

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: P269395

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269395  
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-SL3-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 17410.5 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

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

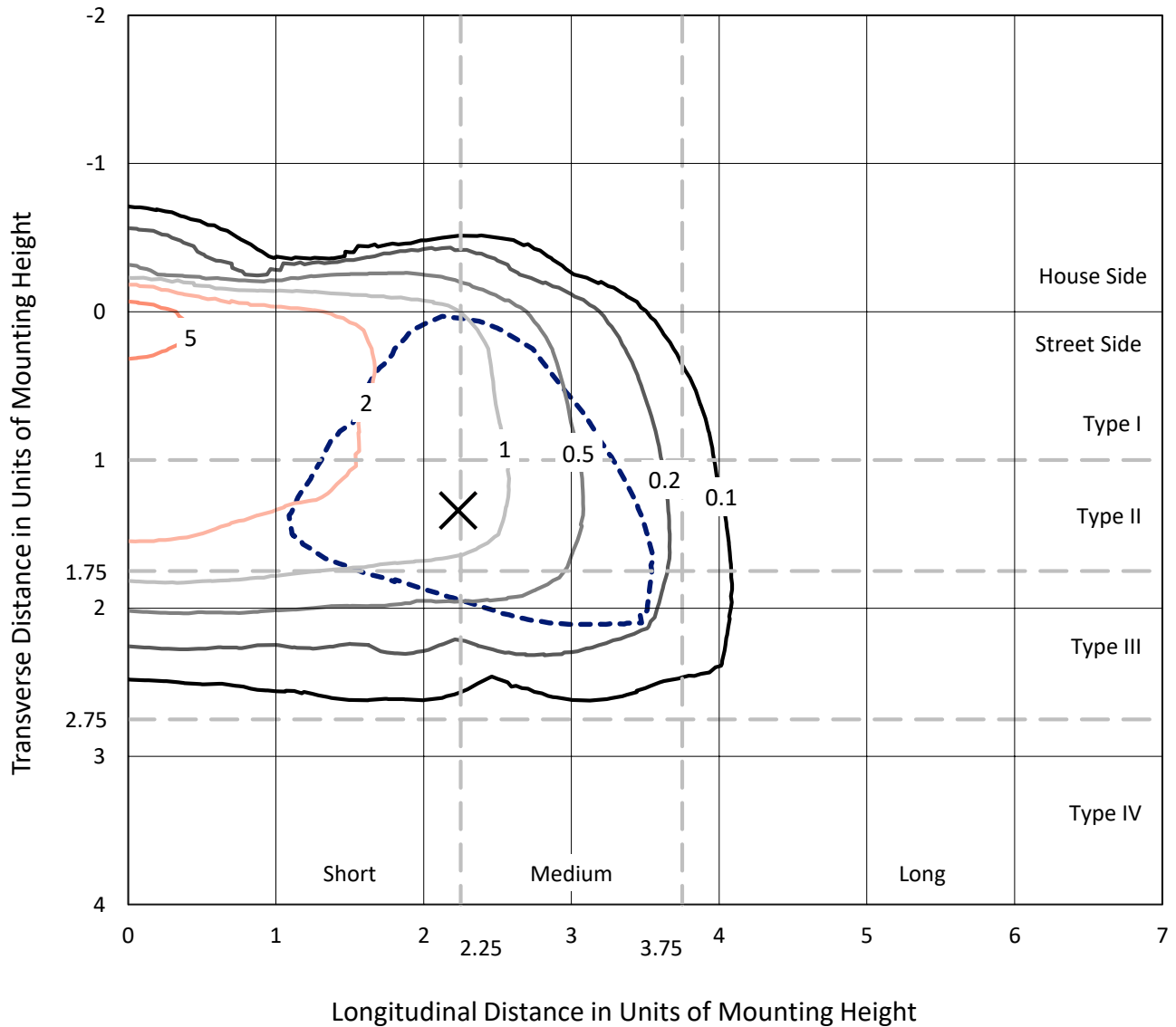


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

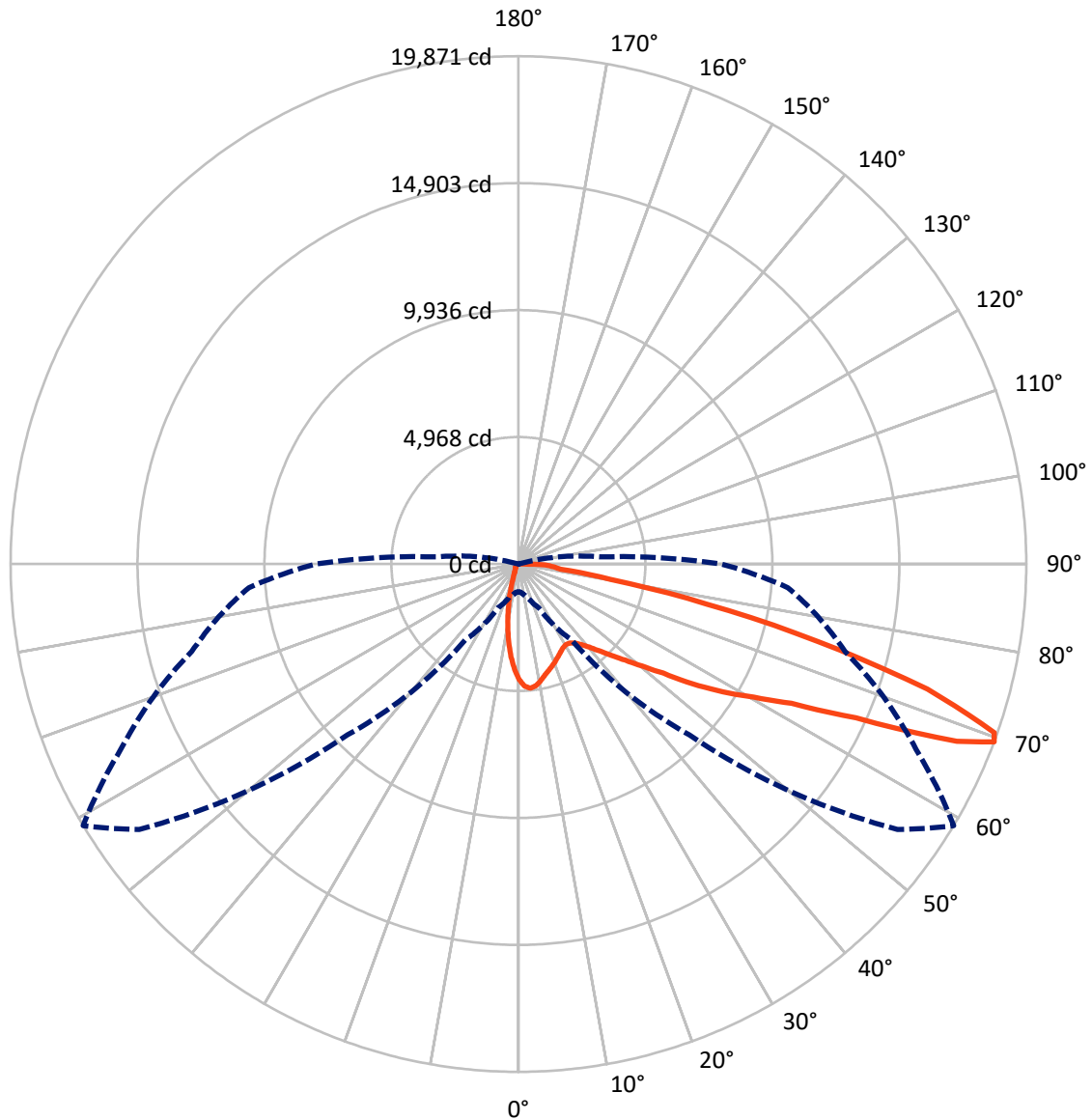


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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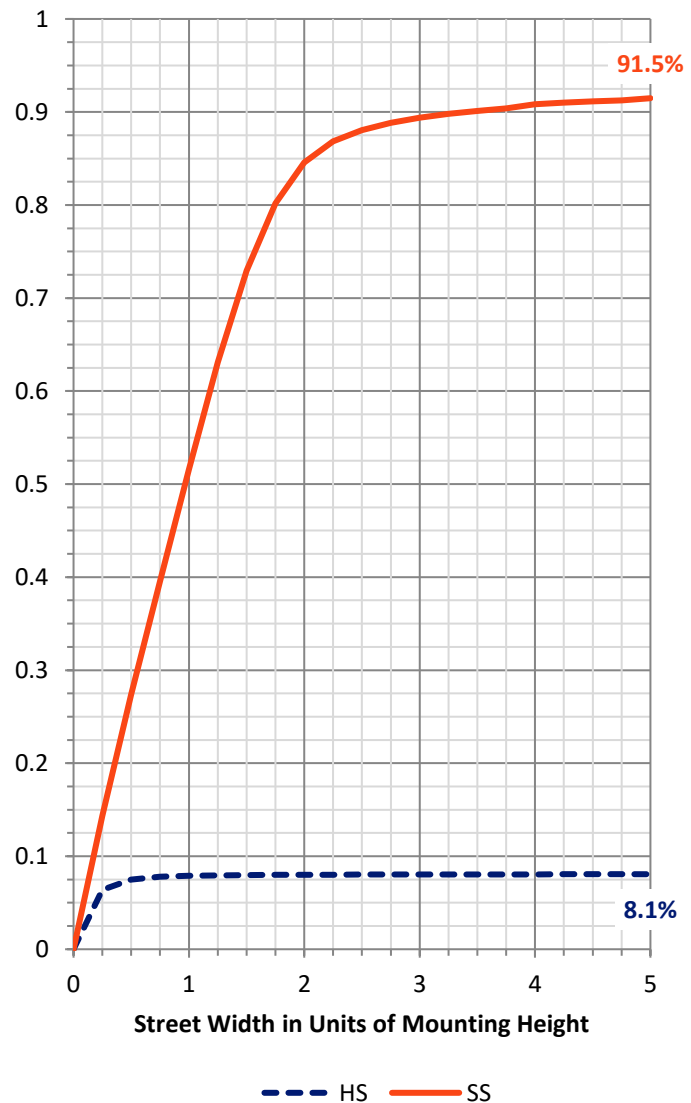
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1417.9	0.0	1417.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	15992.6	0.0	15992.6
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	17410.5	0.0	17410.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.8	2.1
10°-20°	760.1	4.4
20°-30°	1022.8	5.9
30°-40°	1485.0	8.5
40°-50°	2472.6	14.2
50°-60°	3857.2	22.2
60°-70°	4773.0	27.4
70°-80°	2418.9	13.9
80°-90°	253.1	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°	17410.5	100.0
0°-180°	17410.5	100.0

**Coefficient of Utilization**



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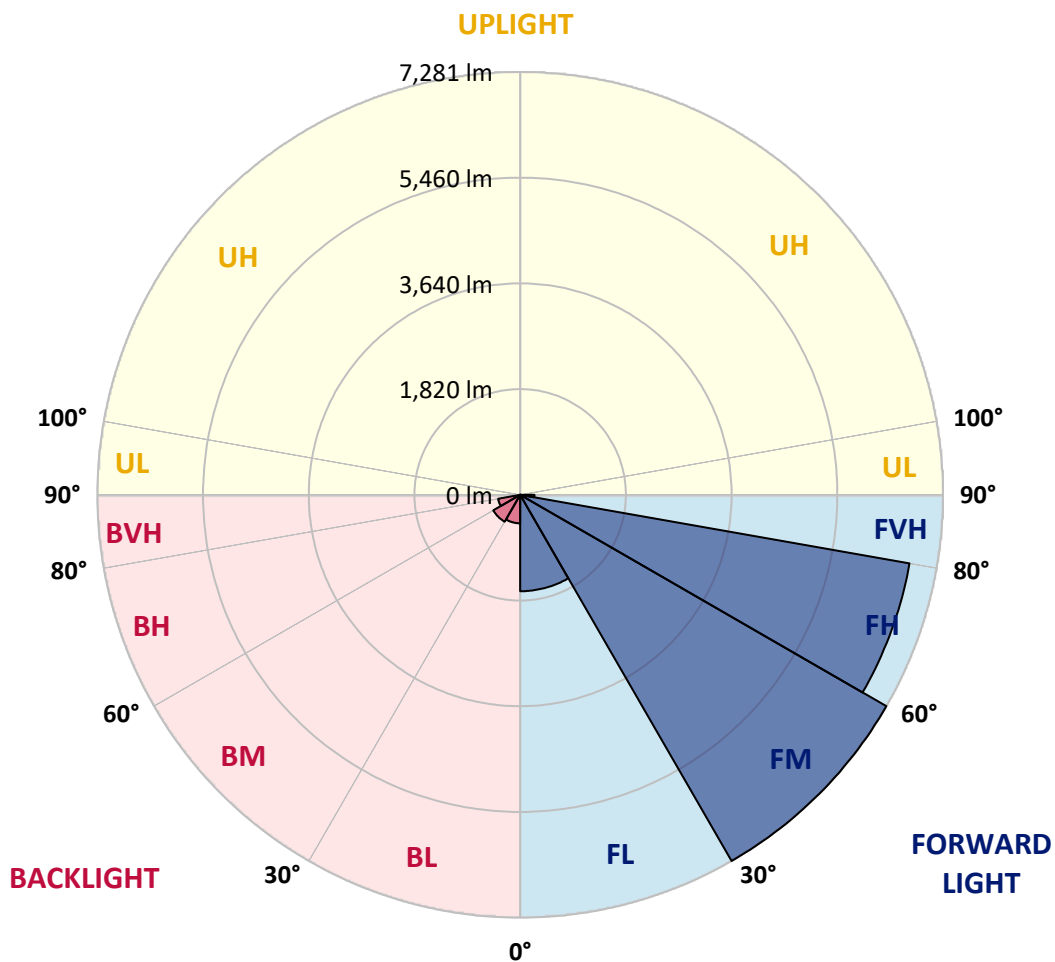
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.9	9.5			
FM (30°-60°)	7280.6	41.8			
FH (60°-80°)	6806.9	39.1			G3/7500
FVH (80°-90°)	245.3	1.4			G3/500
BL (0°-30°)	490.8	2.8	B1/500		
BM (30°-60°)	534.3	3.1	B1/1000		
BH (60°-80°)	385.1	2.2	B1/500		G1/500
BVH (80°-90°)	7.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7
2.5°	4966.9	4964.9	4943.3	4933.4	4915.6	4878.2	4820.1	4789.7	4740.4	4654.7	4539.6
5°	4921.5	4945.2	4958.0	4959.1	4971.8	4958.0	4905.9	4880.2	4812.3	4674.5	4467.7
7.5°	4614.5	4623.2	4659.7	4691.2	4752.3	4810.3	4829.0	4818.1	4777.8	4630.1	4355.5
10°	4285.5	4294.4	4337.7	4379.1	4461.8	4551.4	4645.9	4665.5	4682.3	4567.2	4247.1
12.5°	4002.0	4010.9	4055.2	4109.3	4205.9	4316.0	4462.8	4495.3	4569.0	4507.1	4160.6
15°	3757.9	3761.8	3805.1	3872.1	3987.2	4129.1	4295.4	4347.5	4460.9	4464.8	4084.8
17.5°	3550.1	3560.1	3586.7	3650.6	3776.6	3951.9	4145.8	4220.5	4353.5	4429.4	4010.9
20°	3423.1	3433.1	3432.1	3467.5	3580.6	3767.8	3996.1	4085.8	4247.1	4392.9	3944.9
22.5°	3398.6	3398.6	3373.0	3368.0	3434.9	3591.6	3840.6	3949.8	4151.6	4377.1	3898.6
25°	3486.1	3482.2	3418.2	3366.0	3369.1	3462.5	3690.0	3820.0	4070.9	4388.0	3874.1
27.5°	3671.3	3666.3	3585.6	3486.1	3406.5	3405.5	3575.8	3715.6	4007.0	4439.2	3883.9
30°	3927.2	3925.2	3837.6	3712.5	3567.9	3434.9	3536.4	3663.4	3965.6	4531.7	3906.5
32.5°	4206.9	4203.9	4138.0	4006.0	3822.8	3567.9	3577.7	3684.0	3977.4	4654.7	3961.6
35°	4503.2	4498.3	4469.6	4354.5	4152.7	3813.0	3713.6	3796.2	4052.3	4838.9	4070.0
37.5°	4824.1	4829.0	4849.7	4739.5	4527.7	4156.5	3941.0	3997.1	4202.9	5089.0	4246.2
40°	5297.7	5296.6	5303.6	5158.8	4955.1	4577.0	4259.0	4276.7	4455.0	5420.7	4514.1
42.5°	6157.2	6097.1	5915.0	5619.5	5414.9	5057.5	4659.7	4641.1	4763.1	5831.3	4889.0
45°	7311.9	7183.9	6711.4	6145.3	5883.4	5599.0	5152.9	5092.9	5170.6	6324.4	5351.8
47.5°	8305.4	8172.4	7503.9	6692.7	6380.7	6112.8	5730.8	5622.5	5648.2	6876.9	5938.5
50°	8643.0	8578.0	7994.2	7169.3	6862.1	6759.7	6401.3	6269.5	6233.0	7515.8	6618.9
52.5°	8525.9	8521.0	8132.0	7478.4	7303.1	7429.2	7245.0	7092.4	6958.5	8189.2	7310.9
55°	8337.9	8362.4	8188.2	7749.0	7743.2	8040.5	8398.9	8271.9	7884.0	8920.7	7907.6
57.5°	7818.9	7924.4	8156.7	8261.1	8503.3	8807.4	9359.8	9434.5	8975.9	9480.8	8402.8
60°	6344.2	6575.6	7335.6	8334.8	9482.8	10240.9	10519.5	10583.6	9871.7	9946.6	9071.4
62.5°	4503.2	4739.5	5703.2	7393.7	9497.6	12124.2	12247.3	11996.2	10858.3	10636.7	10224.1
65°	2390.4	2572.6	3360.1	5337.0	8234.5	12561.4	15268.9	14520.7	12598.8	11994.3	11713.7
67.5°	1222.8	1277.8	1591.0	2611.9	5660.9	11157.5	17977.2	18503.8	15598.6	13341.2	11641.9
69°	1082.0	1114.4	1322.1	1888.2	3625.0	9450.3	18109.1	19871.3	17168.9	13228.9	10579.6
70°	1047.6	1076.1	1265.2	1709.1	2833.4	7925.3	17604.1	19751.4	17570.6	12801.7	9786.0
72.5°	889.1	913.7	1126.3	1510.2	2302.7	3934.0	14300.1	16736.7	15767.1	10664.3	7083.6
75°	594.7	675.3	1081.0	1415.6	2142.3	2234.9	9427.7	12094.7	11235.2	7192.9	3690.0
77.5°	142.7	153.6	305.2	1126.3	1959.2	1967.1	4848.7	7518.8	6132.5	2563.7	872.3
80°	76.7	73.8	85.7	223.5	1824.3	1845.9	2182.6	3649.5	2189.6	425.3	287.5
82.5°	54.2	51.3	55.2	93.6	573.9	1681.5	1579.2	1652.1	907.6	163.4	128.9
85°	19.8	18.8	30.5	84.7	180.2	966.8	1622.5	1362.5	735.4	74.7	94.5
87.5°	6.8	5.8	11.8	46.3	55.2	411.6	1001.3	1029.7	289.4	45.3	44.2
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°	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7	4531.7
2.5°	4491.3	4430.4	4318.1	4202.9	4096.6	3968.5	3904.6	3841.6	3815.0	3805.1	3758.9
5°	4361.5	4258.1	4019.7	3780.5	3560.1	3325.6	3171.0	3047.1	2974.2	2938.7	2882.7
7.5°	4195.1	4025.7	3664.4	3295.2	2951.7	2612.9	2361.9	2168.9	2036.0	1972.0	1913.8
10°	4033.6	3808.1	3294.2	2791.2	2324.5	1875.5	1528.9	1277.8	1117.4	1043.7	996.3
12.5°	3888.9	3596.5	2936.7	2299.8	1714.1	1188.3	835.9	636.0	536.6	502.2	485.4
15°	3759.9	3401.5	2599.2	1833.3	1160.7	679.3	456.8	388.8	373.2	373.2	371.2
17.5°	3637.7	3210.5	2273.3	1395.1	728.5	415.5	347.6	338.8	338.8	342.7	342.7
20°	3520.5	3028.4	1958.1	1001.3	458.8	329.8	314.0	312.2	314.0	319.0	319.0
22.5°	3420.1	2863.0	1663.8	687.3	340.6	297.2	289.4	286.5	287.5	290.4	292.4
25°	3345.4	2723.1	1386.2	465.7	293.3	270.7	261.9	256.9	253.1	253.1	254.9
27.5°	3298.0	2605.1	1117.4	338.8	263.8	246.1	232.3	224.4	215.7	210.7	212.7
30°	3263.6	2492.7	865.3	276.7	236.3	218.6	200.9	188.0	175.2	169.3	171.2
32.5°	3250.8	2402.2	646.8	244.2	211.7	192.0	170.3	153.6	139.7	134.8	135.9
35°	3285.3	2330.4	473.5	220.5	192.0	167.4	142.7	124.1	113.2	110.2	111.2
37.5°	3375.9	2291.9	354.4	200.9	174.2	146.8	119.1	101.4	94.5	94.5	95.5
40°	3547.1	2290.9	284.6	187.0	158.6	127.0	98.5	85.7	81.7	83.7	84.7
42.5°	3797.2	2343.1	248.1	174.2	144.7	108.2	81.7	72.9	71.9	73.8	74.7
45°	4138.9	2438.7	228.3	163.4	130.0	90.5	68.9	63.1	63.1	65.9	67.0
47.5°	4557.3	2578.4	211.7	152.6	115.3	75.7	59.1	55.2	56.1	59.1	60.0
50°	5061.4	2754.7	194.9	140.8	104.4	63.1	51.3	48.2	49.2	53.2	54.2
52.5°	5635.3	2992.0	181.2	130.0	90.5	52.2	43.3	41.3	43.3	47.3	48.2
55°	6127.6	3204.7	164.4	121.1	72.9	43.3	35.5	35.5	37.4	42.3	43.3
57.5°	6601.1	3427.2	149.7	104.4	57.1	34.5	29.6	30.5	33.4	38.4	39.3
60°	7296.3	3804.1	132.0	87.7	43.3	27.6	24.7	25.6	29.6	34.5	35.5
62.5°	8476.6	4378.1	114.3	72.9	33.4	21.6	19.8	21.6	26.6	32.5	33.4
65°	9541.8	4611.4	93.6	61.1	25.6	16.8	16.8	19.8	25.6	31.5	32.5
67.5°	8948.2	3881.9	72.9	48.2	19.8	12.8	13.7	18.8	24.7	31.5	32.5
69°	7913.4	3174.2	62.1	38.4	16.8	11.8	12.8	18.8	24.7	30.5	31.5
70°	7107.2	2679.9	55.2	32.5	14.7	11.8	12.8	17.7	24.7	30.5	31.5
72.5°	4760.1	1447.2	44.2	23.6	13.7	10.8	10.8	17.7	23.6	29.6	30.5
75°	2045.8	399.7	35.5	16.8	11.8	9.8	9.8	16.8	22.6	28.6	30.5
77.5°	374.1	101.4	28.6	14.7	11.8	9.8	8.9	15.7	21.6	27.6	28.6
80°	148.7	50.2	22.6	12.8	10.8	8.9	7.8	14.7	20.8	26.6	27.6
82.5°	89.7	28.6	18.8	11.8	10.8	7.8	6.8	12.8	19.8	25.6	26.6
85°	72.9	19.8	14.7	11.8	9.8	7.8	5.8	11.8	17.7	24.7	25.6
87.5°	35.5	13.7	13.7	10.8	9.8	7.8	5.8	10.8	16.8	23.6	24.7
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)