

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: P192626

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192626
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-08-LED-E1-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39263.4 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 334
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



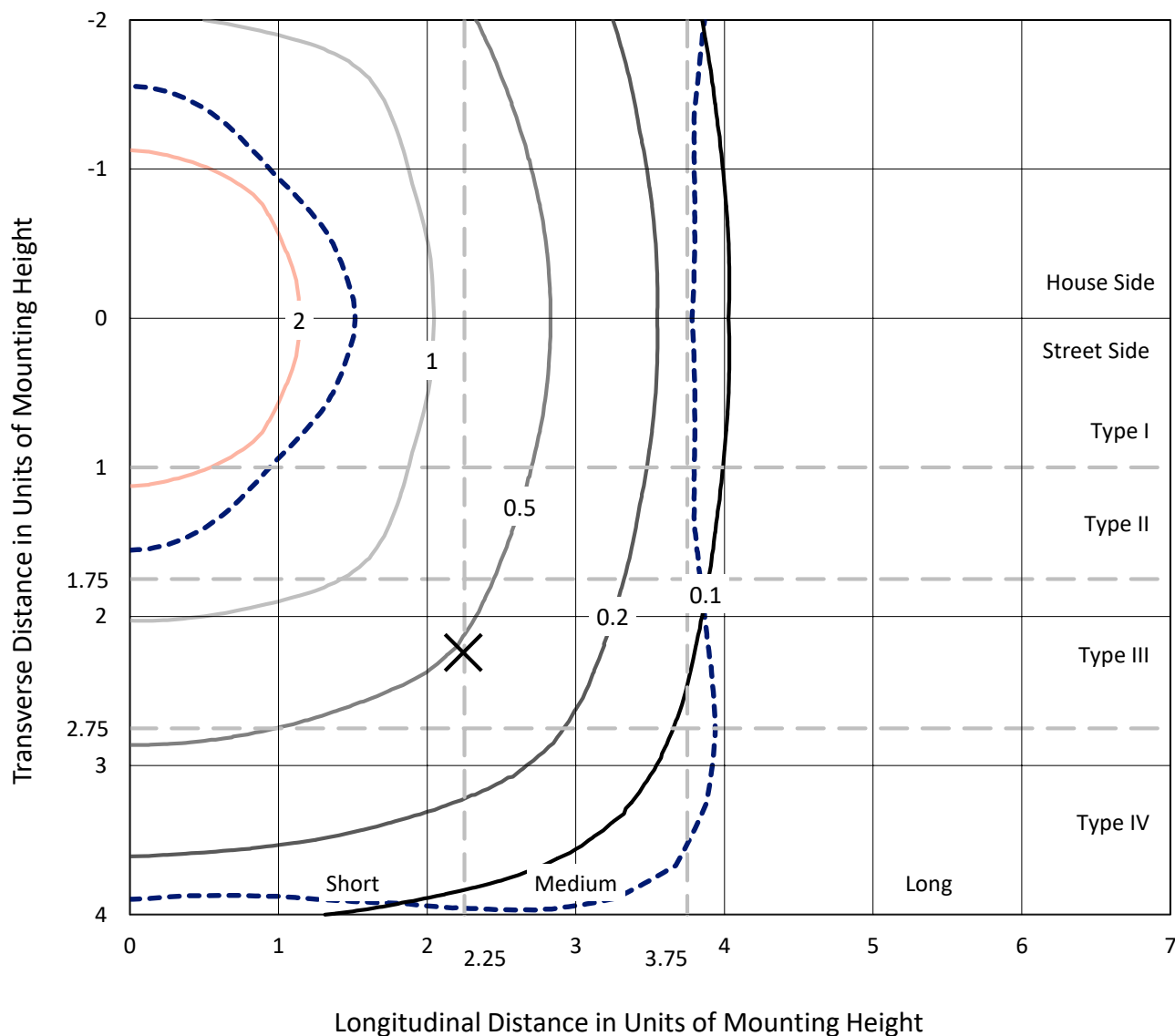
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

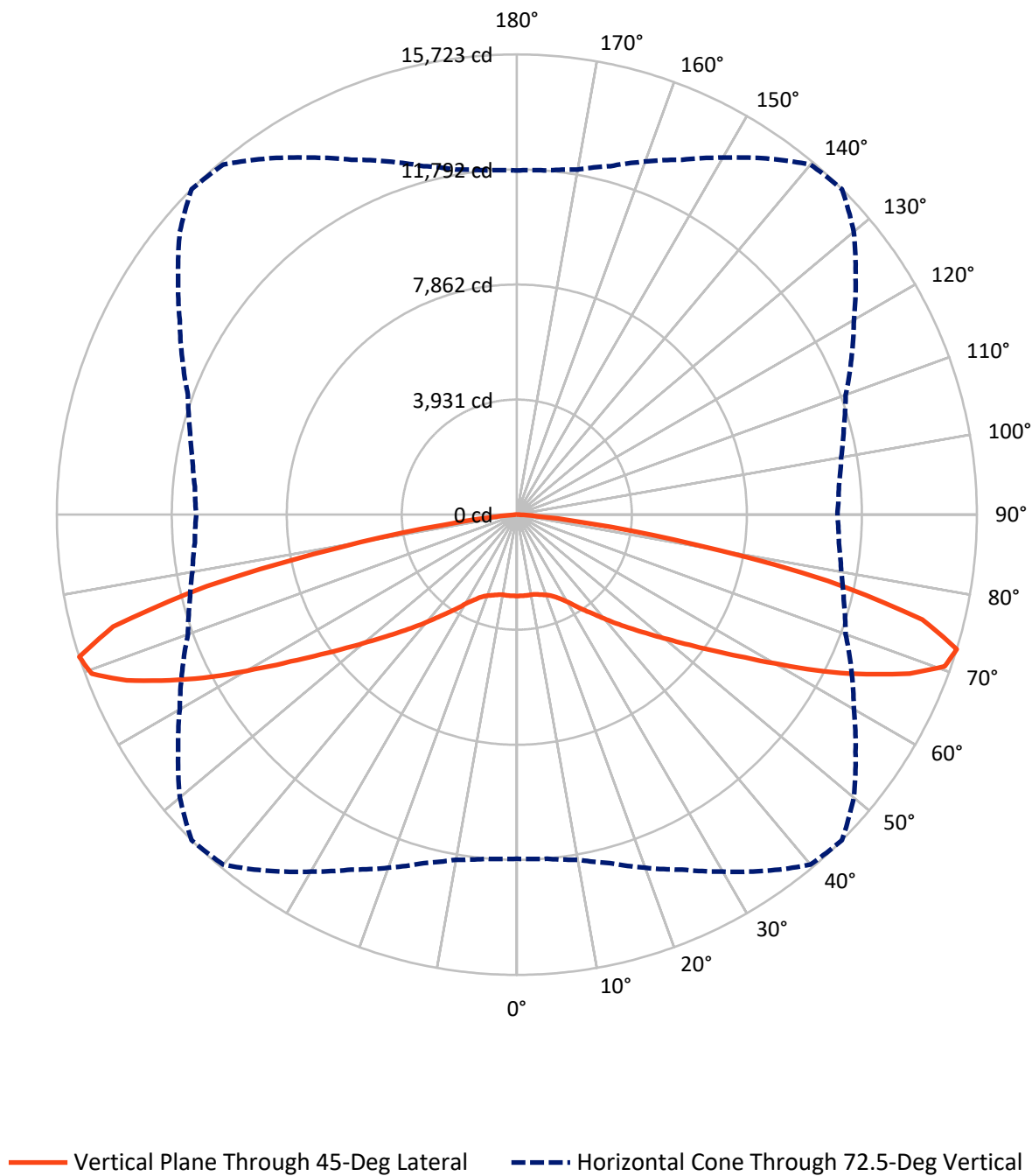


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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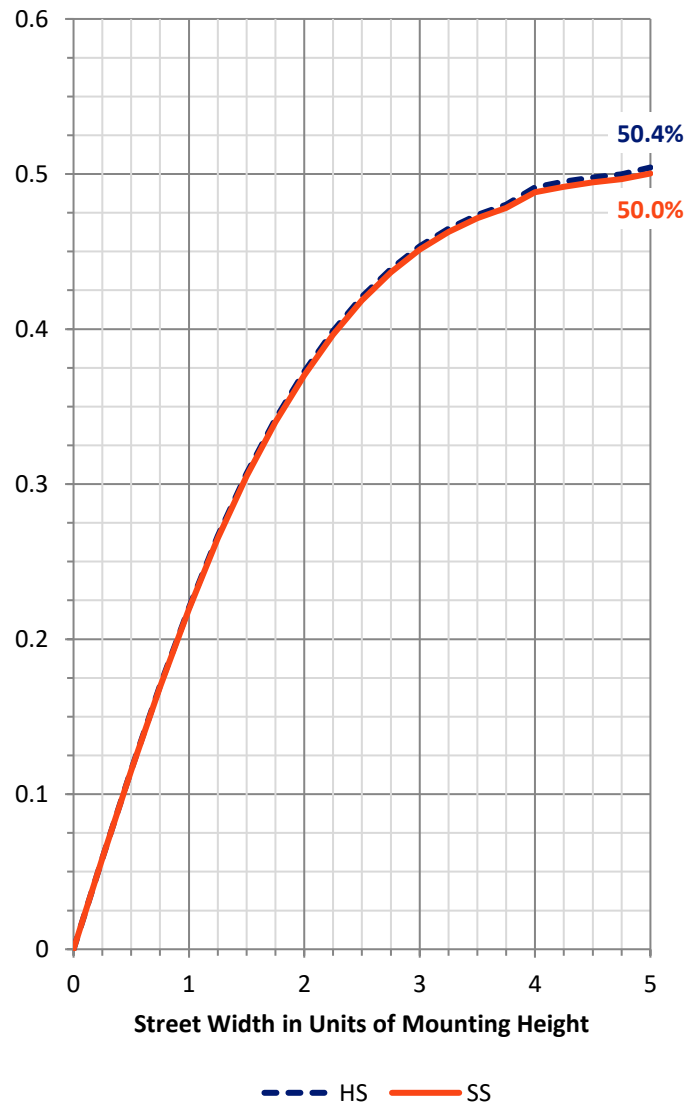
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19631.7	0.0	19631.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19631.7	0.0	19631.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	39263.4	0.0	39263.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	0.7
10°-20°	806.4	2.1
20°-30°	1473.5	3.8
30°-40°	2540.7	6.5
40°-50°	4343.2	11.1
50°-60°	7039.8	17.9
60°-70°	11678.8	29.7
70°-80°	10286.2	26.2
80°-90°	829.4	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°	39263.4	100.0
0°-180°	39263.4	100.0

Coefficient of Utilization



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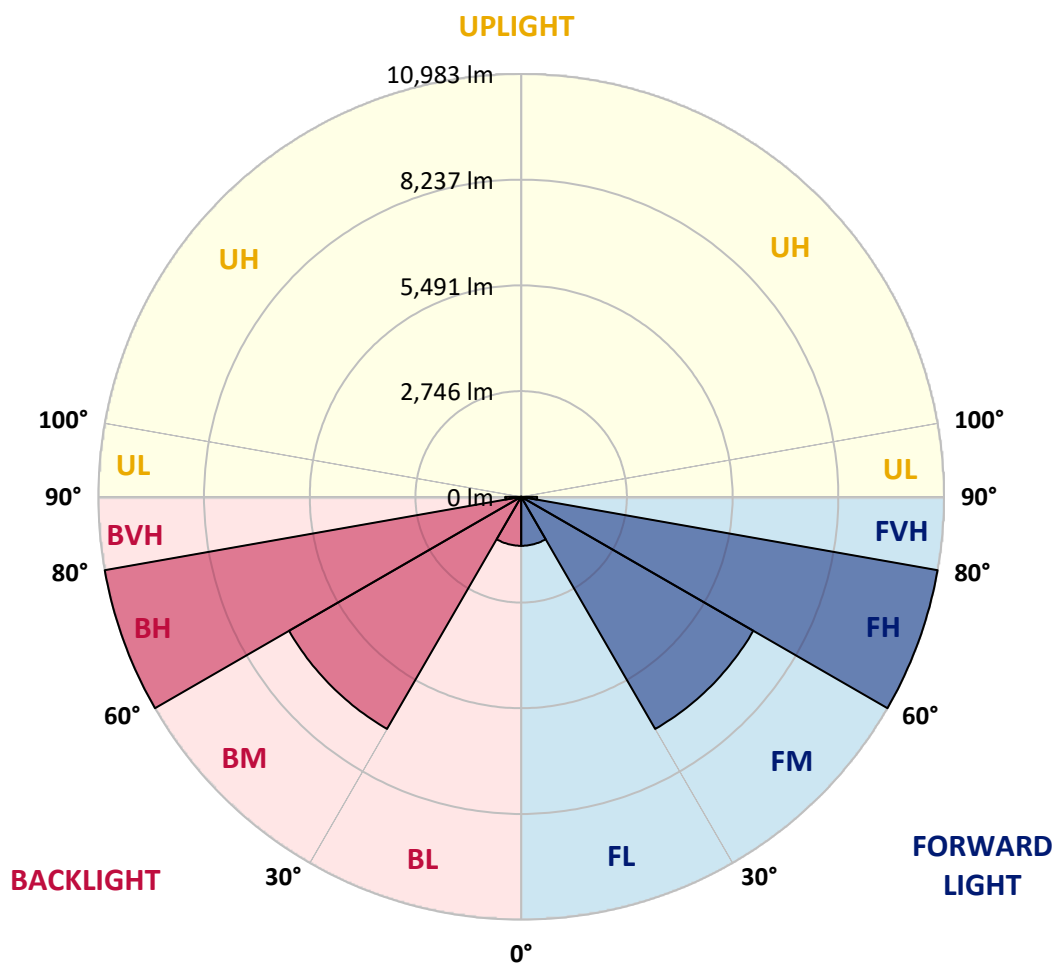
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.7	3.2			
FM	(30°-60°)	6961.8	17.7			
FH	(60°-80°)	10982.5	28.0			G4/12000
FVH	(80°-90°)	414.7	1.1			G3/500
BL	(0°-30°)	1272.7	3.2	B3/2500		
BM	(30°-60°)	6961.8	17.7	B4/8500		
BH	(60°-80°)	10982.5	28.0	B5		G4/12000
BVH	(80°-90°)	414.7	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°	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4
2.5°	2780.4	2782.3	2784.0	2782.3	2782.3	2780.4	2778.7	2780.4	2778.7	2775.0	2776.9
5°	2789.5	2793.1	2793.1	2789.5	2791.2	2789.5	2785.9	2787.6	2784.0	2778.7	2778.7
7.5°	2800.4	2802.1	2802.1	2798.4	2800.4	2796.7	2793.1	2791.2	2787.6	2780.4	2775.0
10°	2816.4	2818.3	2816.4	2812.9	2812.9	2807.5	2798.4	2794.9	2787.6	2776.9	2771.5
12.5°	2834.5	2836.3	2834.5	2830.9	2829.0	2820.1	2812.9	2807.5	2802.1	2793.1	2784.0
15°	2859.7	2863.2	2859.7	2852.5	2847.1	2839.8	2836.3	2838.1	2839.8	2832.6	2823.7
17.5°	2906.6	2908.3	2902.9	2886.7	2879.5	2872.3	2872.3	2875.9	2881.2	2877.7	2868.7
20°	2992.9	2987.5	2974.9	2955.1	2946.1	2933.5	2931.8	2933.5	2933.5	2931.8	2924.6
22.5°	3101.0	3097.4	3081.2	3056.0	3043.4	3036.2	3025.4	3016.3	3014.6	3009.1	3002.0
25°	3230.7	3228.8	3209.1	3187.4	3178.5	3169.4	3160.5	3147.9	3137.1	3124.4	3117.1
27.5°	3396.4	3389.1	3360.3	3349.6	3336.9	3331.6	3318.9	3304.5	3295.5	3279.3	3270.2
30°	3578.2	3578.2	3554.9	3551.3	3551.3	3538.6	3524.1	3499.0	3482.7	3466.6	3461.2
32.5°	3760.1	3761.9	3738.6	3745.7	3751.1	3760.1	3763.7	3754.7	3743.9	3742.1	3731.3
35°	4023.0	4015.9	3992.5	3997.8	3996.0	3994.2	3994.2	4013.9	4017.6	4021.2	3999.7
37.5°	4348.9	4348.9	4325.6	4325.6	4314.7	4303.9	4289.5	4302.2	4322.0	4327.3	4312.9
40°	4721.7	4734.3	4705.6	4703.7	4707.3	4673.1	4656.9	4676.8	4689.3	4710.9	4694.8
42.5°	5161.2	5152.1	5123.2	5119.7	5099.9	5089.1	5074.6	5090.9	5110.7	5125.2	5130.5
45°	5582.5	5575.3	5542.9	5542.9	5523.0	5514.1	5521.3	5548.3	5557.4	5577.1	5597.0
47.5°	5998.6	5989.5	5967.8	5976.9	5978.6	5994.9	6018.3	6043.5	6068.7	6095.8	6104.8
50°	6423.5	6425.3	6401.9	6423.5	6450.5	6495.6	6558.7	6600.1	6652.2	6686.4	6697.3
52.5°	6810.6	6817.9	6843.1	6893.5	6947.6	7035.7	7143.8	7244.7	7331.1	7388.7	7385.2
55°	7275.2	7286.1	7347.3	7433.8	7522.0	7655.2	7815.6	7993.9	8137.8	8220.7	8168.6
57.5°	7869.6	7893.0	7961.4	8078.4	8210.0	8382.8	8602.5	8870.9	9094.0	9205.7	9121.2
60°	8685.3	8699.8	8782.6	8912.3	9070.7	9285.0	9578.5	9938.7	10253.9	10401.5	10304.2
62.5°	9760.4	9787.5	9854.1	9985.5	10147.6	10390.7	10749.0	11199.3	11591.9	11797.2	11577.4
65°	11044.4	11130.8	11186.6	11320.0	11471.2	11728.8	12103.3	12585.9	13007.4	13142.4	12888.4
67.5°	12315.8	12391.4	12488.7	12641.8	12794.8	13084.8	13432.4	13900.5	14363.3	14485.8	14091.3
70°	12872.3	12915.4	13066.8	13275.6	13569.1	13911.3	14312.9	14838.7	15411.3	15512.2	15011.5
72.5°	11757.5	11800.8	11970.0	12324.8	12836.3	13380.1	14080.6	14853.1	15609.5	15723.0	15033.2
75°	8892.4	8822.2	9072.6	9542.4	10232.2	10990.4	11970.0	13077.6	14170.6	14312.9	13489.9
77.5°	4595.7	4586.7	4775.7	5359.2	6182.2	7044.8	8123.4	9375.1	10444.7	10877.0	10207.0
80°	1294.8	1309.2	1399.3	1689.1	2170.0	2793.1	3635.8	4808.2	5683.3	6130.0	5755.4
82.5°	507.8	547.5	581.7	635.7	698.7	790.6	1055.2	1570.3	2106.9	2517.6	2061.9
85°	181.9	194.5	275.6	325.9	331.4	349.4	398.0	464.6	560.1	668.1	549.2
87.5°	68.4	75.6	88.3	145.9	144.1	131.4	160.3	167.5	126.0	115.3	142.2
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°	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4	2780.4
2.5°	2773.2	2775.0	2775.0	2776.9	2778.7	2778.7	2782.3	2782.3
5°	2775.0	2775.0	2771.5	2773.2	2771.5	2771.5	2773.2	2773.2
7.5°	2771.5	2769.6	2766.0	2764.3	2760.7	2760.7	2760.7	2760.7
10°	2766.0	2764.3	2760.7	2758.8	2757.0	2757.0	2757.0	2757.0
12.5°	2780.4	2775.0	2771.5	2769.6	2769.6	2769.6	2769.6	2769.6
15°	2818.3	2805.7	2796.7	2796.7	2798.4	2802.1	2802.1	2805.7
17.5°	2865.1	2850.7	2841.8	2834.5	2838.1	2843.5	2847.1	2850.7
20°	2920.9	2913.7	2901.2	2894.0	2894.0	2901.2	2904.7	2906.6
22.5°	2998.4	2992.9	2987.5	2978.5	2978.5	2982.1	2989.4	2989.4
25°	3113.6	3109.9	3106.5	3099.2	3097.4	3097.4	3101.0	3104.6
27.5°	3257.7	3259.4	3255.9	3254.1	3248.8	3246.8	3252.3	3250.5
30°	3450.4	3459.3	3468.3	3461.2	3452.1	3446.8	3441.3	3434.1
32.5°	3711.4	3700.7	3693.5	3680.8	3664.7	3650.3	3639.4	3626.9
35°	3958.3	3940.2	3933.0	3943.8	3942.0	3933.0	3920.3	3909.7
37.5°	4260.8	4257.2	4260.8	4280.6	4277.0	4285.9	4260.8	4258.9
40°	4642.5	4646.1	4671.3	4694.8	4707.3	4719.9	4705.6	4691.1
42.5°	5085.5	5083.8	5092.7	5125.2	5146.7	5161.2	5130.5	5126.9
45°	5553.7	5541.1	5548.3	5575.3	5597.0	5613.2	5578.9	5578.9
47.5°	6068.7	6047.2	6023.7	6054.4	6066.9	6077.8	6050.8	6041.7
50°	6643.2	6598.1	6547.8	6560.4	6560.4	6556.7	6522.6	6520.7
52.5°	7302.4	7219.6	7127.6	7093.4	7073.6	7052.0	6992.6	6963.7
55°	8060.5	7936.1	7792.2	7703.9	7657.1	7597.7	7498.6	7471.5
57.5°	8946.4	8752.0	8503.4	8395.4	8290.9	8193.7	8083.9	8053.3
60°	9996.3	9710.0	9380.5	9180.5	9067.1	8973.5	8860.1	8854.6
62.5°	11166.9	10714.8	10342.1	10161.9	10079.1	9996.3	9888.3	9902.7
65°	12357.2	11885.3	11536.0	11390.2	11312.7	11244.3	11136.2	11152.4
67.5°	13531.3	13097.4	12713.7	12564.3	12477.9	12391.4	12294.2	12310.4
70°	14374.1	13835.7	13403.5	13072.1	12865.1	12630.9	12479.7	12441.8
72.5°	14132.8	13302.7	12616.5	11959.2	11573.9	11260.5	11048.0	10956.2
75°	12231.1	11096.6	10214.2	9407.4	8953.7	8584.5	8316.2	8148.7
77.5°	9083.3	7808.3	6765.7	5836.4	5101.8	4608.3	4260.8	4035.6
80°	4972.1	3781.7	2764.3	1943.0	1428.0	1186.8	1048.2	981.4
82.5°	1548.7	999.5	736.5	635.7	590.6	565.4	524.0	457.4
85°	493.5	432.2	401.5	383.6	365.6	318.7	219.7	200.0
87.5°	190.8	196.3	194.5	183.7	187.3	135.1	108.0	95.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)