

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: P269240

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269240
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-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 17821.7 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

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

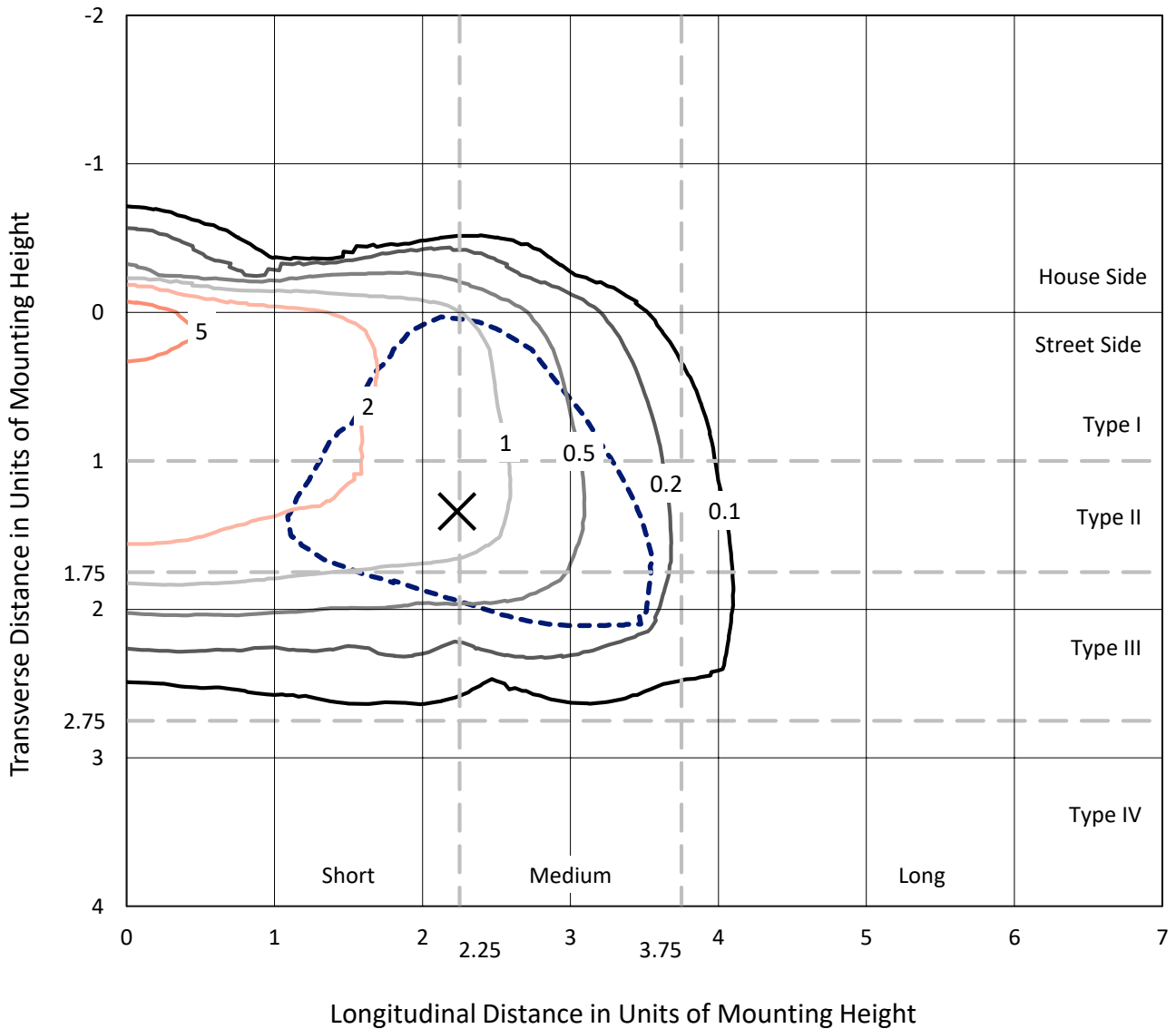


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

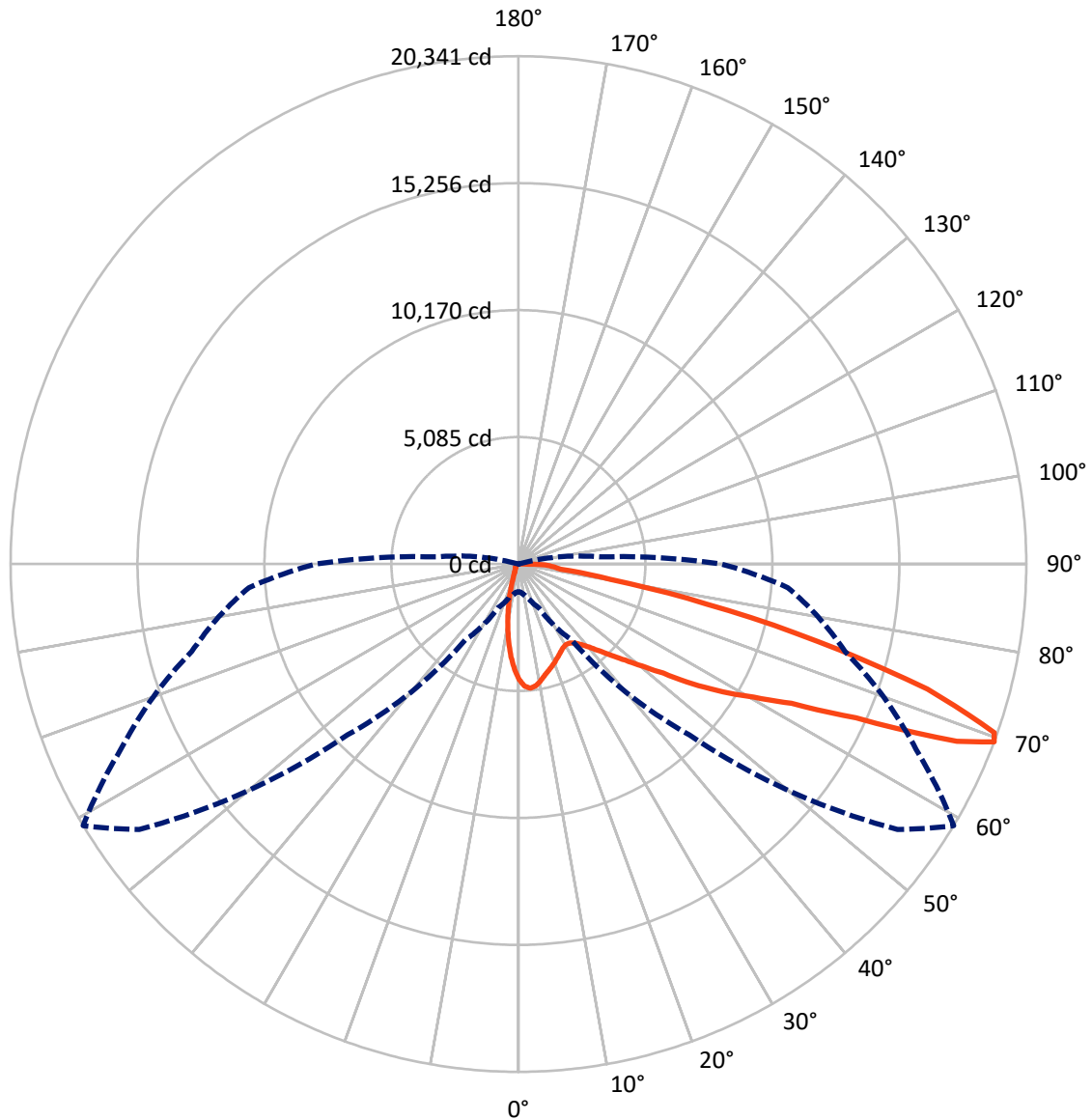


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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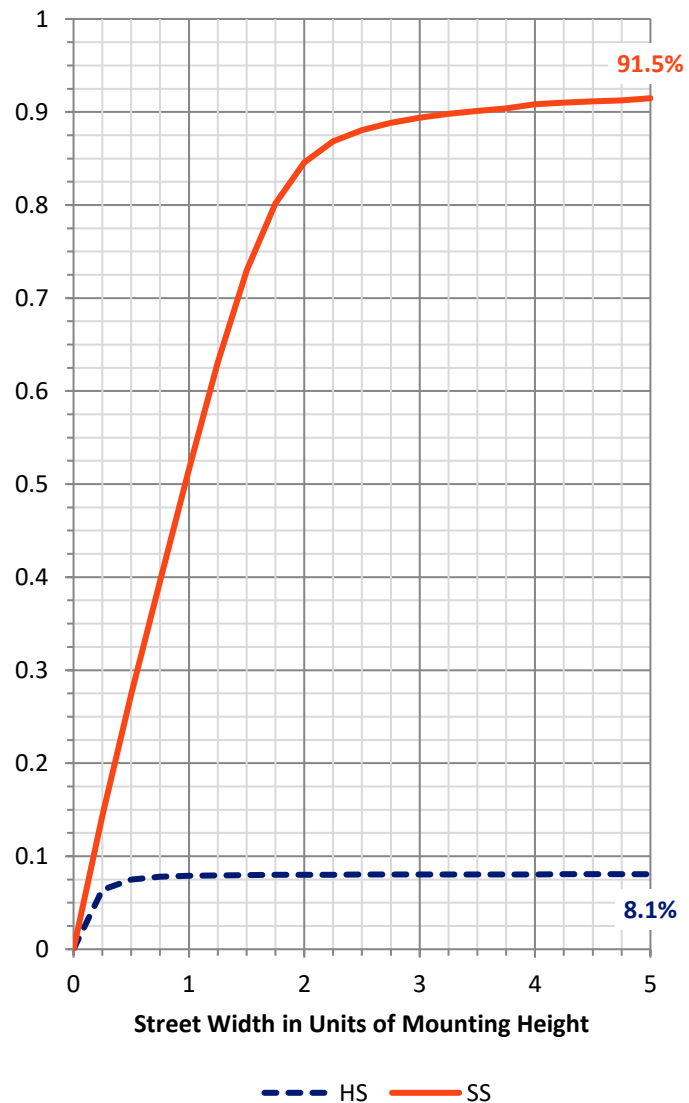
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1451.3	0.0	1451.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	16370.4	0.0	16370.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	17821.7	0.0	17821.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	2.1
10°-20°	778.0	4.4
20°-30°	1046.9	5.9
30°-40°	1520.1	8.5
40°-50°	2531.0	14.2
50°-60°	3948.3	22.2
60°-70°	4885.7	27.4
70°-80°	2476.1	13.9
80°-90°	259.1	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°	17821.7	100.0
0°-180°	17821.7	100.0



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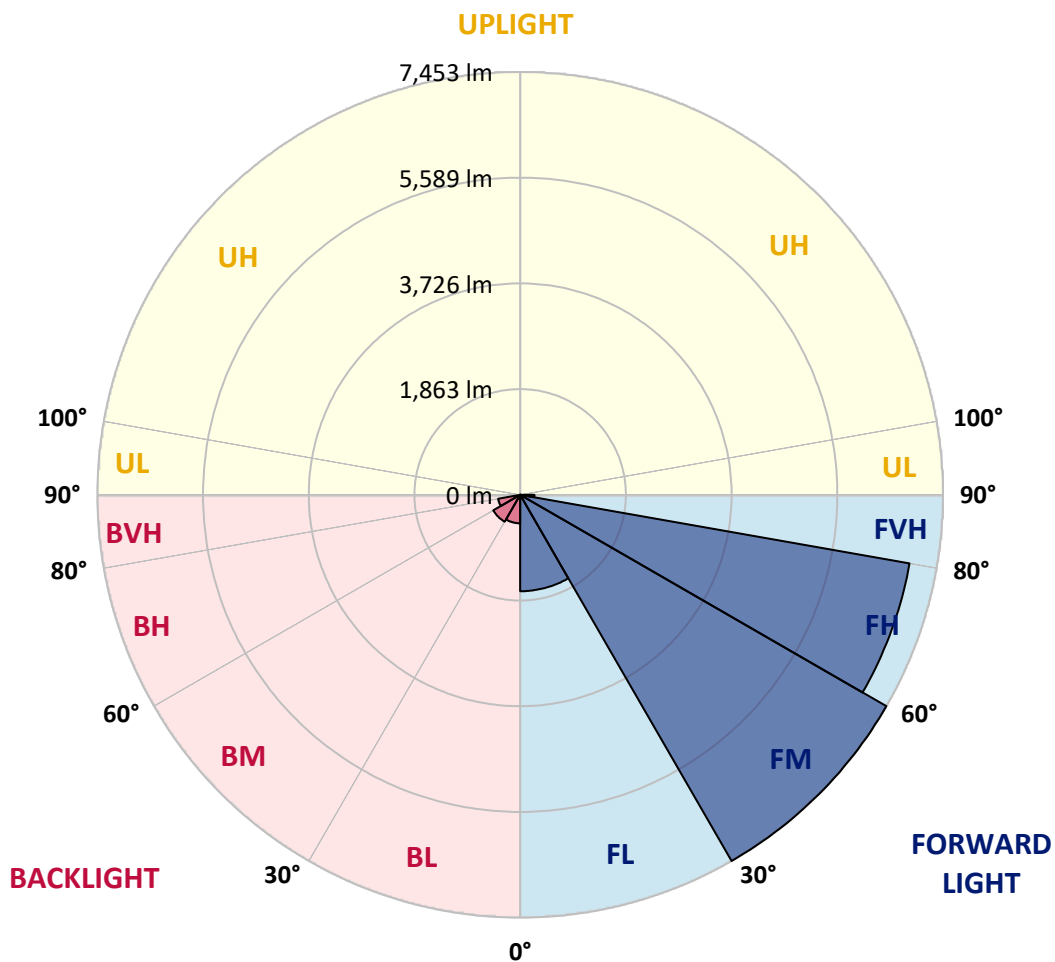
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1699.1	9.5			
FM	(30°-60°)	7452.5	41.8			
FH	(60°-80°)	6967.7	39.1			G3/7500
FVH	(80°-90°)	251.1	1.4			G3/500
BL	(0°-30°)	502.4	2.8	B2/1000		
BM	(30°-60°)	546.9	3.1	B1/1000		
BH	(60°-80°)	394.2	2.2	B1/500		G1/500
BVH	(80°-90°)	8.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8
2.5°	5084.1	5082.3	5060.1	5049.9	5031.8	4993.5	4934.0	4902.8	4852.5	4764.7	4646.8
5°	5037.9	5061.9	5075.2	5076.1	5089.2	5075.2	5021.7	4995.6	4925.9	4784.9	4573.2
7.5°	4723.4	4732.5	4769.8	4802.0	4864.5	4924.0	4943.2	4932.1	4890.7	4739.5	4458.4
10°	4386.9	4395.9	4440.2	4482.5	4567.3	4658.9	4755.6	4775.7	4792.9	4675.0	4347.4
12.5°	4096.6	4105.7	4151.0	4206.5	4305.1	4418.0	4568.2	4601.5	4677.0	4613.5	4258.9
15°	3846.6	3850.7	3895.1	3963.5	4081.4	4226.5	4396.8	4450.4	4566.2	4570.2	4181.3
17.5°	3634.1	3644.1	3671.4	3736.8	3865.8	4045.2	4243.8	4320.3	4456.3	4533.9	4105.7
20°	3504.0	3514.1	3513.1	3549.4	3665.3	3856.8	4090.5	4182.1	4347.4	4496.6	4038.2
22.5°	3478.9	3478.9	3452.6	3447.5	3516.1	3676.4	3931.3	4043.1	4249.7	4480.6	3990.8
25°	3568.4	3564.5	3499.0	3445.5	3448.6	3544.4	3777.2	3910.1	4167.1	4491.6	3965.6
27.5°	3758.0	3752.8	3670.2	3568.4	3487.0	3485.9	3660.2	3803.3	4101.7	4544.0	3975.7
30°	4019.9	4017.9	3928.3	3800.3	3652.1	3516.1	3619.9	3750.0	4059.4	4638.8	3998.9
32.5°	4306.1	4303.2	4235.7	4100.7	3913.1	3652.1	3662.2	3771.1	4071.4	4764.7	4055.3
35°	4609.6	4604.5	4575.2	4457.4	4250.8	3903.0	3801.3	3886.0	4148.0	4953.2	4166.1
37.5°	4938.1	4943.2	4964.3	4851.3	4634.7	4254.8	4034.1	4091.5	4302.2	5209.1	4346.4
40°	5422.8	5421.8	5428.8	5280.6	5072.1	4685.1	4359.7	4377.7	4560.2	5548.8	4620.6
42.5°	6302.6	6241.2	6054.7	5752.3	5542.7	5176.9	4769.8	4750.5	4875.6	5969.0	5004.5
45°	7484.7	7353.6	6870.0	6290.6	6022.3	5731.1	5274.7	5213.1	5292.9	6473.8	5478.3
47.5°	8501.5	8365.5	7681.1	6850.8	6531.3	6257.2	5866.2	5755.4	5781.5	7039.3	6078.8
50°	8847.1	8780.7	8183.1	7338.6	7024.1	6919.4	6552.4	6417.4	6380.2	7693.4	6775.2
52.5°	8727.3	8722.3	8324.1	7654.9	7475.6	7604.6	7416.1	7259.9	7122.9	8382.7	7483.7
55°	8534.7	8559.9	8381.5	7932.2	7926.0	8230.5	8597.3	8467.2	8070.3	9131.5	8094.4
57.5°	8003.7	8111.5	8349.3	8456.1	8704.0	9015.5	9580.9	9657.4	9187.9	9704.7	8601.4
60°	6494.0	6730.9	7508.9	8531.7	9706.8	10482.9	10768.1	10833.5	10104.9	10181.5	9285.6
62.5°	4609.6	4851.3	5837.9	7568.3	9721.9	12410.7	12536.7	12279.7	11114.6	10887.8	10465.7
65°	2446.9	2633.3	3439.5	5463.1	8428.9	12858.1	15629.5	14863.5	12896.3	12277.7	11990.3
67.5°	1251.7	1308.1	1628.5	2673.6	5794.6	11421.1	18401.8	18941.0	15967.1	13656.3	11916.8
69°	1107.5	1140.8	1353.4	1933.0	3710.5	9673.6	18536.9	20340.9	17574.4	13541.4	10829.4
70°	1072.2	1101.5	1294.9	1749.4	2900.4	8112.6	18019.9	20217.9	17985.7	13103.9	10017.2
72.5°	910.1	935.2	1152.9	1546.0	2357.2	4027.0	14637.8	17132.0	16139.4	10916.2	7250.8
75°	608.7	691.3	1106.5	1449.1	2192.9	2287.7	9650.4	12380.4	11500.6	7362.8	3777.2
77.5°	146.2	157.3	312.4	1152.9	2005.5	2013.6	4963.2	7696.3	6277.4	2624.2	892.8
80°	78.6	75.5	87.7	228.8	1867.3	1889.6	2234.3	3735.8	2241.4	435.4	294.3
82.5°	55.4	52.5	56.5	95.7	587.5	1721.2	1616.5	1691.0	929.1	167.3	132.1
85°	20.1	19.1	31.3	86.6	184.4	989.7	1660.7	1394.8	752.8	76.5	96.7
87.5°	7.0	6.1	12.0	47.4	56.5	421.2	1024.8	1054.2	296.4	46.4	45.4
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°	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8	4638.8
2.5°	4597.4	4535.0	4420.1	4302.2	4193.3	4062.3	3996.7	3932.3	3905.1	3895.1	3847.7
5°	4464.3	4358.5	4114.6	3869.8	3644.1	3404.2	3246.0	3119.1	3044.4	3008.2	2950.8
7.5°	4294.1	4120.7	3751.0	3373.0	3021.3	2674.7	2417.6	2220.2	2084.1	2018.5	1959.2
10°	4128.8	3898.0	3372.0	2857.0	2379.3	1919.8	1565.0	1308.1	1143.8	1068.3	1019.8
12.5°	3980.7	3681.3	3006.2	2354.2	1754.5	1216.3	855.5	651.0	549.3	514.0	496.9
15°	3848.7	3481.8	2660.5	1876.5	1188.2	695.4	467.6	398.0	382.0	382.0	380.0
17.5°	3723.7	3286.3	2326.9	1427.9	745.8	425.3	355.8	346.7	346.7	350.7	350.7
20°	3603.8	3100.0	2004.5	1024.8	469.6	337.7	321.5	319.4	321.5	326.5	326.5
22.5°	3501.0	2930.6	1703.1	703.5	348.7	304.3	296.4	293.2	294.3	297.2	299.3
25°	3424.3	2787.5	1419.0	476.7	300.4	277.1	268.1	263.1	259.0	259.0	261.0
27.5°	3376.0	2666.6	1143.8	346.7	270.1	252.0	237.8	229.7	220.8	215.7	217.7
30°	3340.7	2551.6	885.8	283.1	241.9	223.7	205.6	192.4	179.4	173.4	175.3
32.5°	3327.6	2458.9	662.1	249.9	216.8	196.5	174.4	157.3	143.1	138.1	139.1
35°	3363.0	2385.4	484.7	225.7	196.5	171.3	146.2	127.0	115.9	112.8	113.8
37.5°	3455.6	2346.1	362.7	205.6	178.4	150.1	121.9	103.8	96.7	96.7	97.7
40°	3630.9	2345.0	291.2	191.5	162.2	130.1	100.8	87.7	83.6	85.7	86.6
42.5°	3887.0	2398.5	254.0	178.4	148.1	110.9	83.6	74.6	73.7	75.5	76.5
45°	4236.6	2496.2	233.7	167.3	132.9	92.7	70.5	64.5	64.5	67.6	68.5
47.5°	4665.0	2639.3	216.8	156.2	117.9	77.7	60.5	56.5	57.4	60.5	61.4
50°	5181.0	2819.7	199.6	144.1	106.8	64.5	52.5	49.3	50.3	54.3	55.4
52.5°	5768.5	3062.6	185.4	132.9	92.7	53.4	44.3	42.3	44.3	48.4	49.3
55°	6272.3	3280.3	168.3	124.0	74.6	44.3	36.3	36.3	38.3	43.4	44.3
57.5°	6757.1	3508.1	153.3	106.8	58.5	35.3	30.3	31.3	34.2	39.3	40.3
60°	7468.6	3894.1	135.0	89.7	44.3	28.1	25.2	26.2	30.3	35.3	36.3
62.5°	8676.9	4481.6	116.9	74.6	34.2	22.2	20.1	22.2	27.2	33.2	34.2
65°	9767.4	4720.4	95.7	62.5	26.2	17.2	17.2	20.1	26.2	32.2	33.2
67.5°	9159.6	3973.7	74.6	49.3	20.1	13.0	14.2	19.1	25.2	32.2	33.2
69°	8100.5	3249.0	63.5	39.3	17.2	12.0	13.0	19.1	25.2	31.3	32.2
70°	7275.1	2743.2	56.5	33.2	15.1	12.0	13.0	18.1	25.2	31.3	32.2
72.5°	4872.5	1481.5	45.4	24.2	14.2	11.0	11.0	18.1	24.2	30.3	31.3
75°	2094.2	409.2	36.3	17.2	12.0	10.2	10.2	17.2	23.1	29.3	31.3
77.5°	382.9	103.8	29.3	15.1	12.0	10.2	9.1	16.1	22.2	28.1	29.3
80°	152.2	51.5	23.1	13.0	11.0	9.1	8.1	15.1	21.2	27.2	28.1
82.5°	91.6	29.3	19.1	12.0	11.0	8.1	7.0	13.0	20.1	26.2	27.2
85°	74.6	20.1	15.1	12.0	10.2	8.1	6.1	12.0	18.1	25.2	26.2
87.5°	36.3	14.2	14.2	11.0	10.2	8.1	6.1	11.0	17.2	24.2	25.2
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)