

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: P193655

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193655
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-07-LED-E1-SL3-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 19338 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

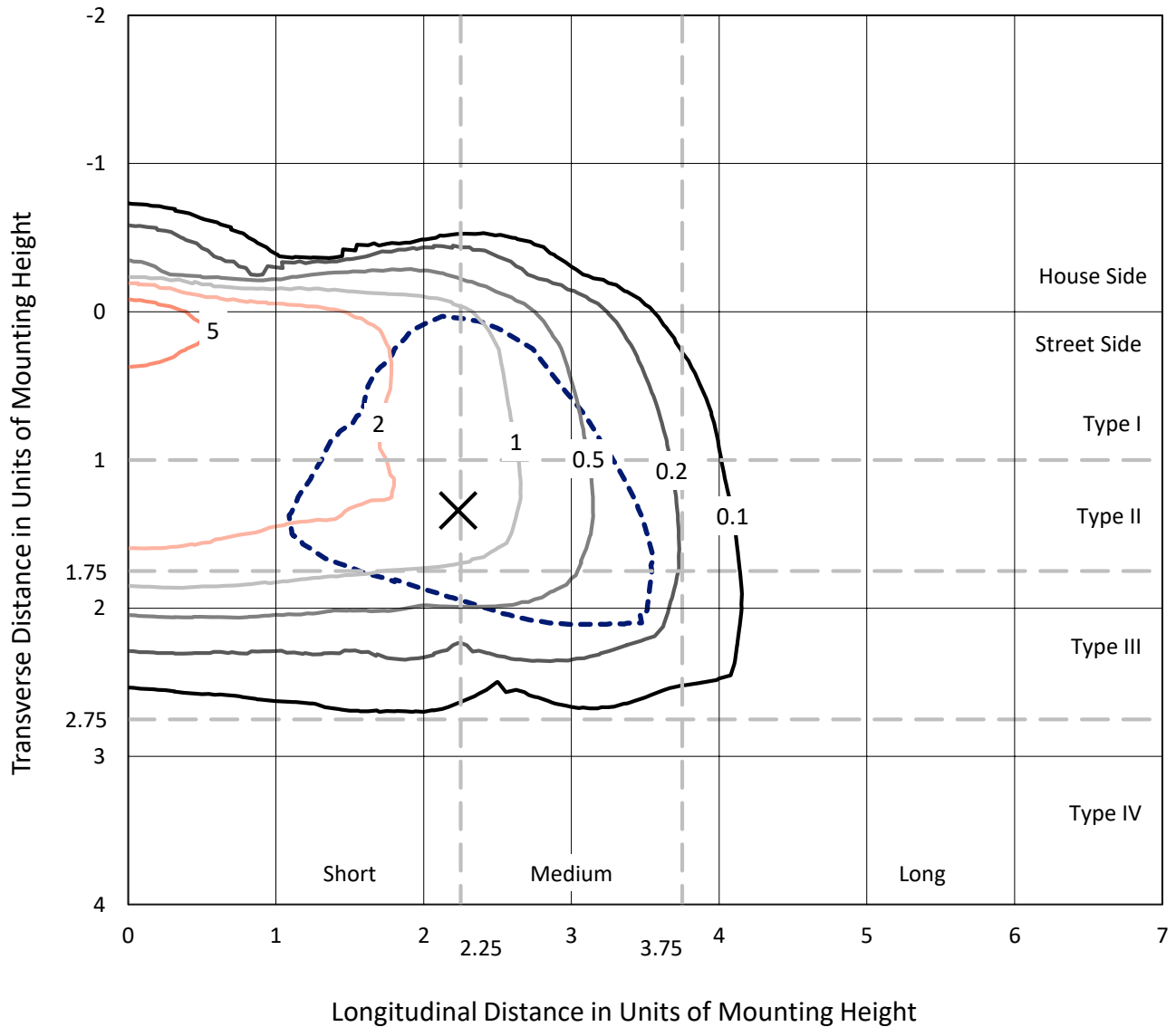


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

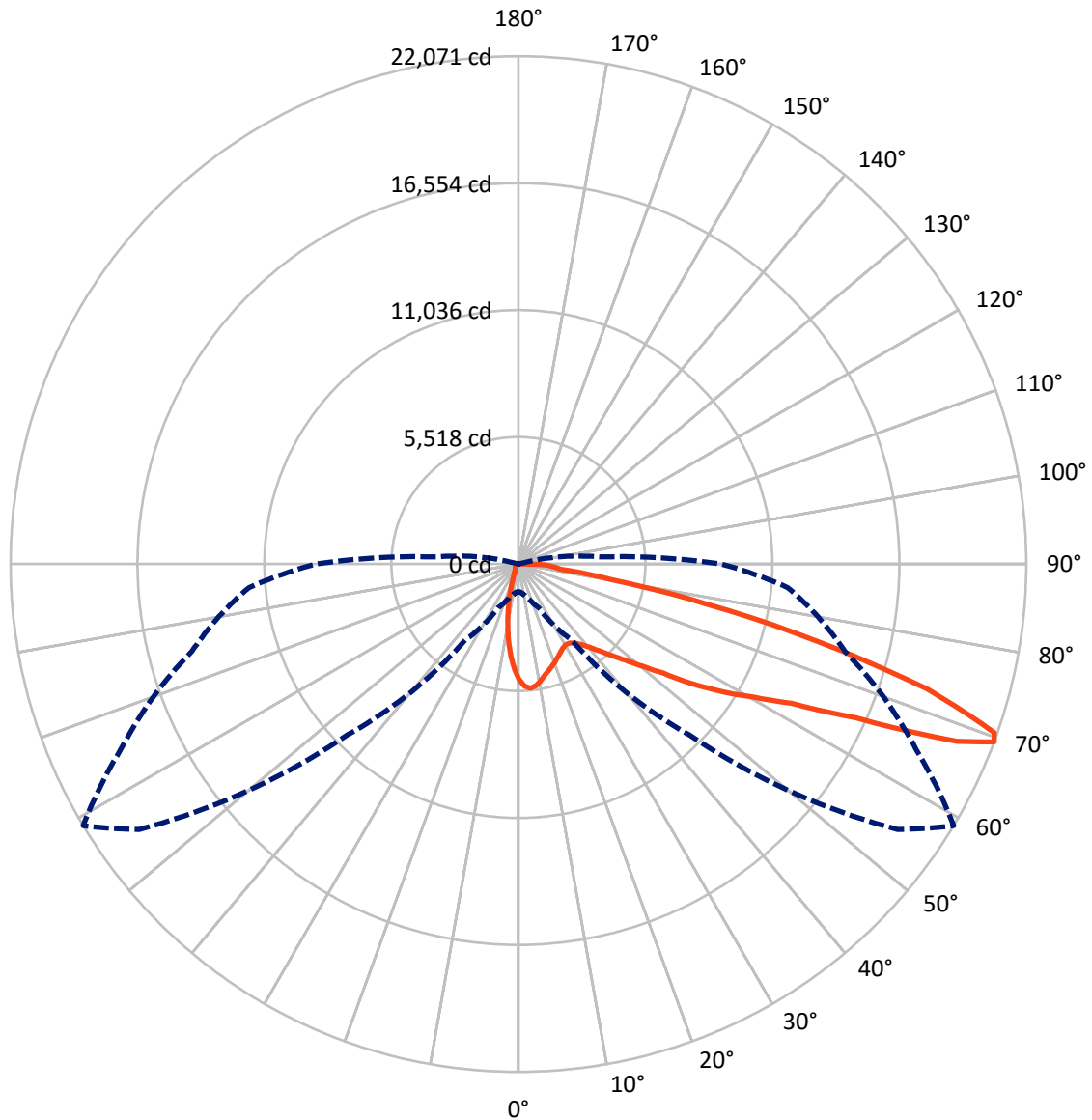


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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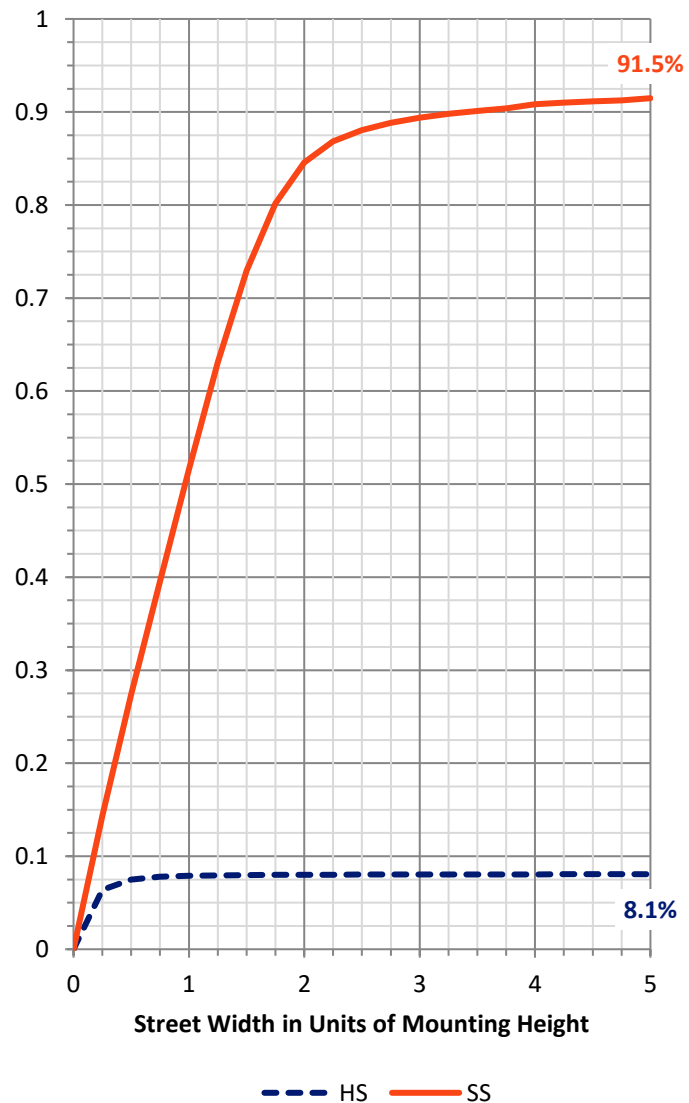
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.8	0.0	1574.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	17763.2	0.0	17763.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	19338.0	0.0	19338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	2.1
10°-20°	844.2	4.4
20°-30°	1136.0	5.9
30°-40°	1649.4	8.5
40°-50°	2746.3	14.2
50°-60°	4284.2	22.2
60°-70°	5301.4	27.4
70°-80°	2686.7	13.9
80°-90°	281.1	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°	19338.0	100.0
0°-180°	19338.0	100.0



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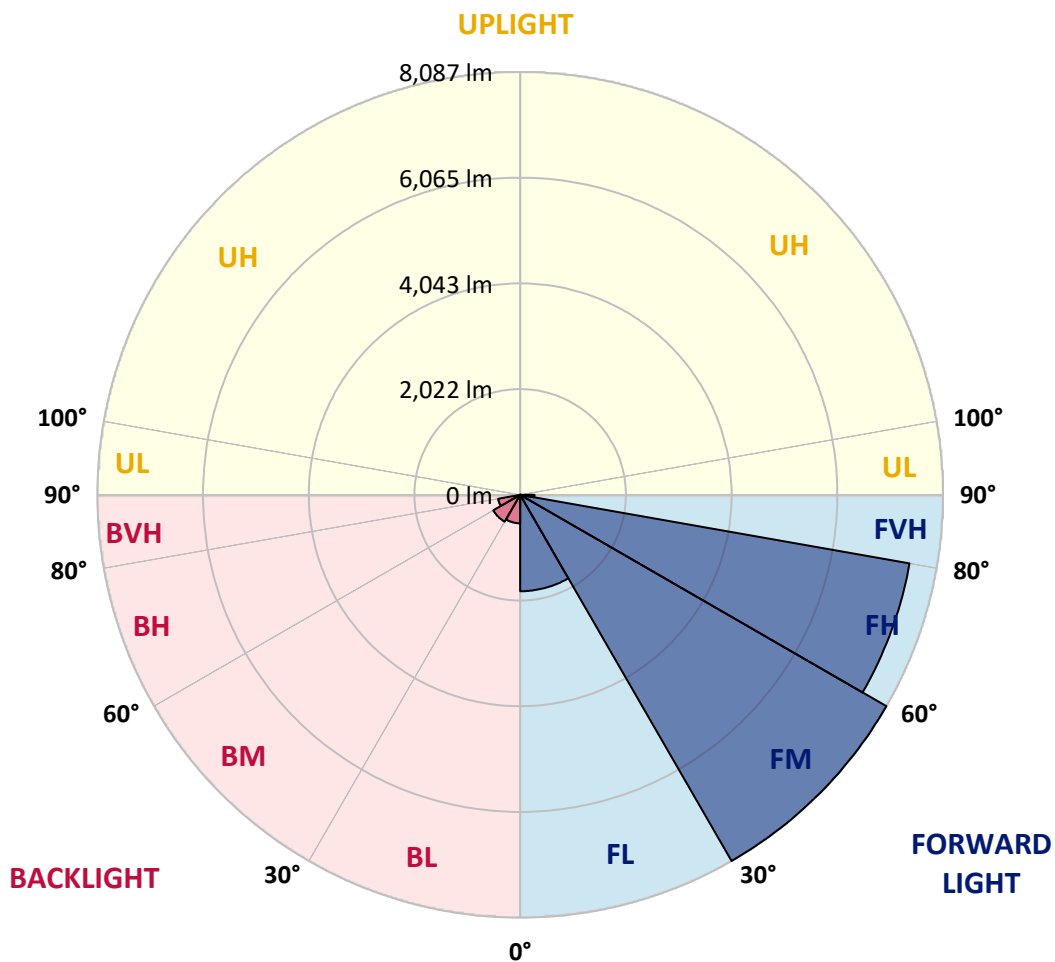
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.7	9.5			
FM (30°-60°)	8086.6	41.8			
FH (60°-80°)	7560.5	39.1			G4/12000
FVH (80°-90°)	272.5	1.4			G3/500
BL (0°-30°)	545.1	2.8	B2/1000		
BM (30°-60°)	593.4	3.1	B1/1000		
BH (60°-80°)	427.7	2.2	B1/500		G1/500
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4
2.5°	5516.7	5514.6	5490.5	5479.6	5459.9	5418.3	5353.8	5319.9	5265.2	5170.1	5042.2
5°	5466.4	5492.7	5506.9	5508.0	5522.2	5506.9	5448.9	5420.5	5345.1	5192.0	4962.3
7.5°	5125.3	5135.1	5175.6	5210.6	5278.4	5342.9	5363.7	5351.6	5306.8	5142.8	4837.7
10°	4760.0	4769.9	4818.0	4863.9	4955.8	5055.3	5160.3	5182.1	5200.7	5072.8	4717.4
12.5°	4445.1	4454.9	4504.2	4564.3	4671.5	4793.9	4956.9	4993.0	5075.0	5006.1	4621.2
15°	4173.9	4178.3	4226.4	4300.8	4428.7	4586.2	4771.0	4828.9	4954.7	4959.1	4537.0
17.5°	3943.2	3954.1	3983.6	4054.7	4194.7	4389.3	4604.8	4687.9	4835.5	4919.7	4454.9
20°	3802.1	3813.1	3812.0	3851.3	3977.1	4184.9	4438.5	4538.1	4717.4	4879.2	4381.7
22.5°	3774.8	3774.8	3746.4	3740.9	3815.2	3989.1	4265.8	4387.2	4611.3	4861.7	4330.3
25°	3872.1	3867.7	3796.7	3738.7	3742.0	3845.9	4098.5	4242.8	4521.7	4873.8	4303.0
27.5°	4077.7	4072.2	3982.6	3872.1	3783.5	3782.4	3971.6	4126.9	4450.6	4930.6	4313.9
30°	4362.0	4359.8	4262.5	4123.6	3962.9	3815.2	3927.9	4068.9	4404.6	5033.4	4339.0
32.5°	4672.6	4669.3	4596.0	4449.5	4246.1	3962.9	3973.8	4091.9	4417.8	5170.1	4400.3
35°	5001.7	4996.2	4964.5	4836.6	4612.4	4235.2	4124.7	4216.6	4500.9	5374.6	4520.6
37.5°	5358.2	5363.7	5386.6	5264.1	5029.0	4616.8	4377.3	4439.6	4668.2	5652.3	4716.3
40°	5884.2	5883.1	5890.7	5730.0	5503.6	5083.7	4730.5	4750.2	4948.1	6020.9	5013.7
42.5°	6838.8	6772.1	6569.8	6241.7	6014.3	5617.3	5175.6	5154.8	5290.4	6476.8	5430.4
45°	8121.5	7979.3	7454.4	6825.7	6534.8	6218.8	5723.4	5656.7	5743.1	7024.7	5944.3
47.5°	9224.8	9077.2	8334.7	7433.7	7087.0	6789.6	6365.3	6245.0	6273.5	7638.1	6596.0
50°	9599.9	9527.7	8879.3	7962.9	7621.7	7508.0	7110.0	6963.5	6923.0	8347.8	7351.6
52.5°	9469.8	9464.3	9032.4	8306.3	8111.6	8251.6	8047.1	7877.6	7728.9	9095.8	8120.4
55°	9260.9	9288.3	9094.7	8607.0	8600.4	8930.7	9328.7	9187.6	8756.8	9908.3	8783.1
57.5°	8684.6	8801.6	9059.7	9175.6	9444.6	9782.5	10396.0	10479.1	9969.5	10530.5	9333.1
60°	7046.6	7303.5	8147.7	9257.6	10532.7	11374.7	11684.1	11755.2	10964.6	11047.7	10075.6
62.5°	5001.7	5264.1	6334.7	8212.2	10549.1	13466.5	13603.2	13324.4	12060.3	11814.3	11356.1
65°	2655.0	2857.3	3732.1	5927.9	9146.1	13952.1	16959.2	16128.1	13993.6	13322.2	13010.5
67.5°	1358.1	1419.4	1767.1	2901.1	6287.7	12392.7	19967.4	20552.5	17325.5	14818.1	12930.7
69°	1201.8	1237.9	1468.6	2097.3	4026.3	10496.6	20114.0	22071.4	19069.7	14693.5	11750.8
70°	1163.5	1195.2	1405.2	1898.3	3147.1	8802.7	19553.0	21937.9	19515.8	14218.9	10869.5
72.5°	987.4	1014.8	1251.0	1677.4	2557.7	4369.7	15883.2	18589.6	17512.5	11844.9	7867.8
75°	660.5	750.1	1200.7	1572.5	2379.5	2482.3	10471.4	13433.7	12479.1	7989.2	4098.5
77.5°	158.6	170.6	339.0	1251.0	2176.1	2184.8	5385.5	8351.1	6811.5	2847.5	968.8
80°	85.3	82.0	95.1	248.2	2026.3	2050.3	2424.3	4053.6	2432.0	472.4	319.3
82.5°	60.1	56.9	61.2	103.9	637.5	1867.7	1754.0	1834.9	1008.2	181.5	143.2
85°	21.9	20.8	33.9	94.0	200.1	1073.8	1802.1	1513.4	816.8	83.1	105.0
87.5°	7.7	6.6	13.1	51.4	61.2	457.1	1112.1	1143.8	321.5	50.3	49.2
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°	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4	5033.4
2.5°	4988.6	4920.8	4796.1	4668.2	4550.1	4407.9	4336.8	4266.9	4237.3	4226.4	4175.0
5°	4844.2	4729.4	4464.8	4199.1	3954.1	3693.9	3522.2	3384.4	3303.5	3264.1	3201.8
7.5°	4659.4	4471.4	4070.0	3660.0	3278.3	2902.2	2623.3	2409.0	2261.4	2190.3	2125.8
10°	4480.1	4229.7	3658.9	3100.1	2581.8	2083.1	1698.2	1419.4	1241.1	1159.1	1106.6
12.5°	4319.4	3994.6	3261.9	2554.4	1903.8	1319.9	928.4	706.4	596.0	557.7	539.1
15°	4176.1	3778.1	2886.9	2036.1	1289.2	754.5	507.4	431.9	414.4	414.4	412.3
17.5°	4040.5	3565.9	2524.9	1549.5	809.2	461.5	386.0	376.2	376.2	380.5	380.5
20°	3910.4	3363.6	2175.0	1112.1	509.6	366.3	348.8	346.6	348.8	354.3	354.3
22.5°	3798.8	3179.9	1848.0	763.3	378.4	330.2	321.5	318.2	319.3	322.6	324.8
25°	3715.7	3024.6	1539.7	517.2	325.9	300.7	290.9	285.4	281.0	281.0	283.2
27.5°	3663.2	2893.4	1241.1	376.2	293.1	273.4	258.1	249.3	239.5	234.0	236.2
30°	3625.0	2768.8	961.2	307.3	262.4	242.8	223.1	208.9	194.6	188.1	190.3
32.5°	3610.8	2668.2	718.4	271.2	235.1	213.2	189.2	170.6	155.3	149.8	150.9
35°	3649.0	2588.3	526.0	244.9	213.2	185.9	158.6	137.8	125.8	122.5	123.6
37.5°	3749.6	2545.7	393.7	223.1	193.6	162.9	132.3	112.6	105.0	105.0	106.1
40°	3939.9	2544.6	316.0	207.8	176.1	141.1	109.4	95.1	90.8	92.9	94.0
42.5°	4217.7	2602.5	275.6	193.6	160.7	120.3	90.8	80.9	79.8	82.0	83.1
45°	4597.1	2708.6	253.7	181.5	144.3	100.6	76.5	70.0	70.0	73.3	74.4
47.5°	5061.8	2863.9	235.1	169.5	127.9	84.2	65.6	61.2	62.3	65.6	66.7
50°	5621.7	3059.6	216.5	156.4	115.9	70.0	56.9	53.6	54.7	59.0	60.1
52.5°	6259.2	3323.2	201.2	144.3	100.6	58.0	48.1	45.9	48.1	52.5	53.6
55°	6806.0	3559.4	182.6	134.5	80.9	48.1	39.4	39.4	41.6	47.0	48.1
57.5°	7332.0	3806.5	166.2	115.9	63.4	38.3	32.8	33.9	37.2	42.6	43.7
60°	8104.0	4225.3	146.5	97.3	48.1	30.6	27.3	28.4	32.8	38.3	39.4
62.5°	9415.1	4862.8	126.8	80.9	37.2	24.1	21.9	24.1	29.5	36.1	37.2
65°	10598.3	5122.0	103.9	67.8	28.4	18.6	18.6	21.9	28.4	35.0	36.1
67.5°	9938.9	4311.7	80.9	53.6	21.9	14.2	15.3	20.8	27.3	35.0	36.1
69°	8789.6	3525.5	68.9	42.6	18.6	13.1	14.2	20.8	27.3	33.9	35.0
70°	7894.0	2976.5	61.2	36.1	16.4	13.1	14.2	19.7	27.3	33.9	35.0
72.5°	5287.1	1607.5	49.2	26.2	15.3	12.0	12.0	19.7	26.2	32.8	33.9
75°	2272.3	444.0	39.4	18.6	13.1	10.9	10.9	18.6	25.2	31.7	33.9
77.5°	415.5	112.6	31.7	16.4	13.1	10.9	9.8	17.5	24.1	30.6	31.7
80°	165.1	55.8	25.2	14.2	12.0	9.8	8.7	16.4	23.0	29.5	30.6
82.5°	99.5	31.7	20.8	13.1	12.0	8.7	7.7	14.2	21.9	28.4	29.5
85°	80.9	21.9	16.4	13.1	10.9	8.7	6.6	13.1	19.7	27.3	28.4
87.5°	39.4	15.3	15.3	12.0	10.9	8.7	6.6	12.0	18.6	26.2	27.3
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)