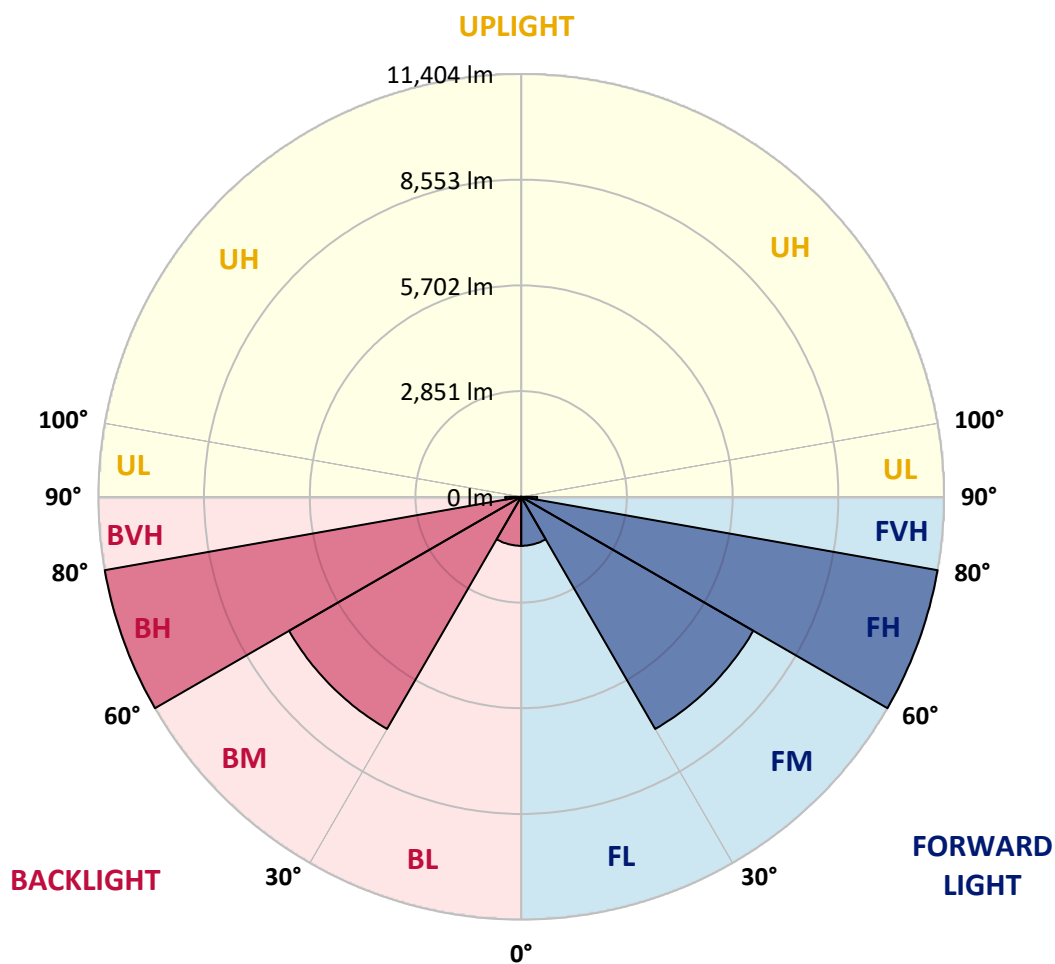
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.6	3.2			
FM	(30°-60°)	7229.1	17.7			
FH	(60°-80°)	11404.2	28.0			G4/12000
FVH	(80°-90°)	430.6	1.1			G3/500
BL	(0°-30°)	1321.6	3.2	B3/2500		
BM	(30°-60°)	7229.1	17.7	B4/8500		
BH	(60°-80°)	11404.2	28.0	B5		G4/12000
BVH	(80°-90°)	430.6	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2
2.5°	2887.2	2889.1	2891.0	2889.1	2889.1	2887.2	2885.3	2887.2	2885.3	2881.6	2883.5
5°	2896.6	2900.3	2900.3	2896.6	2898.4	2896.6	2892.8	2894.7	2891.0	2885.3	2885.3
7.5°	2907.8	2909.7	2909.7	2905.9	2907.8	2904.0	2900.3	2898.4	2894.7	2887.2	2881.6
10°	2924.6	2926.5	2924.6	2920.9	2920.9	2915.3	2905.9	2902.2	2894.7	2883.5	2877.9
12.5°	2943.3	2945.2	2943.3	2939.6	2937.7	2928.4	2920.9	2915.3	2909.7	2900.3	2891.0
15°	2969.5	2973.2	2969.5	2962.0	2956.4	2948.9	2945.2	2947.1	2948.9	2941.4	2932.1
17.5°	3018.1	3020.0	3014.4	2997.5	2990.1	2982.6	2982.6	2986.3	2991.9	2988.2	2978.8
20°	3107.9	3102.3	3089.2	3068.6	3059.3	3046.2	3044.3	3046.2	3046.2	3044.3	3036.8
22.5°	3220.1	3216.3	3199.5	3173.3	3160.2	3152.8	3141.5	3132.2	3130.3	3124.7	3117.2
25°	3354.7	3352.8	3332.3	3309.8	3300.5	3291.1	3281.8	3268.7	3257.5	3244.4	3236.9
27.5°	3526.7	3519.3	3489.3	3478.1	3465.0	3459.4	3446.3	3431.4	3422.0	3405.2	3395.8
30°	3715.6	3715.6	3691.3	3687.6	3687.6	3674.5	3659.5	3633.3	3616.5	3599.7	3594.1
32.5°	3904.5	3906.3	3882.0	3889.5	3895.1	3904.5	3908.2	3898.9	3887.6	3885.8	3874.6
35°	4177.5	4170.0	4145.7	4151.3	4149.4	4147.6	4147.6	4168.1	4171.9	4175.6	4153.2
37.5°	4516.0	4516.0	4491.6	4491.6	4480.4	4469.2	4454.2	4467.3	4487.9	4493.5	4478.6
40°	4903.0	4916.1	4886.2	4884.3	4888.1	4852.5	4835.7	4856.3	4869.4	4891.8	4875.0
42.5°	5359.3	5350.0	5320.0	5316.3	5295.7	5284.5	5269.5	5286.4	5306.9	5321.9	5327.5
45°	5796.9	5789.4	5755.7	5755.7	5735.2	5725.8	5733.3	5761.3	5770.7	5791.3	5811.8
47.5°	6228.8	6219.5	6197.1	6206.4	6208.3	6225.1	6249.4	6275.6	6301.8	6329.8	6339.2
50°	6670.2	6672.0	6647.7	6670.2	6698.2	6744.9	6810.4	6853.4	6907.6	6943.2	6954.4
52.5°	7072.2	7079.7	7105.9	7158.2	7214.3	7305.9	7418.1	7522.9	7612.6	7672.4	7668.7
55°	7554.6	7565.9	7629.4	7719.2	7810.8	7949.2	8115.6	8300.8	8450.4	8536.4	8482.1
57.5°	8171.7	8196.0	8267.1	8388.6	8525.2	8704.7	8932.8	9211.4	9443.3	9559.2	9471.4
60°	9018.8	9033.8	9119.8	9254.4	9419.0	9641.5	9946.3	10320.3	10647.6	10800.9	10699.9
62.5°	10135.2	10163.2	10232.4	10368.9	10537.2	10789.7	11161.8	11629.3	12036.9	12250.1	12022.0
65°	11468.5	11558.2	11616.2	11754.6	11911.7	12179.1	12568.0	13069.2	13506.7	13647.0	13383.3
67.5°	12788.7	12867.2	12968.2	13127.1	13286.1	13587.1	13948.0	14434.2	14914.8	15042.0	14632.4
70°	13366.5	13411.4	13568.4	13785.4	14090.2	14445.4	14862.4	15408.5	16003.1	16107.8	15588.0
72.5°	12209.0	12253.9	12429.6	12798.0	13329.1	13893.8	14621.2	15423.4	16208.8	16326.6	15610.4
75°	9233.9	9160.9	9420.9	9908.9	10625.1	11412.4	12429.6	13579.7	14714.7	14862.4	14007.9
77.5°	4772.1	4762.8	4959.1	5565.0	6419.6	7315.3	8435.4	9735.0	10845.8	11294.6	10598.9
80°	1344.5	1359.5	1453.0	1754.0	2253.3	2900.3	3775.5	4992.8	5901.6	6365.3	5976.4
82.5°	527.3	568.5	604.0	660.1	725.5	820.9	1095.8	1630.6	2187.9	2614.2	2141.1
85°	188.9	202.0	286.1	338.5	344.1	362.8	413.3	482.4	581.6	693.8	570.3
87.5°	71.1	78.5	91.6	151.5	149.6	136.5	166.4	173.9	130.9	119.7	147.7
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°	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2
2.5°	2879.7	2881.6	2881.6	2883.5	2885.3	2885.3	2889.1	2889.1
5°	2881.6	2881.6	2877.9	2879.7	2877.9	2877.9	2879.7	2879.7
7.5°	2877.9	2876.0	2872.3	2870.4	2866.7	2866.7	2866.7	2866.7
10°	2872.3	2870.4	2866.7	2864.8	2862.9	2862.9	2862.9	2862.9
12.5°	2887.2	2881.6	2877.9	2876.0	2876.0	2876.0	2876.0	2876.0
15°	2926.5	2913.4	2904.0	2904.0	2905.9	2909.7	2909.7	2913.4
17.5°	2975.1	2960.1	2950.8	2943.3	2947.1	2952.7	2956.4	2960.1
20°	3033.1	3025.6	3012.5	3005.0	3005.0	3012.5	3016.2	3018.1
22.5°	3113.5	3107.9	3102.3	3092.9	3092.9	3096.7	3104.1	3104.1
25°	3233.2	3229.4	3225.7	3218.2	3216.3	3216.3	3220.1	3223.8
27.5°	3382.8	3384.6	3380.9	3379.0	3373.4	3371.5	3377.1	3375.3
30°	3582.8	3592.2	3601.5	3594.1	3584.7	3579.1	3573.5	3566.0
32.5°	3854.0	3842.8	3835.3	3822.2	3805.4	3790.4	3779.2	3766.1
35°	4110.2	4091.5	4084.0	4095.2	4093.3	4084.0	4070.9	4059.7
37.5°	4424.3	4420.6	4424.3	4444.9	4441.2	4450.5	4424.3	4422.5
40°	4820.8	4824.5	4850.7	4875.0	4888.1	4901.2	4886.2	4871.2
42.5°	5280.8	5278.9	5288.2	5321.9	5344.3	5359.3	5327.5	5323.8
45°	5767.0	5753.9	5761.3	5789.4	5811.8	5828.7	5793.1	5793.1
47.5°	6301.8	6279.3	6255.0	6286.8	6299.9	6311.1	6283.1	6273.7
50°	6898.3	6851.5	6799.2	6812.3	6812.3	6808.5	6773.0	6771.1
52.5°	7582.7	7496.7	7401.3	7365.8	7345.2	7322.8	7261.1	7231.1
55°	8369.9	8240.9	8091.3	7999.7	7951.1	7889.4	7786.5	7758.5
57.5°	9290.0	9088.0	8830.0	8717.8	8609.3	8508.3	8394.3	8362.5
60°	10380.2	10082.8	9740.6	9533.1	9415.3	9318.0	9200.2	9194.6
62.5°	11595.6	11126.3	10739.2	10552.2	10466.2	10380.2	10268.0	10282.9
65°	12831.7	12341.7	11979.0	11827.5	11747.1	11676.0	11563.8	11580.7
67.5°	14050.9	13600.2	13201.9	13046.7	12957.0	12867.2	12766.2	12783.1
70°	14926.0	14366.9	13918.1	13574.0	13359.0	13115.9	12958.8	12919.6
72.5°	14675.5	13813.4	13100.9	12418.4	12018.2	11692.9	11472.2	11376.8
75°	12700.8	11522.7	10606.4	9768.7	9297.4	8914.1	8635.5	8461.6
77.5°	9432.1	8108.2	7025.4	6060.5	5297.6	4785.2	4424.3	4190.6
80°	5163.0	3926.9	2870.4	2017.7	1482.9	1232.3	1088.3	1019.1
82.5°	1608.2	1037.8	764.8	660.1	613.3	587.2	544.2	475.0
85°	512.4	448.8	417.0	398.3	379.6	331.0	228.1	207.6
87.5°	198.2	203.8	202.0	190.7	194.5	140.2	112.2	99.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)