

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: P194243

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194243
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-05-LED-E1-5WQ-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 34375 lumens
Efficiency: N/A
Efficacy: 107.4 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): 320
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

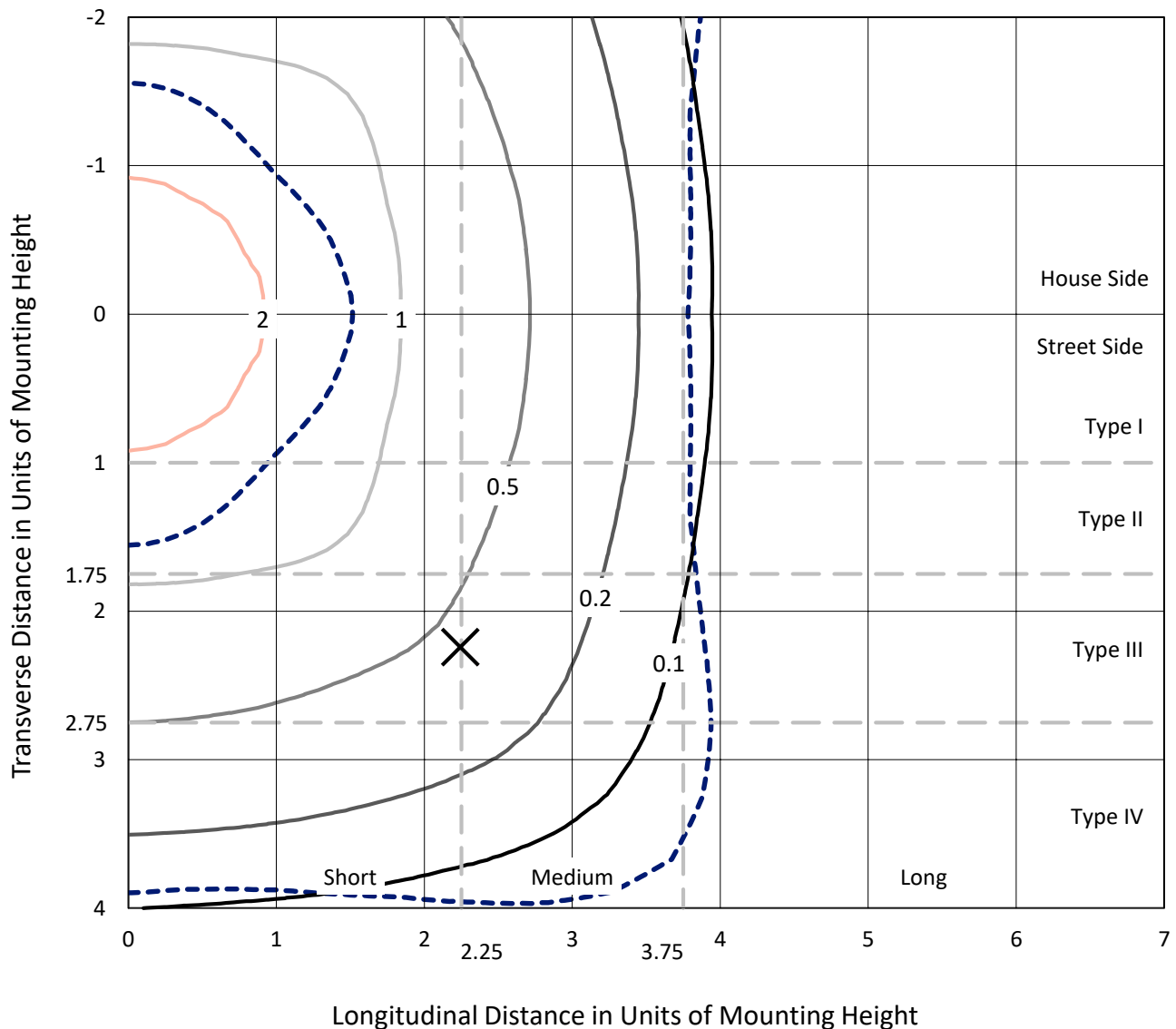


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

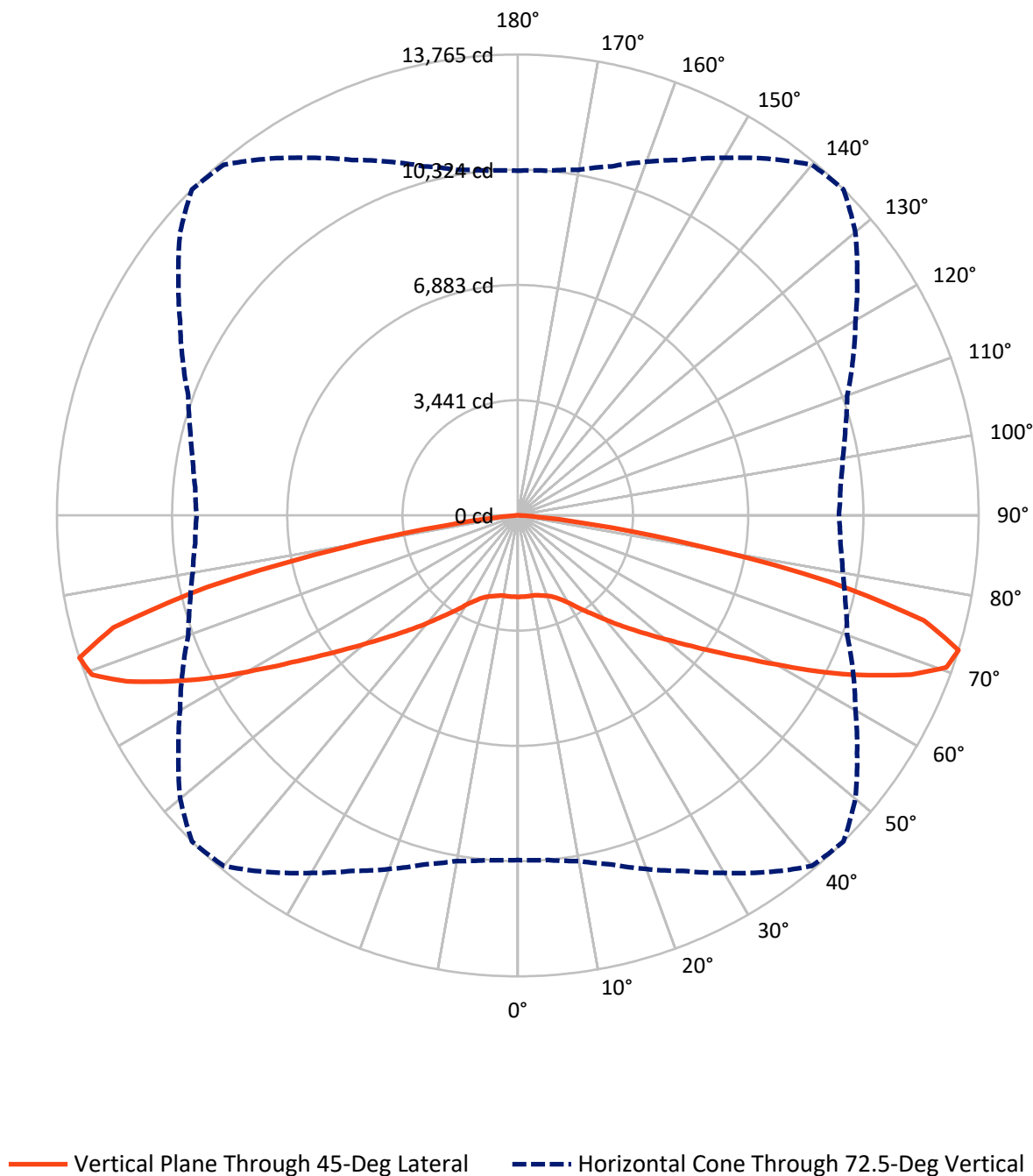


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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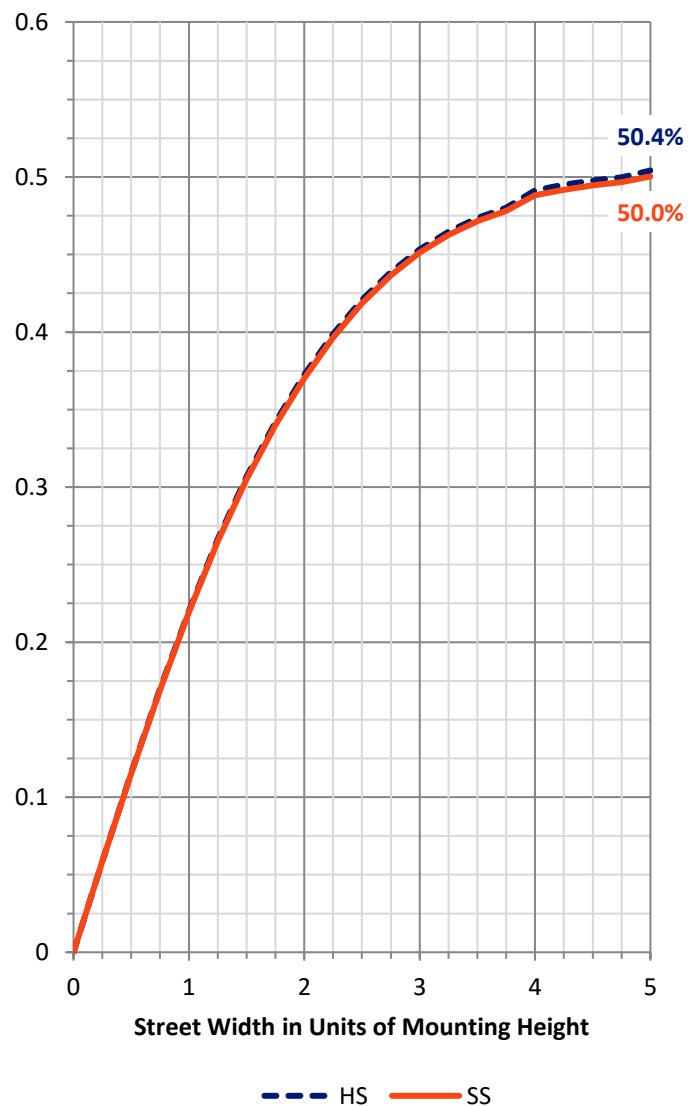
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17187.5	0.0	17187.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17187.5	0.0	17187.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34375.0	0.0	34375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	0.7
10°-20°	706.0	2.1
20°-30°	1290.1	3.8
30°-40°	2224.3	6.5
40°-50°	3802.5	11.1
50°-60°	6163.3	17.9
60°-70°	10224.7	29.7
70°-80°	9005.6	26.2
80°-90°	726.1	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°	34375.0	100.0
0°-180°	34375.0	100.0

Coefficient of Utilization



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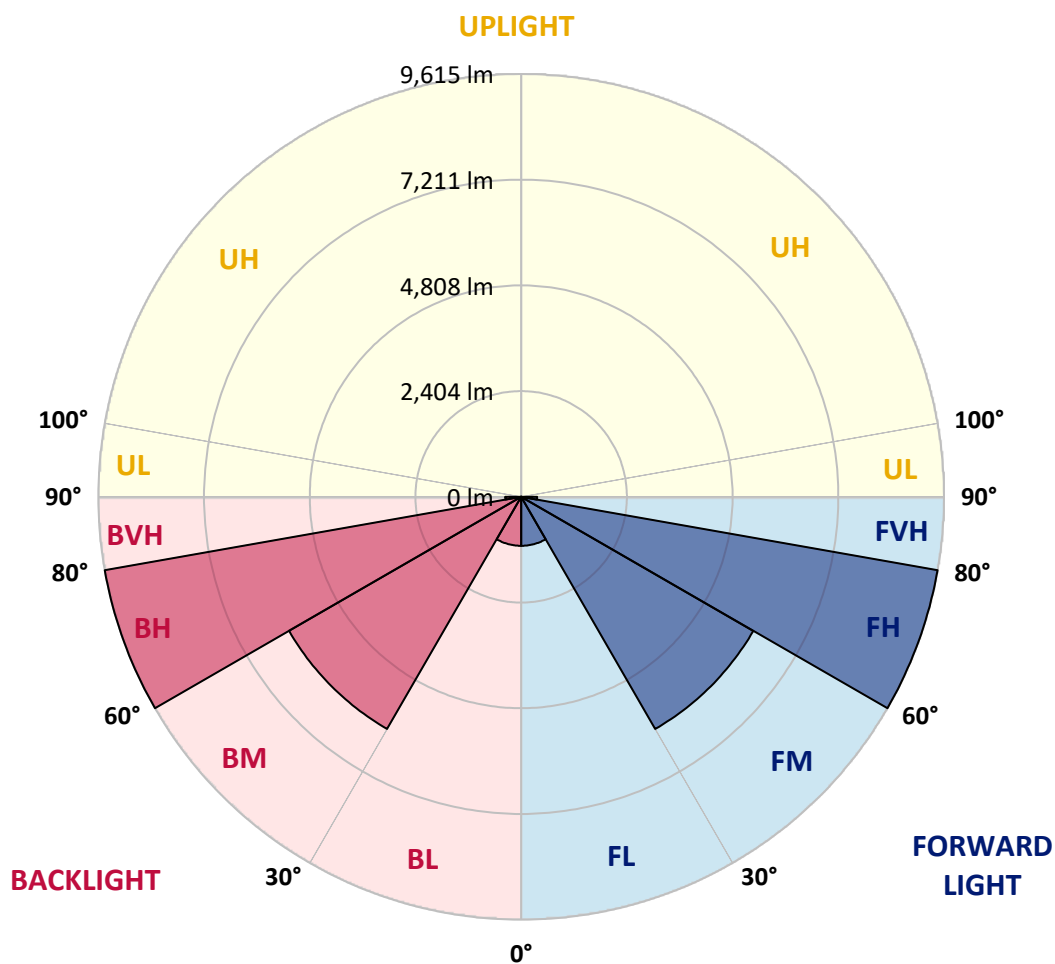
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1114.2	3.2			
FM	(30°-60°)	6095.1	17.7			
FH	(60°-80°)	9615.1	28.0			G4/12000
FVH	(80°-90°)	363.0	1.1			G3/500
BL	(0°-30°)	1114.2	3.2	B3/2500		
BM	(30°-60°)	6095.1	17.7	B4/8500		
BH	(60°-80°)	9615.1	28.0	B5		G4/12000
BVH	(80°-90°)	363.0	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°	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3
2.5°	2434.3	2435.9	2437.4	2435.9	2435.9	2434.3	2432.7	2434.3	2432.7	2429.6	2431.1
5°	2442.2	2445.3	2445.3	2442.2	2443.7	2442.2	2439.0	2440.6	2437.4	2432.7	2432.7
7.5°	2451.6	2453.2	2453.2	2450.1	2451.6	2448.5	2445.3	2443.7	2440.6	2434.3	2429.6
10°	2465.8	2467.4	2465.8	2462.7	2462.7	2457.9	2450.1	2446.9	2440.6	2431.1	2426.4
12.5°	2481.6	2483.2	2481.6	2478.4	2476.9	2469.0	2462.7	2457.9	2453.2	2445.3	2437.4
15°	2503.7	2506.8	2503.7	2497.3	2492.6	2486.3	2483.2	2484.7	2486.3	2480.0	2472.1
17.5°	2544.6	2546.2	2541.5	2527.3	2521.0	2514.7	2514.7	2517.8	2522.6	2519.4	2511.5
20°	2620.3	2615.6	2604.6	2587.2	2579.3	2568.3	2566.7	2568.3	2568.3	2566.7	2560.4
22.5°	2714.9	2711.8	2697.6	2675.5	2664.5	2658.2	2648.7	2640.8	2639.2	2634.5	2628.2
25°	2828.4	2826.9	2809.5	2790.6	2782.7	2774.8	2766.9	2755.9	2746.5	2735.4	2729.1
27.5°	2973.5	2967.2	2942.0	2932.5	2921.5	2916.7	2905.7	2893.1	2885.2	2871.0	2863.1
30°	3132.7	3132.7	3112.2	3109.1	3109.1	3098.0	3085.4	3063.4	3049.2	3035.0	3030.2
32.5°	3292.0	3293.5	3273.0	3279.3	3284.1	3292.0	3295.1	3287.2	3277.8	3276.2	3266.7
35°	3522.1	3515.8	3495.3	3500.1	3498.5	3496.9	3496.9	3514.3	3517.4	3520.6	3501.6
37.5°	3807.5	3807.5	3787.0	3787.0	3777.6	3768.1	3755.5	3766.5	3783.9	3788.6	3776.0
40°	4133.9	4144.9	4119.7	4118.1	4121.3	4091.3	4077.1	4094.5	4105.5	4124.4	4110.2
42.5°	4518.6	4510.7	4485.5	4482.3	4465.0	4455.5	4442.9	4457.1	4474.4	4487.0	4491.8
45°	4887.5	4881.2	4852.8	4852.8	4835.5	4827.6	4833.9	4857.5	4865.4	4882.8	4900.1
47.5°	5251.7	5243.8	5224.9	5232.8	5234.3	5248.5	5269.0	5291.1	5313.2	5336.8	5344.7
50°	5623.8	5625.3	5604.8	5623.8	5647.4	5686.8	5742.0	5778.3	5824.0	5853.9	5863.4
52.5°	5962.7	5969.0	5991.1	6035.3	6082.6	6159.8	6254.4	6342.7	6418.4	6468.8	6465.7
55°	6369.5	6379.0	6432.6	6508.2	6585.5	6702.2	6842.5	6998.6	7124.7	7197.2	7151.5
57.5°	6889.8	6910.3	6970.2	7072.7	7187.8	7339.1	7531.5	7766.4	7961.9	8059.6	7985.5
60°	7604.0	7616.6	7689.1	7802.6	7941.4	8129.0	8386.0	8701.3	8977.2	9106.5	9021.4
62.5°	8545.2	8568.9	8627.2	8742.3	8884.2	9097.0	9410.8	9804.9	10148.6	10328.4	10136.0
65°	9669.3	9745.0	9793.9	9910.6	10043.0	10268.5	10596.4	11018.9	11387.8	11506.1	11283.8
67.5°	10782.4	10848.6	10933.8	11067.8	11201.8	11455.6	11759.9	12169.8	12575.0	12682.2	12337.0
70°	11269.6	11307.4	11439.9	11622.8	11879.7	12179.3	12530.9	12991.3	13492.6	13580.9	13142.6
72.5°	10293.7	10331.5	10479.7	10790.3	11238.1	11714.2	12327.5	13003.9	13666.0	13765.4	13161.5
75°	7785.3	7723.8	7943.0	8354.5	8958.3	9622.0	10479.7	11449.3	12406.3	12530.9	11810.4
77.5°	4023.5	4015.6	4181.2	4692.0	5412.5	6167.7	7112.1	8207.8	9144.3	9522.7	8936.2
80°	1133.6	1146.2	1225.0	1478.9	1899.8	2445.3	3183.2	4209.5	4975.8	5366.8	5038.8
82.5°	444.6	479.3	509.2	556.5	611.7	692.1	923.9	1374.8	1844.6	2204.1	1805.2
85°	159.2	170.3	241.2	285.4	290.1	305.9	348.4	406.8	490.3	584.9	480.9
87.5°	59.9	66.2	77.3	127.7	126.1	115.1	140.3	146.6	110.4	100.9	124.6
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°	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3	2434.3
2.5°	2428.0	2429.6	2429.6	2431.1	2432.7	2432.7	2435.9	2435.9
5°	2429.6	2429.6	2426.4	2428.0	2426.4	2426.4	2428.0	2428.0
7.5°	2426.4	2424.8	2421.7	2420.1	2416.9	2416.9	2416.9	2416.9
10°	2421.7	2420.1	2416.9	2415.4	2413.8	2413.8	2413.8	2413.8
12.5°	2434.3	2429.6	2426.4	2424.8	2424.8	2424.8	2424.8	2424.8
15°	2467.4	2456.4	2448.5	2448.5	2450.1	2453.2	2453.2	2456.4
17.5°	2508.4	2495.8	2487.9	2481.6	2484.7	2489.5	2492.6	2495.8
20°	2557.3	2551.0	2539.9	2533.6	2533.6	2539.9	2543.1	2544.6
22.5°	2625.1	2620.3	2615.6	2607.7	2607.7	2610.9	2617.2	2617.2
25°	2726.0	2722.8	2719.7	2713.3	2711.8	2711.8	2714.9	2718.1
27.5°	2852.1	2853.7	2850.5	2848.9	2844.2	2842.6	2847.4	2845.8
30°	3020.8	3028.7	3036.5	3030.2	3022.4	3017.6	3012.9	3006.6
32.5°	3249.4	3239.9	3233.6	3222.6	3208.4	3195.8	3186.3	3175.3
35°	3465.4	3449.6	3443.3	3452.8	3451.2	3443.3	3432.3	3422.8
37.5°	3730.3	3727.1	3730.3	3747.6	3744.4	3752.3	3730.3	3728.7
40°	4064.5	4067.7	4089.7	4110.2	4121.3	4132.3	4119.7	4107.1
42.5°	4452.3	4450.8	4458.6	4487.0	4505.9	4518.6	4491.8	4488.6
45°	4862.3	4851.2	4857.5	4881.2	4900.1	4914.3	4884.3	4884.3
47.5°	5313.2	5294.3	5273.8	5300.6	5311.6	5321.1	5297.4	5289.5
50°	5816.1	5776.7	5732.5	5743.6	5743.6	5740.4	5710.5	5708.9
52.5°	6393.1	6320.6	6240.2	6210.3	6192.9	6174.0	6122.0	6096.7
55°	7056.9	6948.1	6822.0	6744.7	6703.7	6651.7	6565.0	6541.3
57.5°	7832.6	7662.3	7444.7	7350.2	7258.7	7173.6	7077.4	7050.6
60°	8751.8	8501.1	8212.6	8037.6	7938.2	7856.2	7756.9	7752.2
62.5°	9776.6	9380.8	9054.5	8896.8	8824.3	8751.8	8657.2	8669.8
65°	10818.7	10405.6	10099.8	9972.1	9904.3	9844.3	9749.7	9763.9
67.5°	11846.6	11466.7	11130.9	11000.0	10924.3	10848.6	10763.5	10777.7
70°	12584.5	12113.1	11734.7	11444.6	11263.3	11058.3	10925.9	10892.8
72.5°	12373.2	11646.4	11045.7	10470.3	10132.9	9858.5	9672.5	9592.1
75°	10708.3	9715.1	8942.5	8236.2	7838.9	7515.7	7280.8	7134.2
77.5°	7952.4	6836.2	5923.3	5109.8	4466.5	4034.5	3730.3	3533.2
80°	4353.0	3310.9	2420.1	1701.2	1250.3	1039.0	917.6	859.3
82.5°	1355.9	875.0	644.8	556.5	517.1	495.1	458.8	400.5
85°	432.0	378.4	351.6	335.8	320.1	279.1	192.3	175.0
87.5°	167.1	171.9	170.3	160.8	164.0	118.2	94.6	83.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)