

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: P192584

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192584
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-06-LED-E1-5NQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28695.9 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 249
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

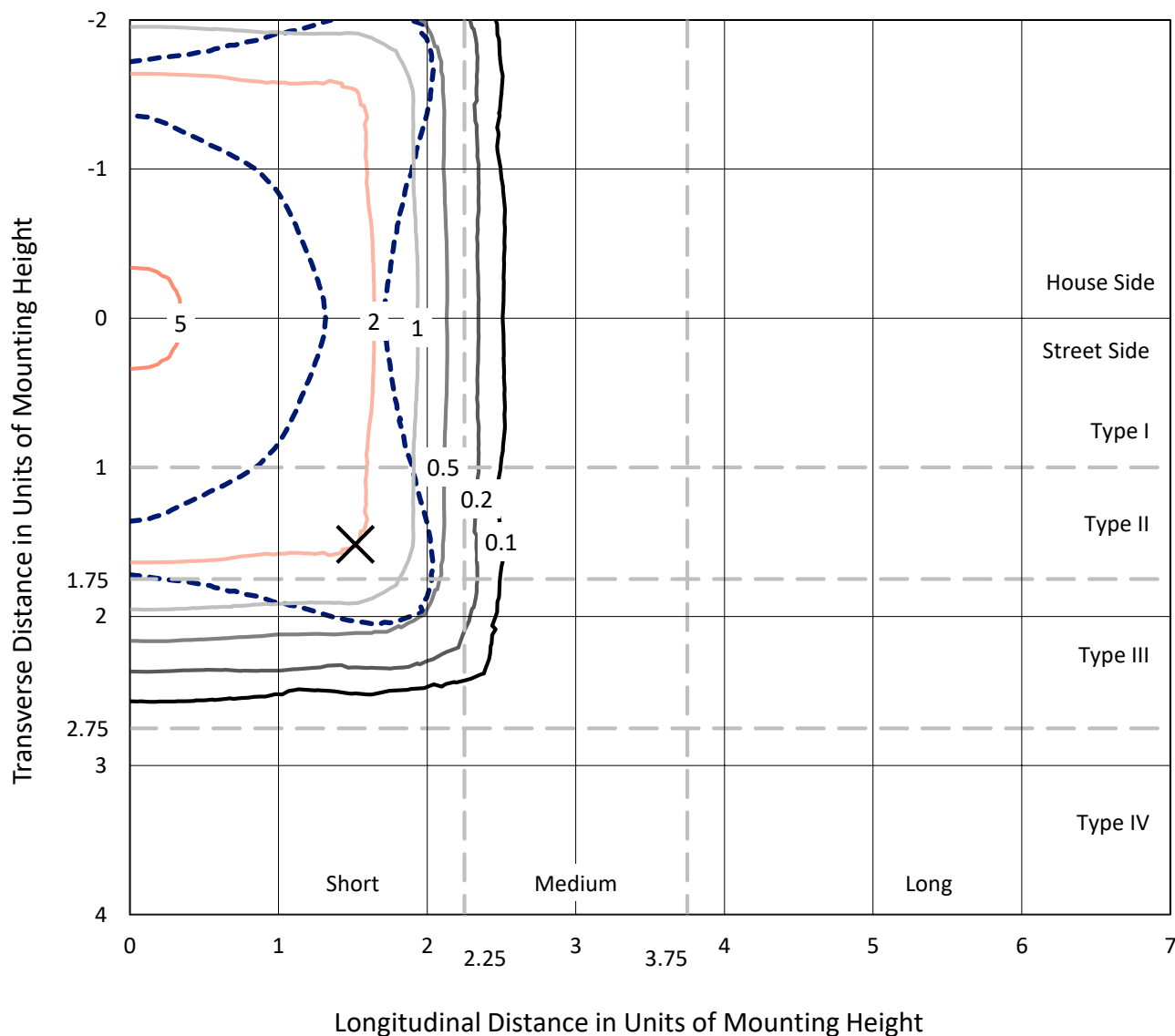


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

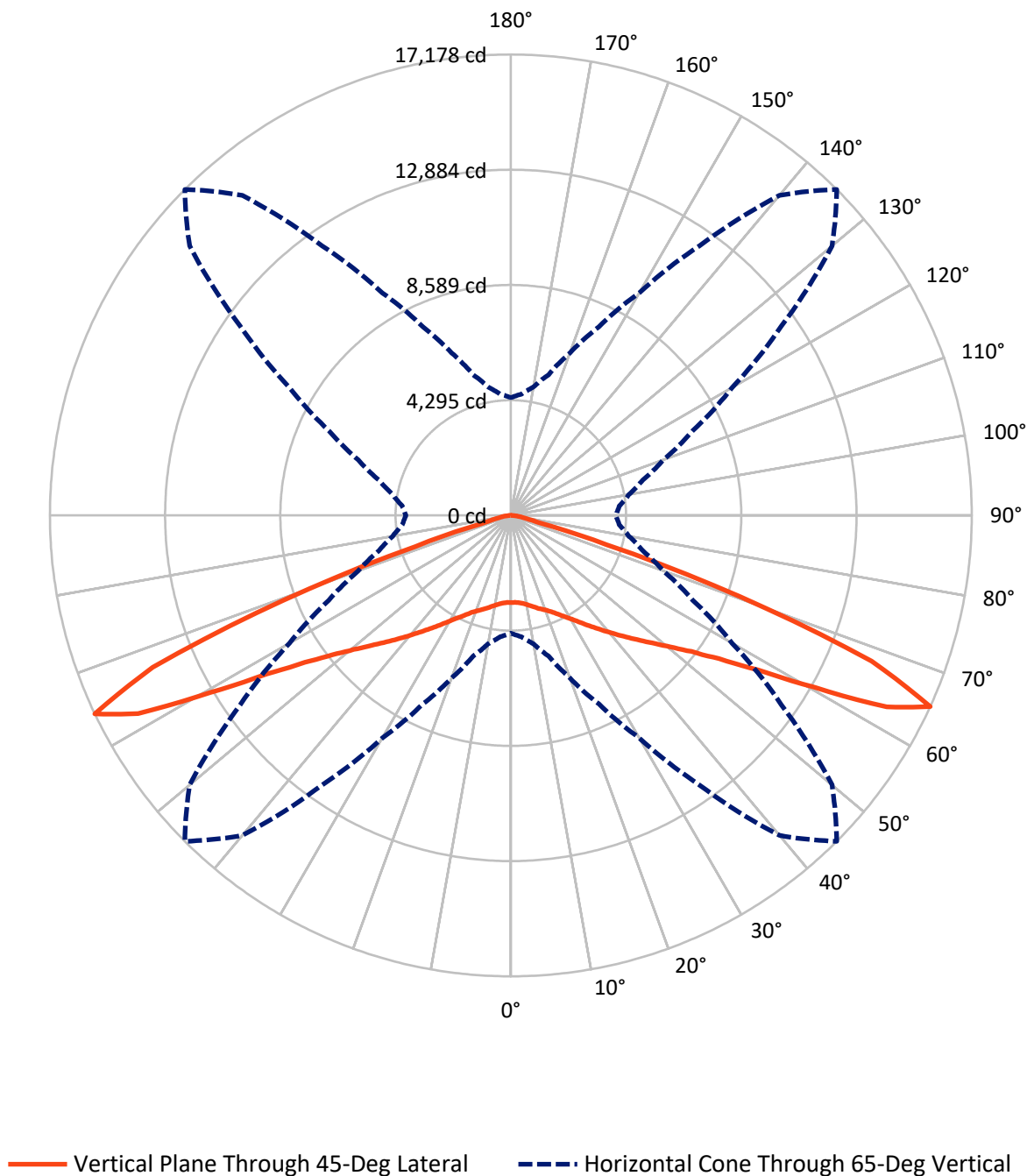


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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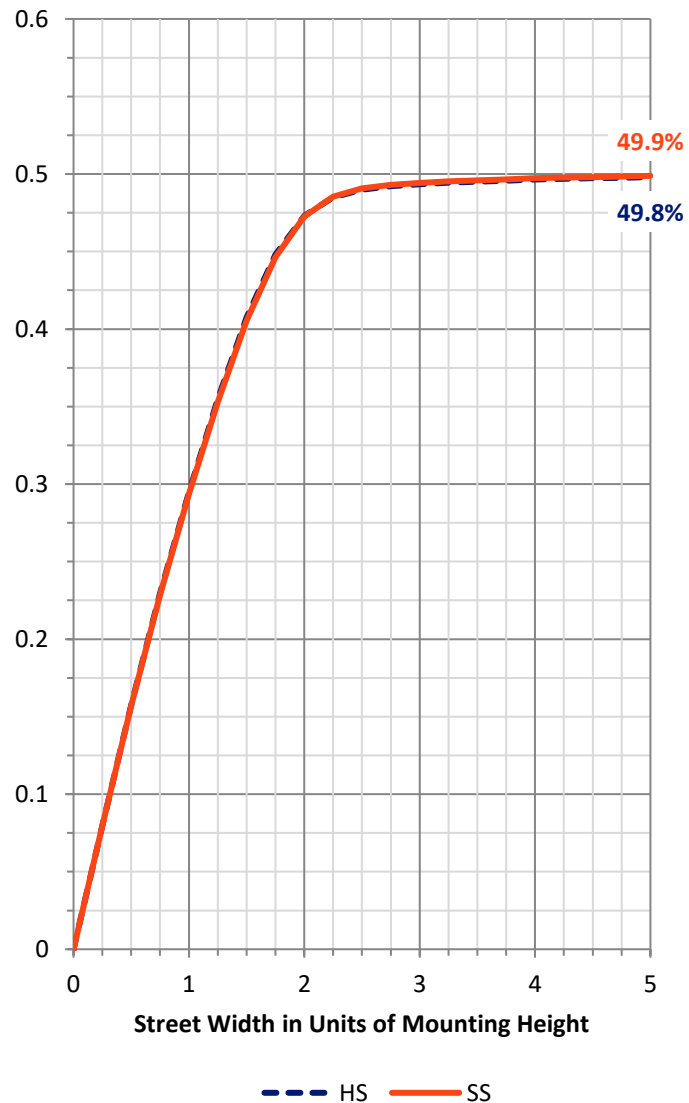
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14347.9	0.0	14347.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14347.9	0.0	14347.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	28695.9	0.0	28695.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	1.1
10°-20°	1015.0	3.5
20°-30°	1897.8	6.6
30°-40°	3209.8	11.2
40°-50°	5248.3	18.3
50°-60°	8345.6	29.1
60°-70°	7543.9	26.3
70°-80°	954.7	3.3
80°-90°	164.2	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°	28695.9	100.0
0°-180°	28695.9	100.0

Coefficient of Utilization



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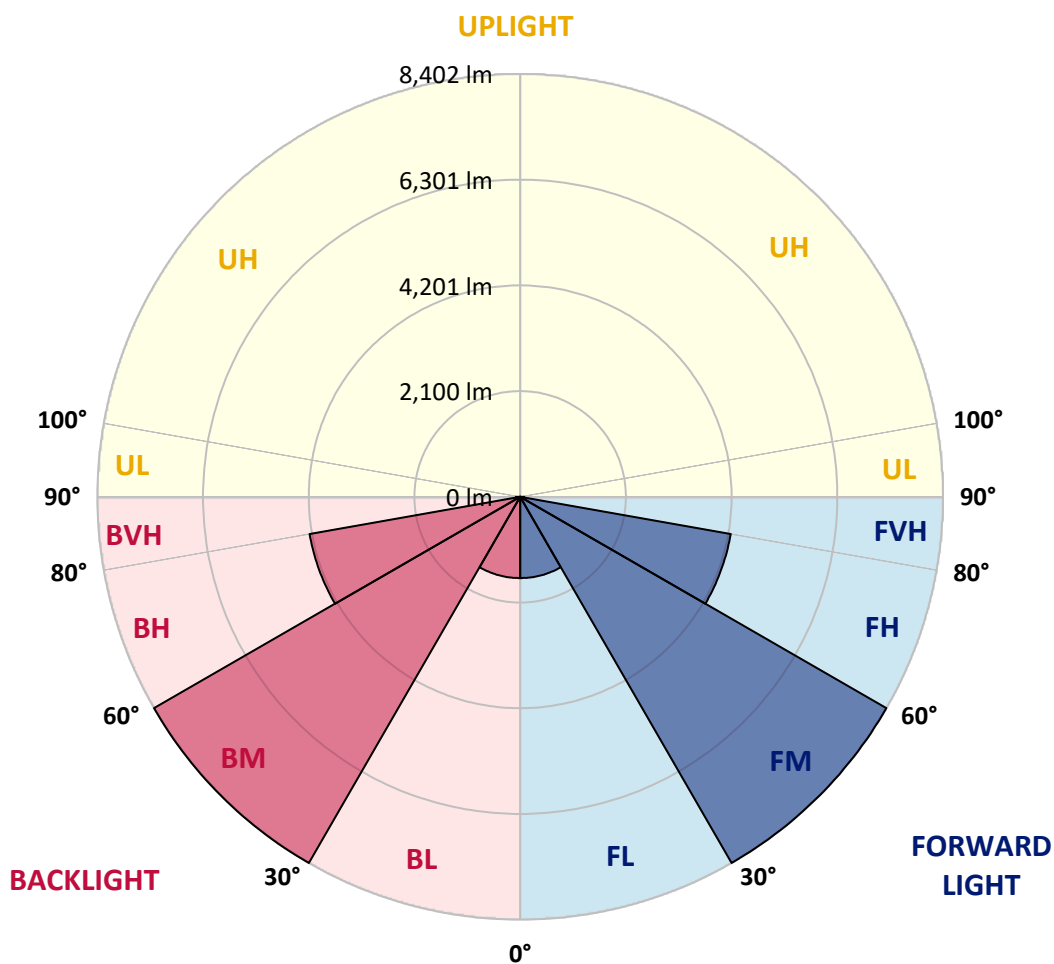
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1614.6	5.6			
FM	(30°-60°)	8401.9	29.3			
FH	(60°-80°)	4249.3	14.8			G2/5000
FVH	(80°-90°)	82.1	0.3			G1/100
BL	(0°-30°)	1614.6	5.6	B3/2500		
BM	(30°-60°)	8401.9	29.3	B4/8500		
BH	(60°-80°)	4249.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	82.1	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°	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9
2.5°	3249.6	3252.3	3255.1	3252.3	3255.1	3251.0	3248.3	3252.3	3248.3	3244.2	3246.9
5°	3277.9	3279.2	3279.2	3275.1	3279.2	3276.4	3272.6	3277.9	3273.9	3269.8	3272.6
7.5°	3324.9	3330.2	3326.3	3322.2	3324.9	3322.2	3319.6	3320.8	3319.6	3315.5	3316.8
10°	3388.0	3392.1	3389.4	3388.0	3390.8	3389.4	3386.7	3385.4	3386.7	3382.6	3382.6
12.5°	3464.7	3463.3	3462.0	3463.3	3467.4	3467.4	3466.0	3467.4	3470.1	3471.3	3468.7
15°	3539.9	3542.6	3542.6	3542.6	3550.7	3557.4	3561.5	3564.1	3569.5	3570.8	3565.4
17.5°	3634.0	3634.0	3632.7	3634.0	3642.0	3652.9	3656.8	3662.3	3667.7	3671.6	3664.9
20°	3738.9	3741.5	3741.5	3744.2	3754.9	3767.0	3767.0	3769.8	3767.0	3769.8	3765.7
22.5°	3866.4	3874.6	3874.6	3875.9	3886.7	3901.4	3897.4	3901.4	3894.8	3900.1	3894.8
25°	4033.2	4045.3	4042.6	4042.6	4050.7	4060.1	4061.3	4069.5	4068.0	4074.9	4070.8
27.5°	4221.3	4240.2	4245.5	4244.1	4249.5	4258.9	4261.6	4271.1	4265.7	4271.1	4268.3
30°	4447.1	4455.1	4465.9	4469.9	4476.7	4486.0	4486.0	4487.4	4480.7	4488.7	4492.7
32.5°	4680.8	4695.8	4706.5	4730.7	4742.7	4749.5	4748.1	4750.8	4744.1	4754.9	4762.9
35°	4990.1	5000.8	5018.3	5037.1	5053.2	5051.8	5047.8	5049.2	5049.2	5058.6	5066.7
37.5°	5362.3	5364.9	5387.8	5414.7	5422.7	5414.7	5390.6	5385.2	5373.1	5385.2	5398.6
40°	5756.1	5765.5	5811.2	5828.7	5832.7	5817.9	5783.0	5762.8	5735.9	5750.8	5769.6
42.5°	6168.7	6187.5	6229.2	6260.0	6273.4	6264.1	6215.8	6184.8	6149.8	6158.0	6176.8
45°	6625.6	6648.4	6707.5	6737.2	6762.7	6747.9	6700.9	6653.8	6598.7	6602.7	6632.4
47.5°	7136.3	7159.1	7235.8	7285.5	7298.9	7296.3	7243.8	7179.3	7104.0	7101.5	7126.9
50°	7708.8	7731.6	7827.2	7903.7	7942.7	7938.7	7876.8	7785.4	7694.0	7695.3	7727.7
52.5°	8267.8	8296.2	8395.6	8527.2	8603.8	8659.1	8621.3	8535.4	8423.8	8426.5	8456.0
55°	8792.0	8839.1	8953.4	9132.0	9274.5	9429.1	9473.5	9470.7	9403.5	9422.3	9451.9
57.5°	9046.0	9115.9	9292.0	9574.2	9864.5	10179.0	10445.0	10643.9	10728.6	10856.3	10826.7
60°	8565.0	8676.5	8935.9	9351.1	9925.0	10580.7	11283.6	11970.5	12556.4	12998.6	12744.5
62.5°	7012.7	7157.8	7472.2	8004.5	8872.6	9922.3	11267.6	12891.1	14659.7	15726.8	14964.7
65°	4388.0	4538.5	4858.3	5428.1	6444.2	7749.1	9574.2	12264.8	15569.6	17178.2	15627.3
67.5°	1710.8	1792.8	1966.2	2330.4	3093.7	4254.9	6086.8	9140.1	13092.6	14502.4	12849.3
70°	857.4	865.5	897.8	965.0	1128.8	1466.3	2231.0	4237.4	7508.7	9068.8	7238.4
72.5°	619.6	620.9	637.0	666.6	719.0	794.4	939.4	1296.9	2442.0	3732.1	2288.8
75°	474.4	479.7	489.2	505.4	533.5	571.2	623.6	747.3	926.0	1073.8	903.1
77.5°	365.6	376.3	383.1	397.8	415.3	440.9	455.6	502.6	584.6	615.5	606.1
80°	278.2	287.6	302.4	314.4	326.5	338.7	333.3	354.8	397.8	423.4	409.9
82.5°	177.4	188.2	231.2	241.9	247.3	255.3	246.0	247.3	266.0	282.2	266.0
85°	114.2	121.0	146.5	159.9	161.2	166.6	162.6	153.2	153.2	139.8	157.3
87.5°	52.5	53.7	65.9	77.9	80.7	72.5	71.2	68.5	55.0	52.5	56.5
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°	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9	3246.9
2.5°	3245.6	3248.3	3249.6	3253.6	3255.1	3255.1	3256.4	3259.1
5°	3271.1	3275.1	3276.4	3281.9	3283.2	3281.9	3284.6	3286.0
7.5°	3316.8	3323.5	3326.3	3331.7	3327.6	3333.0	3334.3	3334.3
10°	3384.1	3390.8	3392.1	3397.5	3394.8	3397.5	3397.5	3394.8
12.5°	3472.7	3474.1	3470.1	3474.1	3468.7	3471.3	3467.4	3464.7
15°	3570.8	3566.8	3557.4	3557.4	3549.3	3550.7	3549.3	3547.9
17.5°	3666.3	3658.2	3651.5	3648.8	3642.0	3640.7	3636.7	3636.7
20°	3771.1	3767.0	3763.0	3757.7	3751.0	3744.2	3742.9	3745.5
22.5°	3897.4	3896.0	3896.0	3893.4	3883.9	3877.3	3873.2	3873.2
25°	4066.7	4054.6	4054.6	4053.3	4049.2	4045.3	4037.2	4041.2
27.5°	4257.7	4250.8	4256.2	4254.9	4250.8	4250.8	4245.5	4245.5
30°	4492.7	4490.1	4498.2	4491.4	4478.0	4476.7	4471.3	4464.6
32.5°	4764.2	4761.5	4773.6	4765.6	4744.1	4732.0	4721.2	4715.8
35°	5066.7	5068.0	5082.7	5077.4	5053.2	5045.1	5026.4	5023.6
37.5°	5397.3	5418.7	5444.3	5449.7	5429.5	5424.1	5404.0	5393.2
40°	5785.6	5813.9	5852.8	5862.3	5840.8	5836.7	5808.4	5793.7
42.5°	6199.6	6248.0	6296.4	6304.4	6283.0	6261.4	6234.6	6223.7
45°	6661.9	6719.7	6782.9	6798.9	6766.8	6741.2	6706.3	6706.3
47.5°	7180.6	7253.1	7324.4	7368.8	7339.3	7312.4	7270.6	7243.8
50°	7793.5	7892.9	7985.6	8031.3	7984.3	7933.2	7860.6	7836.5
52.5°	8562.2	8669.7	8750.3	8726.2	8653.7	8582.5	8503.1	8470.9
55°	9543.2	9579.7	9579.7	9488.2	9343.1	9223.4	9098.4	9056.8
57.5°	10770.3	10630.5	10415.4	10142.6	9800.0	9501.6	9300.0	9204.6
60°	12212.4	11540.4	10781.0	10035.1	9422.3	8916.9	8617.3	8480.2
62.5°	13173.3	11415.4	9894.1	8696.6	7815.0	7206.2	6792.2	6631.0
65°	12311.8	9520.5	7483.0	6050.4	5089.6	4469.9	4060.1	3909.6
67.5°	9017.8	5965.8	3984.8	2855.8	2092.6	1669.2	1501.2	1431.3
70°	4047.9	2100.6	1287.5	1005.3	866.9	795.6	764.7	754.0
72.5°	1220.3	883.0	744.5	672.0	616.9	582.0	556.3	553.7
75°	736.5	612.8	544.3	501.3	466.3	438.1	424.7	420.6
77.5°	514.7	450.2	417.9	387.1	360.2	338.7	326.5	317.2
80°	361.5	330.6	315.9	298.4	280.9	260.7	243.2	235.2
82.5°	241.9	235.2	235.2	224.4	209.7	190.8	155.9	147.8
85°	155.9	154.6	157.3	153.2	142.5	122.3	100.8	95.4
87.5°	72.5	74.0	82.0	80.7	77.9	64.5	51.1	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)