

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: P191126

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191126
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-SL3-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 33683.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): 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

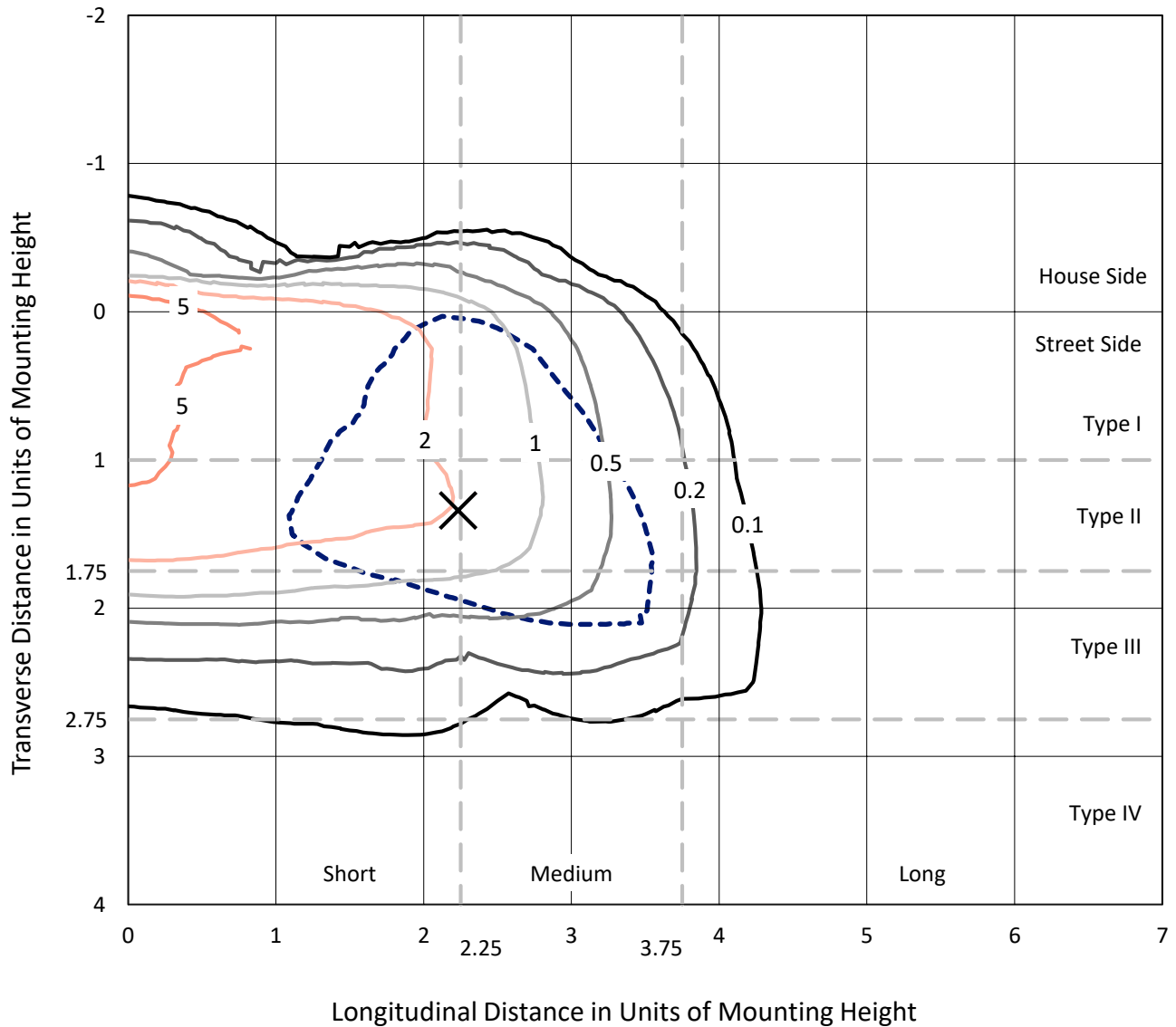


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Iso-Footcandle Lines of Horizontal Illumination

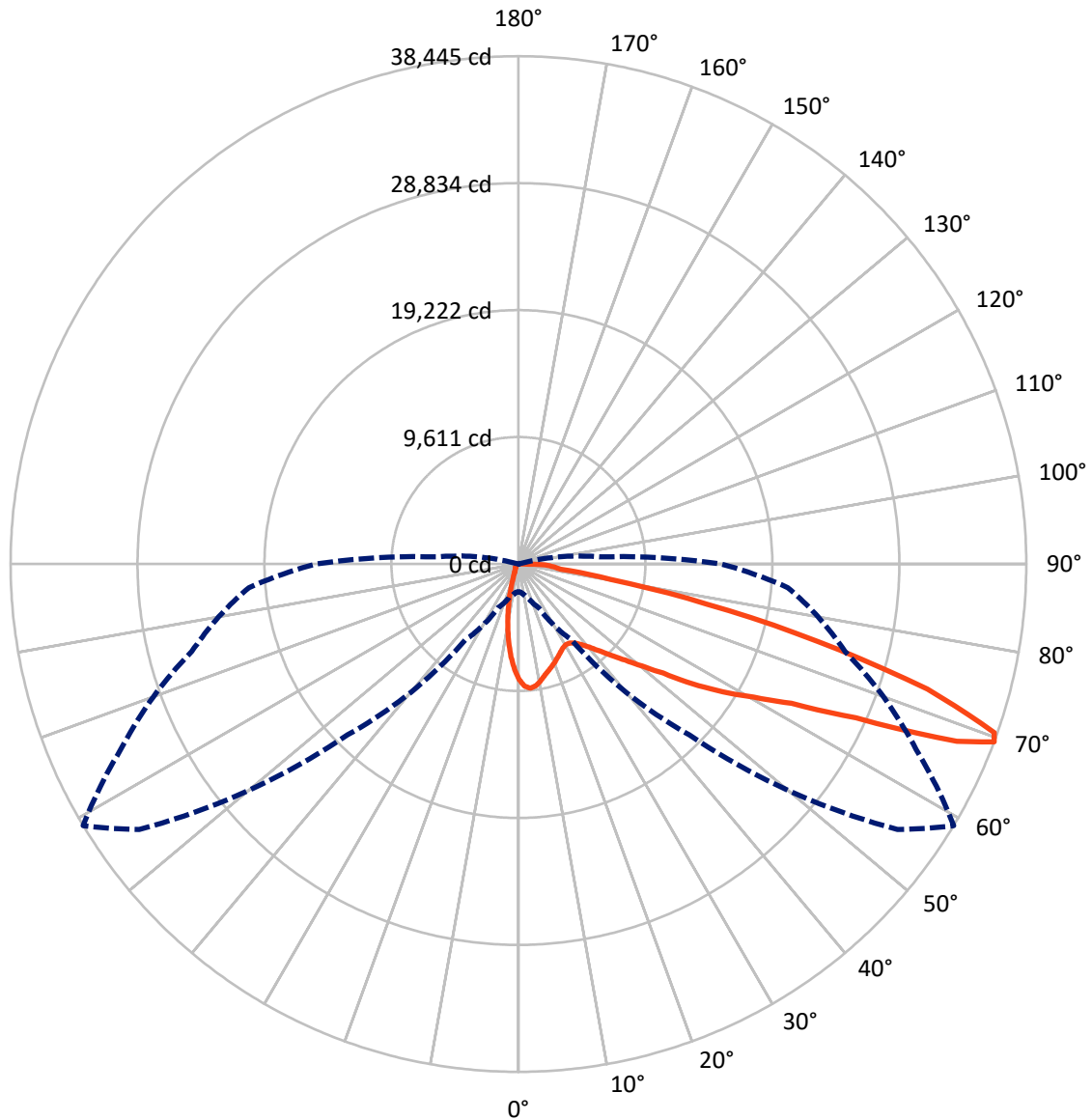
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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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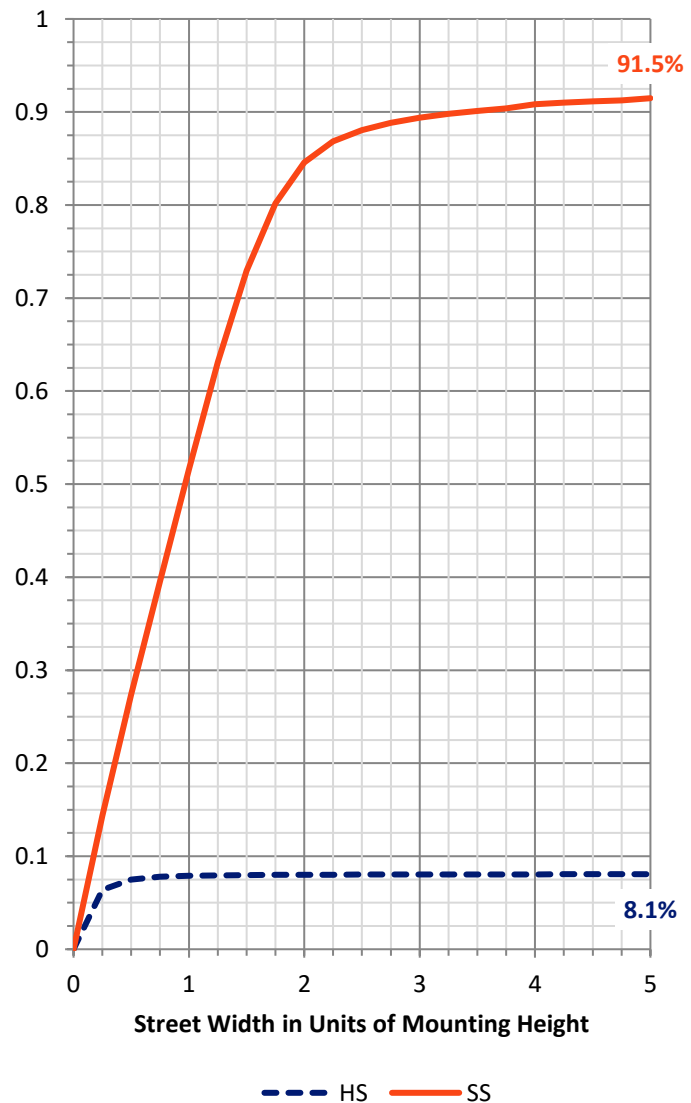
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.1	0.0	2743.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	30940.6	0.0	30940.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	33683.7	0.0	33683.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.7	2.1
10°-20°	1470.5	4.4
20°-30°	1978.7	5.9
30°-40°	2873.0	8.5
40°-50°	4783.7	14.2
50°-60°	7462.5	22.2
60°-70°	9234.3	27.4
70°-80°	4679.8	13.9
80°-90°	489.7	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°	33683.7	100.0
0°-180°	33683.7	100.0



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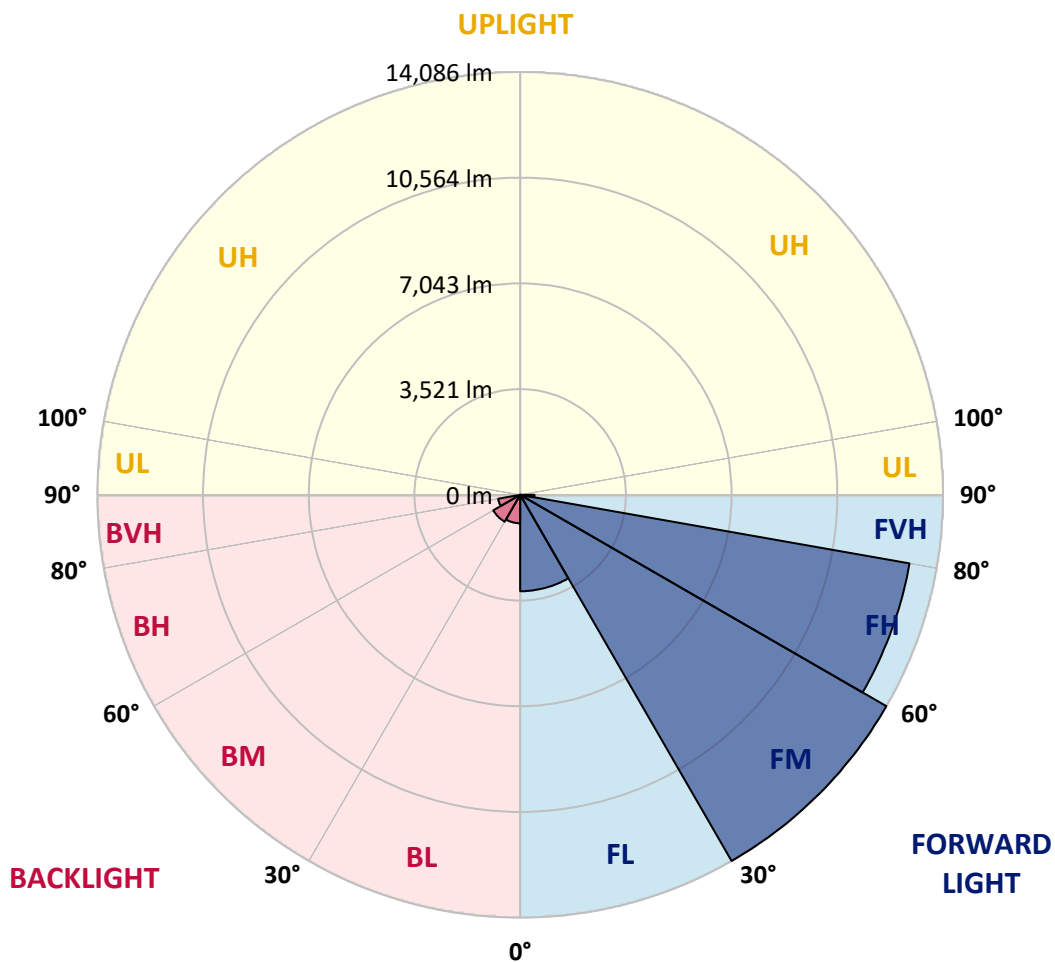
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3211.4	9.5			
FM	(30°-60°)	14085.5	41.8			
FH	(60°-80°)	13169.1	39.1			G5
FVH	(80°-90°)	474.6	1.4			G3/500
BL	(0°-30°)	949.5	2.8	B2/1000		
BM	(30°-60°)	1033.6	3.1	B2/2500		
BH	(60°-80°)	745.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	15.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4
2.5°	9609.3	9605.5	9563.6	9544.5	9510.3	9437.8	9325.5	9266.4	9171.2	9005.5	8782.6
5°	9521.6	9567.4	9592.1	9594.1	9618.8	9592.1	9491.2	9441.6	9310.3	9043.6	8643.6
7.5°	8927.4	8944.6	9015.1	9075.9	9194.1	9306.4	9342.6	9321.6	9243.6	8957.9	8426.5
10°	8291.2	8308.4	8392.2	8472.2	8632.2	8805.5	8988.4	9026.4	9058.8	8835.9	8217.0
12.5°	7742.7	7759.8	7845.5	7950.3	8137.0	8350.2	8634.1	8696.9	8839.8	8719.8	8049.3
15°	7270.3	7277.9	7361.8	7491.3	7714.1	7988.4	8310.2	8411.2	8630.2	8637.9	7902.7
17.5°	6868.4	6887.4	6938.9	7062.7	7306.5	7645.5	8020.8	8165.5	8422.7	8569.4	7759.8
20°	6622.7	6641.7	6639.9	6708.4	6927.4	7289.3	7731.3	7904.5	8217.0	8498.9	7632.2
22.5°	6575.1	6575.1	6525.6	6516.0	6645.6	6948.4	7430.3	7641.7	8032.2	8468.4	7542.6
25°	6744.6	6736.9	6613.2	6512.2	6517.9	6698.9	7138.9	7390.3	7876.0	8489.4	7495.1
27.5°	7102.7	7093.1	6936.9	6744.6	6590.4	6588.4	6917.9	7188.4	7752.2	8588.4	7514.1
30°	7597.9	7594.1	7424.6	7182.6	6902.7	6645.6	6841.7	7087.4	7672.2	8767.4	7557.9
32.5°	8138.8	8133.2	8005.5	7750.3	7396.0	6902.7	6921.7	7127.4	7695.0	9005.5	7664.6
35°	8712.2	8702.7	8647.4	8424.5	8034.1	7377.0	7184.6	7344.6	7839.8	9361.6	7874.1
37.5°	9333.1	9342.6	9382.6	9169.3	8759.8	8041.7	7624.6	7733.1	8131.2	9845.5	8215.0
40°	10249.3	10247.4	10260.7	9980.7	9586.5	8855.1	8239.8	8274.0	8618.9	10487.4	8733.1
42.5°	11912.1	11796.0	11443.5	10872.1	10475.9	9784.5	9015.1	8978.8	9215.0	11281.6	9458.8
45°	14146.3	13898.7	12984.4	11889.2	11382.6	10832.1	9969.3	9853.1	10003.5	12235.9	10354.0
47.5°	16068.2	15811.0	14517.7	12948.3	12344.5	11826.3	11087.4	10877.9	10927.4	13304.4	11489.3
50°	16721.5	16595.7	15466.3	13870.2	13275.9	13077.8	12384.5	12129.2	12058.7	14540.6	12805.4
52.5°	16494.9	16485.4	15733.0	14468.2	14129.2	14373.0	14016.8	13721.6	13462.5	15843.5	14144.4
55°	16131.0	16178.7	15841.5	14992.1	14980.6	15555.8	16249.2	16003.5	15253.0	17258.6	15298.6
57.5°	15127.3	15331.1	15780.6	15982.5	16451.0	17039.6	18108.2	18252.9	17365.3	18342.4	16256.7
60°	12274.0	12721.6	14192.0	16125.3	18346.2	19812.8	20351.9	20475.7	19098.6	19243.3	17550.1
62.5°	8712.2	9169.3	11034.1	14304.4	18374.8	23456.6	23694.7	23209.0	21007.1	20578.6	19780.5
65°	4624.7	4977.1	6500.8	10325.5	15931.0	24302.2	29540.3	28092.7	24374.7	23205.1	22662.4
67.5°	2365.7	2472.4	3078.1	5053.2	10952.1	21586.1	34780.1	35799.2	30178.3	25810.8	22523.2
69°	2093.3	2156.2	2558.0	3653.3	7013.1	18283.4	35035.3	38444.7	33216.3	25593.7	20468.1
70°	2026.6	2081.8	2447.5	3306.6	5481.8	15333.0	34058.2	38212.4	33993.5	24767.1	18932.9
72.5°	1720.0	1767.6	2179.0	2921.9	4455.2	7611.3	27666.0	32380.2	30504.0	20631.9	13704.5
75°	1150.4	1306.6	2091.4	2739.0	4144.7	4323.7	18239.5	23399.4	21736.6	13915.8	7138.9
77.5°	276.2	297.2	590.4	2179.0	3790.3	3805.6	9380.8	14546.4	11864.5	4959.9	1687.6
80°	148.5	142.8	165.7	432.4	3529.5	3571.3	4222.7	7060.8	4236.0	822.9	556.2
82.5°	104.8	99.0	106.7	181.0	1110.4	3253.3	3055.1	3196.1	1756.1	316.2	249.5
85°	38.1	36.2	59.0	163.8	348.5	1870.5	3138.9	2636.1	1422.8	144.7	182.9
87.5°	13.3	11.5	22.8	89.5	106.7	796.2	1937.1	1992.3	560.0	87.7	85.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4	8767.4
2.5°	8689.4	8571.2	8354.1	8131.2	7925.5	7677.9	7554.1	7432.2	7380.8	7361.8	7272.2
5°	8437.9	8237.9	7777.0	7314.1	6887.4	6434.2	6135.0	5895.1	5754.1	5685.6	5577.0
7.5°	8116.0	7788.3	7089.4	6375.1	5710.3	5055.1	4569.4	4196.0	3939.0	3815.1	3702.8
10°	7803.6	7367.4	6373.2	5399.9	4497.0	3628.5	2958.1	2472.4	2161.8	2019.0	1927.5
12.5°	7523.6	6957.9	5681.8	4449.4	3316.1	2299.0	1617.1	1230.4	1038.1	971.4	939.1
15°	7274.1	6580.7	5028.4	3546.6	2245.7	1314.3	883.8	752.4	721.9	721.9	718.1
17.5°	7037.9	6211.3	4398.0	2699.0	1409.5	803.8	672.4	655.2	655.2	662.9	662.9
20°	6811.2	5859.0	3788.5	1937.1	887.6	638.1	607.6	603.7	607.6	617.1	617.1
22.5°	6617.0	5538.9	3218.9	1329.5	659.0	575.2	560.0	554.2	556.2	561.9	565.7
25°	6472.2	5268.4	2681.9	900.9	567.6	523.8	506.7	497.2	489.5	489.5	493.4
27.5°	6380.8	5039.9	2161.8	655.2	510.5	476.2	449.5	434.2	417.2	407.6	411.4
30°	6314.2	4822.7	1674.3	535.2	457.2	422.9	388.5	363.8	339.0	327.7	331.4
32.5°	6289.4	4647.5	1251.4	472.4	409.5	371.4	329.5	297.2	270.5	261.0	262.9
35°	6356.0	4508.5	916.2	426.7	371.4	323.8	276.2	240.0	219.0	213.3	215.2
37.5°	6531.2	4434.2	685.7	388.5	337.2	283.8	230.5	196.2	182.9	182.9	184.7
40°	6862.7	4432.2	550.4	361.9	306.7	245.7	190.5	165.7	158.0	161.9	163.8
42.5°	7346.5	4533.2	480.0	337.2	280.0	209.5	158.0	141.0	139.0	142.8	144.7
45°	8007.5	4718.0	441.9	316.2	251.4	175.2	133.3	121.9	121.9	127.7	129.5
47.5°	8816.9	4988.4	409.5	295.2	222.9	146.7	114.3	106.7	108.5	114.3	116.2
50°	9792.1	5329.4	377.2	272.4	201.9	121.9	99.0	93.3	95.2	102.8	104.8
52.5°	10902.6	5788.5	350.5	251.4	175.2	101.0	83.8	80.0	83.8	91.5	93.3
55°	11855.0	6199.9	318.1	234.3	141.0	83.8	68.5	68.5	72.4	81.9	83.8
57.5°	12771.1	6630.4	289.5	201.9	110.5	66.7	57.2	59.0	64.8	74.3	76.2
60°	14115.8	7359.8	255.2	169.5	83.8	53.3	47.6	49.5	57.2	66.7	68.5
62.5°	16399.6	8470.2	221.0	141.0	64.8	41.9	38.1	41.9	51.5	62.8	64.8
65°	18460.5	8921.7	181.0	118.0	49.5	32.4	32.4	38.1	49.5	61.0	62.8
67.5°	17312.0	7510.3	141.0	93.3	38.1	24.8	26.7	36.2	47.6	61.0	62.8
69°	15310.1	6140.8	120.0	74.3	32.4	22.8	24.8	36.2	47.6	59.0	61.0
70°	13750.1	5184.6	106.7	62.8	28.5	22.8	24.8	34.3	47.6	59.0	61.0
72.5°	9209.3	2799.9	85.7	45.7	26.7	21.0	21.0	34.3	45.7	57.2	59.0
75°	3958.0	773.4	68.5	32.4	22.8	19.0	19.0	32.4	43.8	55.2	59.0
77.5°	723.8	196.2	55.2	28.5	22.8	19.0	17.2	30.5	41.9	53.3	55.2
80°	287.7	97.2	43.8	24.8	21.0	17.2	15.2	28.5	40.0	51.5	53.3
82.5°	173.3	55.2	36.2	22.8	21.0	15.2	13.3	24.8	38.1	49.5	51.5
85°	141.0	38.1	28.5	22.8	19.0	15.2	11.5	22.8	34.3	47.6	49.5
87.5°	68.5	26.7	26.7	21.0	19.0	15.2	11.5	21.0	32.4	45.7	47.6
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)