

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: P269567

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269567
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-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA 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: 36901.7 lumens
Efficiency: N/A
Efficacy: 72.2 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): 511
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

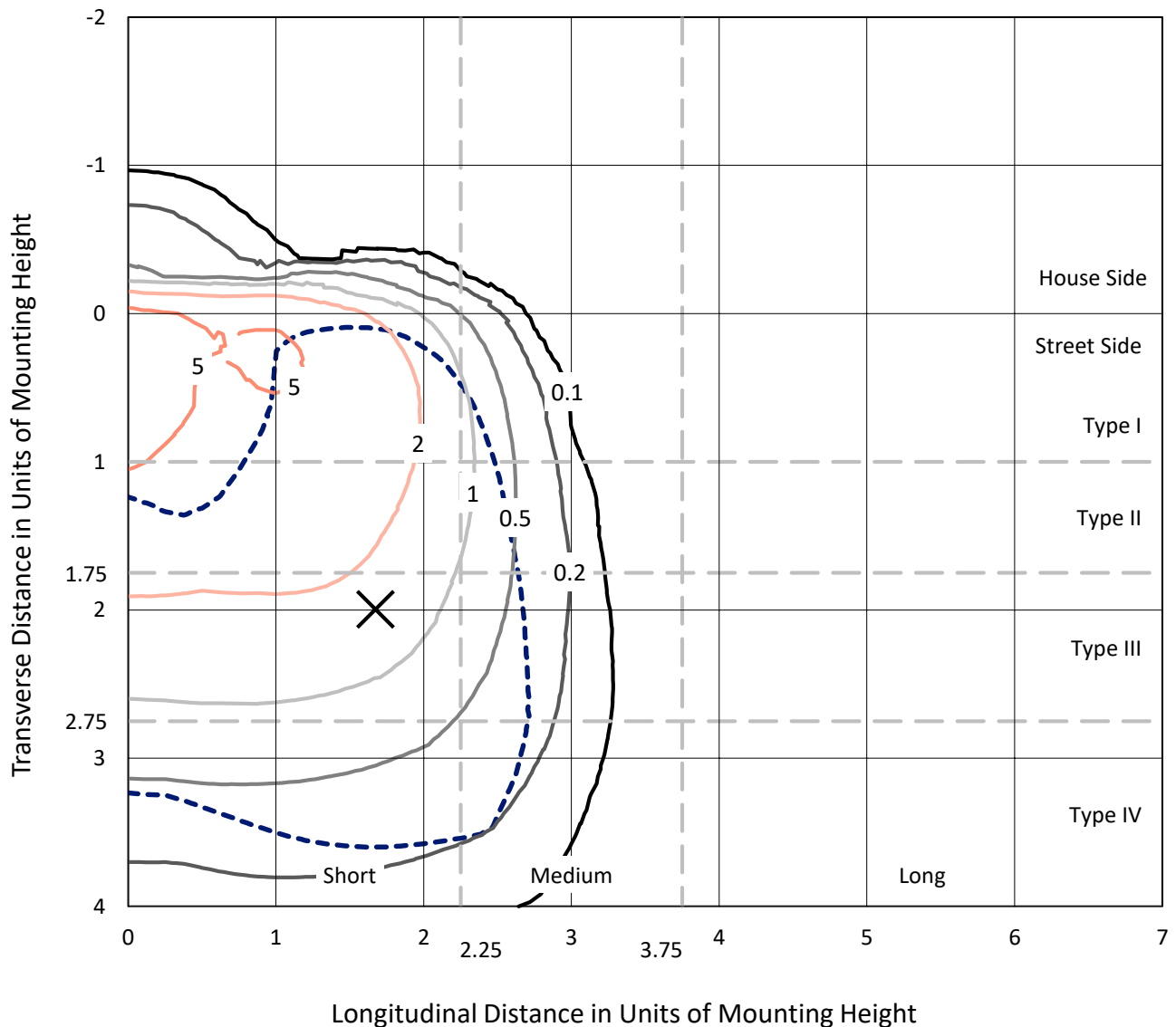


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

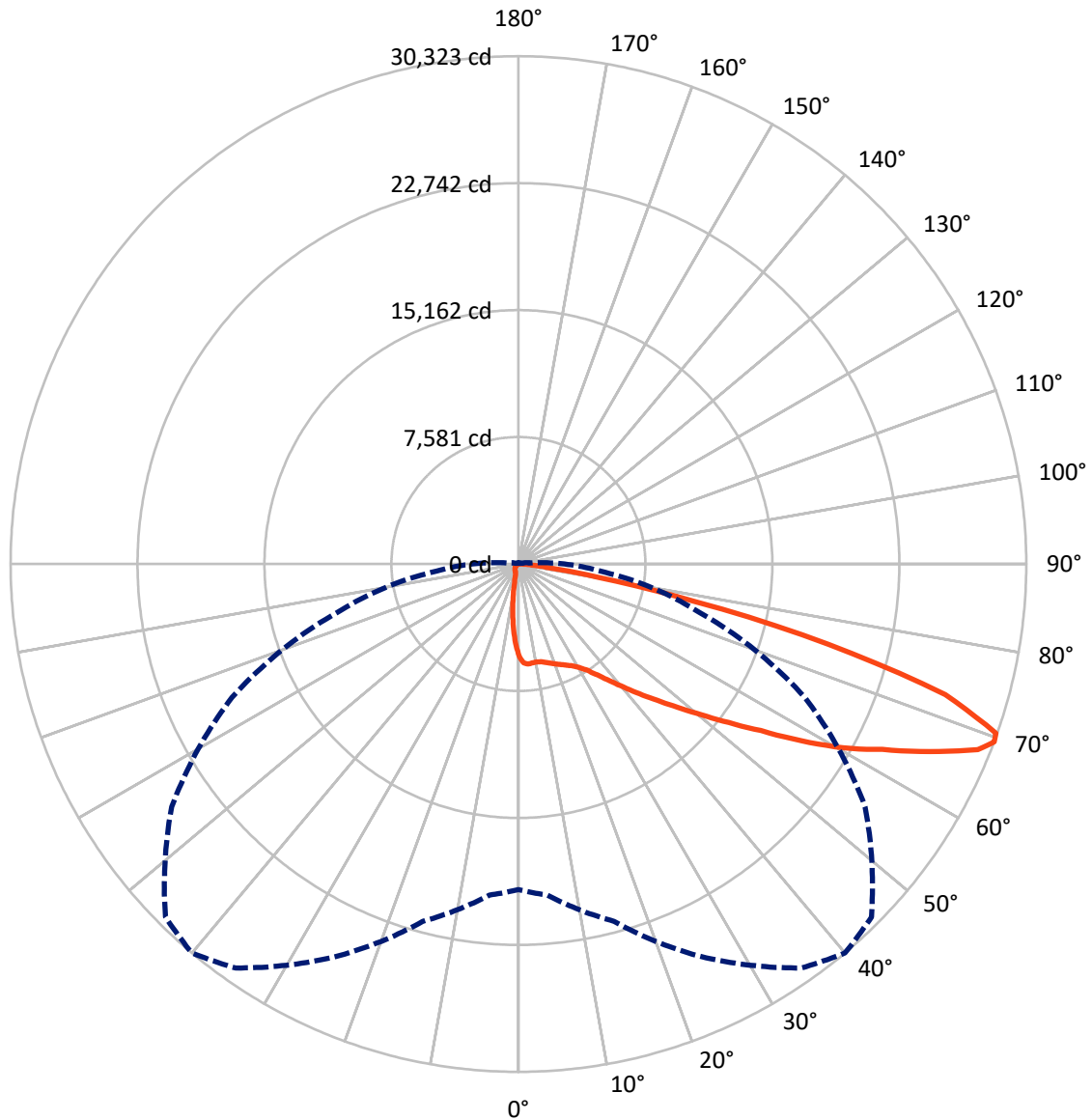


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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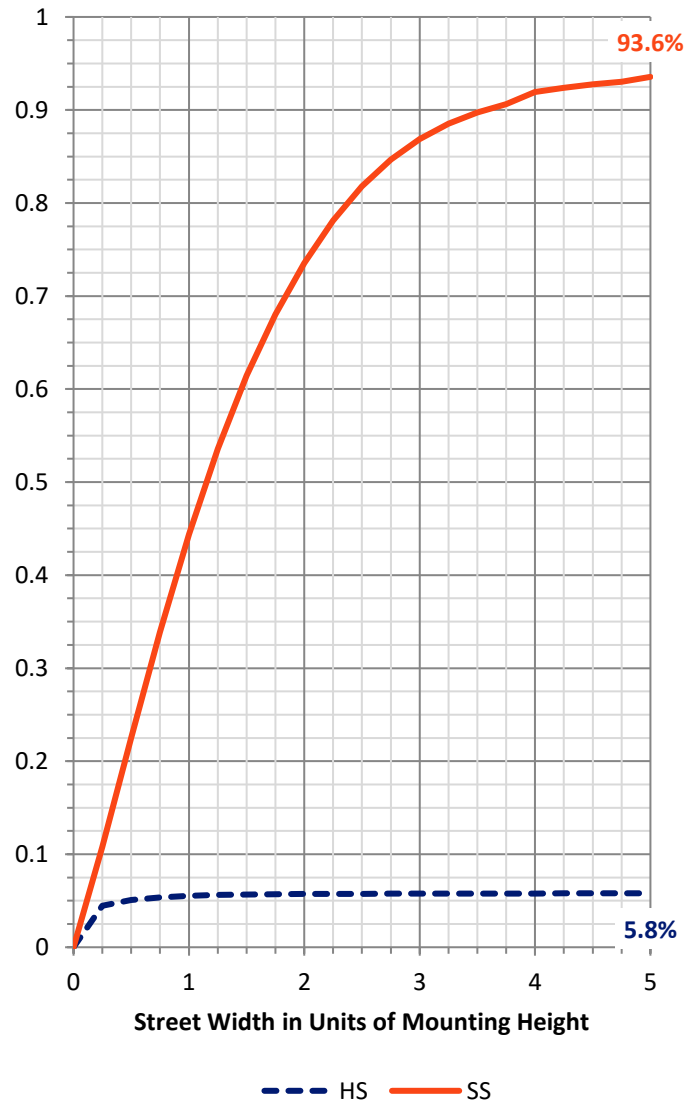
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2158.9	0.0	2158.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	34742.8	0.0	34742.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	36901.7	0.0	36901.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.0	1.2
10°-20°	1099.3	3.0
20°-30°	1851.6	5.0
30°-40°	3031.1	8.2
40°-50°	5248.3	14.2
50°-60°	8266.6	22.4
60°-70°	10795.9	29.3
70°-80°	5560.4	15.1
80°-90°	601.5	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°	36901.7	100.0
0°-180°	36901.7	100.0



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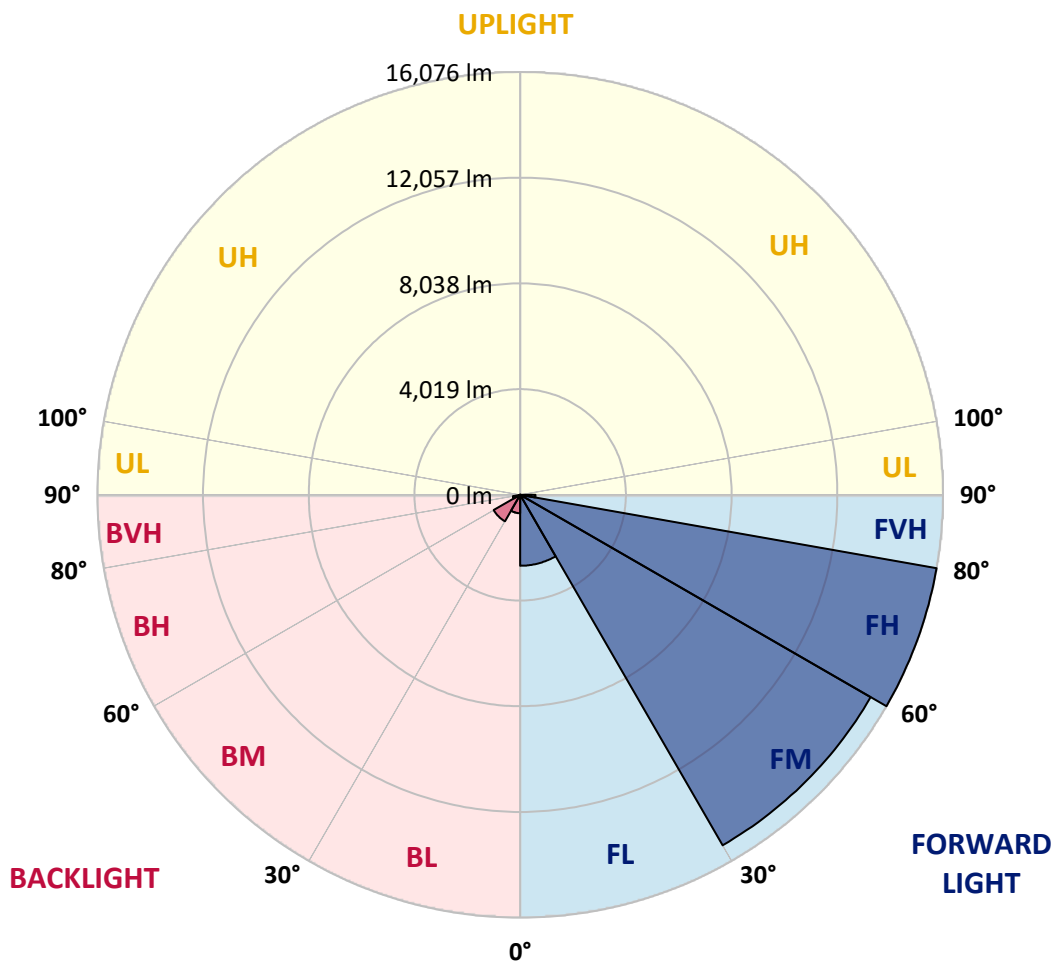
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.6	7.3			
FM (30°-60°)	15385.7	41.7			
FH (60°-80°)	16075.9	43.6			G5
FVH (80°-90°)	582.6	1.6			G4/750
BL (0°-30°)	699.4	1.9	B2/1000		
BM (30°-60°)	1160.4	3.1	B2/2500		
BH (60°-80°)	280.3	0.8	B1/500		G1/500
BVH (80°-90°)	18.9	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°	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3
2.5°	6053.7	6020.7	6000.9	5974.5	5941.6	5913.1	5902.1	5820.8	5743.9	5638.5	5517.7
5°	6165.6	6154.6	6119.6	6084.4	6044.9	6000.9	5976.8	5880.1	5770.4	5616.6	5405.7
7.5°	6176.7	6163.5	6119.6	6071.3	6016.3	5963.6	5921.8	5825.1	5724.2	5568.2	5311.1
10°	6159.0	6143.7	6110.8	6058.1	5990.0	5939.5	5897.7	5805.4	5719.8	5579.3	5293.6
12.5°	6139.3	6123.9	6108.6	6082.2	6022.9	5987.7	5952.6	5864.8	5787.9	5669.3	5357.3
15°	6159.0	6150.2	6167.9	6157.0	6123.9	6093.3	6058.1	5978.9	5908.7	5809.9	5473.8
17.5°	6242.5	6242.5	6297.5	6304.0	6273.4	6229.3	6178.8	6099.9	6040.6	5957.0	5612.2
20°	6438.1	6431.4	6501.8	6515.0	6440.3	6372.1	6297.5	6200.8	6154.6	6101.9	5748.3
22.5°	6774.1	6743.3	6785.1	6772.0	6624.8	6519.3	6427.1	6308.4	6284.4	6260.1	5899.9
25°	7211.2	7193.6	7222.3	7092.6	6833.4	6690.7	6580.9	6446.9	6446.9	6471.0	6071.3
27.5°	7846.1	7780.1	7683.6	7455.0	7066.2	6883.9	6765.3	6622.6	6659.9	6750.0	6297.5
30°	8496.2	8423.8	8201.9	7850.4	7349.7	7158.6	7020.2	6870.7	6958.6	7123.4	6600.6
32.5°	9137.6	9056.4	8742.2	8298.5	7756.0	7564.8	7430.9	7266.1	7413.4	7690.1	7044.2
35°	9759.2	9686.8	9324.2	8801.6	8296.3	8138.1	8015.1	7872.3	8061.3	8447.9	7670.3
37.5°	10457.7	10378.7	9937.1	9370.4	8953.0	8838.9	8748.9	8606.0	8935.5	9502.2	8542.3
40°	11316.6	11182.6	10587.3	10022.7	9713.2	9658.1	9596.7	9576.9	10088.8	10872.8	9704.3
42.5°	12300.6	12080.9	11268.2	10710.3	10547.8	10587.3	10572.0	10659.7	11531.8	12577.3	11119.0
45°	13284.7	13001.3	12026.1	11444.0	11466.0	11604.3	11690.0	12041.4	13339.7	14532.3	12641.0
47.5°	14119.3	13840.4	12753.1	12236.9	12500.5	12772.9	13005.8	13671.2	15197.9	16456.5	13825.0
50°	14833.3	14569.6	13524.2	13109.0	13701.9	14141.3	14519.1	15505.4	17196.8	17921.5	14655.3
52.5°	15417.5	15241.8	14323.7	14108.4	15074.8	15718.5	16272.0	17453.7	18967.2	19112.1	15301.1
55°	15986.3	15861.3	15182.4	15296.7	16687.0	17563.5	18264.2	19520.6	20491.4	20104.8	15920.5
57.5°	16641.0	16526.7	16162.1	16803.5	18806.7	19909.5	20673.9	21352.5	21833.6	21119.7	16504.7
60°	17308.7	17242.8	17251.6	18477.2	21240.6	22299.3	22721.0	22896.7	23151.5	22075.2	16537.7
62.5°	17945.7	18070.9	18497.0	20340.0	23571.0	24383.8	24596.9	24770.4	24471.6	22226.8	15279.1
65°	19024.2	19228.5	20245.6	22832.9	26134.4	27004.2	27223.9	26628.6	24680.4	20267.5	12428.1
67.5°	19551.4	19924.8	21739.2	25156.9	28620.9	29587.4	29506.1	26749.4	22147.7	15454.8	7975.6
69°	19441.6	19839.2	22084.0	25868.6	29446.8	30323.1	29807.0	25271.2	18868.3	11195.8	4896.1
70°	19006.7	19408.6	21906.1	25842.4	29552.3	30246.3	29249.2	23445.9	15953.4	8186.6	3062.0
72.5°	15872.2	16219.3	19448.1	23358.0	27223.9	26659.4	24469.4	16243.4	7773.6	2229.6	689.7
75°	9770.1	9963.6	13954.6	17596.4	20561.8	19112.1	16302.7	8081.1	2317.4	630.4	382.1
77.5°	5161.9	5249.8	7639.5	10372.1	13034.2	10785.1	8355.7	3152.1	1067.5	395.3	276.8
80°	3051.1	3116.8	4114.1	4742.3	5640.6	4711.6	3340.9	1935.2	764.4	248.2	246.0
82.5°	1746.2	1787.9	2982.9	2635.8	2222.9	1897.8	1662.9	1834.1	459.0	166.9	254.8
85°	641.4	650.2	1678.2	2005.5	1322.3	786.3	825.9	1520.0	123.0	105.5	200.0
87.5°	298.7	292.2	863.2	1227.9	773.3	498.6	643.5	333.9	48.2	68.1	54.8
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°	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3	5513.3
2.5°	5447.4	5366.1	5219.0	5067.3	4913.6	4795.1	4678.6	4586.3	4555.7	4498.5	4502.9
5°	5280.4	5131.1	4823.5	4511.6	4186.6	3918.6	3666.1	3461.8	3363.0	3261.8	3261.8
7.5°	5135.5	4918.0	4437.0	3929.5	3404.7	2963.1	2565.6	2266.9	2102.0	1970.3	1968.0
10°	5080.6	4786.3	4114.1	3387.1	2655.6	2053.7	1581.5	1278.4	1122.4	1021.5	1017.1
12.5°	5104.8	4740.1	3865.9	2886.3	1968.0	1320.1	915.9	720.5	654.5	623.9	623.9
15°	5175.0	4726.9	3617.7	2396.4	1390.3	825.9	608.4	555.7	551.3	551.3	551.3
17.5°	5260.7	4731.4	3363.0	1919.8	946.8	590.8	525.0	518.4	522.8	522.8	522.8
20°	5348.6	4733.6	3088.4	1478.3	667.7	514.0	494.2	492.0	496.5	496.5	498.6
22.5°	5456.1	4744.5	2813.9	1104.8	551.3	485.4	470.1	470.1	472.2	472.2	470.1
25°	5579.3	4766.4	2528.2	819.3	503.1	465.7	452.4	450.3	452.4	450.3	448.1
27.5°	5733.0	4797.3	2209.7	641.4	481.0	445.9	434.9	434.9	432.8	430.5	428.3
30°	5926.3	4832.4	1851.6	544.7	459.0	428.3	417.4	415.1	413.0	408.5	408.5
32.5°	6220.7	4909.2	1498.1	494.2	434.9	404.1	395.3	395.3	391.0	386.6	384.4
35°	6673.1	5060.8	1181.7	463.4	408.5	377.7	366.8	366.8	362.5	360.2	358.1
37.5°	7299.1	5291.5	918.2	434.9	382.1	349.3	338.2	336.1	331.7	327.3	325.0
40°	8131.5	5576.9	722.6	408.5	355.9	320.6	311.9	307.5	298.7	292.2	292.2
42.5°	9177.2	5902.1	586.5	380.1	325.0	294.4	287.7	281.2	265.8	259.3	256.9
45°	10271.0	6194.3	496.5	347.0	294.4	268.0	263.7	252.7	232.8	226.3	226.3
47.5°	11059.6	6262.4	437.1	316.4	265.8	239.4	237.2	217.5	200.0	195.6	193.2
50°	11551.6	6128.3	388.7	285.5	239.4	213.1	206.5	182.4	171.3	166.9	164.7
52.5°	11883.3	5888.8	349.3	259.3	215.2	189.0	173.6	155.9	147.1	142.8	142.8
55°	12149.0	5550.6	309.7	235.0	195.6	169.2	147.1	133.9	125.3	120.8	120.8
57.5°	12223.7	5091.6	270.2	215.2	175.7	149.4	125.3	116.4	105.5	103.2	103.2
60°	11681.2	4263.4	239.4	191.1	158.1	129.5	109.9	98.9	87.9	85.7	83.5
62.5°	10251.3	3299.1	210.8	169.2	138.3	112.0	94.4	81.2	72.6	72.6	72.6
65°	7819.7	2211.8	184.5	147.1	120.8	94.4	81.2	65.8	61.5	61.5	63.7
67.5°	4680.8	1203.6	158.1	125.3	103.2	79.1	68.1	57.1	54.8	57.1	57.1
69°	2743.5	707.2	142.8	112.0	90.1	70.2	59.3	50.6	54.8	57.1	57.1
70°	1693.6	476.6	131.8	101.0	81.2	63.7	54.8	48.2	52.7	54.8	54.8
72.5°	472.2	246.0	105.5	79.1	65.8	52.7	43.9	43.9	50.6	52.7	52.7
75°	307.5	182.4	81.2	59.3	50.6	41.7	37.3	41.7	48.2	50.6	50.6
77.5°	254.8	149.4	65.8	48.2	41.7	39.5	35.2	37.3	43.9	46.2	46.2
80°	232.8	105.5	52.7	43.9	37.3	35.2	33.0	30.7	39.5	41.7	41.7
82.5°	221.8	83.5	46.2	39.5	35.2	30.7	28.6	30.7	35.2	37.3	39.5
85°	138.3	54.8	41.7	37.3	30.7	28.6	28.6	28.6	33.0	35.2	35.2
87.5°	50.6	43.9	37.3	30.7	26.4	26.4	26.4	26.4	28.6	33.0	33.0
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)