

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: P192618

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192618
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-10-LED-E1-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39545.3 lumens
Efficiency: N/A
Efficacy: 122.4 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): 323
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

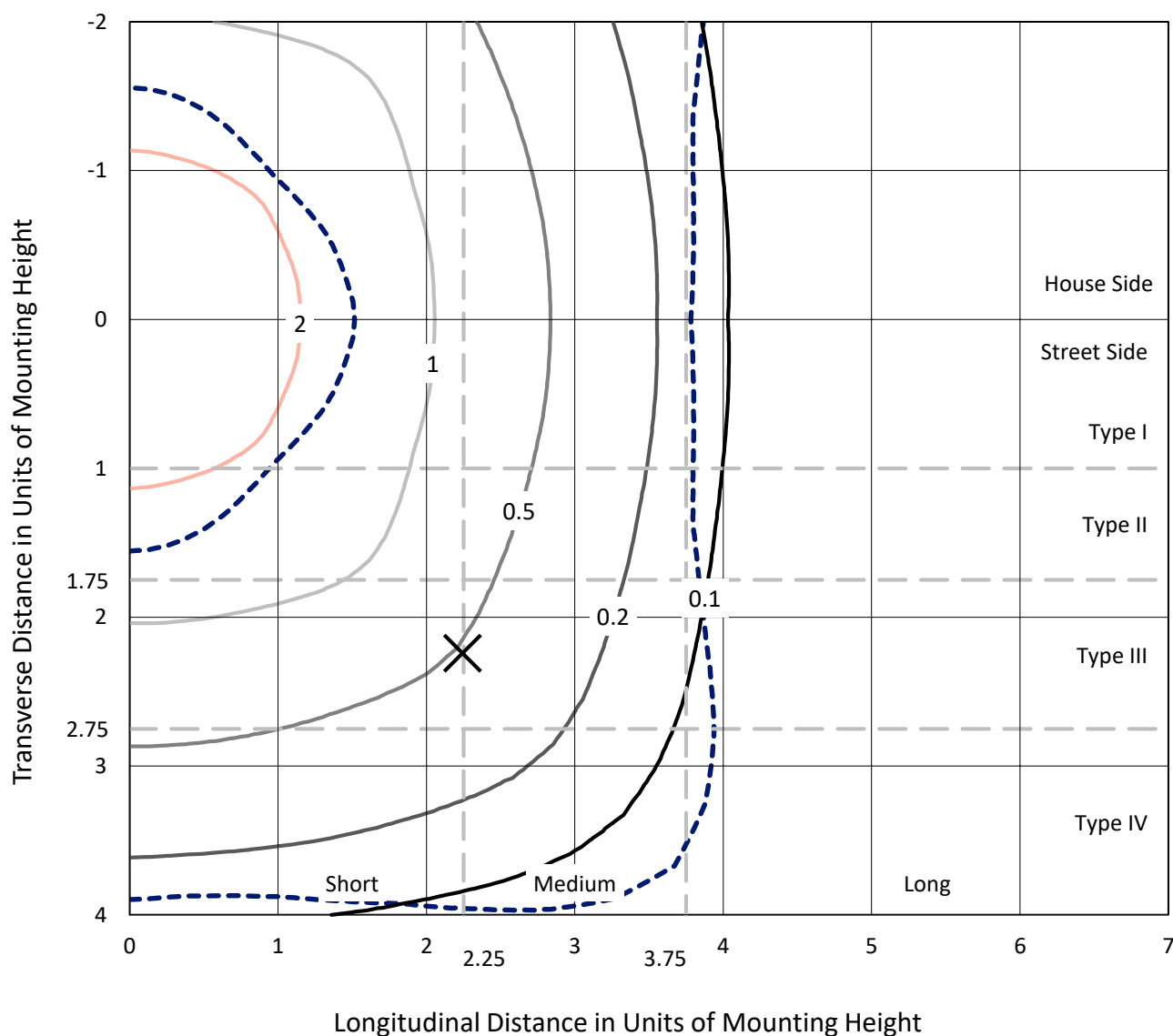


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

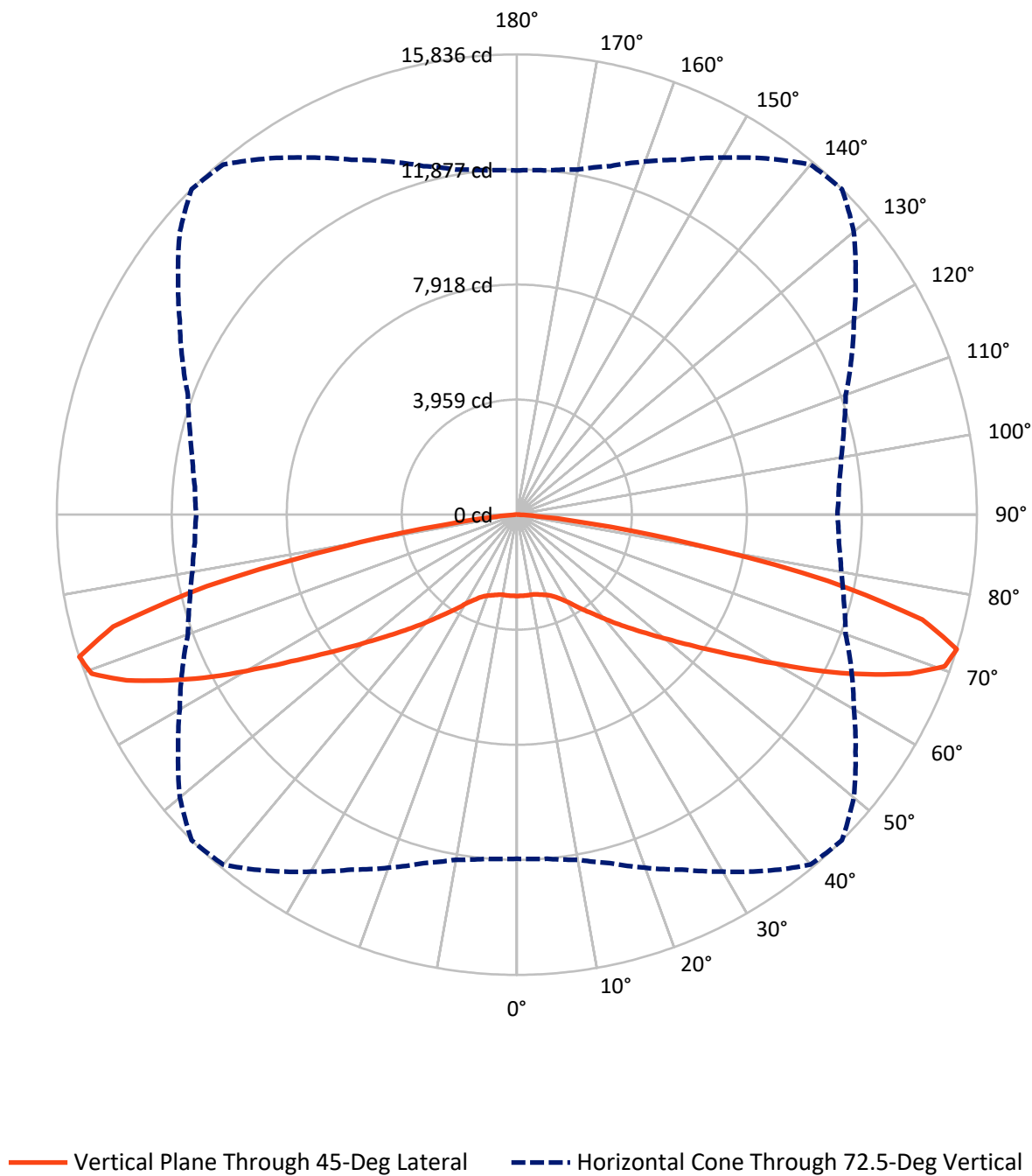


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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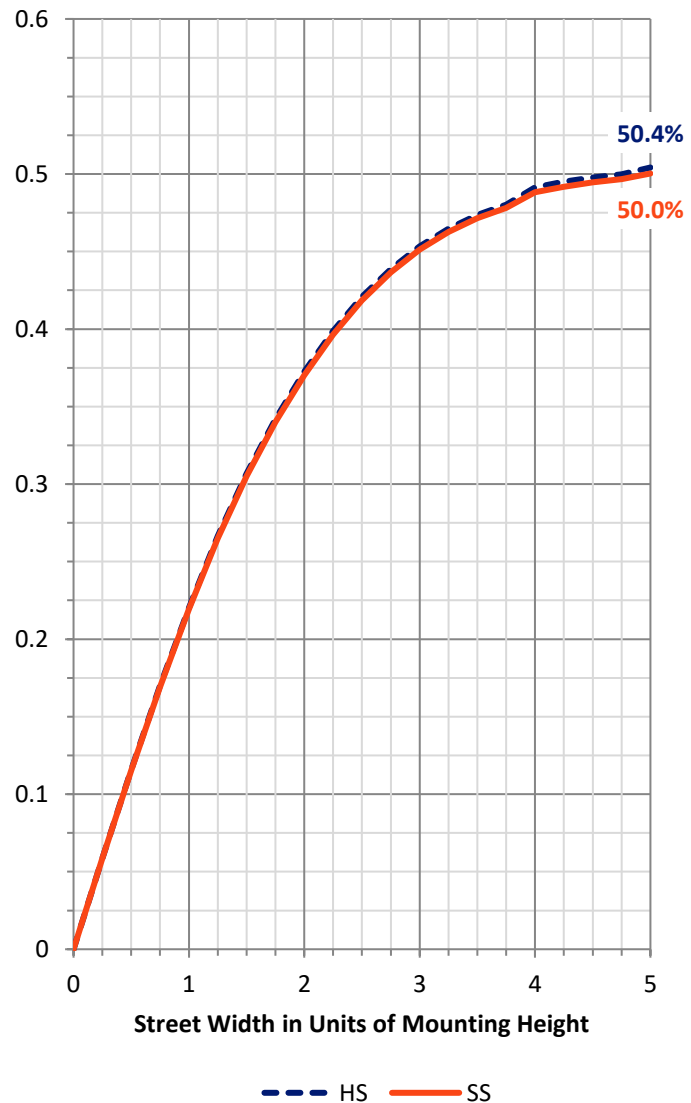
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19772.6	0.0	19772.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19772.6	0.0	19772.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	39545.3	0.0	39545.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	0.7
10°-20°	812.1	2.1
20°-30°	1484.1	3.8
30°-40°	2558.9	6.5
40°-50°	4374.4	11.1
50°-60°	7090.3	17.9
60°-70°	11762.6	29.7
70°-80°	10360.1	26.2
80°-90°	835.3	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°	39545.3	100.0
0°-180°	39545.3	100.0

Coefficient of Utilization



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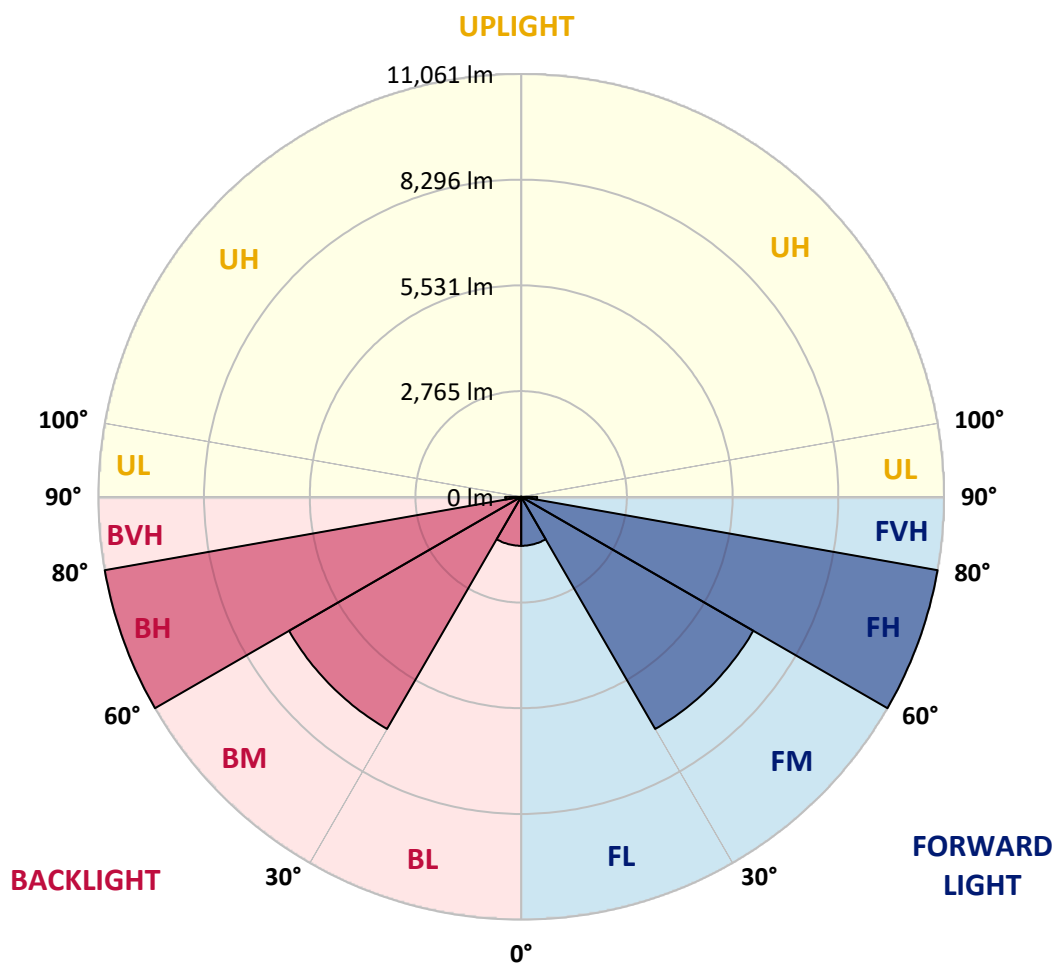
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1281.8	3.2			
FM	(30°-60°)	7011.8	17.7			
FH	(60°-80°)	11061.3	28.0			G4/12000
FVH	(80°-90°)	417.7	1.1			G3/500
BL	(0°-30°)	1281.8	3.2	B3/2500		
BM	(30°-60°)	7011.8	17.7	B4/8500		
BH	(60°-80°)	11061.3	28.0	B5		G4/12000
BVH	(80°-90°)	417.7	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°	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5
2.5°	2800.5	2802.3	2804.0	2802.3	2802.3	2800.5	2798.5	2800.5	2798.5	2795.0	2796.8
5°	2809.5	2813.1	2813.1	2809.5	2811.3	2809.5	2805.9	2807.6	2804.0	2798.5	2798.5
7.5°	2820.4	2822.1	2822.1	2818.6	2820.4	2816.7	2813.1	2811.3	2807.6	2800.5	2795.0
10°	2836.7	2838.5	2836.7	2833.1	2833.1	2827.6	2818.6	2814.9	2807.6	2796.8	2791.3
12.5°	2854.8	2856.7	2854.8	2851.2	2849.4	2840.3	2833.1	2827.6	2822.1	2813.1	2804.0
15°	2880.2	2883.9	2880.2	2873.0	2867.5	2860.3	2856.7	2858.4	2860.3	2853.0	2843.9
17.5°	2927.4	2929.2	2923.8	2907.4	2900.2	2892.9	2892.9	2896.6	2902.0	2898.3	2889.3
20°	3014.5	3009.0	2996.3	2976.3	2967.3	2954.6	2952.7	2954.6	2954.6	2952.7	2945.5
22.5°	3123.2	3119.7	3103.3	3078.0	3065.3	3057.9	3047.1	3038.1	3036.2	3030.8	3023.5
25°	3253.8	3252.0	3232.1	3210.4	3201.3	3192.2	3183.2	3170.3	3159.6	3146.8	3139.6
27.5°	3420.7	3413.5	3384.5	3373.6	3360.9	3355.5	3342.7	3328.2	3319.2	3302.8	3293.7
30°	3603.9	3603.9	3580.3	3576.7	3576.7	3564.0	3549.5	3524.1	3507.8	3491.5	3486.0
32.5°	3787.2	3788.9	3765.3	3772.6	3778.0	3787.2	3790.7	3781.7	3770.7	3769.0	3758.1
35°	4051.9	4044.7	4021.1	4026.5	4024.7	4022.9	4022.9	4042.8	4046.4	4050.1	4028.3
37.5°	4380.2	4380.2	4356.6	4356.6	4345.7	4334.9	4320.3	4333.0	4353.0	4358.5	4343.9
40°	4755.6	4768.3	4739.3	4737.5	4741.1	4706.7	4690.4	4710.2	4722.9	4744.8	4728.4
42.5°	5198.2	5189.2	5160.1	5156.5	5136.5	5125.7	5111.1	5127.4	5147.4	5162.0	5167.3
45°	5622.6	5615.4	5582.7	5582.7	5562.7	5553.6	5561.0	5588.2	5597.3	5617.1	5637.1
47.5°	6041.6	6032.5	6010.8	6019.8	6021.6	6038.0	6061.4	6087.0	6112.3	6139.5	6148.6
50°	6469.7	6471.4	6447.8	6469.7	6496.9	6542.2	6605.7	6647.4	6700.0	6734.4	6745.3
52.5°	6859.7	6866.8	6892.2	6943.0	6997.4	7086.3	7195.2	7296.7	7383.7	7441.7	7438.2
55°	7327.6	7338.4	7400.1	7487.1	7576.0	7710.2	7871.7	8051.2	8196.3	8279.7	8227.1
57.5°	7926.1	7949.6	8018.5	8136.4	8268.8	8443.0	8664.3	8934.4	9159.4	9271.8	9186.6
60°	8747.8	8762.1	8845.6	8976.2	9135.8	9351.7	9647.3	10010.0	10327.5	10476.3	10378.2
62.5°	9830.5	9857.7	9924.8	10057.2	10220.4	10465.3	10826.3	11279.7	11675.1	11881.8	11660.5
65°	11123.6	11210.8	11267.1	11401.2	11553.5	11812.9	12190.2	12676.3	13100.6	13236.8	12981.0
67.5°	12404.2	12480.3	12578.4	12732.5	12886.7	13178.7	13528.7	14000.3	14466.5	14589.7	14192.6
70°	12964.6	13008.2	13160.5	13370.9	13666.5	14011.2	14415.6	14945.2	15522.0	15623.6	15119.4
72.5°	11841.9	11885.4	12056.0	12413.3	12928.3	13476.1	14181.7	14959.8	15721.6	15835.8	15141.1
75°	8956.3	8885.5	9137.7	9611.0	10305.7	11069.3	12056.0	13171.4	14272.3	14415.6	13586.7
77.5°	4628.7	4619.6	4810.0	5397.7	6226.5	7095.4	8181.8	9442.4	10519.7	10955.0	10280.3
80°	1304.1	1318.5	1409.2	1701.2	2185.5	2813.1	3662.0	4842.7	5724.2	6174.0	5796.8
82.5°	511.5	551.4	585.8	640.3	703.7	796.3	1062.9	1581.6	2122.1	2535.6	2076.7
85°	183.2	195.9	277.5	328.4	333.7	351.9	400.9	467.9	564.1	672.9	553.2
87.5°	69.0	76.2	88.8	147.0	145.1	132.4	161.3	168.7	127.0	116.1	143.2
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°	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5
2.5°	2793.2	2795.0	2795.0	2796.8	2798.5	2798.5	2802.3	2802.3
5°	2795.0	2795.0	2791.3	2793.2	2791.3	2791.3	2793.2	2793.2
7.5°	2791.3	2789.5	2785.9	2784.2	2780.4	2780.4	2780.4	2780.4
10°	2785.9	2784.2	2780.4	2778.7	2776.9	2776.9	2776.9	2776.9
12.5°	2800.5	2795.0	2791.3	2789.5	2789.5	2789.5	2789.5	2789.5
15°	2838.5	2825.8	2816.7	2816.7	2818.6	2822.1	2822.1	2825.8
17.5°	2885.6	2871.2	2862.0	2854.8	2858.4	2863.9	2867.5	2871.2
20°	2942.0	2934.6	2921.9	2914.7	2914.7	2921.9	2925.5	2927.4
22.5°	3019.9	3014.5	3009.0	2999.9	2999.9	3003.5	3010.8	3010.8
25°	3136.0	3132.4	3128.7	3121.4	3119.7	3119.7	3123.2	3126.9
27.5°	3281.0	3282.9	3279.2	3277.4	3272.0	3270.1	3275.6	3273.9
30°	3475.1	3484.2	3493.2	3486.0	3476.9	3471.5	3466.0	3458.8
32.5°	3738.1	3727.3	3720.0	3707.2	3691.0	3676.5	3665.5	3652.9
35°	3986.7	3968.6	3961.2	3972.1	3970.3	3961.2	3948.5	3937.6
37.5°	4291.2	4287.7	4291.2	4311.3	4307.6	4316.8	4291.2	4289.5
40°	4675.9	4679.5	4704.8	4728.4	4741.1	4753.9	4739.3	4724.8
42.5°	5122.0	5120.2	5129.2	5162.0	5183.7	5198.2	5167.3	5163.7
45°	5593.6	5580.9	5588.2	5615.4	5637.1	5653.4	5618.9	5618.9
47.5°	6112.3	6090.5	6066.9	6097.8	6110.6	6121.4	6094.2	6085.0
50°	6690.9	6645.5	6594.8	6607.5	6607.5	6603.8	6569.4	6567.6
52.5°	7354.8	7271.3	7178.8	7144.4	7124.4	7102.6	7042.8	7013.8
55°	8118.3	7993.2	7848.1	7759.1	7712.1	7652.2	7552.4	7525.2
57.5°	9010.7	8814.8	8564.5	8455.7	8350.4	8252.6	8141.9	8111.1
60°	10068.1	9779.7	9447.7	9246.5	9132.2	9037.9	8923.6	8918.2
62.5°	11247.0	10791.7	10416.3	10235.0	10151.5	10068.1	9959.3	9973.7
65°	12445.9	11970.7	11618.8	11471.9	11394.0	11325.0	11216.2	11232.5
67.5°	13628.5	13191.4	12805.0	12654.5	12567.4	12480.3	12382.5	12398.7
70°	14477.3	13935.0	13499.7	13166.0	12957.4	12721.6	12569.3	12531.2
72.5°	14234.3	13398.1	12707.1	12045.1	11657.0	11341.3	11127.3	11034.8
75°	12319.0	11176.2	10287.6	9475.0	9017.9	8646.1	8376.0	8207.2
77.5°	9148.5	7864.4	6814.3	5878.3	5138.4	4641.4	4291.2	4064.6
80°	5007.8	3808.9	2784.2	1957.1	1438.3	1195.3	1055.6	988.5
82.5°	1559.7	1006.6	741.9	640.3	594.9	569.6	527.8	460.6
85°	497.0	435.3	404.5	386.3	368.2	321.0	221.2	201.4
87.5°	192.3	197.6	195.9	184.9	188.6	136.0	108.8	96.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)