

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: P192644

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192644
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: GLEON-AF-06-LED-E1-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39785.7 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

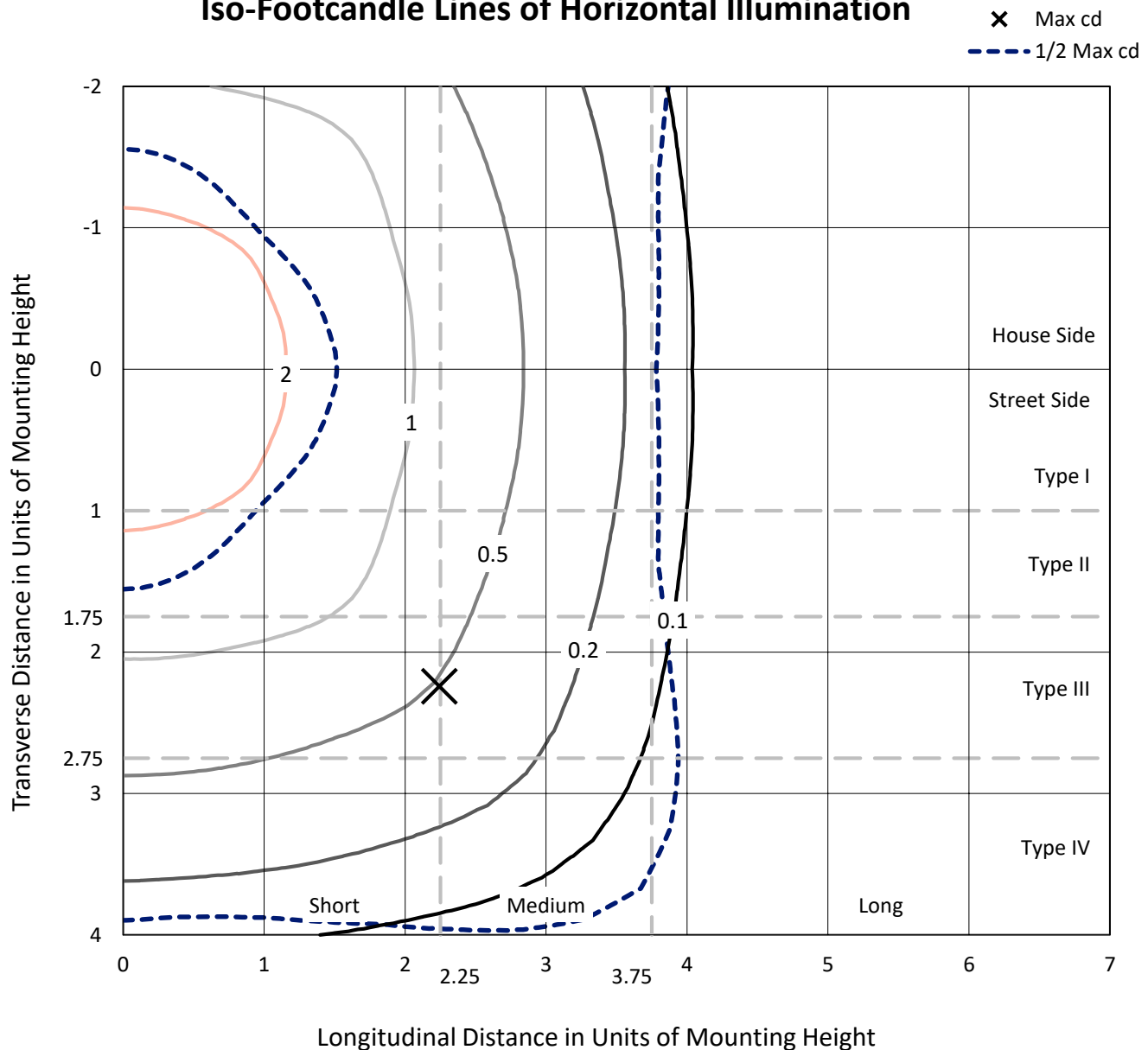
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

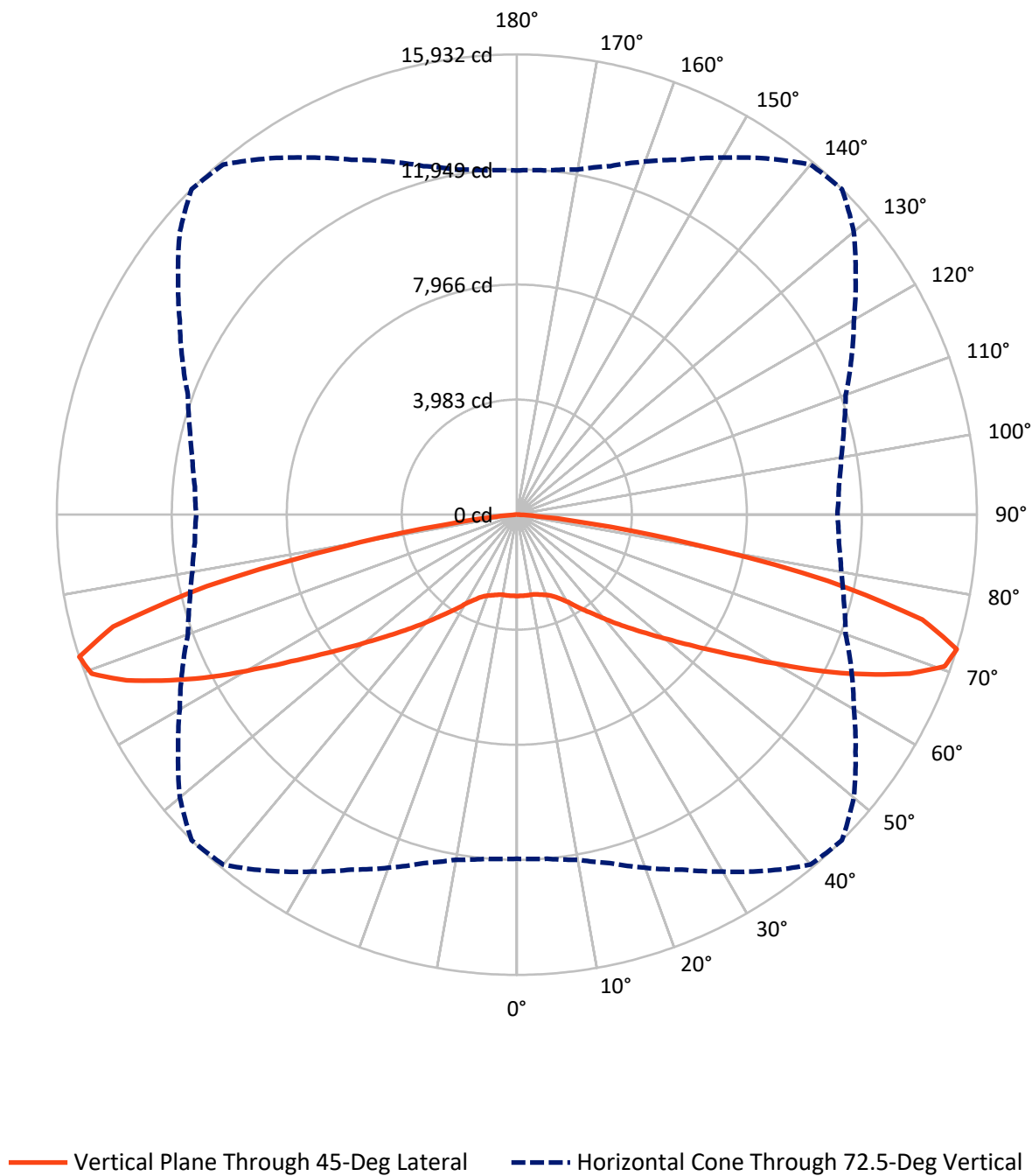


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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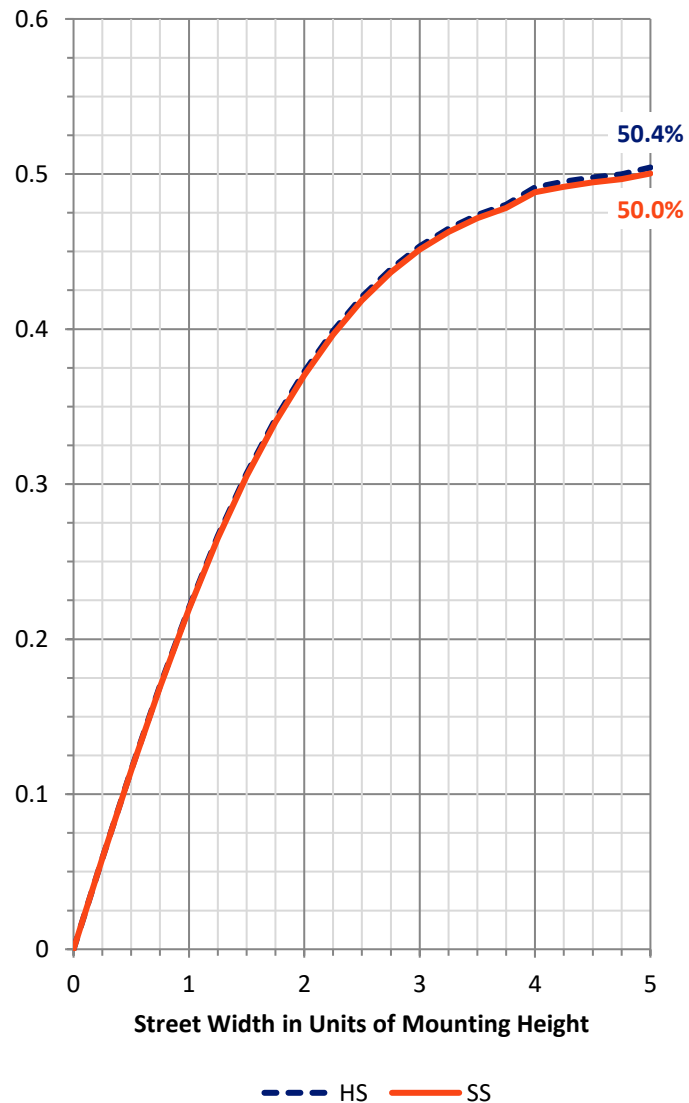
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19892.8	0.0	19892.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19892.8	0.0	19892.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	39785.7	0.0	39785.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	0.7
10°-20°	817.1	2.1
20°-30°	1493.1	3.8
30°-40°	2574.4	6.5
40°-50°	4401.0	11.1
50°-60°	7133.4	17.9
60°-70°	11834.1	29.7
70°-80°	10423.1	26.2
80°-90°	840.4	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°	39785.7	100.0
0°-180°	39785.7	100.0

Coefficient of Utilization



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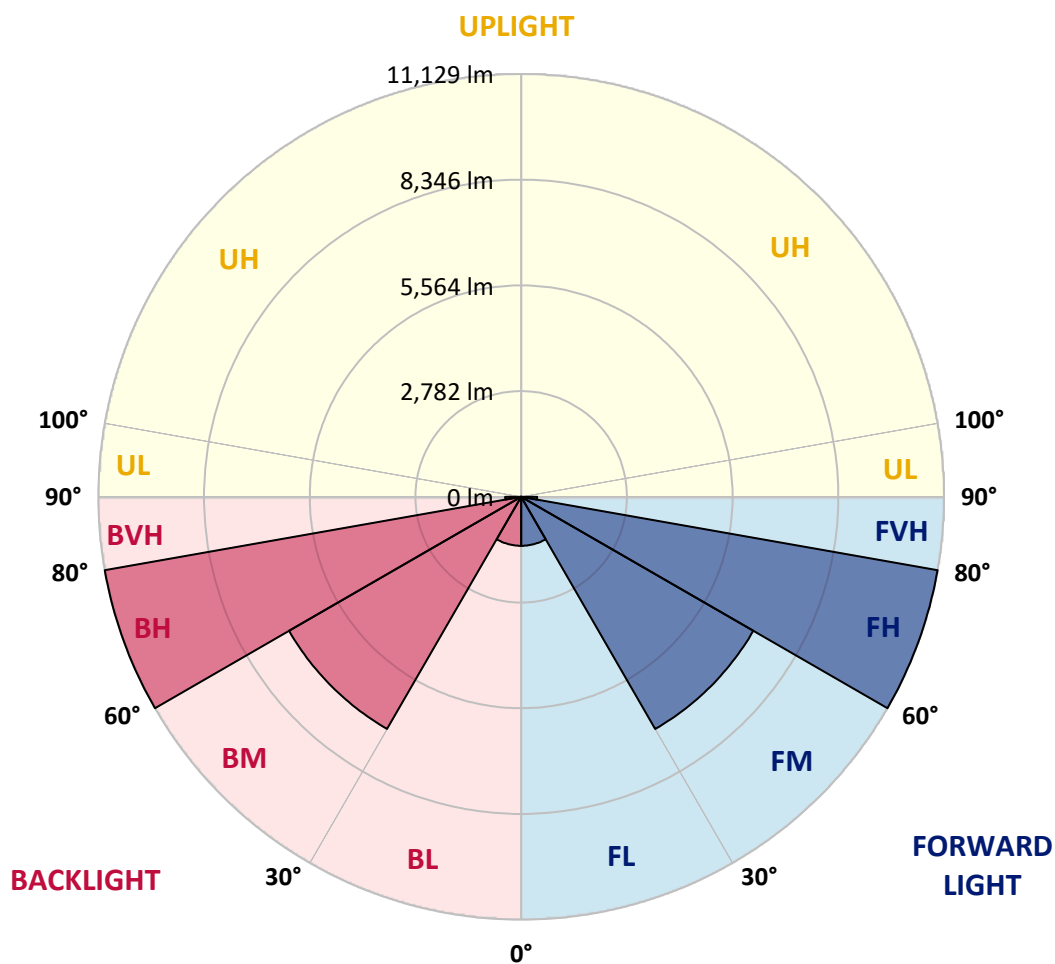
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.6	3.2			
FM	(30°-60°)	7054.4	17.7			
FH	(60°-80°)	11128.6	28.0			G4/12000
FVH	(80°-90°)	420.2	1.1			G3/500
BL	(0°-30°)	1289.6	3.2	B3/2500		
BM	(30°-60°)	7054.4	17.7	B4/8500		
BH	(60°-80°)	11128.6	28.0	B5		G4/12000
BVH	(80°-90°)	420.2	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°	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5
2.5°	2817.5	2819.2	2821.1	2819.2	2819.2	2817.5	2815.6	2817.5	2815.6	2812.0	2813.8
5°	2826.5	2830.3	2830.3	2826.5	2828.4	2826.5	2822.9	2824.8	2821.1	2815.6	2815.6
7.5°	2837.5	2839.3	2839.3	2835.8	2837.5	2833.8	2830.3	2828.4	2824.8	2817.5	2812.0
10°	2854.0	2855.7	2854.0	2850.2	2850.2	2844.8	2835.8	2832.0	2824.8	2813.8	2808.3
12.5°	2872.2	2874.1	2872.2	2868.5	2866.8	2857.5	2850.2	2844.8	2839.3	2830.3	2821.1
15°	2897.8	2901.4	2897.8	2890.5	2885.0	2877.7	2874.1	2875.8	2877.7	2870.3	2861.3
17.5°	2945.2	2947.0	2941.5	2925.1	2917.8	2910.5	2910.5	2914.2	2919.6	2916.0	2906.9
20°	3032.8	3027.2	3014.6	2994.5	2985.3	2972.5	2970.8	2972.5	2972.5	2970.8	2963.4
22.5°	3142.3	3138.6	3122.2	3096.6	3083.9	3076.5	3065.6	3056.5	3054.7	3049.2	3041.9
25°	3273.6	3271.8	3251.8	3229.8	3220.8	3211.5	3202.5	3189.8	3178.8	3166.0	3158.6
27.5°	3441.5	3434.2	3405.1	3394.0	3381.2	3375.8	3363.0	3348.5	3339.3	3322.9	3313.9
30°	3625.8	3625.8	3602.1	3598.5	3598.5	3585.7	3571.0	3545.6	3529.1	3512.6	3507.2
32.5°	3810.1	3811.9	3788.2	3795.5	3801.0	3810.1	3813.8	3804.6	3793.7	3791.9	3780.9
35°	4076.6	4069.3	4045.6	4051.0	4049.1	4047.3	4047.3	4067.4	4071.1	4074.8	4052.9
37.5°	4406.9	4406.9	4383.1	4383.1	4372.1	4361.2	4346.6	4359.3	4379.4	4384.9	4370.4
40°	4784.6	4797.3	4768.1	4766.3	4769.9	4735.3	4718.8	4738.9	4751.6	4773.6	4757.1
42.5°	5229.8	5220.6	5191.5	5187.8	5167.8	5156.8	5142.2	5158.6	5178.7	5193.3	5198.8
45°	5656.8	5649.5	5616.7	5616.7	5596.6	5587.4	5594.7	5622.2	5631.2	5651.3	5671.4
47.5°	6078.3	6069.2	6047.3	6056.5	6058.2	6074.7	6098.5	6123.9	6149.4	6176.9	6185.9
50°	6508.9	6510.8	6487.0	6508.9	6536.3	6581.9	6645.8	6687.8	6740.7	6775.3	6786.3
52.5°	6901.3	6908.6	6934.1	6985.2	7040.0	7129.3	7238.9	7341.0	7428.6	7487.0	7483.3
55°	7372.0	7382.9	7445.0	7532.7	7622.0	7757.1	7919.5	8100.2	8246.2	8330.0	8277.2
57.5°	7974.3	7998.0	8067.2	8185.9	8319.1	8494.3	8716.9	8988.8	9215.0	9328.2	9242.5
60°	8800.9	8815.5	8899.3	9030.9	9191.3	9408.6	9705.9	10070.9	10390.2	10539.9	10441.4
62.5°	9890.2	9917.6	9985.1	10118.4	10282.6	10528.9	10892.0	11348.2	11746.0	11954.0	11731.3
65°	11191.3	11279.0	11335.4	11470.5	11623.8	11884.6	12264.3	12753.3	13180.3	13317.2	13059.9
67.5°	12479.6	12556.2	12654.7	12809.9	12965.0	13258.7	13611.0	14085.3	14554.3	14678.4	14278.8
70°	13043.5	13087.3	13240.5	13452.2	13749.6	14096.3	14503.3	15036.1	15616.4	15718.6	15211.3
72.5°	11913.9	11957.7	12129.2	12488.8	13007.0	13558.0	14267.8	15050.7	15817.1	15932.0	15233.2
75°	9010.7	8939.6	9193.2	9669.5	10368.3	11136.6	12129.2	13251.5	14359.1	14503.3	13669.3
77.5°	4656.8	4647.7	4839.3	5430.5	6264.4	7138.5	8231.5	9499.8	10583.6	11021.6	10342.8
80°	1311.9	1326.6	1417.8	1711.6	2198.9	2830.3	3684.2	4872.1	5758.9	6211.5	5831.9
82.5°	514.6	554.7	589.5	644.2	708.0	801.1	1069.3	1591.3	2134.9	2550.9	2089.4
85°	184.3	197.1	279.1	330.3	335.8	354.0	403.2	470.8	567.5	677.0	556.5
87.5°	69.4	76.6	89.4	147.8	146.0	133.2	162.4	169.7	127.8	116.8	144.1
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°	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5	2817.5
2.5°	2810.1	2812.0	2812.0	2813.8	2815.6	2815.6	2819.2	2819.2
5°	2812.0	2812.0	2808.3	2810.1	2808.3	2808.3	2810.1	2810.1
7.5°	2808.3	2806.6	2802.8	2801.0	2797.4	2797.4	2797.4	2797.4
10°	2802.8	2801.0	2797.4	2795.5	2793.8	2793.8	2793.8	2793.8
12.5°	2817.5	2812.0	2808.3	2806.6	2806.6	2806.6	2806.6	2806.6
15°	2855.7	2843.0	2833.8	2833.8	2835.8	2839.3	2839.3	2843.0
17.5°	2903.2	2888.6	2879.5	2872.2	2875.8	2881.2	2885.0	2888.6
20°	2959.8	2952.5	2939.7	2932.4	2932.4	2939.7	2943.3	2945.2
22.5°	3038.3	3032.8	3027.2	3018.2	3018.2	3021.8	3029.1	3029.1
25°	3155.1	3151.4	3147.8	3140.4	3138.6	3138.6	3142.3	3145.9
27.5°	3301.0	3302.8	3299.2	3297.3	3291.9	3290.1	3295.6	3293.7
30°	3496.3	3505.4	3514.6	3507.2	3498.1	3492.6	3487.1	3479.8
32.5°	3760.8	3749.9	3742.5	3729.8	3713.4	3698.8	3687.8	3675.1
35°	4010.8	3992.6	3985.3	3996.2	3994.4	3985.3	3972.5	3961.5
37.5°	4317.4	4313.8	4317.4	4337.5	4333.9	4342.9	4317.4	4315.6
40°	4704.2	4707.9	4733.4	4757.1	4769.9	4782.8	4768.1	4753.6
42.5°	5153.1	5151.3	5160.5	5193.3	5215.2	5229.8	5198.8	5195.2
45°	5627.6	5614.9	5622.2	5649.5	5671.4	5687.8	5653.2	5653.2
47.5°	6149.4	6127.6	6103.9	6134.9	6147.7	6158.6	6131.2	6122.2
50°	6731.6	6685.9	6634.9	6647.7	6647.7	6643.9	6609.3	6607.5
52.5°	7399.5	7315.5	7222.5	7187.7	7167.7	7145.8	7085.6	7056.4
55°	8167.6	8041.8	7895.7	7806.3	7758.9	7698.7	7598.3	7571.0
57.5°	9065.5	8868.3	8616.5	8507.0	8401.3	8302.7	8191.3	8160.3
60°	10129.3	9839.2	9505.2	9302.7	9187.7	9092.8	8977.9	8972.4
62.5°	11315.4	10857.4	10479.6	10297.1	10213.2	10129.3	10019.8	10034.4
65°	12521.5	12043.4	11689.4	11541.7	11463.2	11393.9	11284.4	11300.8
67.5°	13711.3	13271.5	12882.9	12731.4	12643.8	12556.2	12457.7	12474.1
70°	14565.4	14019.7	13581.8	13246.0	13036.2	12798.9	12645.6	12607.3
72.5°	14320.8	13479.6	12784.3	12118.3	11727.8	11410.3	11194.9	11102.0
75°	12393.9	11244.2	10350.1	9532.6	9072.8	8698.6	8426.7	8257.0
77.5°	9204.1	7912.2	6855.7	5914.1	5169.6	4669.6	4317.4	4089.3
80°	5038.2	3832.0	2801.0	1969.0	1447.0	1202.5	1062.0	994.5
82.5°	1569.3	1012.8	746.4	644.2	598.5	572.9	531.0	463.5
85°	500.0	437.9	406.9	388.6	370.4	323.0	222.7	202.5
87.5°	193.4	198.9	197.1	186.2	189.8	136.9	109.5	96.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)