

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: P191136

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41690.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

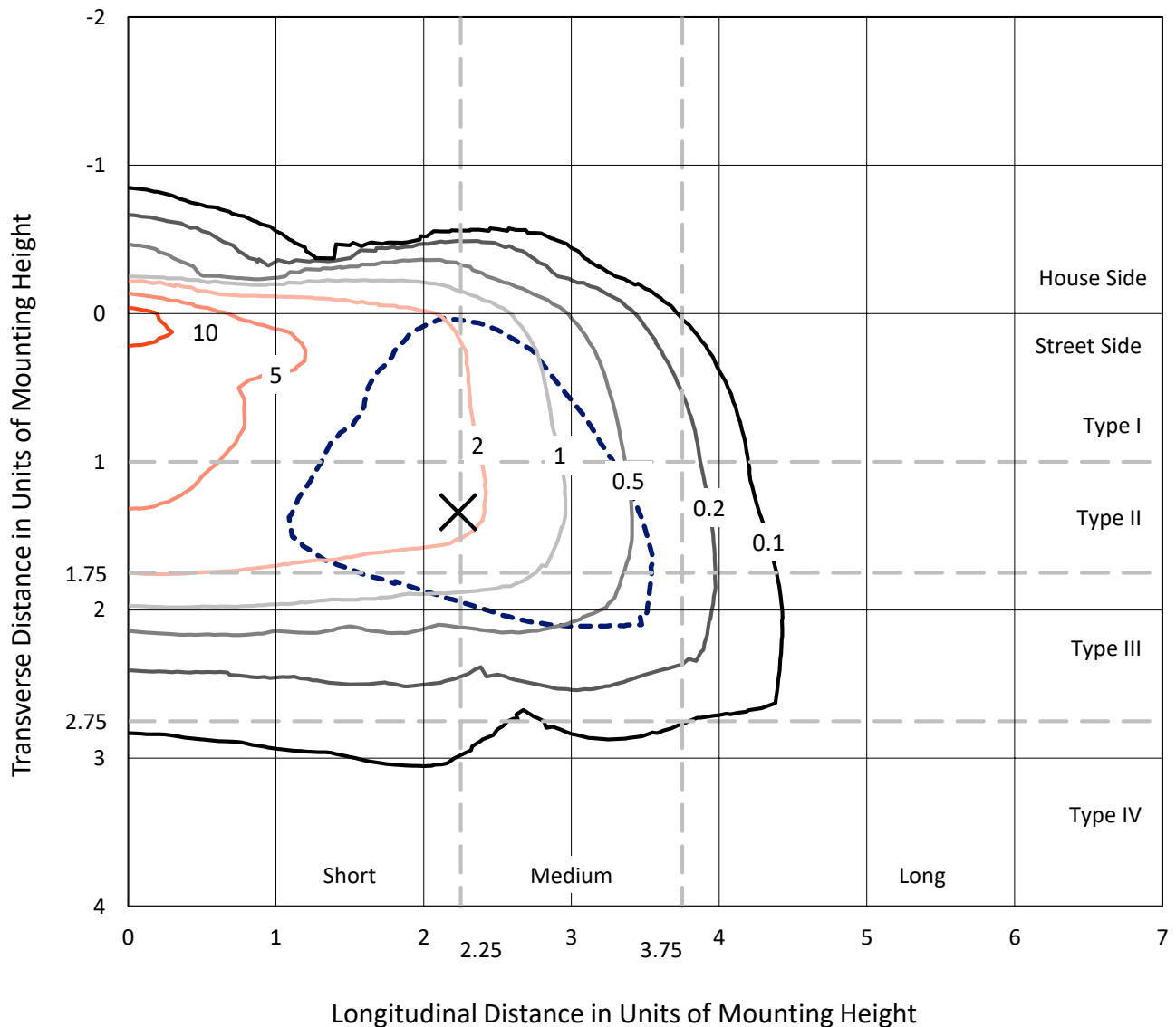
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

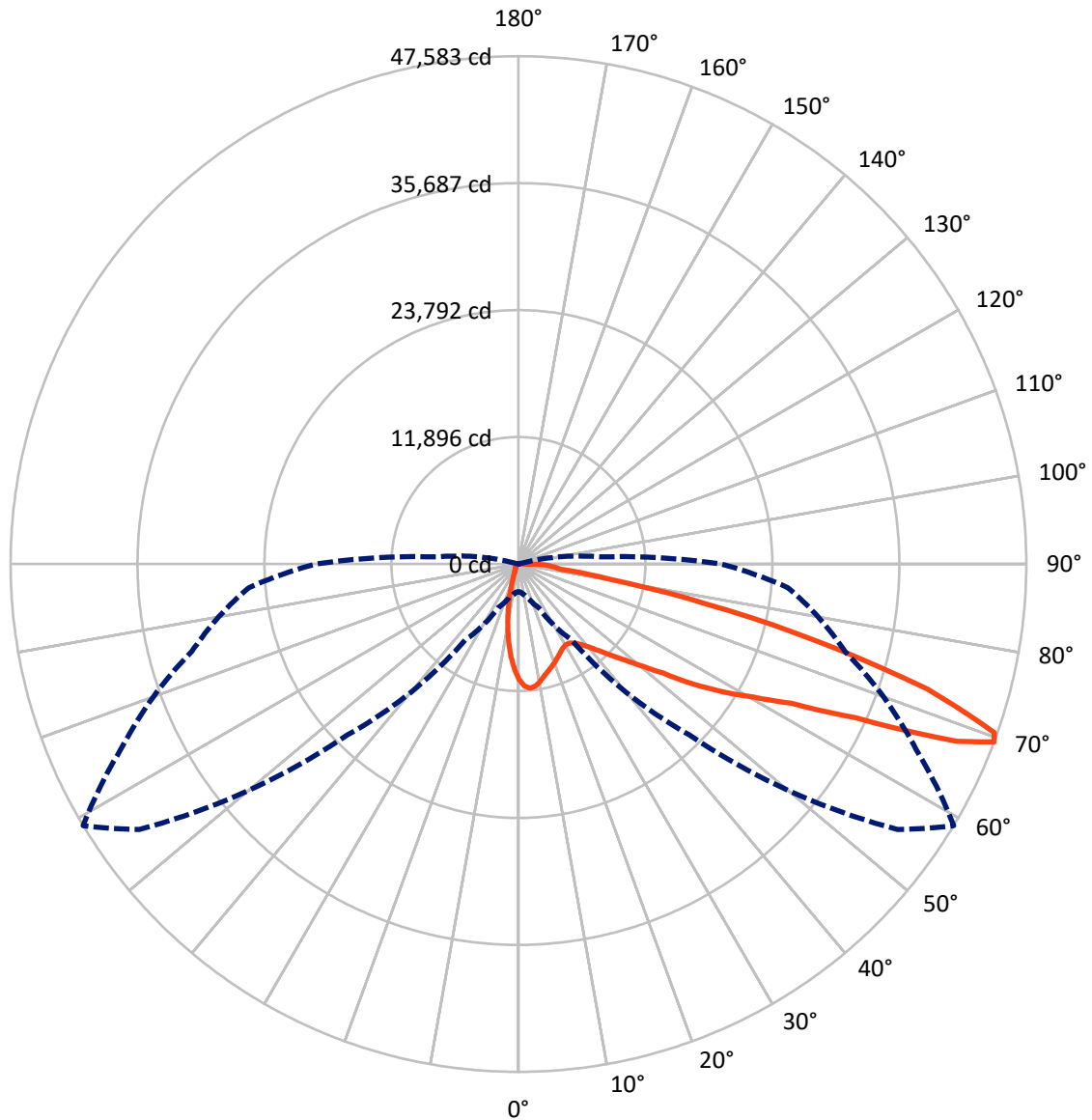


Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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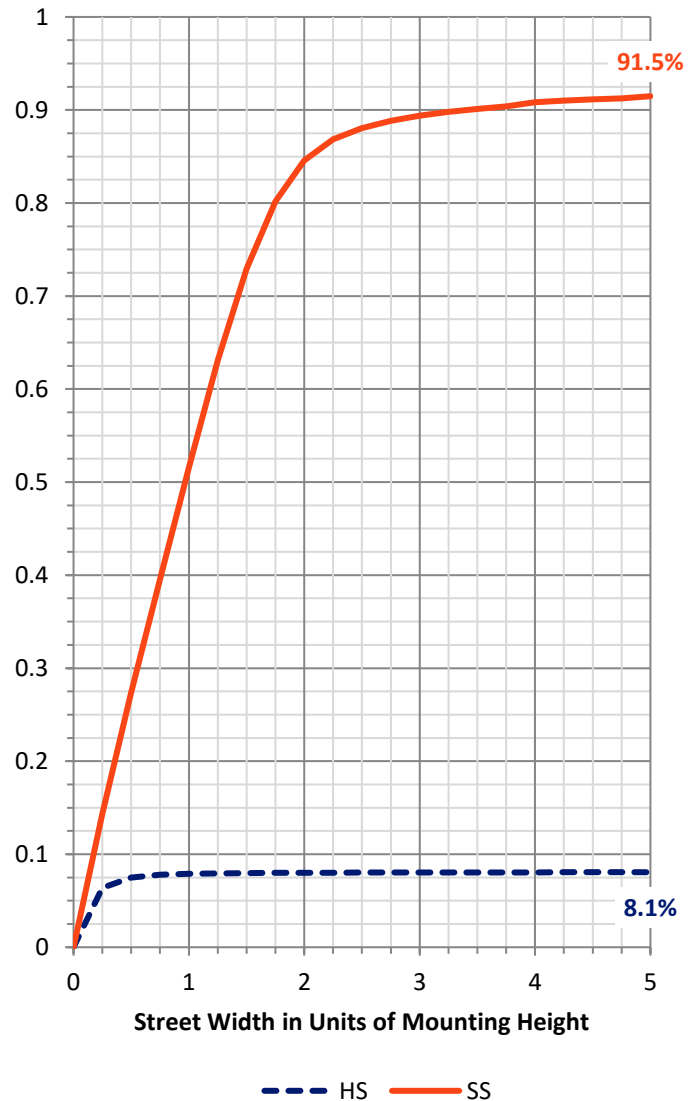
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3395.1	0.0	3395.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	38295.2	0.0	38295.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	41690.4	0.0	41690.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.8	2.1
10°-20°	1820.0	4.4
20°-30°	2449.1	5.9
30°-40°	3555.9	8.5
40°-50°	5920.8	14.2
50°-60°	9236.3	22.2
60°-70°	11429.2	27.4
70°-80°	5792.2	13.9
80°-90°	606.1	1.5
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°	41690.4	100.0
0°-180°	41690.4	100.0



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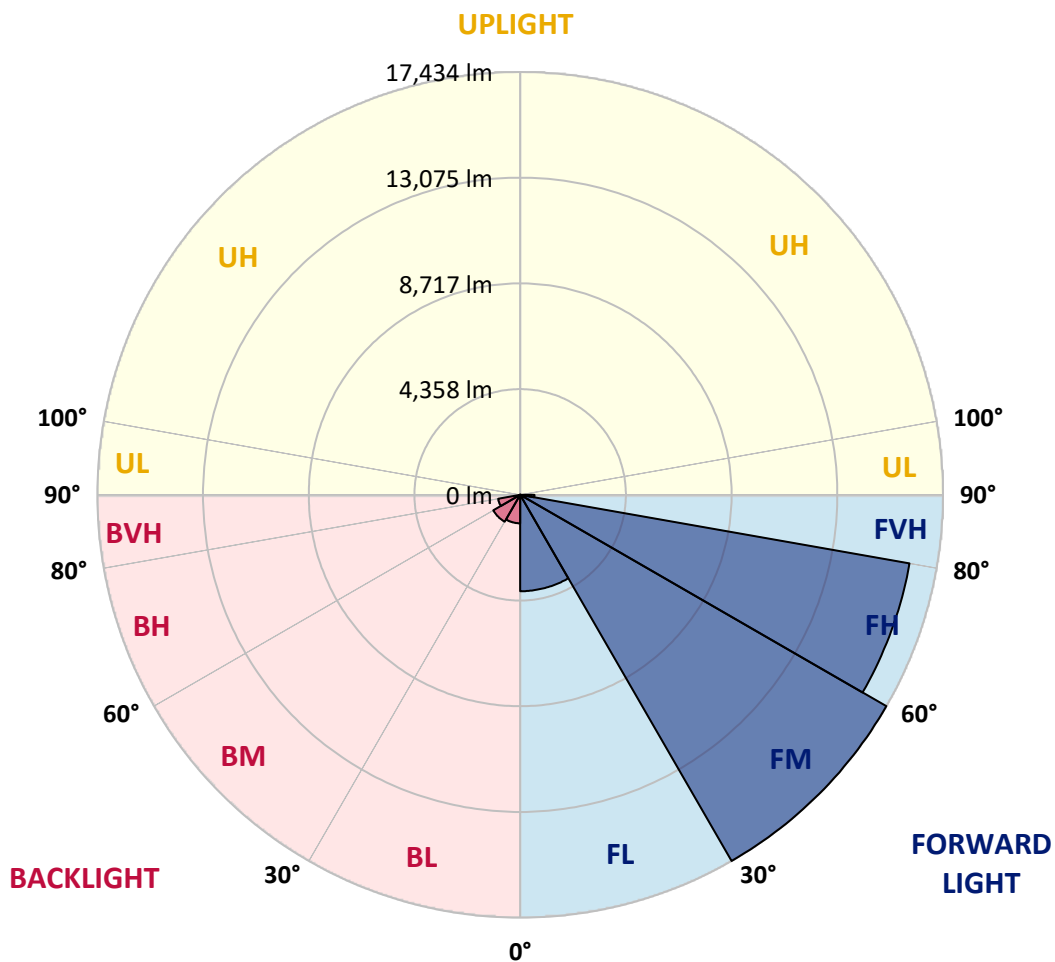
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3974.7	9.5			
FM	(30°-60°)	17433.7	41.8			
FH	(60°-80°)	16299.4	39.1			G5
FVH	(80°-90°)	587.4	1.4			G4/750
BL	(0°-30°)	1175.2	2.8	B3/2500		
BM	(30°-60°)	1279.3	3.1	B2/2500		
BH	(60°-80°)	922.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	18.7	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5
2.5°	11893.4	11888.7	11836.9	11813.2	11770.8	11681.3	11542.2	11469.1	11351.2	11146.1	10870.3
5°	11785.0	11841.6	11872.2	11874.5	11905.2	11872.2	11747.3	11686.0	11523.3	11193.2	10698.2
7.5°	11049.4	11070.7	11157.9	11233.3	11379.5	11518.6	11563.3	11537.5	11440.8	11087.2	10429.4
10°	10262.0	10283.3	10387.0	10486.1	10684.0	10898.6	11124.9	11172.1	11212.2	10936.3	10170.1
12.5°	9583.1	9604.3	9710.4	9840.1	10071.1	10335.2	10686.4	10764.2	10941.0	10792.4	9962.6
15°	8998.5	9007.9	9111.6	9271.9	9547.7	9887.2	10285.7	10410.6	10681.7	10691.2	9781.1
17.5°	8501.0	8524.6	8588.3	8741.5	9043.3	9462.9	9927.3	10106.4	10424.7	10606.3	9604.3
20°	8196.9	8220.5	8218.2	8303.0	8574.1	9022.0	9569.0	9783.5	10170.1	10519.0	9446.3
22.5°	8138.0	8138.0	8076.7	8064.9	8225.2	8600.0	9196.5	9458.2	9941.4	10481.3	9335.6
25°	8347.8	8338.4	8185.1	8060.1	8067.3	8291.2	8835.8	9147.0	9748.1	10507.2	9276.6
27.5°	8791.0	8779.2	8585.9	8347.8	8156.8	8154.5	8562.3	8897.1	9594.9	10629.8	9300.3
30°	9404.0	9399.2	9189.4	8890.1	8543.5	8225.2	8468.0	8772.1	9495.8	10851.5	9354.5
32.5°	10073.5	10066.3	9908.4	9592.5	9154.1	8543.5	8567.0	8821.6	9524.2	11146.1	9486.4
35°	10783.0	10771.3	10702.9	10427.0	9943.8	9130.4	8892.4	9090.4	9703.3	11587.0	9745.8
37.5°	11551.6	11563.3	11612.8	11348.8	10841.9	9953.2	9436.9	9571.3	10064.0	12185.8	10167.7
40°	12685.5	12683.2	12699.7	12353.2	11865.1	10959.9	10198.4	10240.9	10667.5	12980.2	10809.0
42.5°	14743.6	14599.8	14163.7	13456.4	12966.1	12110.3	11157.9	11113.1	11405.4	13963.3	11707.2
45°	17508.9	17202.5	16070.9	14715.4	14088.2	13406.9	12339.0	12195.2	12381.4	15144.4	12815.2
47.5°	19887.6	19569.4	17968.6	16026.1	15278.8	14637.5	13722.8	13463.5	13524.8	16467.0	14220.2
50°	20696.2	20540.6	19142.7	17167.1	16431.6	16186.4	15328.3	15012.3	14925.2	17996.9	15849.3
52.5°	20415.6	20403.9	19472.7	17907.4	17487.7	17789.4	17348.6	16983.2	16662.5	19609.5	17506.6
55°	19965.4	20024.4	19607.1	18555.6	18541.5	19253.5	20111.5	19807.4	18878.6	21361.1	18935.2
57.5°	18723.0	18975.2	19531.6	19781.5	20361.4	21089.9	22412.4	22591.7	21493.0	22702.4	20121.0
60°	15191.5	15745.6	17565.5	19958.3	22707.2	24522.4	25189.6	25342.8	23638.3	23817.5	21721.7
62.5°	10783.0	11348.8	13656.8	17704.6	22742.4	29032.3	29326.9	28725.8	26000.5	25470.0	24482.3
65°	5723.9	6160.1	8046.0	12779.8	19717.9	30078.9	36562.0	34770.3	30168.6	28721.0	28049.1
67.5°	2928.0	3060.0	3809.7	6254.3	13555.4	26717.2	43047.4	44308.6	37351.7	31946.0	27877.0
69°	2590.8	2668.7	3166.0	4521.6	8680.1	22629.3	43363.3	47583.2	41111.9	31677.3	25333.4
70°	2508.4	2576.7	3029.4	4092.5	6784.8	18977.6	42153.9	47295.5	42073.8	30654.2	23433.2
72.5°	2128.8	2187.7	2696.9	3616.3	5514.1	9420.5	34242.3	40077.0	37754.9	25536.1	16962.0
75°	1423.9	1617.2	2588.5	3390.1	5129.9	5351.5	22575.1	28961.5	26903.4	17223.6	8835.8
77.5°	341.9	367.8	730.8	2696.9	4691.4	4710.2	11610.5	18003.9	14684.7	6138.8	2088.8
80°	183.9	176.8	205.1	535.1	4368.4	4420.3	5226.5	8739.2	5243.0	1018.4	688.3
82.5°	129.7	122.5	132.1	223.9	1374.4	4026.5	3781.3	3955.9	2173.6	391.4	308.8
85°	47.2	44.8	73.0	202.7	431.4	2315.0	3885.1	3262.7	1761.0	179.1	226.3
87.5°	16.5	14.1	28.3	110.8	132.1	985.4	2397.6	2465.9	693.0	108.4	106.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5	10851.5
2.5°	10754.8	10608.6	10339.9	10064.0	9809.4	9502.9	9349.7	9198.9	9135.2	9111.6	9000.8
5°	10443.6	10196.1	9625.6	9052.7	8524.6	7963.6	7593.4	7296.4	7121.9	7037.1	6902.7
7.5°	10045.2	9639.7	8774.5	7890.4	7067.7	6256.7	5655.6	5193.5	4875.3	4722.0	4582.9
10°	9658.5	9118.7	7888.1	6683.4	5566.0	4491.0	3661.1	3060.0	2675.7	2499.0	2385.7
12.5°	9312.0	8611.8	7032.4	5507.1	4104.4	2845.4	2001.5	1523.0	1284.8	1202.3	1162.3
15°	9003.2	8145.0	6223.7	4389.6	2779.5	1626.7	1093.8	931.2	893.4	893.4	888.7
17.5°	8710.8	7687.7	5443.4	3340.5	1744.5	994.8	832.2	811.0	811.0	820.4	820.4
20°	8430.3	7251.6	4689.0	2397.6	1098.5	789.7	752.1	747.4	752.1	763.8	763.8
22.5°	8189.8	6855.5	3984.1	1645.5	815.7	712.0	693.0	686.0	688.3	695.4	700.2
25°	8010.6	6520.8	3319.3	1115.1	702.6	648.3	627.1	615.3	605.9	605.9	610.6
27.5°	7897.5	6237.9	2675.7	811.0	631.8	589.3	556.4	537.5	516.3	504.5	509.2
30°	7815.0	5969.1	2072.2	662.5	565.8	523.3	480.9	450.3	419.6	405.5	410.2
32.5°	7784.3	5752.3	1548.8	584.6	506.9	459.7	407.9	367.8	334.7	322.9	325.3
35°	7866.9	5580.1	1133.9	528.0	459.7	400.8	341.9	297.1	271.1	264.0	266.4
37.5°	8083.8	5488.2	848.6	480.9	417.3	351.3	285.3	242.8	226.3	226.3	228.6
40°	8494.0	5485.8	681.3	448.0	379.5	304.1	235.8	205.1	195.7	200.4	202.7
42.5°	9092.7	5610.8	594.1	417.3	346.6	259.3	195.7	174.4	172.1	176.8	179.1
45°	9910.8	5839.4	547.0	391.4	311.2	216.9	165.0	150.9	150.9	157.9	160.3
47.5°	10912.7	6174.2	506.9	365.4	275.8	181.6	141.5	132.1	134.4	141.5	143.8
50°	12119.7	6596.2	466.8	337.2	249.9	150.9	122.5	115.5	117.8	127.3	129.7
52.5°	13494.2	7164.3	433.7	311.2	216.9	124.9	103.7	99.0	103.7	113.1	115.5
55°	14672.9	7673.6	393.7	290.0	174.4	103.7	84.9	84.9	89.6	101.4	103.7
57.5°	15806.8	8206.3	358.3	249.9	136.8	82.6	70.7	73.0	80.2	92.0	94.3
60°	17471.2	9109.3	315.9	209.8	103.7	66.0	58.9	61.3	70.7	82.6	84.9
62.5°	20297.8	10483.6	273.4	174.4	80.2	51.9	47.2	51.9	63.6	77.8	80.2
65°	22848.6	11042.3	223.9	146.2	61.3	40.1	40.1	47.2	61.3	75.4	77.8
67.5°	21427.0	9295.5	174.4	115.5	47.2	30.7	33.0	44.8	58.9	75.4	77.8
69°	18949.3	7600.5	148.5	92.0	40.1	28.3	30.7	44.8	58.9	73.0	75.4
70°	17018.5	6417.1	132.1	77.8	35.4	28.3	30.7	42.5	58.9	73.0	75.4
72.5°	11398.3	3465.5	106.1	56.6	33.0	26.0	26.0	42.5	56.6	70.7	73.0
75°	4898.8	957.2	84.9	40.1	28.3	23.5	23.5	40.1	54.2	68.3	73.0
77.5°	895.8	242.8	68.3	35.4	28.3	23.5	21.2	37.7	51.9	66.0	68.3
80°	356.0	120.2	54.2	30.7	26.0	21.2	18.8	35.4	49.5	63.6	66.0
82.5°	214.5	68.3	44.8	28.3	26.0	18.8	16.5	30.7	47.2	61.3	63.6
85°	174.4	47.2	35.4	28.3	23.5	18.8	14.1	28.3	42.5	58.9	61.3
87.5°	84.9	33.0	33.0	26.0	23.5	18.8	14.1	26.0	40.1	56.6	58.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)