

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: P194192

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194192
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-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 24768 lumens
Efficiency: N/A
Efficacy: 110.1 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

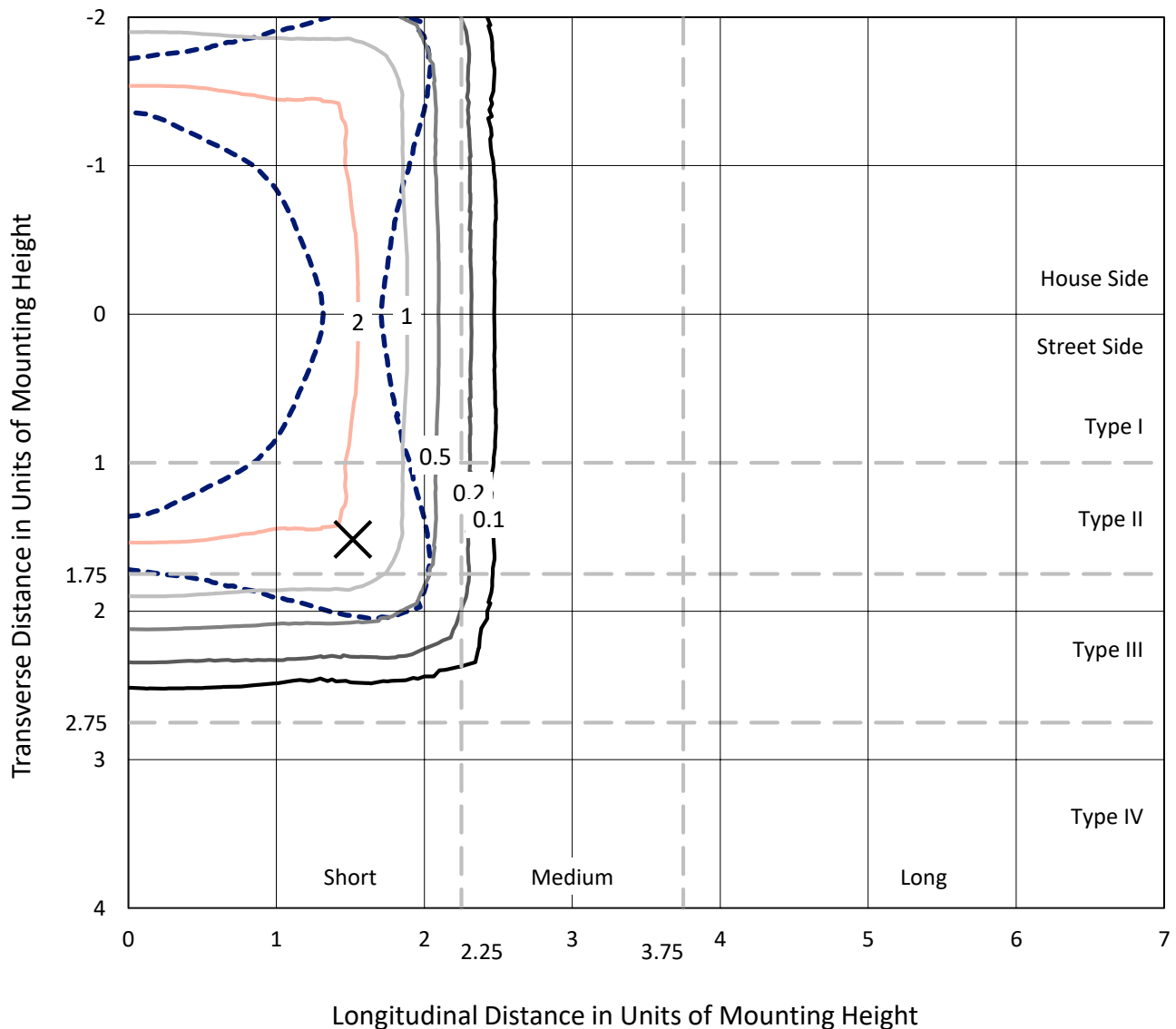


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

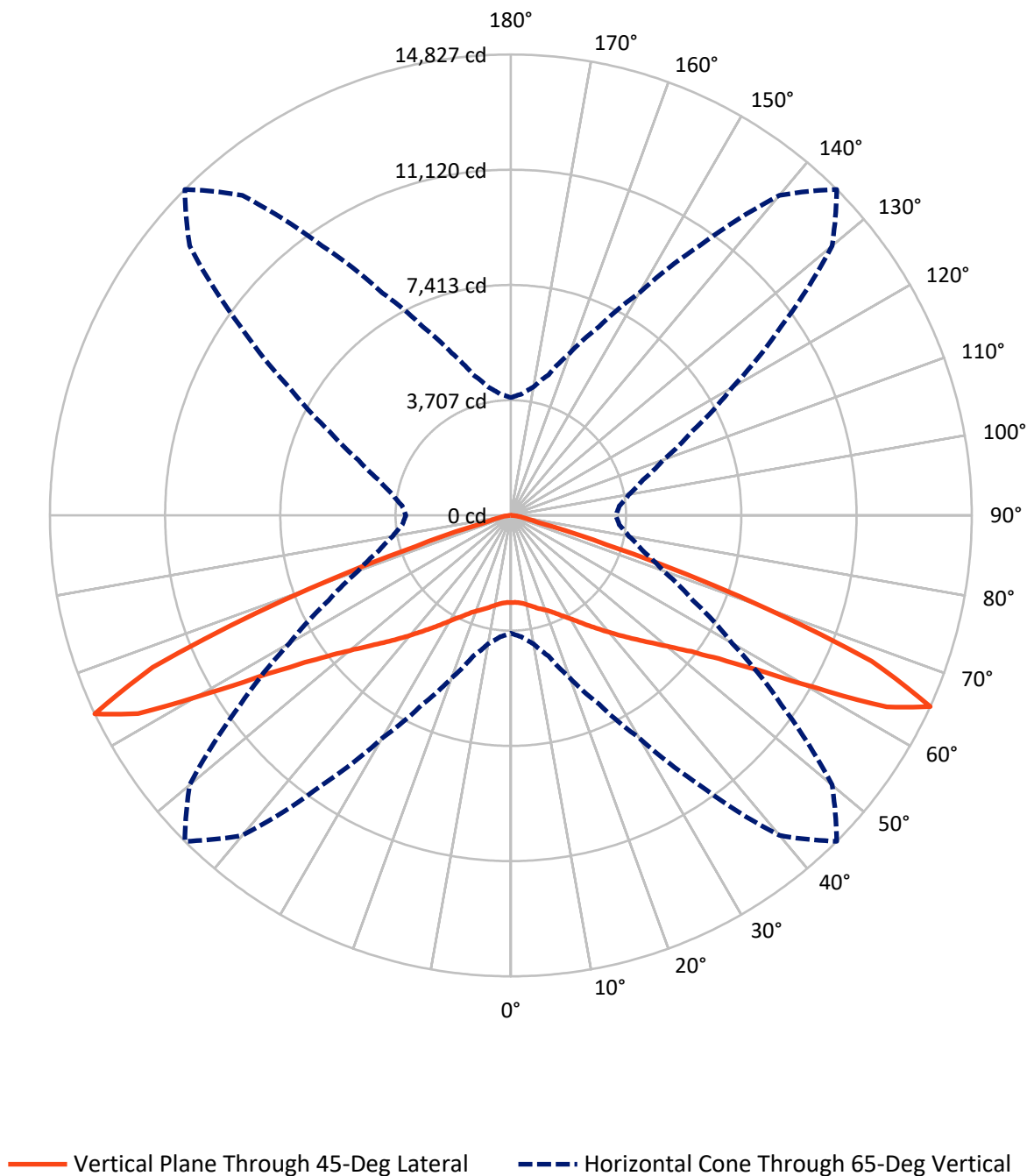


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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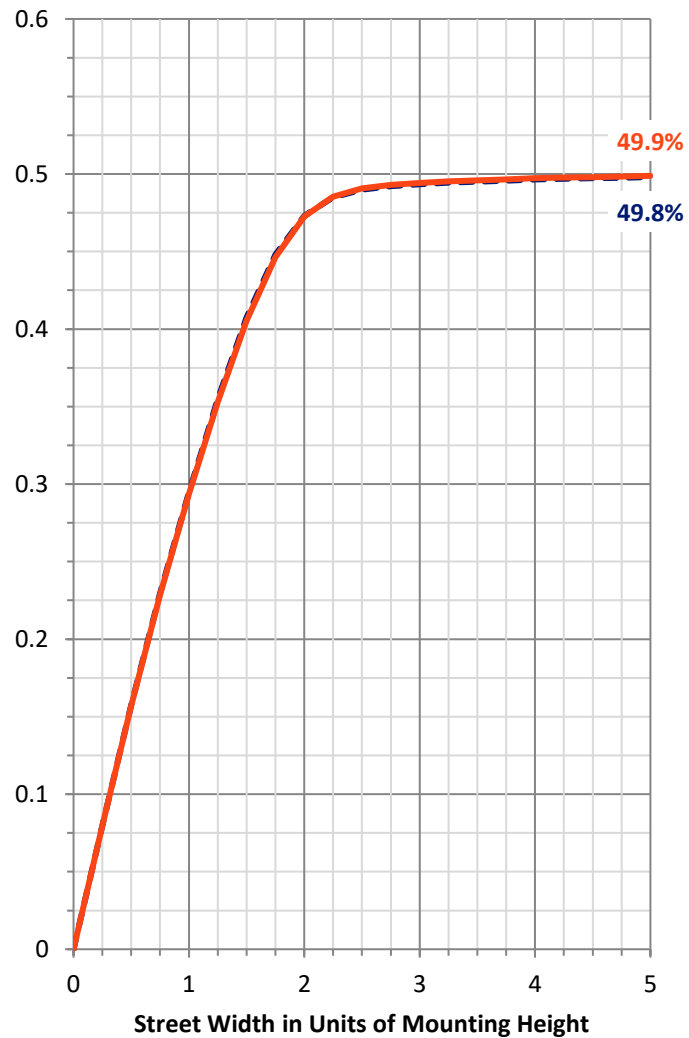
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12384.0	0.0	12384.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12384.0	0.0	12384.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24768.0	0.0	24768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	1.1
10°-20°	876.1	3.5
20°-30°	1638.1	6.6
30°-40°	2770.4	11.2
40°-50°	4529.9	18.3
50°-60°	7203.3	29.1
60°-70°	6511.3	26.3
70°-80°	824.0	3.3
80°-90°	141.7	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°	24768.0	100.0
0°-180°	24768.0	100.0

Coefficient of Utilization



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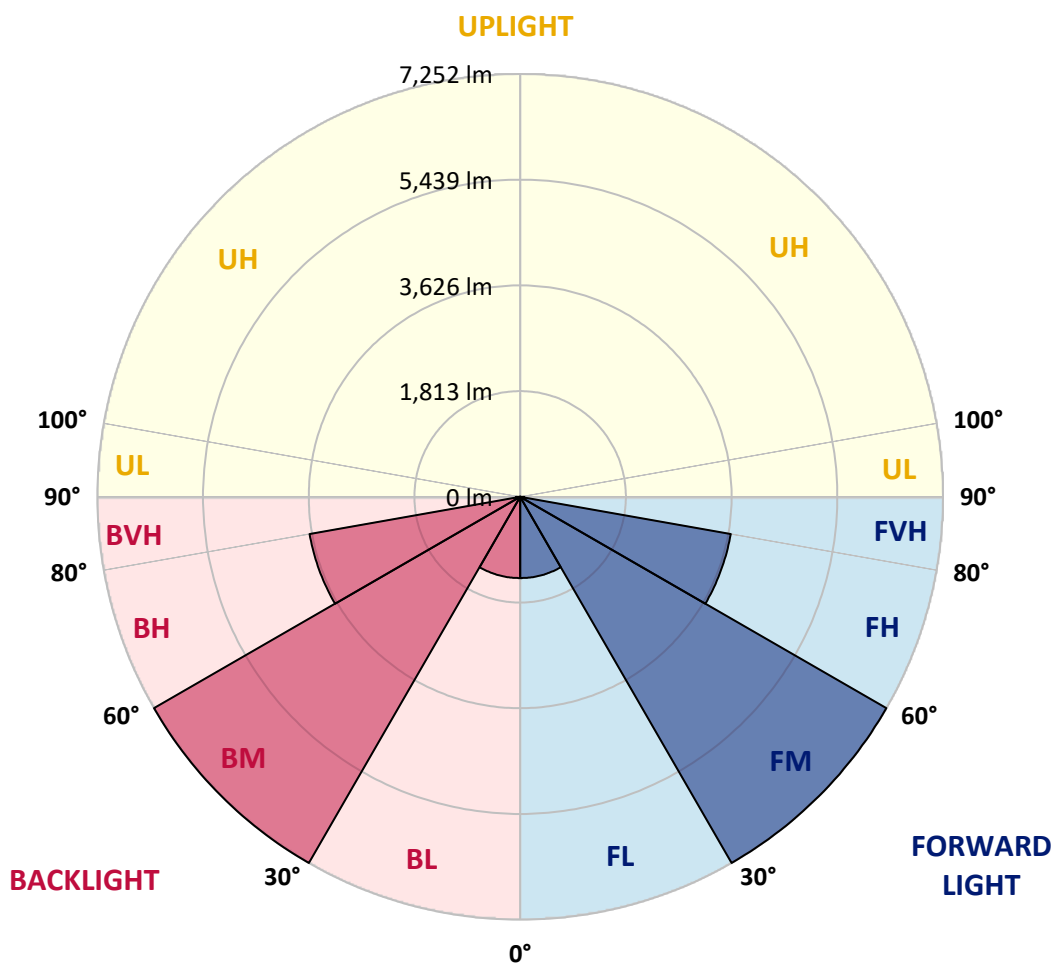
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.6	5.6			
FM	(30°-60°)	7251.8	29.3			
FH	(60°-80°)	3667.7	14.8			G2/5000
FVH	(80°-90°)	70.9	0.3			G1/100
BL	(0°-30°)	1393.6	5.6	B3/2500		
BM	(30°-60°)	7251.8	29.3	B4/8500		
BH	(60°-80°)	3667.7	14.8	B4/5000		G2/5000
BVH	(80°-90°)	70.9	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°	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5
2.5°	2804.8	2807.2	2809.5	2807.2	2809.5	2806.0	2803.7	2807.2	2803.7	2800.2	2802.5
5°	2829.2	2830.4	2830.4	2826.9	2830.4	2828.0	2824.6	2829.2	2825.7	2822.2	2824.6
7.5°	2869.8	2874.4	2871.0	2867.5	2869.8	2867.5	2865.2	2866.3	2865.2	2861.7	2862.8
10°	2924.3	2927.8	2925.5	2924.3	2926.6	2925.5	2923.2	2922.0	2923.2	2919.7	2919.7
12.5°	2990.4	2989.3	2988.1	2989.3	2992.7	2992.7	2991.6	2992.7	2995.1	2996.2	2993.9
15°	3055.4	3057.7	3057.7	3057.7	3064.7	3070.5	3073.9	3076.3	3080.9	3082.1	3077.4
17.5°	3136.6	3136.6	3135.4	3136.6	3143.5	3152.8	3156.3	3160.9	3165.6	3169.1	3163.3
20°	3227.1	3229.4	3229.4	3231.7	3241.0	3251.4	3251.4	3253.7	3251.4	3253.7	3250.3
22.5°	3337.3	3344.2	3344.2	3345.4	3354.7	3367.4	3363.9	3367.4	3361.6	3366.3	3361.6
25°	3481.1	3491.5	3489.2	3489.2	3496.2	3504.3	3505.5	3512.4	3511.3	3517.1	3513.6
27.5°	3643.5	3659.7	3664.4	3663.2	3667.9	3676.0	3678.3	3686.4	3681.8	3686.4	3684.1
30°	3838.4	3845.3	3854.6	3858.1	3863.9	3872.0	3872.0	3873.2	3867.4	3874.3	3877.8
32.5°	4040.2	4053.0	4062.3	4083.1	4093.6	4099.4	4098.2	4100.5	4094.7	4104.0	4111.0
35°	4307.0	4316.3	4331.4	4347.6	4361.5	4360.4	4356.9	4358.0	4358.0	4366.2	4373.1
37.5°	4628.3	4630.6	4650.4	4673.6	4680.5	4673.6	4652.7	4648.0	4637.6	4648.0	4659.6
40°	4968.2	4976.3	5015.8	5030.8	5034.3	5021.6	4991.4	4974.0	4950.8	4963.6	4979.8
42.5°	5324.3	5340.5	5376.5	5403.2	5414.8	5406.7	5364.9	5338.2	5308.1	5315.0	5331.3
45°	5718.7	5738.4	5789.5	5815.0	5837.0	5824.3	5783.7	5743.1	5695.5	5699.0	5724.5
47.5°	6159.5	6179.2	6245.3	6288.3	6299.9	6297.5	6252.3	6196.6	6131.7	6129.3	6151.4
50°	6653.6	6673.4	6755.7	6821.8	6855.5	6852.0	6798.6	6719.8	6640.9	6642.0	6669.9
52.5°	7136.2	7160.6	7246.4	7360.1	7426.2	7473.8	7441.3	7367.0	7270.8	7273.1	7298.6
55°	7588.6	7629.2	7727.8	7882.1	8005.0	8138.4	8176.7	8174.4	8116.4	8132.6	8158.1
57.5°	7807.8	7868.1	8020.1	8263.7	8514.3	8785.7	9015.4	9187.0	9260.1	9370.3	9344.8
60°	7392.6	7488.8	7712.7	8071.1	8566.5	9132.5	9739.2	10331.9	10837.7	11219.3	11000.1
62.5°	6052.8	6178.1	6449.5	6908.8	7658.2	8564.1	9725.3	11126.5	12653.1	13574.1	12916.4
65°	3787.3	3917.3	4193.3	4685.2	5562.1	6688.4	8263.7	10586.0	13438.4	14826.9	13488.3
67.5°	1476.7	1547.4	1697.1	2011.4	2670.3	3672.5	5253.6	7889.0	11300.5	12517.3	11090.6
70°	740.1	747.0	774.9	832.9	974.4	1265.5	1925.6	3657.4	6480.8	7827.5	6247.7
72.5°	534.8	535.9	549.8	575.4	620.6	685.5	810.8	1119.4	2107.7	3221.3	1975.4
75°	409.5	414.1	422.2	436.2	460.5	493.0	538.2	644.9	799.2	926.8	779.5
77.5°	315.5	324.8	330.6	343.4	358.4	380.5	393.2	433.8	504.6	531.3	523.2
80°	240.1	248.2	261.0	271.4	281.9	292.3	287.7	306.2	343.4	365.4	353.8
82.5°	153.1	162.4	199.5	208.8	213.4	220.4	212.3	213.4	229.7	243.6	229.7
85°	98.6	104.4	126.4	138.0	139.2	143.8	140.4	132.2	132.2	120.6	135.7
87.5°	45.2	46.4	56.8	67.3	69.6	62.6	61.5	59.2	47.6	45.2	48.7
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°	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5	2802.5
2.5°	2801.4	2803.7	2804.8	2808.3	2809.5	2809.5	2810.6	2813.0
5°	2823.4	2826.9	2828.0	2832.7	2833.8	2832.7	2835.0	2836.2
7.5°	2862.8	2868.6	2871.0	2875.6	2872.1	2876.8	2877.9	2877.9
10°	2920.8	2926.6	2927.8	2932.4	2930.1	2932.4	2932.4	2930.1
12.5°	2997.4	2998.5	2995.1	2998.5	2993.9	2996.2	2992.7	2990.4
15°	3082.1	3078.6	3070.5	3070.5	3063.5	3064.7	3063.5	3062.3
17.5°	3164.4	3157.5	3151.7	3149.3	3143.5	3142.4	3138.9	3138.9
20°	3254.9	3251.4	3247.9	3243.3	3237.5	3231.7	3230.5	3232.9
22.5°	3363.9	3362.8	3362.8	3360.5	3352.3	3346.5	3343.1	3343.1
25°	3510.1	3499.7	3499.7	3498.5	3495.0	3491.5	3484.6	3488.1
27.5°	3674.8	3669.0	3673.7	3672.5	3669.0	3669.0	3664.4	3664.4
30°	3877.8	3875.5	3882.5	3876.7	3865.1	3863.9	3859.3	3853.5
32.5°	4112.1	4109.8	4120.3	4113.3	4094.7	4084.3	4075.0	4070.4
35°	4373.1	4374.3	4387.0	4382.4	4361.5	4354.6	4338.3	4336.0
37.5°	4658.5	4677.0	4699.1	4703.7	4686.3	4681.7	4664.3	4655.0
40°	4993.7	5018.1	5051.7	5059.8	5041.3	5037.8	5013.4	5000.7
42.5°	5351.0	5392.7	5434.5	5441.5	5422.9	5404.3	5381.1	5371.9
45°	5750.0	5799.9	5854.4	5868.3	5840.5	5818.5	5788.3	5788.3
47.5°	6197.8	6260.4	6321.9	6360.2	6334.7	6311.5	6275.5	6252.3
50°	6726.7	6812.6	6892.6	6932.0	6891.4	6847.4	6784.7	6763.8
52.5°	7390.2	7483.0	7552.6	7531.8	7469.1	7407.6	7339.2	7311.4
55°	8237.0	8268.3	8268.3	8189.5	8064.2	7960.9	7853.1	7817.1
57.5°	9296.1	9175.4	8989.8	8754.4	8458.6	8201.1	8027.1	7944.7
60°	10540.7	9960.8	9305.4	8661.6	8132.6	7696.5	7437.8	7319.5
62.5°	11370.1	9852.9	8539.8	7506.2	6745.3	6219.8	5862.5	5723.3
65°	10626.6	8217.3	6458.8	5222.2	4392.8	3858.1	3504.3	3374.4
67.5°	7783.5	5149.2	3439.3	2465.0	1806.1	1440.7	1295.7	1235.4
70°	3493.9	1813.0	1111.3	867.7	748.2	686.7	660.0	650.7
72.5°	1053.3	762.1	642.6	580.0	532.4	502.3	480.2	477.9
75°	635.7	529.0	469.8	432.7	402.5	378.2	366.6	363.1
77.5°	444.3	388.6	360.8	334.1	310.9	292.3	281.9	273.8
80°	312.0	285.4	272.6	257.5	242.4	225.0	210.0	203.0
82.5°	208.8	203.0	203.0	193.7	181.0	164.7	134.6	127.6
85°	134.6	133.4	135.7	132.2	123.0	105.6	87.0	82.4
87.5°	62.6	63.8	70.8	69.6	67.3	55.7	44.1	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)