

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: P191114

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191114
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-06-LED-E1-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 20498.9 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

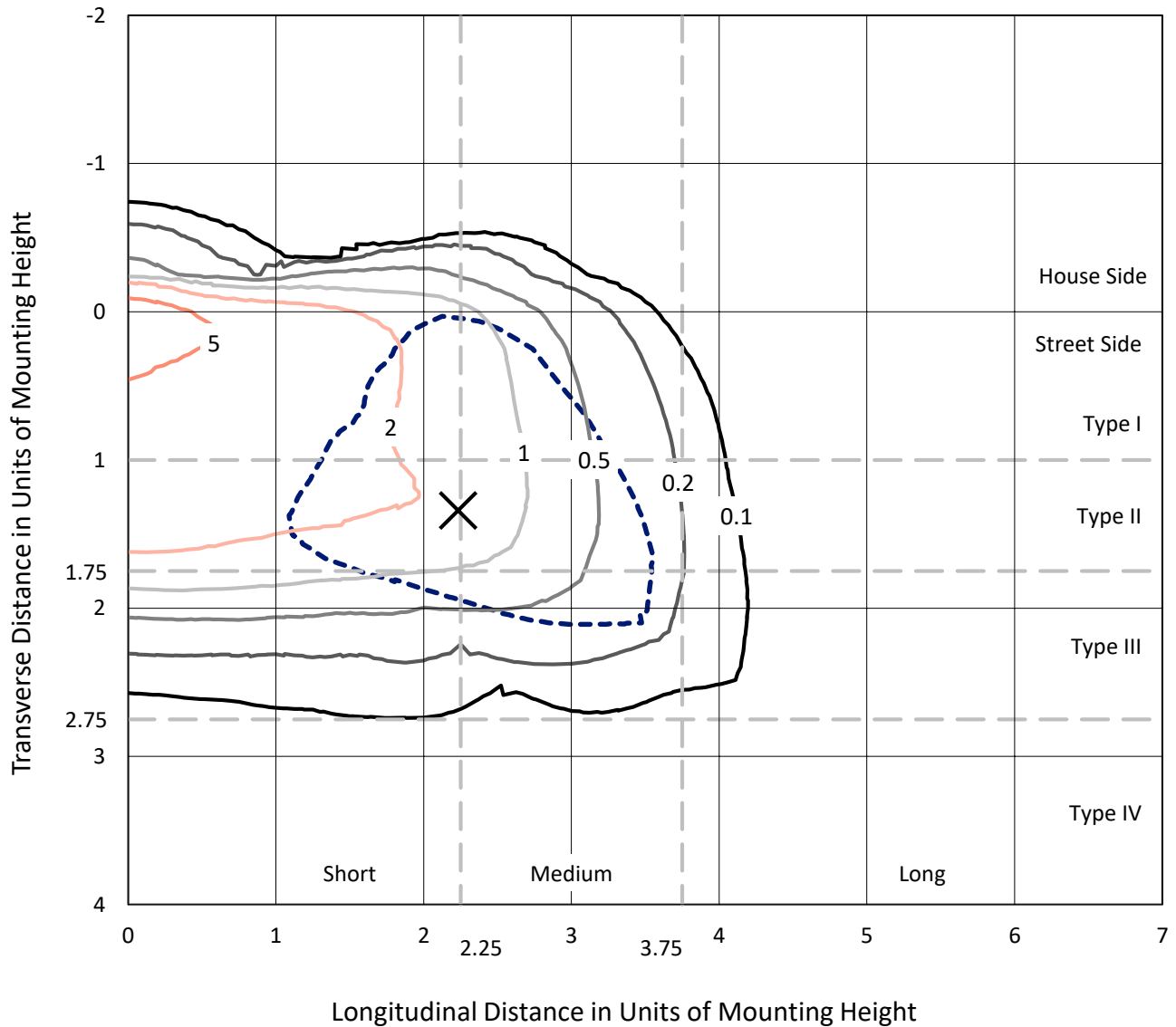
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

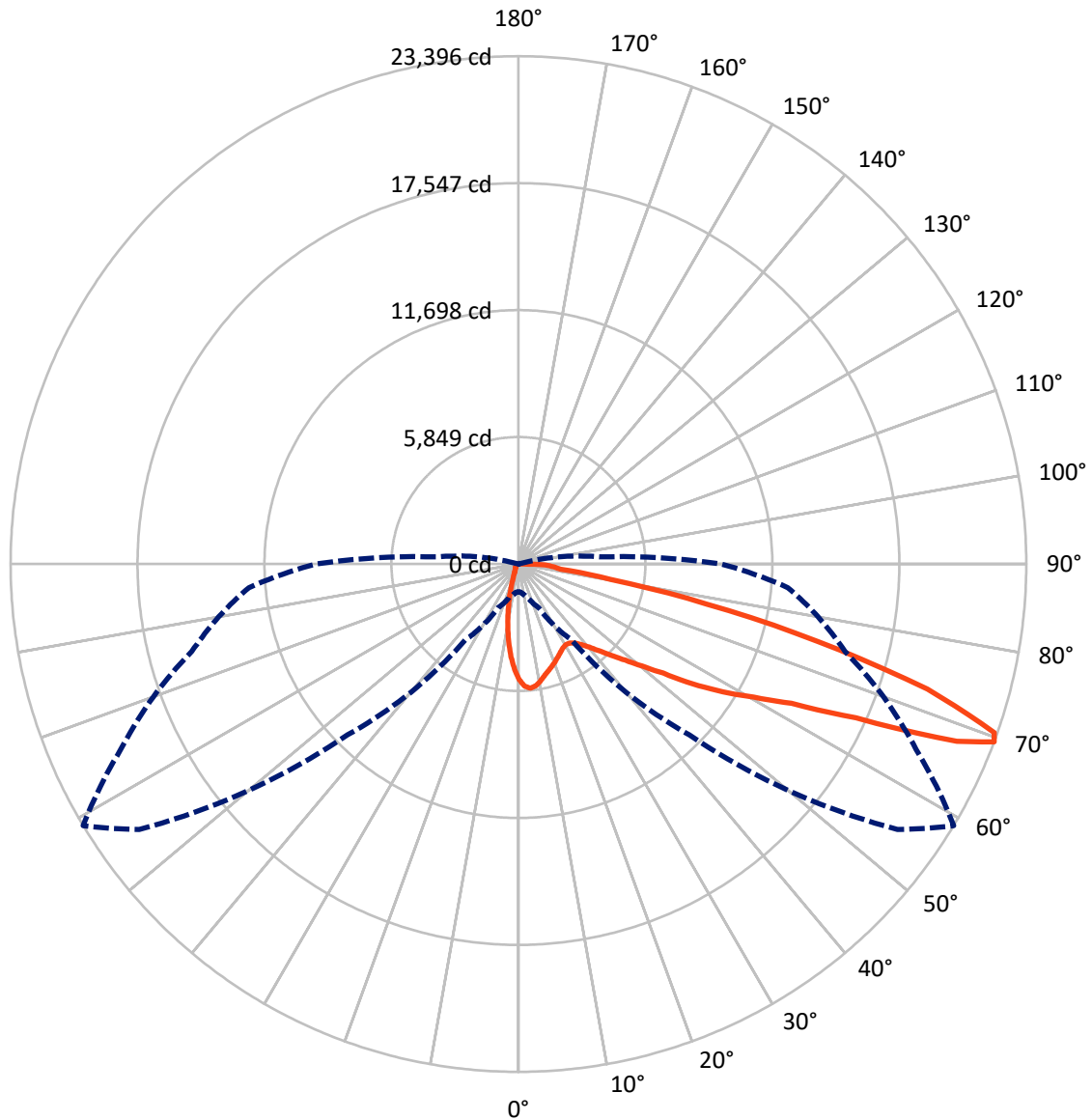


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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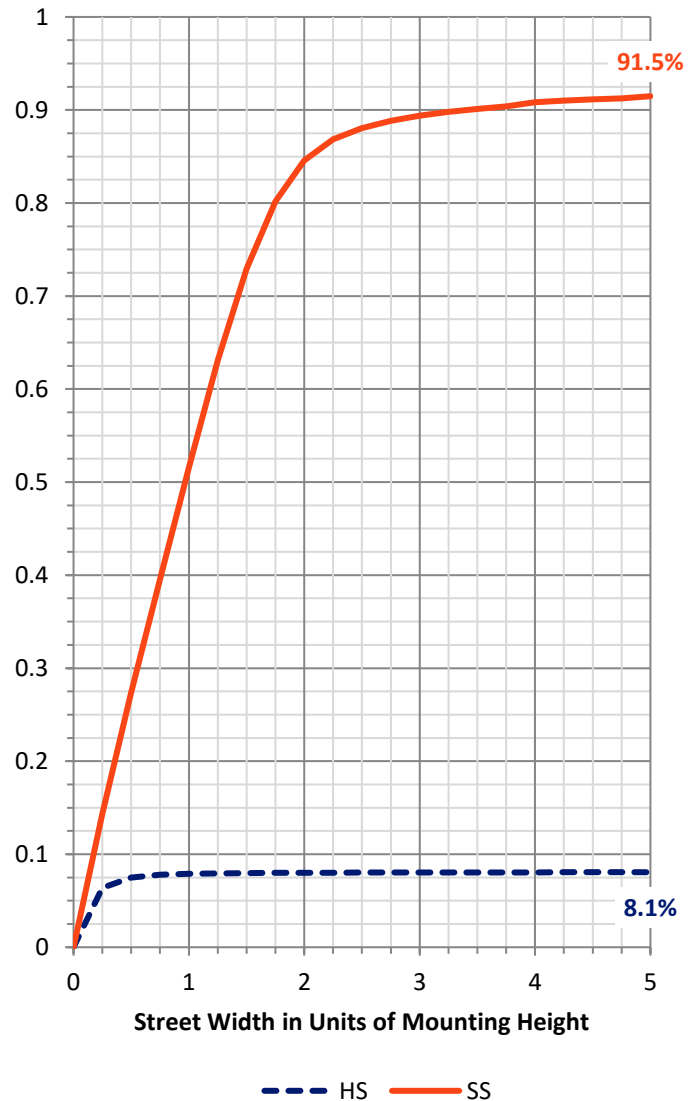
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1669.4	0.0	1669.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18829.5	0.0	18829.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	20498.9	0.0	20498.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.1	2.1
10°-20°	894.9	4.4
20°-30°	1204.2	5.9
30°-40°	1748.4	8.5
40°-50°	2911.2	14.2
50°-60°	4541.4	22.2
60°-70°	5619.7	27.4
70°-80°	2848.0	13.9
80°-90°	298.0	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°	20498.9	100.0
0°-180°	20498.9	100.0



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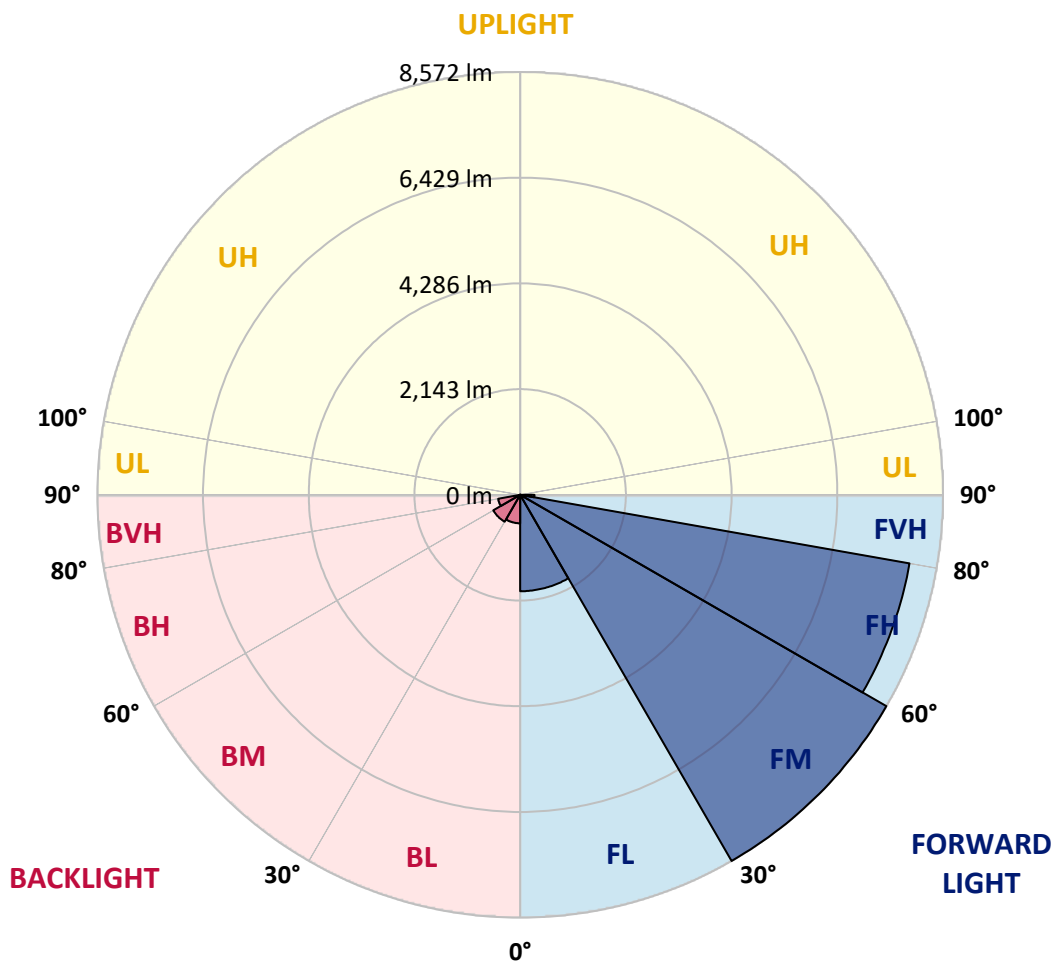
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1954.3	9.5			
FM	(30°-60°)	8572.0	41.8			
FH	(60°-80°)	8014.3	39.1			G4/12000
FVH	(80°-90°)	288.8	1.4			G3/500
BL	(0°-30°)	577.8	2.8	B2/1000		
BM	(30°-60°)	629.0	3.1	B1/1000		
BH	(60°-80°)	453.4	2.2	B1/500		G1/500
BVH	(80°-90°)	9.2	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°	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6
2.5°	5847.9	5845.7	5820.1	5808.5	5787.7	5743.6	5675.2	5639.3	5581.3	5480.5	5344.8
5°	5794.6	5822.4	5837.5	5838.7	5853.7	5837.5	5776.1	5745.9	5665.9	5503.7	5260.2
7.5°	5433.0	5443.4	5486.3	5523.3	5595.2	5663.7	5685.7	5672.9	5625.4	5451.5	5128.1
10°	5045.8	5056.2	5107.2	5155.9	5253.3	5358.7	5470.0	5493.2	5512.9	5377.3	5000.6
12.5°	4711.9	4722.4	4774.5	4838.4	4951.9	5081.7	5254.5	5292.6	5379.6	5306.6	4898.6
15°	4424.5	4429.2	4480.1	4559.0	4694.5	4861.5	5057.4	5118.8	5252.1	5256.7	4809.3
17.5°	4179.9	4191.5	4222.8	4298.1	4446.6	4652.9	4881.2	4969.3	5125.8	5215.0	4722.4
20°	4030.4	4042.0	4040.8	4082.5	4215.9	4436.1	4705.0	4810.5	5000.6	5172.1	4644.7
22.5°	4001.4	4001.4	3971.3	3965.5	4044.2	4228.6	4521.9	4650.5	4888.2	5153.6	4590.3
25°	4104.6	4099.9	4024.6	3963.1	3966.6	4076.8	4344.5	4497.5	4793.1	5166.3	4561.2
27.5°	4322.5	4316.6	4221.6	4104.6	4010.7	4009.6	4210.1	4374.6	4717.7	5226.7	4572.9
30°	4623.8	4621.6	4518.4	4371.2	4200.7	4044.2	4163.7	4313.2	4669.1	5335.6	4599.5
32.5°	4953.0	4949.5	4871.9	4716.6	4501.0	4200.7	4212.4	4337.5	4683.0	5480.5	4664.5
35°	5302.0	5296.1	5262.6	5126.9	4889.3	4489.4	4372.3	4469.7	4771.0	5697.2	4791.9
37.5°	5679.8	5685.7	5710.0	5580.2	5330.9	4893.9	4640.1	4706.2	4948.4	5991.6	4999.5
40°	6237.4	6236.2	6244.4	6074.0	5834.0	5388.9	5014.5	5035.4	5245.2	6382.3	5314.7
42.5°	7249.3	7178.7	6964.1	6616.4	6375.3	5954.6	5486.3	5464.3	5608.0	6865.6	5756.3
45°	8609.1	8458.4	7902.0	7235.4	6927.1	6592.1	6067.0	5996.3	6087.9	7446.4	6301.2
47.5°	9778.6	9622.2	8835.0	7879.9	7512.4	7197.2	6747.4	6619.9	6650.1	8096.7	6992.0
50°	10176.2	10099.7	9412.4	8441.0	8079.3	7958.8	7536.8	7381.5	7338.6	8848.9	7792.9
52.5°	10038.3	10032.5	9574.6	8804.9	8598.6	8746.9	8530.2	8350.6	8192.9	9641.8	8607.8
55°	9816.8	9845.8	9640.7	9123.7	9116.7	9466.8	9888.8	9739.2	9282.5	10503.0	9310.3
57.5°	9206.0	9330.0	9603.6	9726.4	10011.6	10369.8	11020.0	11108.1	10568.0	11162.6	9893.4
60°	7469.6	7742.0	8636.9	9813.4	11165.0	12057.5	12385.6	12460.9	11622.9	11710.9	10680.4
62.5°	5302.0	5580.2	6715.0	8705.2	11182.4	14275.0	14419.8	14124.3	12784.3	12523.5	12037.8
65°	2814.4	3028.9	3956.2	6283.8	9695.1	14789.6	17977.3	17096.4	14833.7	14121.9	13791.6
67.5°	1439.7	1504.6	1873.2	3075.2	6665.1	13136.7	21166.2	21786.3	18365.6	15707.7	13707.0
69°	1273.9	1312.1	1556.7	2223.3	4268.0	11126.7	21321.5	23396.3	20214.4	15575.6	12456.3
70°	1233.4	1266.9	1489.5	2012.2	3336.0	9331.2	20726.8	23254.9	20687.4	15072.5	11522.0
72.5°	1046.7	1075.7	1326.1	1778.1	2711.2	4632.0	16836.7	19705.6	18563.8	12555.9	8340.1
75°	700.1	795.1	1272.8	1666.9	2522.3	2631.2	11100.0	14240.2	13228.3	8468.8	4344.5
77.5°	168.1	180.9	359.4	1326.1	2306.8	2316.0	5708.8	8852.4	7220.4	3018.4	1027.0
80°	90.4	87.0	100.9	263.1	2147.9	2173.5	2569.9	4297.0	2577.9	500.7	338.5
82.5°	63.7	60.3	65.0	110.1	675.8	1979.8	1859.3	1945.0	1068.8	192.4	151.8
85°	23.2	22.0	35.9	99.7	212.2	1138.3	1910.3	1604.3	865.9	88.1	111.3
87.5°	8.1	7.0	13.9	54.5	65.0	484.6	1178.8	1212.5	340.7	53.3	52.2
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°	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6	5335.6
2.5°	5288.0	5216.2	5084.1	4948.4	4823.2	4672.5	4597.2	4523.0	4491.7	4480.1	4425.7
5°	5135.0	5013.4	4732.8	4451.2	4191.5	3915.7	3733.7	3587.6	3501.8	3460.0	3394.0
7.5°	4939.1	4739.7	4314.4	3879.6	3475.2	3076.4	2780.8	2553.6	2397.1	2321.8	2253.4
10°	4749.0	4483.6	3878.5	3286.2	2736.8	2208.1	1800.2	1504.6	1315.6	1228.7	1173.0
12.5°	4578.6	4234.4	3457.8	2707.8	2018.1	1399.1	984.1	748.8	631.8	591.2	571.4
15°	4426.8	4004.9	3060.2	2158.3	1366.7	799.8	537.9	457.9	439.4	439.4	437.0
17.5°	4283.1	3780.0	2676.4	1642.6	857.7	489.2	409.2	398.7	398.7	403.3	403.3
20°	4145.1	3565.6	2305.5	1178.8	540.1	388.3	369.8	367.4	369.8	375.5	375.5
22.5°	4026.9	3370.8	1959.0	809.1	401.1	350.1	340.7	337.3	338.5	342.0	344.2
25°	3938.8	3206.2	1632.1	548.3	345.5	318.8	308.3	302.6	297.9	297.9	300.2
27.5°	3883.1	3067.1	1315.6	398.7	310.7	289.8	273.5	264.3	253.9	248.1	250.4
30°	3842.6	2934.9	1018.9	325.7	278.2	257.4	236.5	221.4	206.3	199.4	201.7
32.5°	3827.6	2828.4	761.6	287.4	249.2	226.1	200.5	180.9	164.6	158.8	160.0
35°	3868.1	2743.8	557.5	259.6	226.1	197.0	168.1	146.1	133.3	129.8	130.9
37.5°	3974.8	2698.5	417.3	236.5	205.2	172.7	140.2	119.4	111.3	111.3	112.4
40°	4176.4	2697.3	335.0	220.2	186.6	149.6	115.9	100.9	96.3	98.5	99.7
42.5°	4470.8	2758.8	292.2	205.2	170.4	127.5	96.3	85.8	84.6	87.0	88.1
45°	4873.0	2871.2	268.9	192.4	153.0	106.6	81.1	74.2	74.2	77.6	78.9
47.5°	5365.7	3035.8	249.2	179.6	135.6	89.3	69.6	65.0	66.1	69.6	70.7
50°	5959.2	3243.3	229.6	165.7	122.9	74.2	60.3	56.8	58.0	62.6	63.7
52.5°	6635.0	3522.6	213.3	153.0	106.6	61.5	51.0	48.7	51.0	55.6	56.8
55°	7214.6	3773.1	193.5	142.6	85.8	51.0	41.7	41.7	44.1	49.8	51.0
57.5°	7772.1	4035.0	176.2	122.9	67.2	40.6	34.8	35.9	39.4	45.2	46.3
60°	8590.5	4479.0	155.3	103.2	51.0	32.4	28.9	30.2	34.8	40.6	41.7
62.5°	9980.3	5154.8	134.4	85.8	39.4	25.5	23.2	25.5	31.3	38.3	39.4
65°	11234.6	5429.5	110.1	71.9	30.2	19.7	19.7	23.2	30.2	37.1	38.3
67.5°	10535.6	4570.5	85.8	56.8	23.2	15.0	16.3	22.0	28.9	37.1	38.3
69°	9317.2	3737.1	73.0	45.2	19.7	13.9	15.0	22.0	28.9	35.9	37.1
70°	8367.9	3155.2	65.0	38.3	17.4	13.9	15.0	20.9	28.9	35.9	37.1
72.5°	5604.5	1703.9	52.2	27.8	16.3	12.8	12.8	20.9	27.8	34.8	35.9
75°	2408.7	470.7	41.7	19.7	13.9	11.6	11.6	19.7	26.7	33.7	35.9
77.5°	440.5	119.4	33.7	17.4	13.9	11.6	10.4	18.5	25.5	32.4	33.7
80°	175.0	59.1	26.7	15.0	12.8	10.4	9.3	17.4	24.3	31.3	32.4
82.5°	105.5	33.7	22.0	13.9	12.8	9.3	8.1	15.0	23.2	30.2	31.3
85°	85.8	23.2	17.4	13.9	11.6	9.3	7.0	13.9	20.9	28.9	30.2
87.5°	41.7	16.3	16.3	12.8	11.6	9.3	7.0	12.8	19.7	27.8	28.9
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)