

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: P269317

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269317  
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-05-LED-E1-SL3-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 17840.4 lumens  
Efficiency: N/A  
Efficacy: 85.0 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 - G3

Input Watts (W): 210  
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

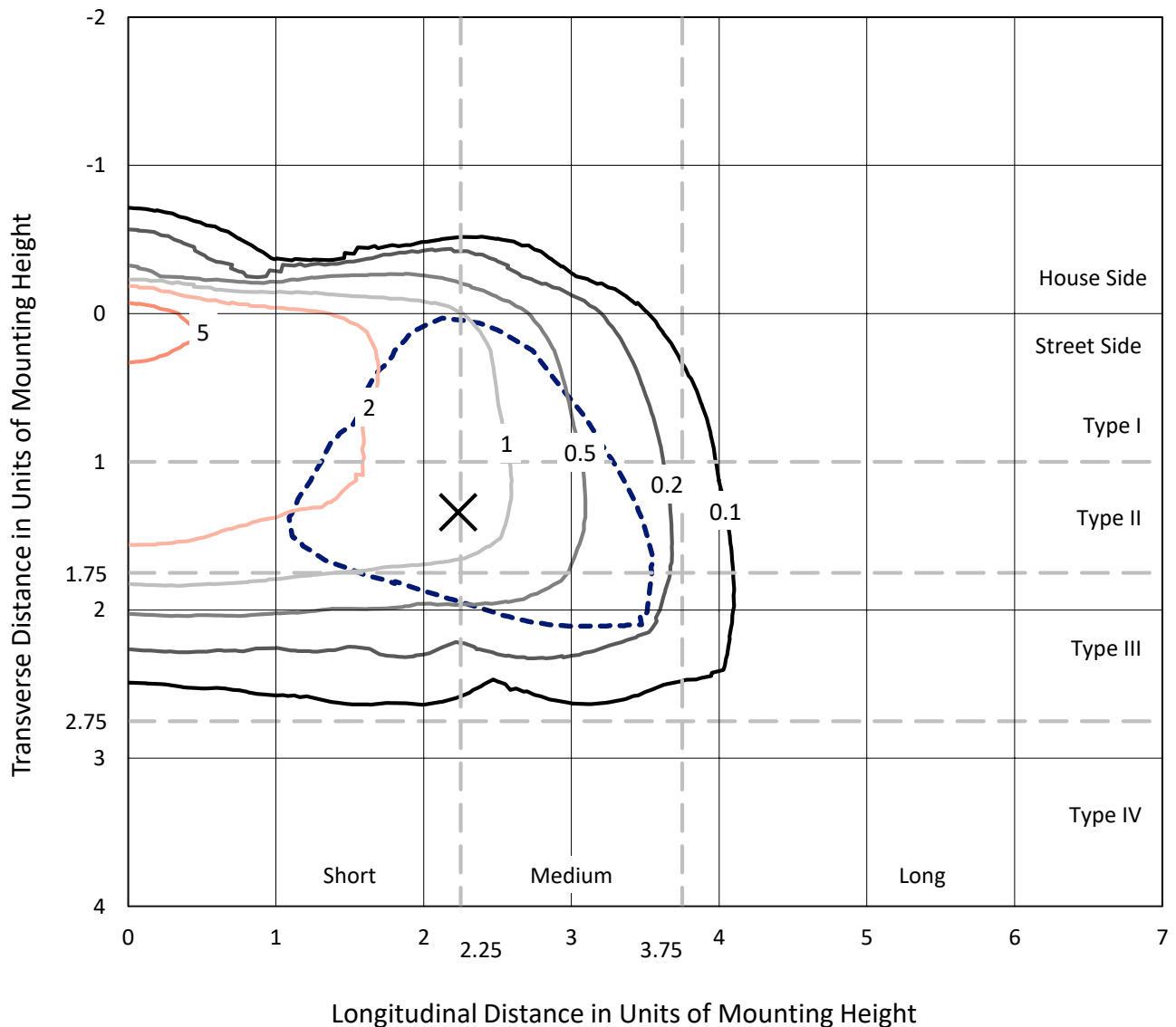


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

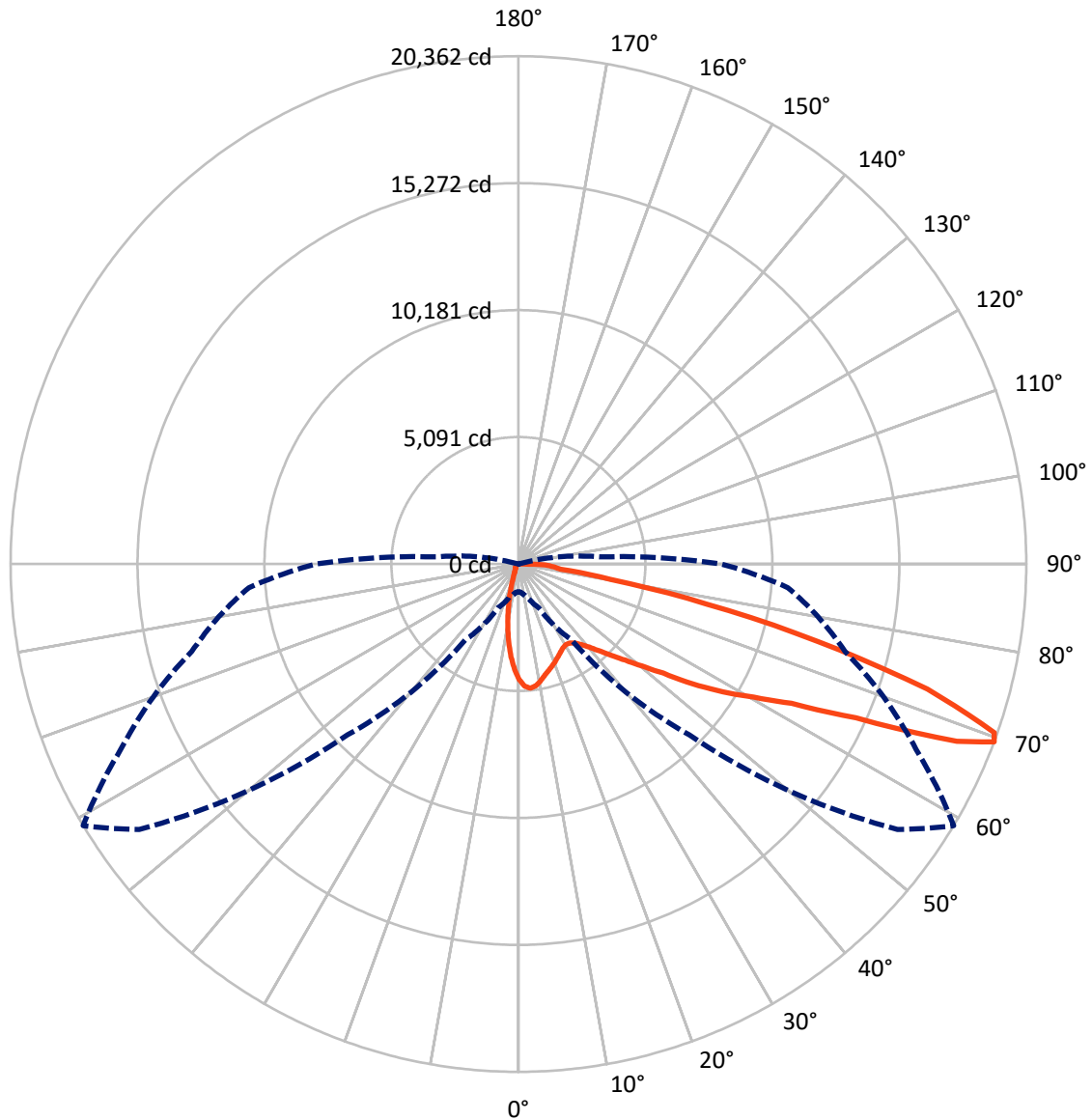


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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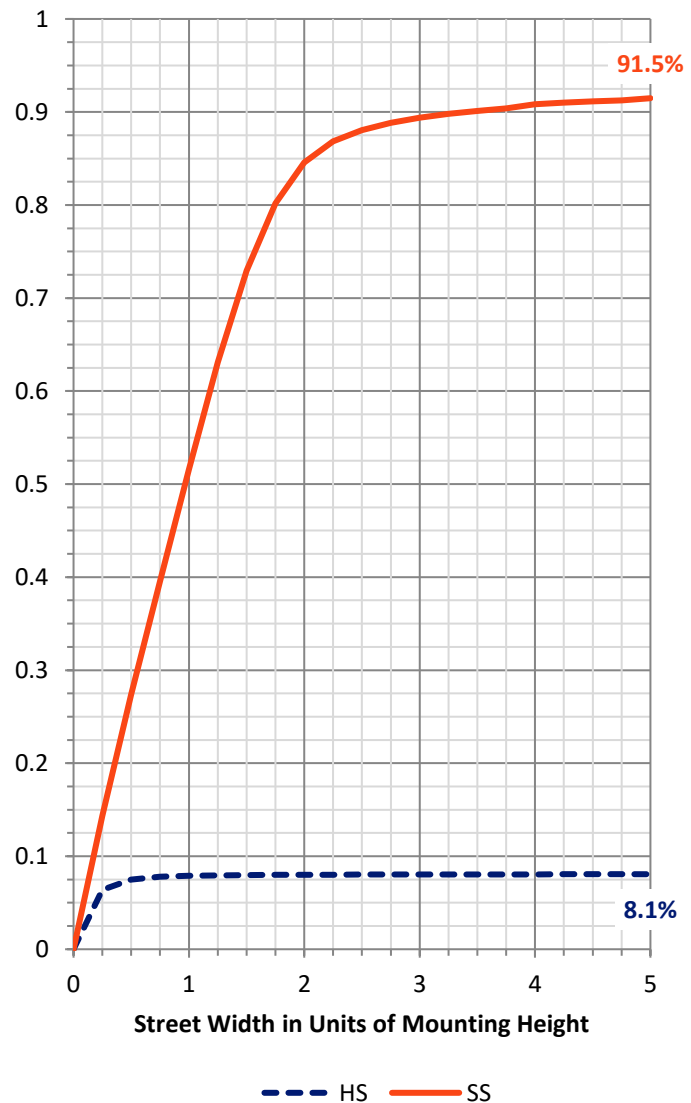
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1452.9	0.0	1452.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	16387.5	0.0	16387.5
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	17840.4	0.0	17840.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.9	2.1
10°-20°	778.8	4.4
20°-30°	1048.0	5.9
30°-40°	1521.6	8.5
40°-50°	2533.7	14.2
50°-60°	3952.5	22.2
60°-70°	4890.9	27.4
70°-80°	2478.6	13.9
80°-90°	259.4	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°	17840.4	100.0
0°-180°	17840.4	100.0



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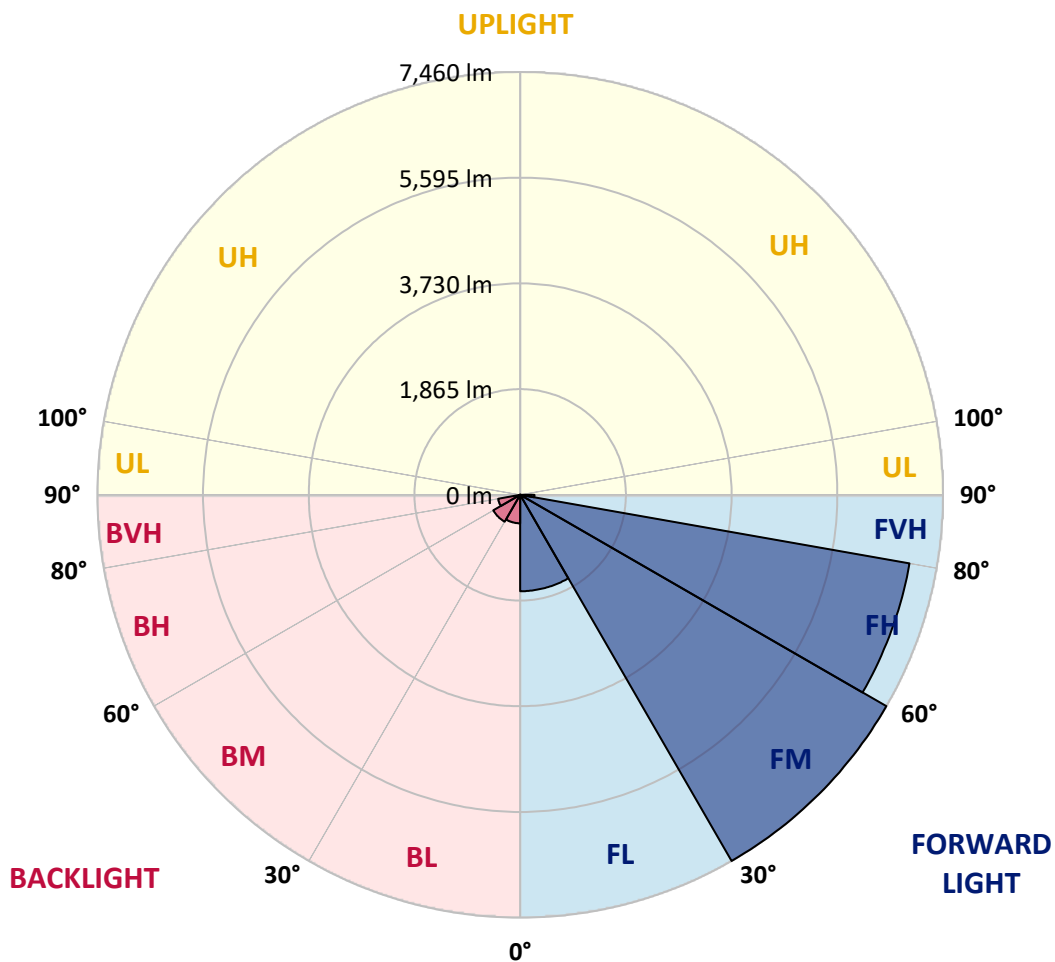
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1700.9	9.5			
FM	(30°-60°)	7460.3	41.8			
FH	(60°-80°)	6974.9	39.1			G3/7500
FVH	(80°-90°)	251.4	1.4			G3/500
BL	(0°-30°)	502.9	2.8	B2/1000		
BM	(30°-60°)	547.4	3.1	B1/1000		
BH	(60°-80°)	394.6	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°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	5089.4	5087.6	5065.4	5055.2	5037.1	4998.7	4939.2	4907.9	4857.4	4769.7	4651.7
5°	5043.2	5067.2	5080.5	5081.4	5094.6	5080.5	5026.9	5000.8	4931.2	4789.9	4578.0
7.5°	4728.4	4737.4	4774.8	4807.0	4869.6	4929.1	4948.3	4937.2	4895.9	4744.5	4463.0
10°	4391.5	4400.4	4444.9	4487.3	4572.0	4663.8	4760.7	4780.8	4797.9	4679.9	4352.1
12.5°	4100.9	4109.9	4155.3	4210.9	4309.7	4422.6	4573.0	4606.2	4682.0	4618.4	4263.3
15°	3850.7	3854.6	3899.2	3967.8	4085.8	4230.9	4401.4	4455.0	4570.9	4575.0	4185.7
17.5°	3637.7	3647.8	3675.1	3740.7	3869.9	4049.4	4248.2	4324.8	4461.1	4538.6	4109.9
20°	3507.7	3517.8	3516.8	3553.1	3669.0	3860.7	4094.8	4186.6	4352.1	4501.3	4042.4
22.5°	3482.5	3482.5	3456.1	3451.2	3519.7	3680.1	3935.5	4047.5	4254.3	4485.1	3994.9
25°	3572.2	3568.2	3502.6	3449.1	3452.1	3548.0	3781.1	3914.3	4171.5	4496.3	3969.7
27.5°	3761.9	3756.8	3674.2	3572.2	3490.5	3489.6	3664.0	3807.2	4106.0	4548.7	3979.9
30°	4024.1	4022.3	3932.4	3804.2	3656.0	3519.7	3623.8	3753.8	4063.6	4643.6	4002.9
32.5°	4310.6	4307.6	4240.1	4104.9	3917.2	3656.0	3666.1	3774.9	4075.6	4769.7	4059.5
35°	4614.4	4609.4	4580.1	4462.1	4255.2	3907.2	3805.3	3890.0	4152.3	4958.4	4170.6
37.5°	4943.3	4948.3	4969.5	4856.4	4639.6	4259.3	4038.3	4095.8	4306.7	5214.7	4351.0
40°	5428.5	5427.5	5434.6	5286.3	5077.4	4690.1	4364.1	4382.3	4564.8	5554.6	4625.5
42.5°	6309.2	6247.6	6061.0	5758.3	5548.6	5182.3	4774.8	4755.5	4880.8	5975.3	5009.8
45°	7492.6	7361.4	6877.2	6297.1	6028.7	5737.1	5280.1	5218.7	5298.4	6480.6	5484.0
47.5°	8510.5	8374.2	7689.2	6858.0	6538.1	6263.8	5872.4	5761.4	5787.6	7046.7	6085.2
50°	8856.4	8789.8	8191.6	7346.2	7031.6	6926.7	6559.3	6424.1	6386.9	7701.3	6782.4
52.5°	8736.3	8731.3	8332.9	7663.0	7483.4	7612.5	7424.0	7267.6	7130.3	8391.3	7491.5
55°	8543.7	8568.9	8390.3	7940.5	7934.4	8239.1	8606.2	8476.0	8078.6	9141.0	8102.8
57.5°	8012.1	8120.0	8358.1	8465.0	8713.2	9024.9	9590.8	9667.5	9197.4	9715.0	8610.3
60°	6500.9	6737.9	7516.7	8540.6	9717.0	10493.8	10779.2	10844.9	10115.5	10192.1	9295.3
62.5°	4614.4	4856.4	5844.2	7576.2	9732.1	12423.6	12549.7	12292.4	11126.2	10899.3	10476.7
65°	2449.4	2636.0	3443.2	5468.8	8437.8	12871.5	15645.8	14879.2	12909.9	12290.5	12003.0
67.5°	1253.0	1309.5	1630.2	2676.4	5800.7	11433.0	18421.2	18960.9	15983.8	13670.5	11929.3
69°	1108.7	1141.9	1354.9	1934.9	3714.5	9683.6	18556.3	20362.1	17592.9	13555.6	10840.7
70°	1073.4	1102.6	1296.3	1751.3	2903.4	8120.9	18038.8	20239.0	18004.4	13117.7	10027.7
72.5°	911.1	936.3	1154.1	1547.5	2359.7	4031.2	14653.2	17150.0	16156.2	10927.5	7258.5
75°	609.3	692.1	1107.7	1450.8	2195.2	2290.0	9660.6	12393.3	11512.7	7370.5	3781.1
77.5°	146.2	157.4	312.7	1154.1	2007.5	2015.6	4968.4	7704.4	6284.0	2627.0	893.9
80°	78.7	75.6	87.8	229.0	1869.4	1891.6	2236.6	3739.7	2243.6	435.8	294.6
82.5°	55.4	52.5	56.6	95.8	588.1	1723.0	1618.1	1692.8	930.1	167.4	132.1
85°	20.2	19.1	31.4	86.7	184.6	990.7	1662.6	1396.2	753.6	76.6	96.8
87.5°	7.0	6.1	12.0	47.4	56.6	421.7	1026.0	1055.1	296.6	46.4	45.5
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°	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6	4643.6
2.5°	4602.2	4539.8	4424.7	4306.7	4197.7	4066.5	4001.1	3936.5	3909.2	3899.2	3851.8
5°	4469.1	4363.2	4119.0	3873.9	3647.8	3407.8	3249.3	3122.2	3047.7	3011.4	2953.8
7.5°	4298.6	4125.0	3754.8	3376.5	3024.5	2677.4	2420.2	2222.4	2086.3	2020.6	1961.2
10°	4133.1	3902.1	3375.6	2860.1	2381.9	1921.8	1566.7	1309.5	1145.0	1069.3	1021.0
12.5°	3984.8	3685.2	3009.3	2356.7	1756.4	1217.7	856.4	651.7	549.9	514.5	497.3
15°	3852.7	3485.5	2663.3	1878.4	1189.4	696.0	468.0	398.5	382.4	382.4	380.3
17.5°	3727.5	3289.8	2329.3	1429.6	746.5	425.7	356.1	347.0	347.0	351.1	351.1
20°	3607.6	3103.1	2006.5	1026.0	470.2	337.9	321.9	319.7	321.9	326.9	326.9
22.5°	3504.6	2933.7	1705.0	704.1	349.0	304.6	296.6	293.6	294.6	297.6	299.7
25°	3428.0	2790.4	1420.4	477.2	300.7	277.4	268.4	263.4	259.3	259.3	261.2
27.5°	3379.6	2669.4	1145.0	347.0	270.4	252.2	238.1	230.1	221.0	216.0	217.8
30°	3344.2	2554.3	886.7	283.4	242.2	223.9	205.8	192.6	179.7	173.6	175.4
32.5°	3331.2	2461.5	662.8	250.2	216.9	196.6	174.5	157.4	143.3	138.2	139.1
35°	3366.5	2387.9	485.3	226.0	196.6	171.4	146.2	127.1	116.1	112.9	113.9
37.5°	3459.3	2348.4	363.2	205.8	178.6	150.3	122.1	103.9	96.8	96.8	97.8
40°	3634.8	2347.5	291.6	191.7	162.5	130.2	100.9	87.8	83.7	85.8	86.7
42.5°	3891.0	2401.0	254.2	178.6	148.3	111.0	83.7	74.6	73.7	75.6	76.6
45°	4241.1	2498.8	234.1	167.4	133.2	92.9	70.5	64.6	64.6	67.6	68.6
47.5°	4669.7	2642.2	216.9	156.3	118.0	77.7	60.5	56.6	57.5	60.5	61.5
50°	5186.4	2822.7	199.8	144.3	107.0	64.6	52.5	49.4	50.5	54.4	55.4
52.5°	5774.5	3065.8	185.6	133.2	92.9	53.4	44.3	42.4	44.3	48.4	49.4
55°	6279.0	3283.8	168.5	124.1	74.6	44.3	36.3	36.3	38.4	43.4	44.3
57.5°	6764.1	3511.7	153.3	107.0	58.5	35.4	30.3	31.4	34.2	39.3	40.3
60°	7476.4	3898.0	135.1	89.8	44.3	28.2	25.2	26.2	30.3	35.4	36.3
62.5°	8685.9	4486.2	117.0	74.6	34.2	22.2	20.2	22.2	27.3	33.2	34.2
65°	9777.5	4725.4	95.8	62.5	26.2	17.2	17.2	20.2	26.2	32.2	33.2
67.5°	9169.2	3977.8	74.6	49.4	20.2	13.1	14.2	19.1	25.2	32.2	33.2
69°	8108.9	3252.5	63.6	39.3	17.2	12.0	13.1	19.1	25.2	31.4	32.2
70°	7282.6	2745.9	56.6	33.2	15.1	12.0	13.1	18.1	25.2	31.4	32.2
72.5°	4877.6	1482.9	45.5	24.3	14.2	11.0	11.0	18.1	24.3	30.3	31.4
75°	2096.4	409.5	36.3	17.2	12.0	10.2	10.2	17.2	23.1	29.3	31.4
77.5°	383.3	103.9	29.3	15.1	12.0	10.2	9.2	16.1	22.2	28.2	29.3
80°	152.4	51.5	23.1	13.1	11.0	9.2	8.1	15.1	21.2	27.3	28.2
82.5°	91.7	29.3	19.1	12.0	11.0	8.1	7.0	13.1	20.2	26.2	27.3
85°	74.6	20.2	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	24.3	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)