

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: P191216

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39606.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

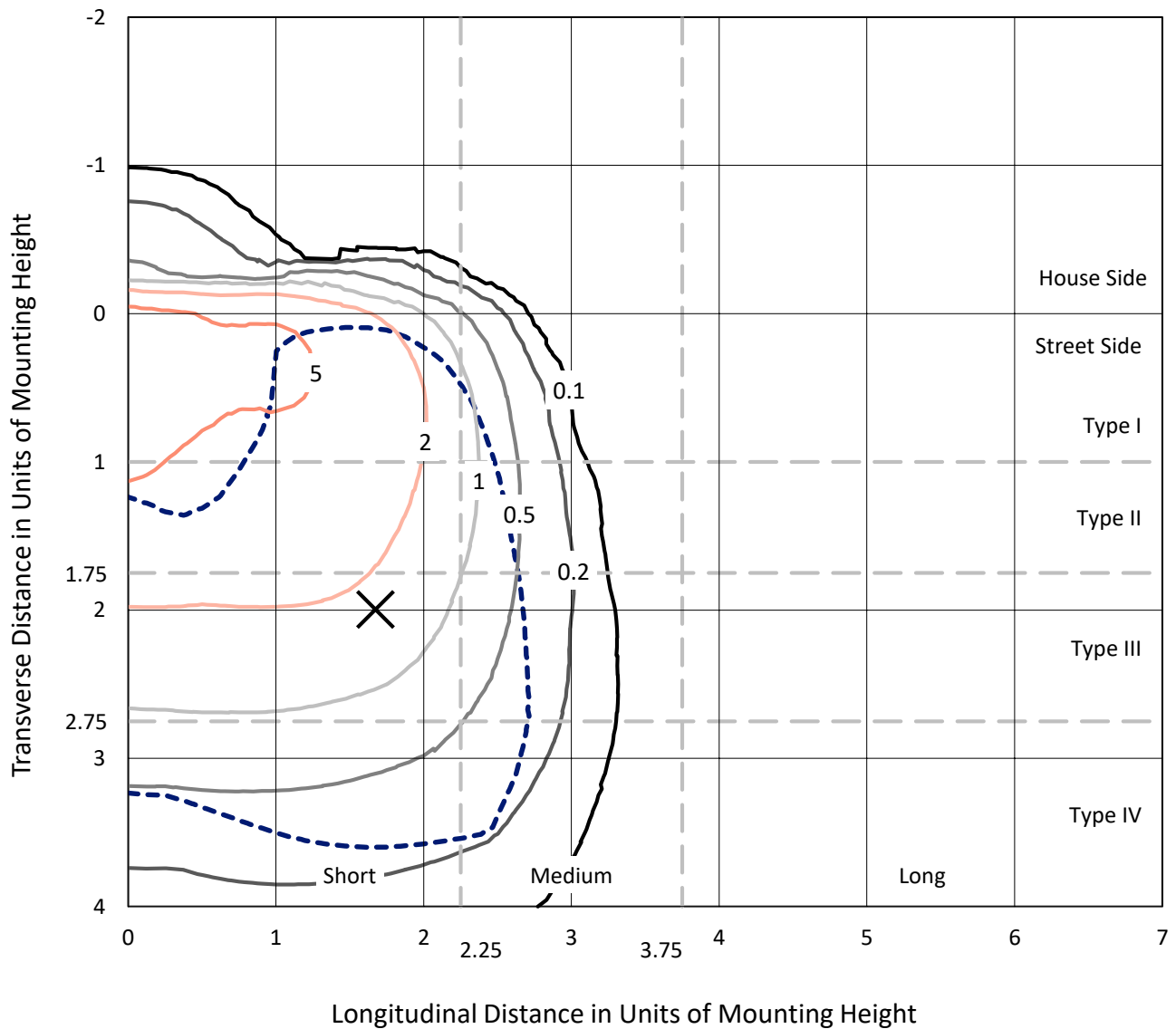
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

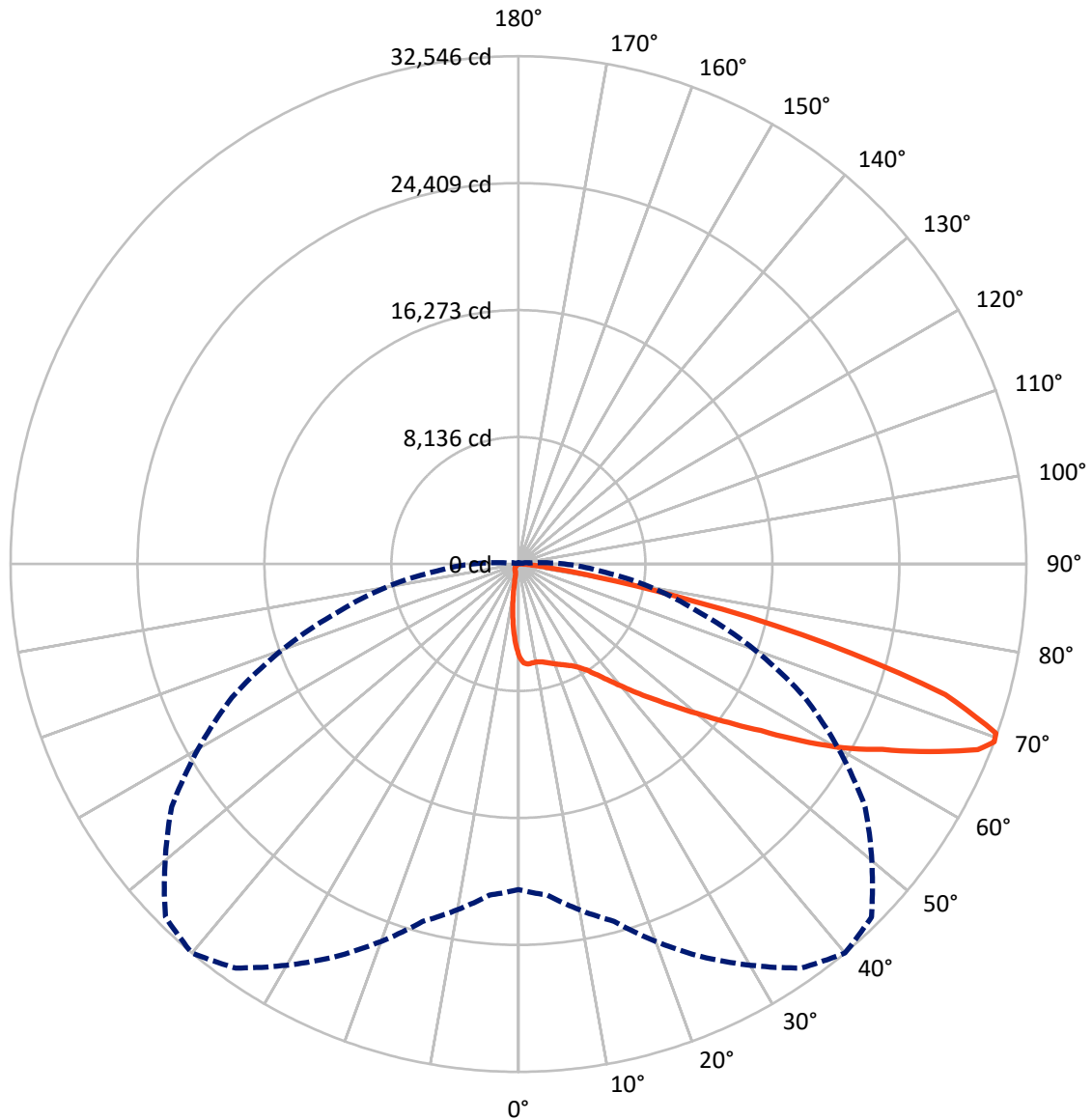


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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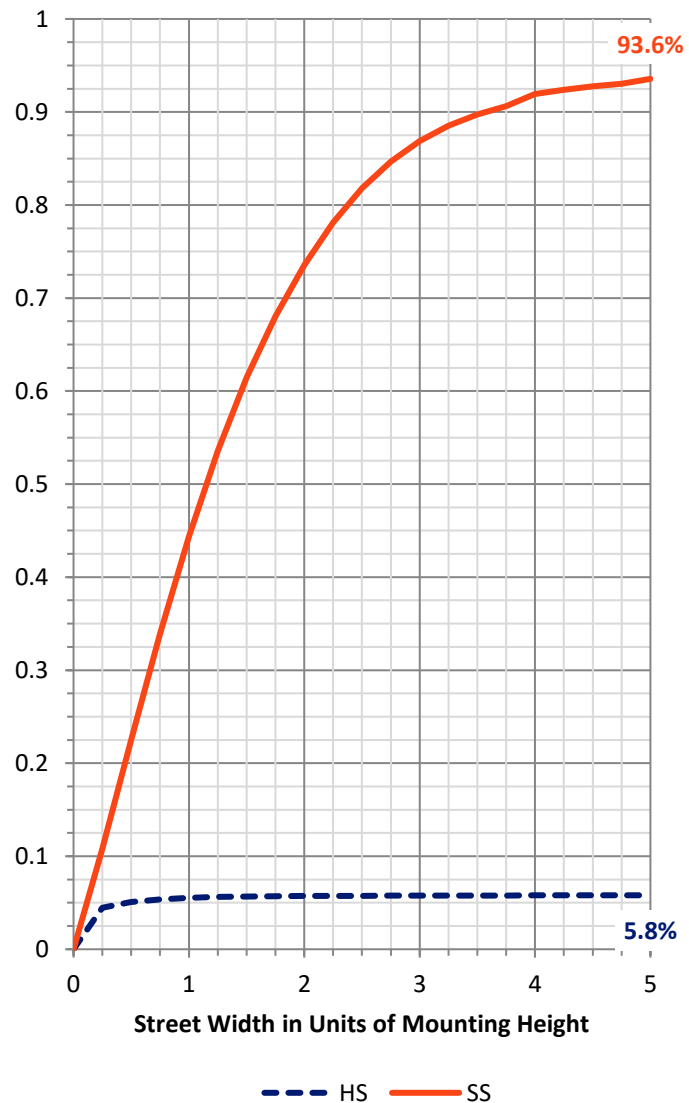
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2317.2	0.0	2317.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	37289.4	0.0	37289.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	39606.6	0.0	39606.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.8	1.2
10°-20°	1179.9	3.0
20°-30°	1987.3	5.0
30°-40°	3253.3	8.2
40°-50°	5633.0	14.2
50°-60°	8872.6	22.4
60°-70°	11587.2	29.3
70°-80°	5967.9	15.1
80°-90°	645.6	1.6
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°	39606.6	100.0
0°-180°	39606.6	100.0



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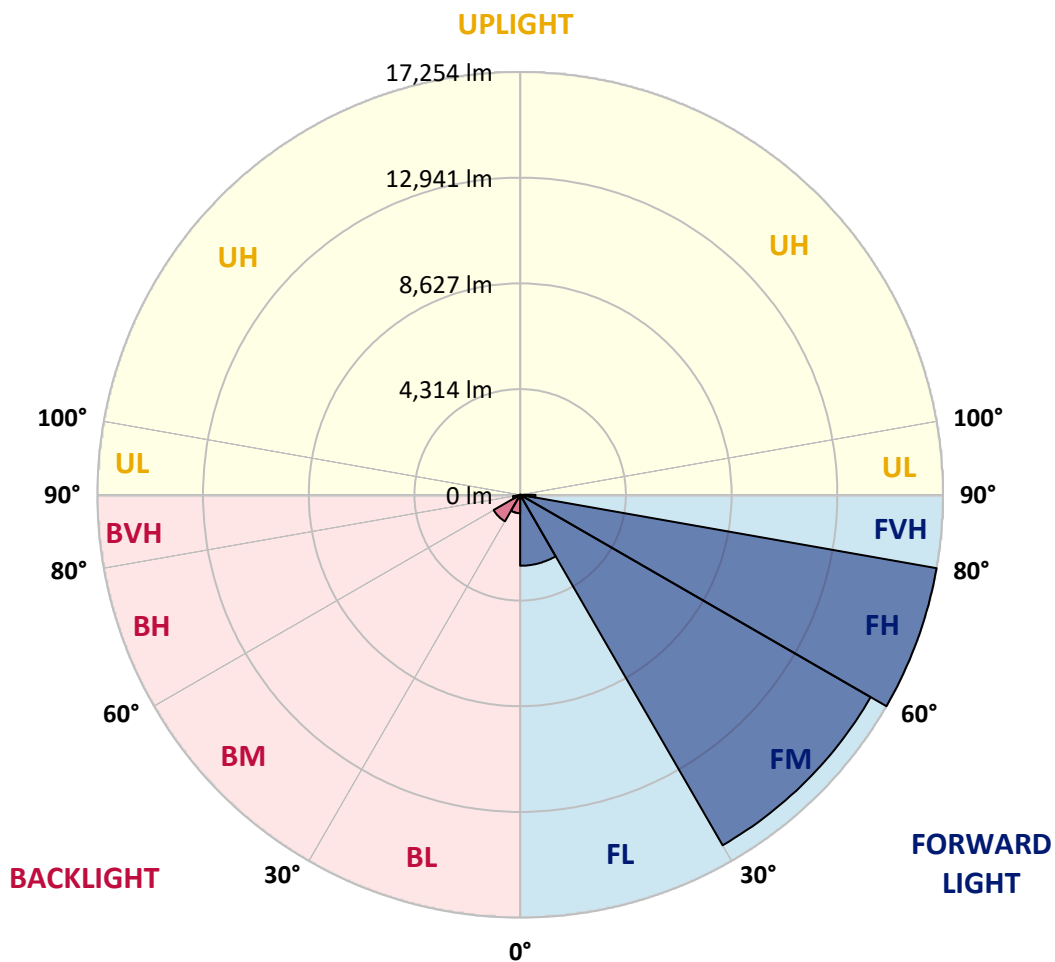
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2896.4	7.3			
FM	(30°-60°)	16513.5	41.7			
FH	(60°-80°)	17254.3	43.6			G5
FVH	(80°-90°)	625.3	1.6			G4/750
BL	(0°-30°)	750.6	1.9	B2/1000		
BM	(30°-60°)	1245.4	3.1	B2/2500		
BH	(60°-80°)	300.9	0.8	B1/500		G1/500
BVH	(80°-90°)	20.3	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5
2.5°	6497.4	6462.0	6440.8	6412.5	6377.2	6346.5	6334.7	6247.5	6165.0	6051.8	5922.2
5°	6617.6	6605.8	6568.2	6530.4	6488.0	6440.8	6414.8	6311.1	6193.3	6028.2	5801.9
7.5°	6629.4	6615.2	6568.2	6516.2	6457.3	6400.7	6355.9	6252.2	6143.7	5976.4	5700.5
10°	6610.5	6594.0	6558.6	6502.1	6429.0	6374.8	6330.0	6231.0	6139.0	5988.1	5681.7
12.5°	6589.3	6572.9	6556.3	6528.1	6464.3	6426.7	6388.9	6294.6	6212.1	6084.8	5750.0
15°	6610.5	6601.1	6620.0	6608.2	6572.9	6539.8	6502.1	6417.3	6341.8	6235.7	5875.0
17.5°	6700.1	6700.1	6759.0	6766.1	6733.2	6686.0	6631.8	6546.9	6483.3	6393.6	6023.5
20°	6909.9	6902.9	6978.4	6992.5	6912.3	6839.2	6759.0	6655.3	6605.8	6549.2	6169.7
22.5°	7270.6	7237.7	7282.5	7268.3	7110.3	6997.2	6898.2	6770.9	6744.9	6718.9	6332.4
25°	7739.9	7720.9	7751.6	7612.5	7334.4	7181.1	7063.2	6919.3	6919.3	6945.3	6516.2
27.5°	8421.1	8350.4	8246.7	8001.5	7584.3	7388.6	7261.2	7108.0	7148.1	7244.7	6759.0
30°	9119.0	9041.1	8803.1	8425.8	7888.4	7683.3	7534.7	7374.4	7468.7	7645.5	7084.4
32.5°	9807.3	9720.2	9383.0	8906.8	8324.5	8119.4	7975.5	7798.8	7956.7	8253.8	7560.6
35°	10474.6	10396.8	10007.7	9446.6	8904.5	8734.7	8602.7	8449.5	8652.2	9067.1	8232.5
37.5°	11224.2	11139.4	10665.5	10057.2	9609.3	9486.7	9390.1	9236.8	9590.5	10198.7	9168.5
40°	12146.1	12002.3	11363.3	10757.5	10425.1	10366.1	10300.1	10278.9	10828.2	11669.8	10415.6
42.5°	13202.2	12966.5	12094.1	11495.4	11320.9	11363.3	11346.9	11441.2	12377.1	13499.3	11933.8
45°	14258.4	13954.3	12907.6	12282.8	12306.4	12454.9	12546.8	12924.1	14317.3	15597.5	13567.7
47.5°	15154.3	14854.9	13687.9	13133.9	13416.8	13709.1	13959.0	14673.3	16311.9	17662.7	14838.4
50°	15920.5	15637.5	14515.4	14069.8	14706.4	15177.8	15583.3	16641.9	18457.2	19235.2	15729.5
52.5°	16547.6	16359.0	15373.5	15142.5	16179.8	16870.6	17464.6	18733.0	20357.3	20512.9	16422.7
55°	17158.2	17023.8	16295.3	16418.0	17910.2	18850.9	19603.0	20951.5	21993.5	21578.5	17087.5
57.5°	17860.7	17738.2	17346.8	18035.2	20185.3	21368.7	22189.2	22917.7	23434.0	22667.8	17714.5
60°	18577.4	18506.7	18516.1	19831.6	22797.5	23933.8	24386.4	24575.1	24848.5	23693.3	17749.9
62.5°	19261.1	19395.5	19852.8	21830.8	25298.8	26171.1	26399.8	26586.0	26265.4	23855.9	16399.0
65°	20418.7	20637.9	21729.4	24506.6	28050.0	28983.7	29219.4	28580.5	26489.3	21753.0	13339.0
67.5°	20984.5	21385.3	23332.6	27000.9	30718.8	31756.1	31668.8	28710.1	23771.1	16587.7	8560.3
69°	20866.6	21293.3	23702.7	27764.7	31605.2	32545.9	31991.9	27123.5	20251.3	12016.4	5255.0
70°	20399.8	20831.3	23511.8	27736.5	31718.3	32463.3	31393.0	25164.4	17122.9	8786.5	3286.4
72.5°	17035.6	17408.1	20873.7	25070.1	29219.4	28613.5	26263.0	17434.0	8343.4	2392.9	740.3
75°	10486.4	10693.8	14977.4	18886.2	22068.9	20512.9	17497.7	8673.4	2487.2	676.6	410.2
77.5°	5540.2	5634.5	8199.6	11132.4	13989.7	11575.5	8968.1	3383.1	1145.8	424.3	297.1
80°	3274.7	3345.4	4415.7	5089.9	6054.1	5057.0	3585.9	2077.0	820.4	266.4	264.0
82.5°	1874.3	1919.1	3201.5	2829.1	2385.8	2036.9	1784.6	1968.6	492.8	179.2	273.4
85°	688.4	697.9	1801.2	2152.4	1419.2	844.0	886.4	1631.4	132.1	113.1	214.5
87.5°	320.6	313.5	926.5	1317.9	829.8	535.2	690.8	358.3	51.9	73.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5	5917.5
2.5°	5846.7	5759.5	5601.5	5438.8	5273.8	5146.5	5021.6	4922.5	4889.5	4828.2	4832.9
5°	5667.6	5507.3	5177.2	4842.3	4493.5	4205.9	3934.8	3715.5	3609.4	3500.9	3500.9
7.5°	5512.0	5278.5	4762.2	4217.6	3654.2	3180.4	2753.6	2433.0	2256.1	2114.7	2112.4
10°	5453.0	5137.1	4415.7	3635.4	2850.2	2204.3	1697.4	1372.1	1204.7	1096.3	1091.6
12.5°	5478.9	5087.5	4149.3	3097.8	2112.4	1416.9	983.1	773.2	702.6	669.5	669.5
15°	5554.4	5073.4	3882.9	2572.1	1492.3	886.4	653.1	596.5	591.8	591.8	591.8
17.5°	5646.3	5078.1	3609.4	2060.5	1016.1	634.2	563.4	556.4	561.1	561.1	561.1
20°	5740.6	5080.5	3314.7	1586.6	716.7	551.7	530.4	528.0	532.9	532.9	535.2
22.5°	5856.1	5092.2	3020.1	1185.8	591.8	521.0	504.5	504.5	506.9	506.9	504.5
25°	5988.1	5115.9	2713.6	879.3	539.9	499.8	485.7	483.3	485.7	483.3	480.9
27.5°	6153.2	5148.9	2371.7	688.4	516.3	478.5	466.8	466.8	464.4	462.1	459.7
30°	6360.6	5186.6	1987.4	584.7	492.8	459.7	448.0	445.6	443.2	438.5	438.5
32.5°	6676.6	5269.1	1607.9	530.4	466.8	433.8	424.3	424.3	419.6	414.9	412.6
35°	7162.2	5431.8	1268.4	497.5	438.5	405.5	393.7	393.7	389.0	386.7	384.3
37.5°	7834.1	5679.3	985.4	466.8	410.2	374.8	363.0	360.7	356.0	351.3	348.9
40°	8727.6	5985.8	775.6	438.5	382.0	344.2	334.8	330.1	320.6	313.5	313.5
42.5°	9849.8	6334.7	629.4	407.9	348.9	315.9	308.8	301.8	285.3	278.1	275.8
45°	11023.8	6648.3	532.9	372.5	315.9	287.7	282.9	271.1	249.9	242.8	242.8
47.5°	11870.2	6721.4	469.1	339.5	285.3	257.0	254.6	233.4	214.5	209.8	207.5
50°	12398.3	6577.6	417.3	306.5	257.0	228.7	221.6	195.7	183.9	179.2	176.8
52.5°	12754.3	6320.6	374.8	278.1	231.1	202.7	186.3	167.4	157.9	153.2	153.2
55°	13039.6	5957.5	332.5	252.3	209.8	181.6	157.9	143.8	134.4	129.7	129.7
57.5°	13119.8	5464.8	290.0	231.1	188.6	160.3	134.4	124.9	113.1	110.8	110.8
60°	12537.4	4576.0	257.0	205.1	169.7	139.1	117.8	106.1	94.3	92.0	89.6
62.5°	11002.7	3541.0	226.3	181.6	148.5	120.2	101.4	87.3	77.8	77.8	77.8
65°	8392.8	2374.1	198.0	157.9	129.7	101.4	87.3	70.7	66.0	66.0	68.3
67.5°	5023.9	1291.9	169.7	134.4	110.8	84.9	73.0	61.3	58.9	61.3	61.3
69°	2944.6	759.1	153.2	120.2	96.7	75.4	63.6	54.2	58.9	61.3	61.3
70°	1817.7	511.6	141.5	108.4	87.3	68.3	58.9	51.9	56.6	58.9	58.9
72.5°	506.9	264.0	113.1	84.9	70.7	56.6	47.2	47.2	54.2	56.6	56.6
75°	330.1	195.7	87.3	63.6	54.2	44.8	40.1	44.8	51.9	54.2	54.2
77.5°	273.4	160.3	70.7	51.9	44.8	42.5	37.7	40.1	47.2	49.5	49.5
80°	249.9	113.1	56.6	47.2	40.1	37.7	35.4	33.0	42.5	44.8	44.8
82.5°	238.1	89.6	49.5	42.5	37.7	33.0	30.7	33.0	37.7	40.1	42.5
85°	148.5	58.9	44.8	40.1	33.0	30.7	30.7	30.7	35.4	37.7	37.7
87.5°	54.2	47.2	40.1	33.0	28.3	28.3	28.3	28.3	30.7	35.4	35.4
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)