

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: P191132

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191132
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-04-LED-E1-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 20983.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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

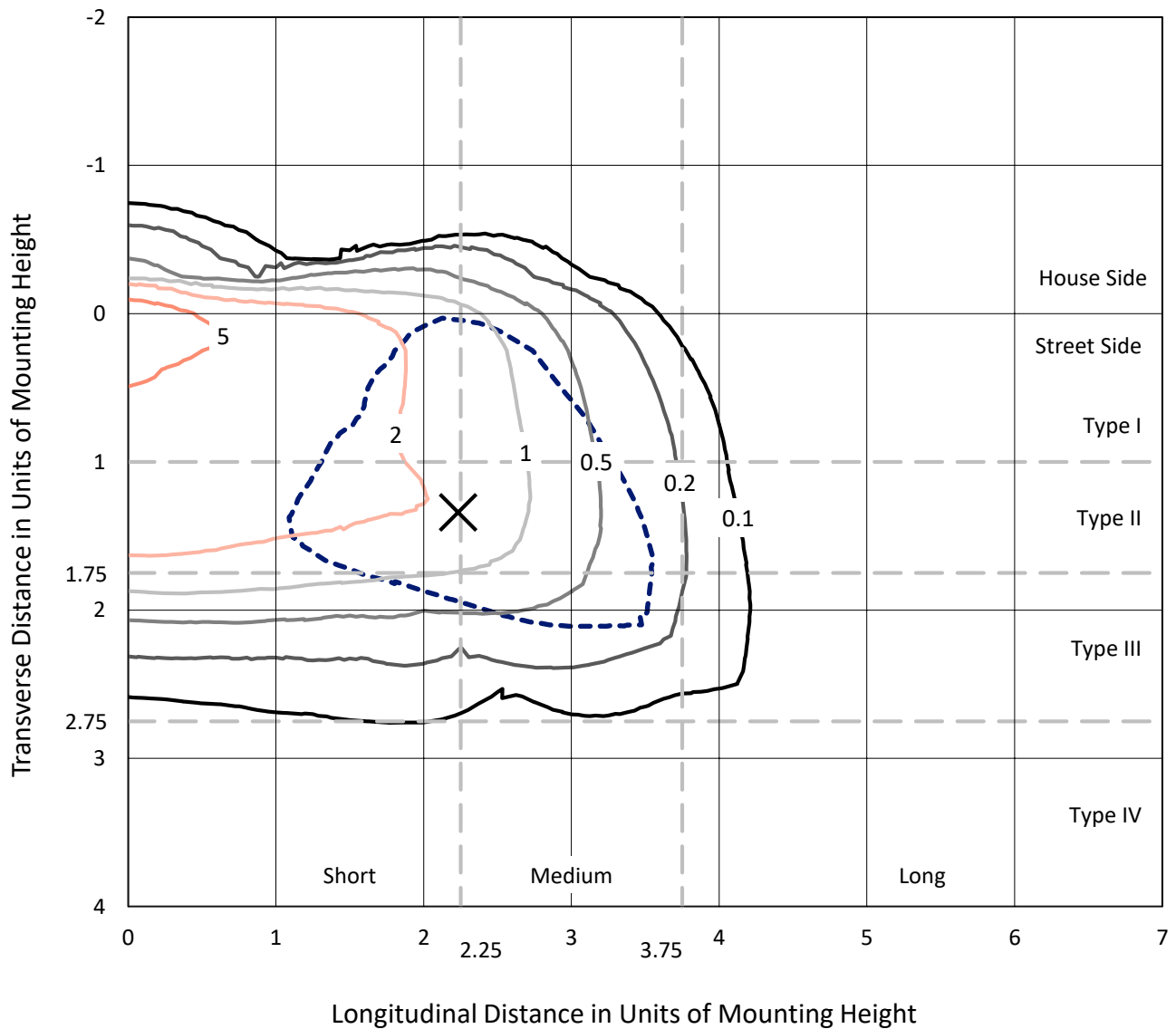


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

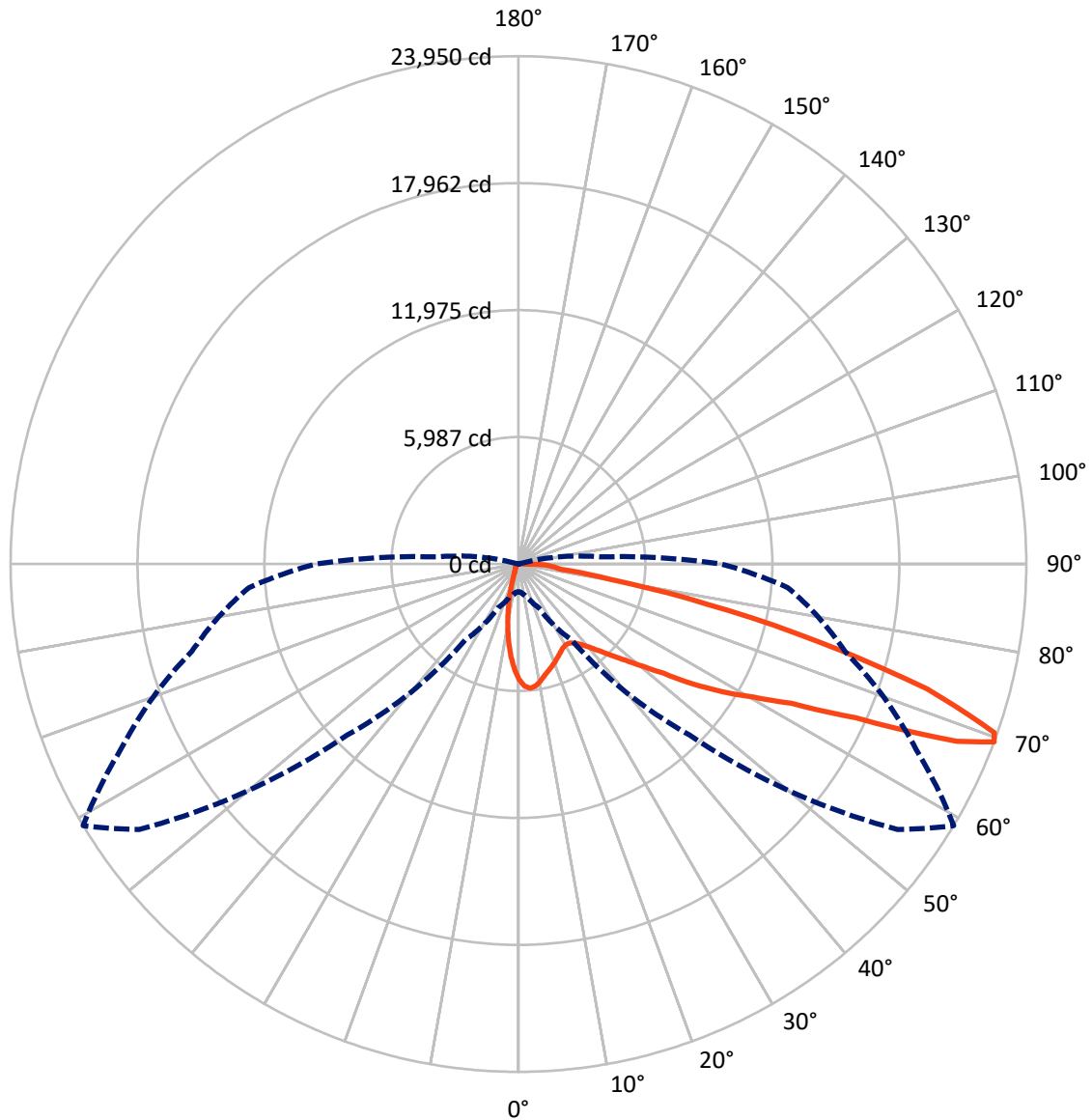


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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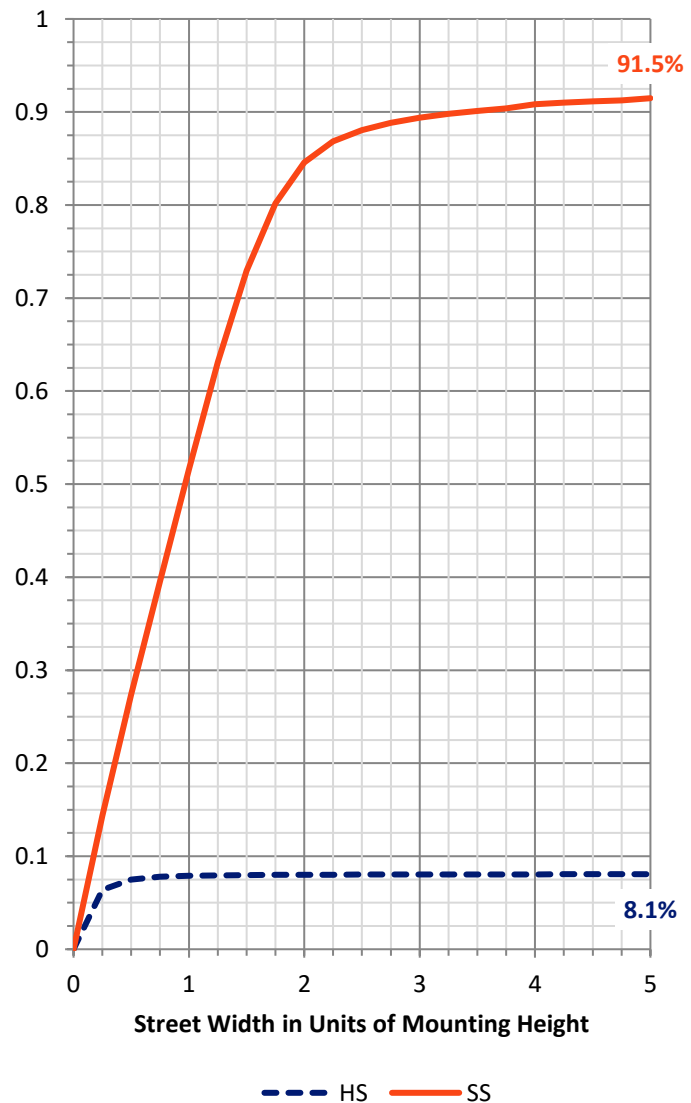
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1708.9	0.0	1708.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	19275.0	0.0	19275.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	20983.8	0.0	20983.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.3	2.1
10°-20°	916.0	4.4
20°-30°	1232.7	5.9
30°-40°	1789.8	8.5
40°-50°	2980.1	14.2
50°-60°	4648.9	22.2
60°-70°	5752.6	27.4
70°-80°	2915.4	13.9
80°-90°	305.1	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°	20983.8	100.0
0°-180°	20983.8	100.0



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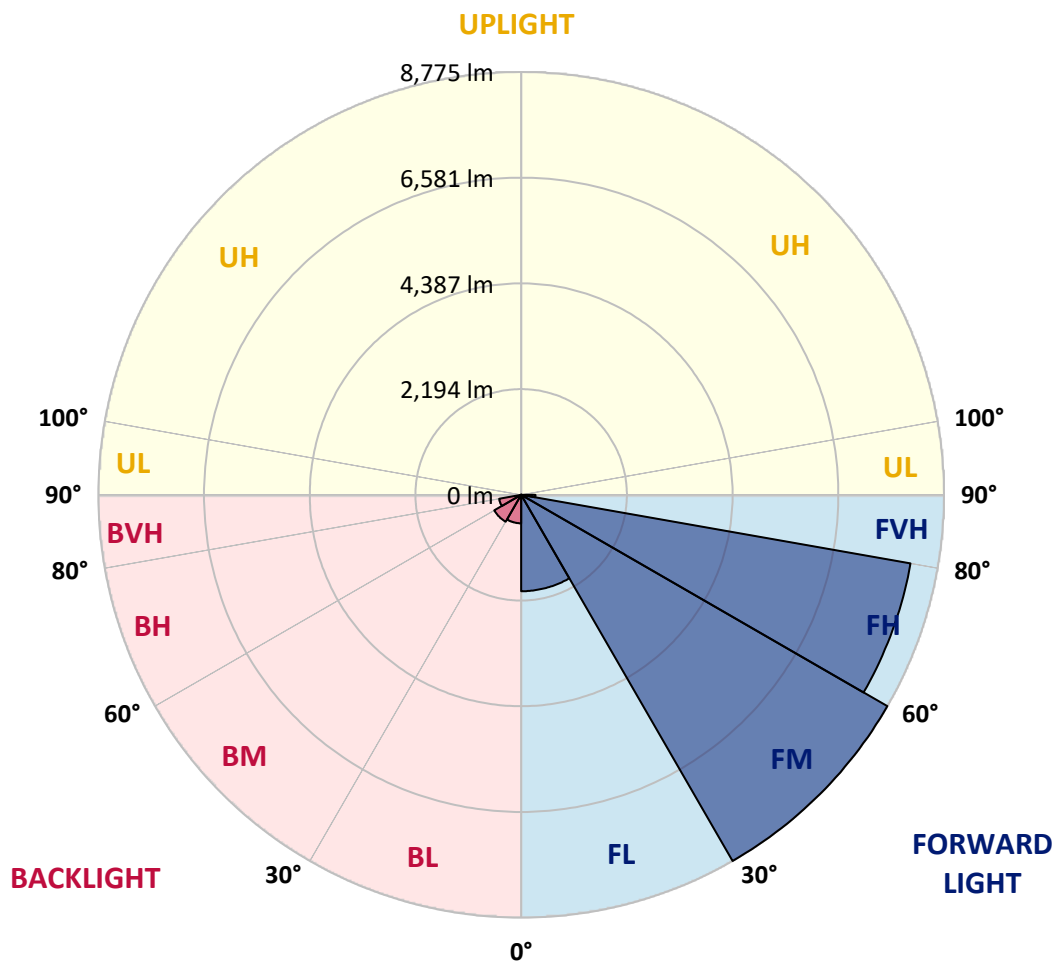
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2000.6	9.5			
FM	(30°-60°)	8774.8	41.8			
FH	(60°-80°)	8203.9	39.1			G4/12000
FVH	(80°-90°)	295.7	1.4			G3/500
BL	(0°-30°)	591.5	2.8	B2/1000		
BM	(30°-60°)	643.9	3.1	B1/1000		
BH	(60°-80°)	464.1	2.2	B1/500		G1/500
BVH	(80°-90°)	9.4	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°	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8
2.5°	5986.2	5983.9	5957.8	5945.9	5924.5	5879.5	5809.4	5772.7	5713.4	5610.1	5471.3
5°	5931.7	5960.1	5975.6	5976.8	5992.1	5975.6	5912.7	5881.9	5799.9	5633.8	5384.7
7.5°	5561.5	5572.1	5616.0	5654.1	5727.6	5797.6	5820.2	5807.1	5758.4	5580.4	5249.4
10°	5165.2	5175.8	5228.0	5277.9	5377.6	5485.5	5599.4	5623.2	5643.3	5504.5	5118.8
12.5°	4823.4	4834.1	4887.5	4952.7	5069.0	5201.9	5378.8	5417.9	5506.9	5432.2	5014.4
15°	4529.1	4533.9	4586.1	4666.8	4805.6	4976.5	5177.1	5239.9	5376.3	5381.1	4923.1
17.5°	4278.8	4290.7	4322.7	4399.8	4551.7	4762.9	4996.6	5086.8	5247.0	5338.4	4834.1
20°	4125.7	4137.5	4136.4	4179.1	4315.5	4541.0	4816.3	4924.3	5118.8	5294.5	4754.6
22.5°	4096.0	4096.0	4065.2	4059.3	4140.0	4328.6	4628.9	4760.5	5003.8	5275.5	4698.8
25°	4201.7	4196.9	4119.7	4056.9	4060.4	4173.1	4447.3	4603.9	4906.5	5288.6	4669.2
27.5°	4424.8	4418.8	4321.5	4201.7	4105.5	4104.4	4309.6	4478.2	4829.4	5350.2	4681.0
30°	4733.2	4730.8	4625.3	4474.6	4300.2	4140.0	4262.1	4415.3	4779.5	5461.8	4708.3
32.5°	5070.3	5066.7	4987.2	4828.1	4607.5	4300.2	4312.0	4440.1	4793.8	5610.1	4774.7
35°	5427.4	5421.4	5387.1	5248.2	5005.0	4595.6	4475.7	4575.5	4884.0	5832.0	4905.3
37.5°	5814.2	5820.2	5845.0	5712.2	5457.0	5009.7	4749.9	4817.5	5065.4	6133.4	5117.7
40°	6385.0	6383.7	6392.1	6217.6	5972.0	5516.4	5133.1	5154.4	5369.3	6533.3	5440.5
42.5°	7420.8	7348.5	7128.9	6773.0	6526.1	6095.5	5616.0	5593.5	5740.6	7028.1	5892.5
45°	8812.6	8658.5	8088.9	7406.6	7091.0	6748.0	6210.5	6138.1	6231.9	7622.5	6450.2
47.5°	10009.9	9849.7	9044.0	8066.3	7690.1	7367.4	6907.1	6776.5	6807.3	8288.3	7157.4
50°	10416.9	10338.6	9635.0	8640.7	8270.5	8147.0	7715.1	7556.1	7512.1	9058.3	7977.3
52.5°	10275.7	10269.8	9801.1	9013.2	8802.0	8953.9	8732.0	8548.1	8386.7	9869.9	8811.5
55°	10049.1	10078.7	9868.7	9339.5	9332.4	9690.7	10122.6	9969.6	9502.1	10751.5	9530.5
57.5°	9423.7	9550.7	9830.8	9956.5	10248.4	10615.1	11280.7	11370.9	10818.0	11426.7	10127.4
60°	7646.3	7925.1	8841.2	10045.5	11429.0	12342.7	12678.6	12755.7	11897.7	11988.0	10933.1
62.5°	5427.4	5712.2	6873.8	8911.1	11446.8	14612.6	14761.0	14458.4	13086.7	12819.7	12322.6
65°	2881.0	3100.5	4049.8	6432.4	9924.5	15139.5	18402.6	17500.7	15184.6	14456.0	14117.8
67.5°	1473.8	1540.2	1917.5	3147.9	6822.8	13447.4	21666.8	22301.7	18800.0	16079.3	14031.2
69°	1304.1	1343.2	1593.6	2275.9	4368.9	11389.9	21825.8	23949.7	20692.7	15943.9	12750.9
70°	1262.5	1296.9	1524.7	2059.9	3414.9	9551.9	21217.1	23805.0	21176.7	15429.0	11794.5
72.5°	1071.4	1101.1	1357.5	1820.2	2775.4	4741.6	17235.0	20171.8	19002.9	12853.0	8537.3
75°	716.7	814.0	1302.8	1706.3	2582.0	2693.5	11362.6	14577.0	13541.2	8669.1	4447.3
77.5°	172.1	185.2	367.9	1357.5	2361.3	2370.8	5843.9	9061.8	7391.1	3089.8	1051.3
80°	92.6	89.0	103.2	269.3	2198.7	2224.8	2630.6	4398.6	2638.9	512.6	346.5
82.5°	65.3	61.7	66.5	112.7	691.8	2026.7	1903.3	1991.1	1094.0	197.0	155.5
85°	23.7	22.5	36.8	102.1	217.2	1165.2	1955.5	1642.2	886.4	90.2	114.0
87.5°	8.3	7.2	14.2	55.8	66.5	496.0	1206.8	1241.1	348.8	54.6	53.4
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°	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8	5461.8
2.5°	5413.1	5339.6	5204.3	5065.4	4937.4	4783.1	4706.0	4630.0	4598.0	4586.1	4530.3
5°	5256.5	5131.9	4844.8	4556.4	4290.7	4008.2	3821.9	3672.4	3584.6	3542.0	3474.2
7.5°	5055.9	4851.9	4416.4	3971.5	3557.3	3149.2	2846.6	2614.0	2453.9	2376.7	2306.7
10°	4861.4	4589.7	3970.3	3364.0	2801.5	2260.4	1842.7	1540.2	1346.7	1257.7	1200.8
12.5°	4687.0	4334.5	3539.5	2771.8	2065.8	1432.2	1007.4	766.5	646.7	605.2	585.0
15°	4531.5	4099.6	3132.6	2209.4	1399.0	818.8	550.6	468.7	449.7	449.7	447.3
17.5°	4384.4	3869.4	2739.8	1681.3	878.1	500.7	418.9	408.2	408.2	413.0	413.0
20°	4243.2	3649.9	2360.0	1206.8	552.9	397.5	378.5	376.1	378.5	384.4	384.4
22.5°	4122.2	3450.5	2005.3	828.2	410.5	358.3	348.8	345.2	346.5	350.1	352.4
25°	4032.0	3282.0	1670.7	561.3	353.6	326.3	315.6	309.6	304.9	304.9	307.3
27.5°	3975.0	3139.6	1346.7	408.2	318.0	296.7	280.0	270.6	259.8	253.9	256.2
30°	3933.5	3004.4	1043.0	333.4	284.8	263.4	242.0	226.7	211.2	204.1	206.4
32.5°	3918.1	2895.3	779.6	294.3	255.1	231.4	205.3	185.2	168.5	162.5	163.8
35°	3959.6	2808.6	570.7	265.8	231.4	201.7	172.1	149.6	136.5	132.9	134.1
37.5°	4068.8	2762.4	427.2	242.0	210.0	176.8	143.6	122.2	114.0	114.0	115.1
40°	4275.2	2761.1	342.9	225.5	191.1	153.0	118.7	103.2	98.5	100.9	102.1
42.5°	4576.6	2824.1	299.0	210.0	174.4	130.5	98.5	87.8	86.6	89.0	90.2
45°	4988.3	2939.1	275.3	197.0	156.6	109.1	83.1	75.9	75.9	79.5	80.7
47.5°	5492.6	3107.6	255.1	183.9	138.8	91.3	71.2	66.5	67.6	71.2	72.4
50°	6100.2	3320.0	235.0	169.7	125.8	75.9	61.7	58.1	59.3	64.0	65.3
52.5°	6792.0	3606.0	218.3	156.6	109.1	62.9	52.2	49.8	52.2	57.0	58.1
55°	7385.2	3862.3	198.1	146.0	87.8	52.2	42.8	42.8	45.1	51.0	52.2
57.5°	7956.0	4130.5	180.3	125.8	68.8	41.5	35.6	36.8	40.3	46.2	47.5
60°	8793.7	4584.9	159.0	105.6	52.2	33.2	29.7	30.9	35.6	41.5	42.8
62.5°	10216.4	5276.7	137.7	87.8	40.3	26.1	23.7	26.1	32.0	39.2	40.3
65°	11500.2	5557.9	112.7	73.6	30.9	20.2	20.2	23.7	30.9	38.0	39.2
67.5°	10784.8	4678.7	87.8	58.1	23.7	15.4	16.6	22.5	29.7	38.0	39.2
69°	9537.7	3825.5	74.8	46.2	20.2	14.2	15.4	22.5	29.7	36.8	38.0
70°	8565.9	3229.9	66.5	39.2	17.8	14.2	15.4	21.4	29.7	36.8	38.0
72.5°	5737.1	1744.2	53.4	28.4	16.6	13.1	13.1	21.4	28.4	35.6	36.8
75°	2465.7	481.7	42.8	20.2	14.2	11.9	11.9	20.2	27.3	34.4	36.8
77.5°	450.9	122.2	34.4	17.8	14.2	11.9	10.6	19.0	26.1	33.2	34.4
80°	179.2	60.6	27.3	15.4	13.1	10.6	9.5	17.8	25.0	32.0	33.2
82.5°	108.0	34.4	22.5	14.2	13.1	9.5	8.3	15.4	23.7	30.9	32.0
85°	87.8	23.7	17.8	14.2	11.9	9.5	7.2	14.2	21.4	29.7	30.9
87.5°	42.8	16.6	16.6	13.1	11.9	9.5	7.2	13.1	20.2	28.4	29.7
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)