

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: P192592

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-5NQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23955.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 225
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



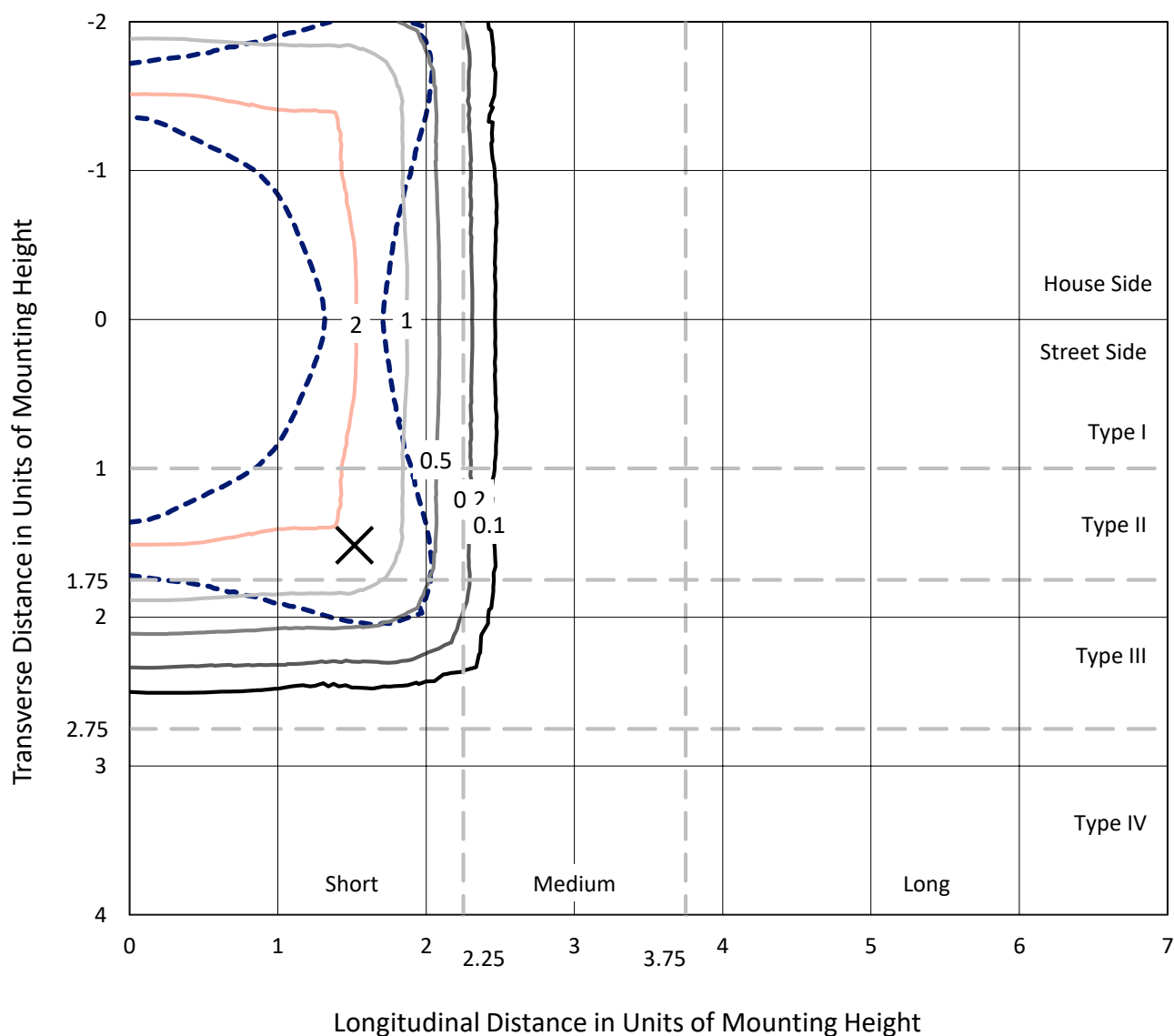
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

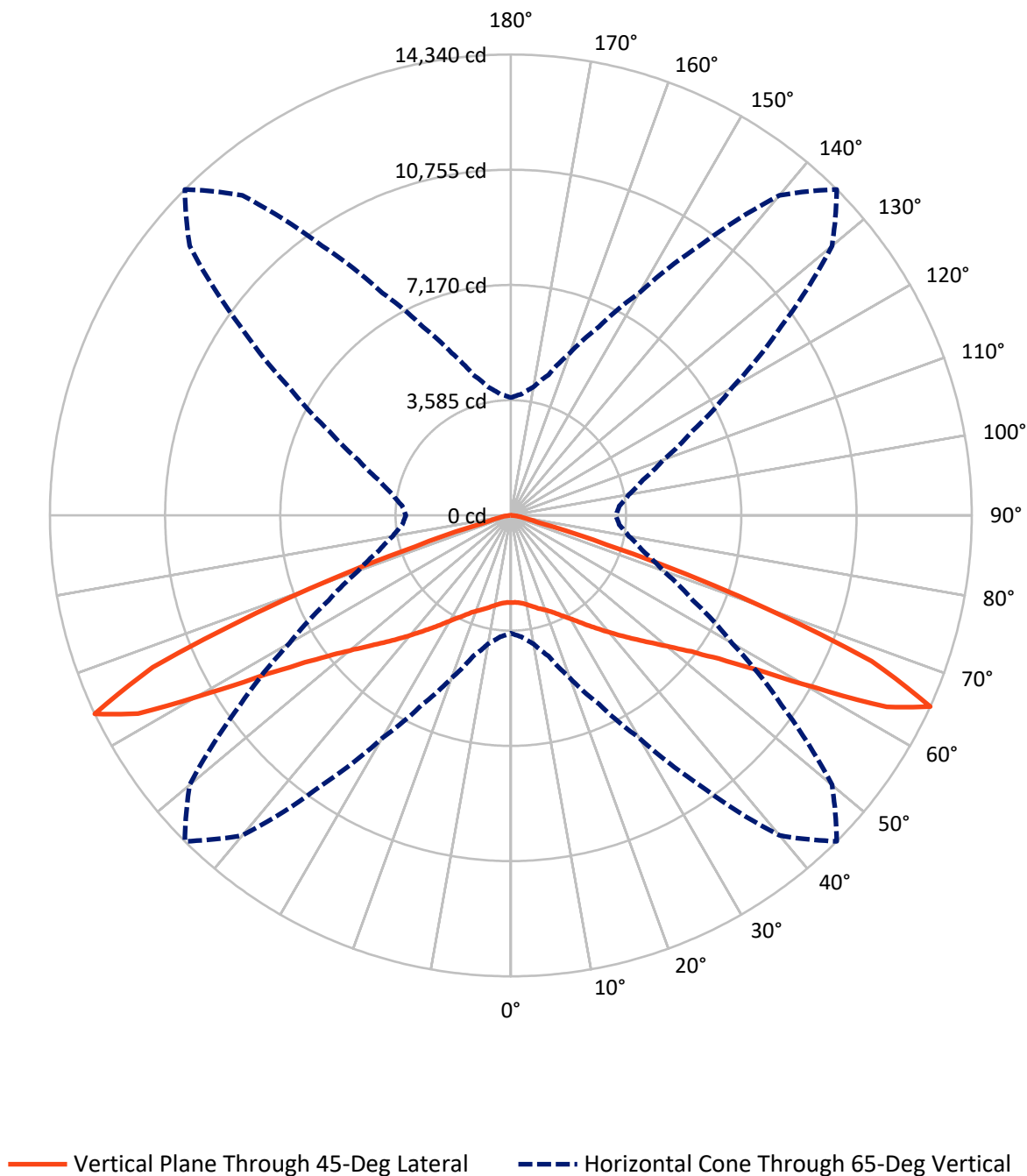


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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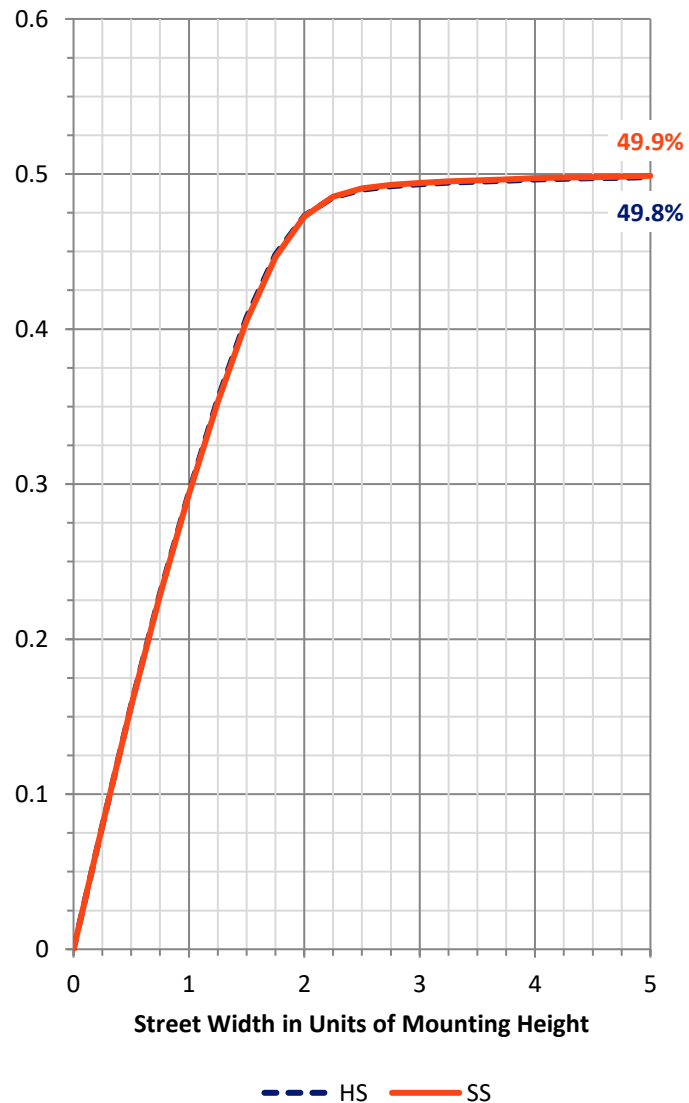
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11977.5	0.0	11977.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11977.5	0.0	11977.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23955.1	0.0	23955.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	1.1
10°-20°	847.3	3.5
20°-30°	1584.3	6.6
30°-40°	2679.5	11.2
40°-50°	4381.3	18.3
50°-60°	6966.9	29.1
60°-70°	6297.6	26.3
70°-80°	797.0	3.3
80°-90°	137.1	0.6
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°	23955.1	100.0
0°-180°	23955.1	100.0

Coefficient of Utilization



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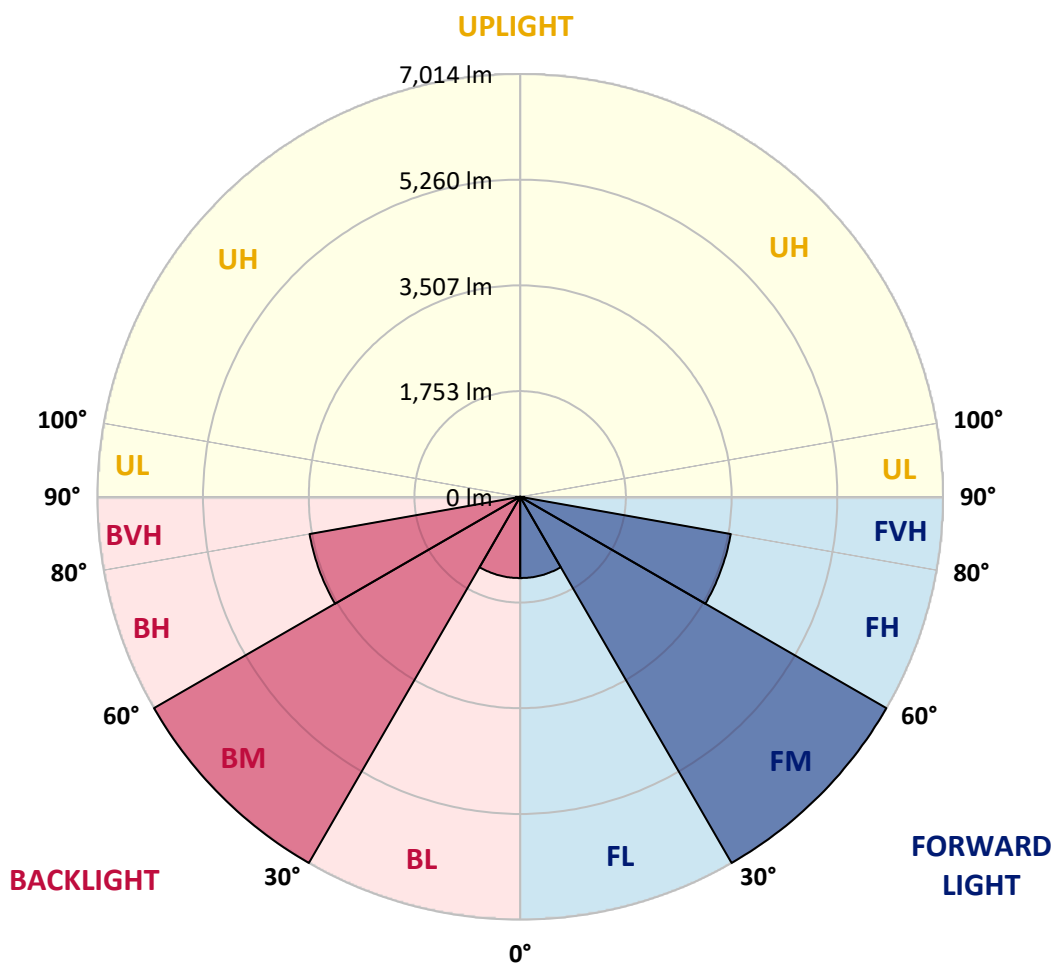
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1347.9	5.6			
FM	(30°-60°)	7013.8	29.3			
FH	(60°-80°)	3547.3	14.8			G2/5000
FVH	(80°-90°)	68.5	0.3			G1/100
BL	(0°-30°)	1347.9	5.6	B3/2500		
BM	(30°-60°)	7013.8	29.3	B4/8500		
BH	(60°-80°)	3547.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	68.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5
2.5°	2712.8	2715.0	2717.3	2715.0	2717.3	2713.9	2711.7	2715.0	2711.7	2708.3	2710.5
5°	2736.3	2737.5	2737.5	2734.1	2737.5	2735.2	2731.8	2736.3	2733.0	2729.7	2731.8
7.5°	2775.6	2780.1	2776.8	2773.3	2775.6	2773.3	2771.2	2772.2	2771.2	2767.7	2768.8
10°	2828.2	2831.7	2829.5	2828.2	2830.6	2829.5	2827.2	2826.1	2827.2	2823.8	2823.8
12.5°	2892.3	2891.1	2890.0	2891.1	2894.5	2894.5	2893.4	2894.5	2896.8	2897.9	2895.7
15°	2955.1	2957.3	2957.3	2957.3	2964.1	2969.6	2973.1	2975.3	2979.8	2980.9	2976.4
17.5°	3033.7	3033.7	3032.5	3033.7	3040.3	3049.3	3052.7	3057.2	3061.7	3065.0	3059.5
20°	3121.1	3123.4	3123.4	3125.7	3134.6	3144.7	3144.7	3147.0	3144.7	3147.0	3143.6
22.5°	3227.7	3234.5	3234.5	3235.6	3244.6	3256.9	3253.5	3256.9	3251.3	3255.8	3251.3
25°	3366.9	3376.9	3374.7	3374.7	3381.5	3389.3	3390.5	3397.1	3396.0	3401.7	3398.3
27.5°	3523.9	3539.7	3544.2	3543.0	3547.4	3555.3	3557.6	3565.4	3561.0	3565.4	3563.2
30°	3712.4	3719.0	3728.2	3731.4	3737.1	3745.0	3745.0	3746.1	3740.5	3747.1	3750.6
32.5°	3907.6	3920.0	3929.0	3949.0	3959.2	3964.8	3963.7	3966.0	3960.3	3969.3	3976.1
35°	4165.6	4174.6	4189.2	4205.0	4218.4	4217.3	4213.9	4215.0	4215.0	4222.9	4229.7
37.5°	4476.5	4478.6	4497.7	4520.2	4526.9	4520.2	4500.0	4495.5	4485.4	4495.5	4506.7
40°	4805.1	4813.0	4851.1	4865.8	4869.0	4856.8	4827.6	4810.8	4788.3	4800.7	4816.3
42.5°	5149.6	5165.2	5200.0	5225.9	5237.2	5229.2	5188.8	5163.0	5133.9	5140.5	5156.3
45°	5531.0	5550.1	5599.4	5624.1	5645.4	5633.1	5593.8	5554.5	5508.6	5511.9	5536.6
47.5°	5957.4	5976.4	6040.4	6081.9	6093.1	6090.8	6047.1	5993.2	5930.4	5928.2	5949.5
50°	6435.3	6454.4	6534.0	6597.9	6630.5	6627.1	6575.6	6499.2	6423.0	6424.0	6451.0
52.5°	6902.0	6925.5	7008.6	7118.5	7182.4	7228.5	7197.0	7125.3	7032.2	7034.3	7059.0
55°	7339.5	7378.9	7474.2	7623.3	7742.3	7871.4	7908.3	7906.1	7849.9	7865.7	7890.3
57.5°	7551.6	7609.9	7756.9	7992.5	8234.8	8497.3	8719.4	8885.5	8956.2	9062.7	9038.2
60°	7149.9	7243.1	7459.5	7806.2	8285.3	8832.7	9419.6	9992.9	10482.0	10851.1	10639.0
62.5°	5854.1	5975.3	6237.8	6682.1	7406.8	8283.1	9406.1	10761.4	12237.8	13128.6	12492.4
65°	3663.0	3788.7	4055.7	4531.4	5379.6	6468.9	7992.5	10238.5	12997.3	14340.3	13045.5
67.5°	1428.2	1496.7	1641.4	1945.4	2582.7	3551.9	5081.1	7630.1	10929.6	12106.5	10726.5
70°	715.7	722.5	749.4	805.6	942.4	1224.0	1862.4	3537.4	6268.1	7570.7	6042.6
72.5°	517.3	518.3	531.8	556.4	600.3	663.1	784.3	1082.6	2038.6	3115.5	1910.6
75°	396.1	400.6	408.4	421.8	445.4	476.8	520.5	623.8	773.0	896.4	753.9
77.5°	305.2	314.1	319.7	332.0	346.7	367.9	380.3	419.5	488.1	513.8	506.0
80°	232.2	240.1	252.4	262.6	272.6	282.8	278.3	296.2	332.0	353.5	342.2
82.5°	148.0	157.2	193.0	201.9	206.4	213.2	205.3	206.4	222.2	235.6	222.2
85°	95.4	100.9	122.3	133.6	134.6	139.1	135.7	128.0	128.0	116.7	131.2
87.5°	43.7	44.9	54.9	65.1	67.3	60.5	59.4	57.3	46.0	43.7	47.1
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°	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5	2710.5
2.5°	2709.4	2711.7	2712.8	2716.1	2717.3	2717.3	2718.4	2720.7
5°	2730.7	2734.1	2735.2	2739.6	2740.8	2739.6	2742.0	2743.1
7.5°	2768.8	2774.5	2776.8	2781.2	2777.8	2782.3	2783.5	2783.5
10°	2825.0	2830.6	2831.7	2836.2	2833.9	2836.2	2836.2	2833.9
12.5°	2898.9	2900.2	2896.8	2900.2	2895.7	2897.9	2894.5	2892.3
15°	2980.9	2977.6	2969.6	2969.6	2963.0	2964.1	2963.0	2961.8
17.5°	3060.6	3053.8	3048.3	3045.9	3040.3	3039.3	3035.9	3035.9
20°	3148.1	3144.7	3141.3	3136.9	3131.3	3125.7	3124.5	3126.8
22.5°	3253.5	3252.4	3252.4	3250.1	3242.3	3236.7	3233.3	3233.3
25°	3394.9	3384.9	3384.9	3383.6	3380.3	3376.9	3370.2	3373.6
27.5°	3554.2	3548.6	3553.1	3551.9	3548.6	3548.6	3544.2	3544.2
30°	3750.6	3748.2	3755.0	3749.4	3738.2	3737.1	3732.7	3727.0
32.5°	3977.1	3975.0	3985.0	3978.2	3960.3	3950.3	3941.3	3936.8
35°	4229.7	4230.7	4243.1	4238.6	4218.4	4211.6	4196.0	4193.7
37.5°	4505.7	4523.6	4544.8	4549.3	4532.5	4528.0	4511.2	4502.2
40°	4829.8	4853.4	4886.0	4893.7	4875.8	4872.4	4848.9	4836.6
42.5°	5175.4	5215.7	5256.1	5262.9	5244.9	5227.0	5204.6	5195.6
45°	5561.3	5609.6	5662.3	5675.7	5648.8	5627.5	5598.3	5598.3
47.5°	5994.4	6054.9	6114.3	6151.4	6126.7	6104.4	6069.6	6047.1
50°	6506.0	6589.0	6666.4	6704.4	6665.3	6622.6	6562.0	6541.9
52.5°	7147.6	7237.5	7304.7	7284.6	7224.0	7164.4	7098.3	7071.4
55°	7966.6	7997.0	7997.0	7920.6	7799.5	7699.6	7595.3	7560.5
57.5°	8991.0	8874.2	8694.8	8467.0	8181.0	7931.9	7763.6	7683.9
60°	10194.8	9633.8	8999.9	8377.4	7865.7	7443.9	7193.6	7079.2
62.5°	10997.0	9529.5	8259.5	7259.8	6523.9	6015.7	5670.1	5535.5
65°	10277.8	7947.6	6246.8	5050.8	4248.6	3731.4	3389.3	3263.7
67.5°	7528.0	4980.1	3326.5	2384.0	1746.8	1393.4	1253.2	1194.9
70°	3379.2	1753.5	1074.8	839.2	723.7	664.2	638.4	629.5
72.5°	1018.8	737.1	621.5	560.9	514.9	485.7	464.5	462.2
75°	614.8	511.6	454.4	418.5	389.3	365.7	354.5	351.2
77.5°	429.7	375.9	348.9	323.1	300.7	282.8	272.6	264.7
80°	301.8	276.0	263.7	249.1	234.5	217.7	203.1	196.3
82.5°	201.9	196.3	196.3	187.4	175.1	159.3	130.1	123.5
85°	130.1	129.0	131.2	128.0	118.9	102.0	84.1	79.6
87.5°	60.5	61.7	68.4	67.3	65.1	53.9	42.6	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)