

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: P191203

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19955.7 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

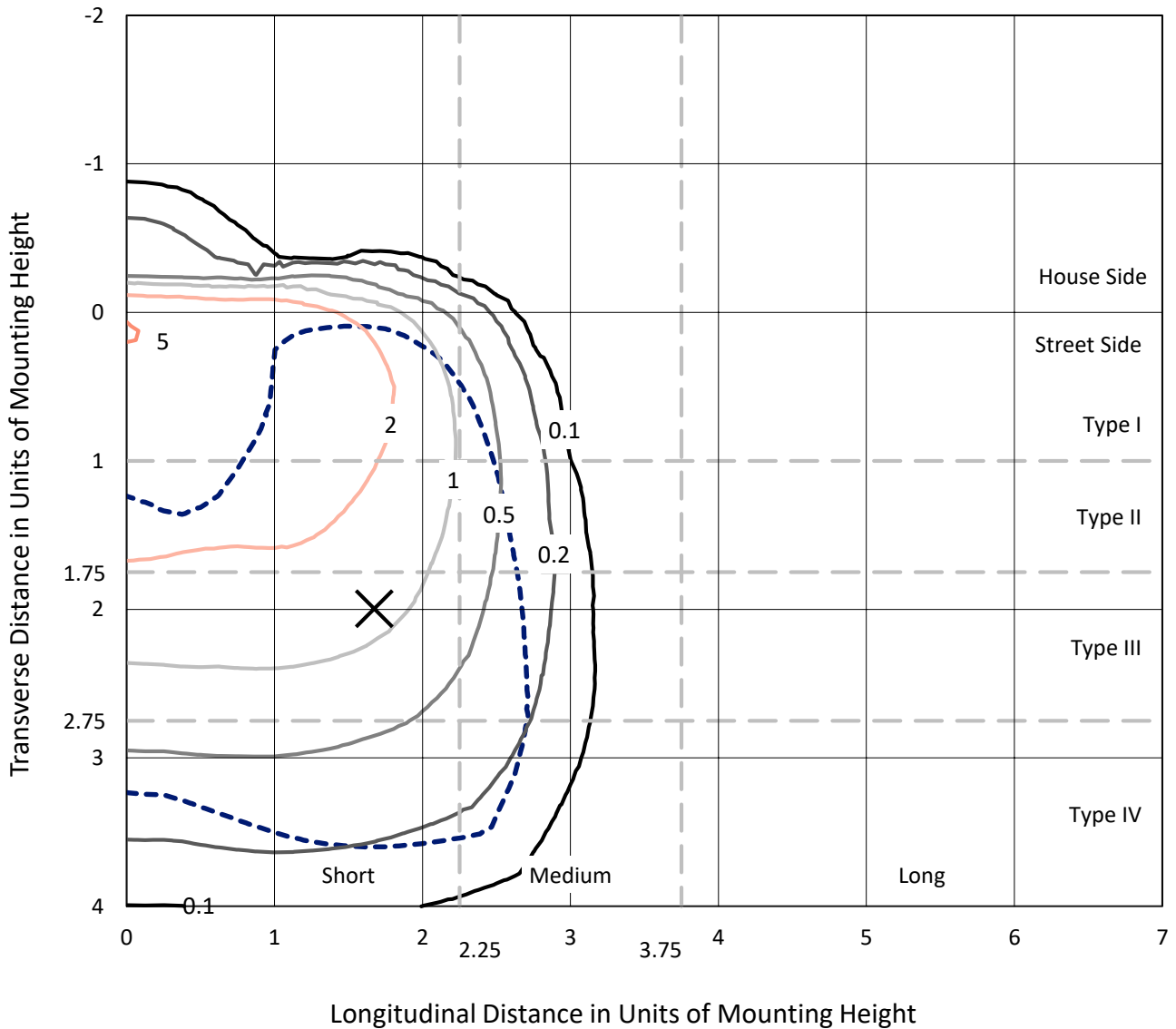
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

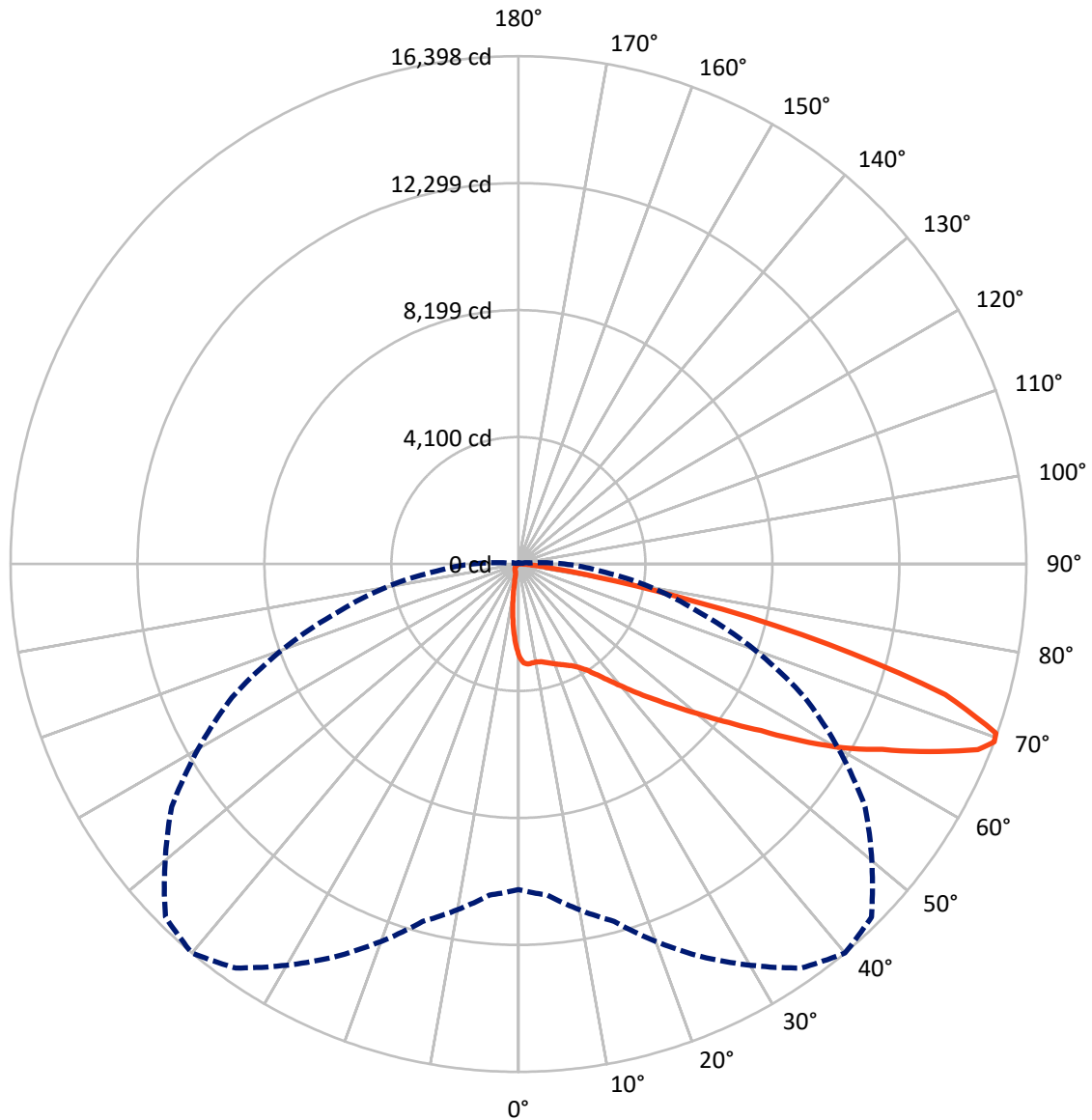
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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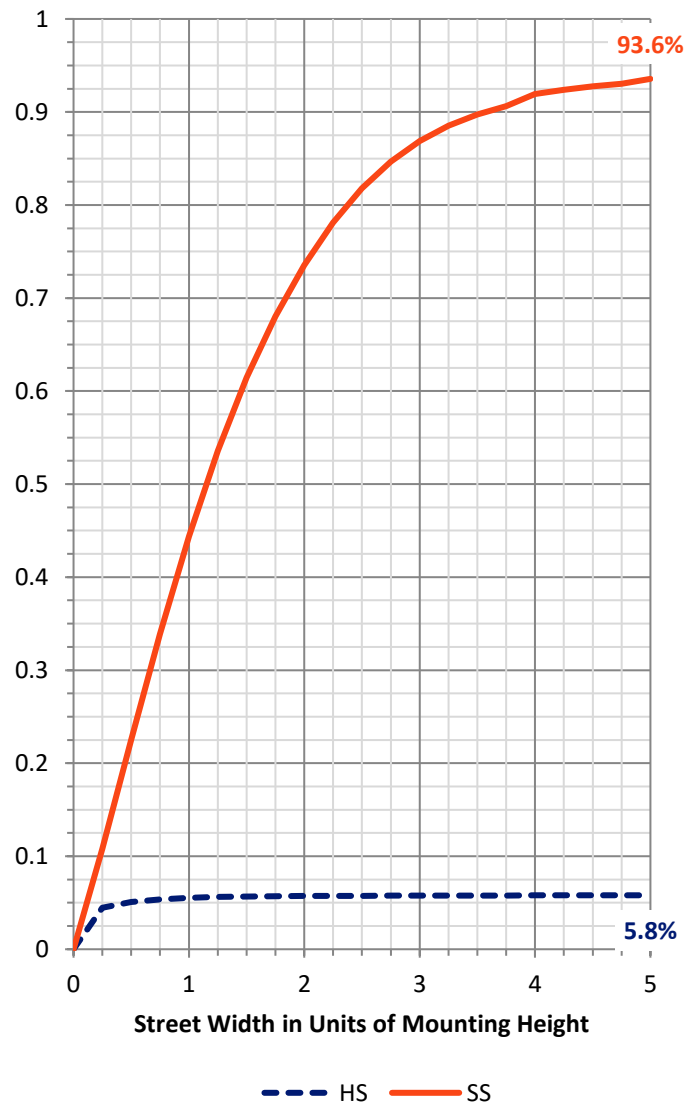
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1167.5	0.0	1167.5
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	18788.2	0.0	18788.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	19955.7	0.0	19955.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	1.2
10°-20°	594.5	3.0
20°-30°	1001.3	5.0
30°-40°	1639.2	8.2
40°-50°	2838.2	14.2
50°-60°	4470.4	22.4
60°-70°	5838.2	29.3
70°-80°	3006.9	15.1
80°-90°	325.3	1.6
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°	19955.7	100.0
0°-180°	19955.7	100.0

**Coefficient of Utilization**



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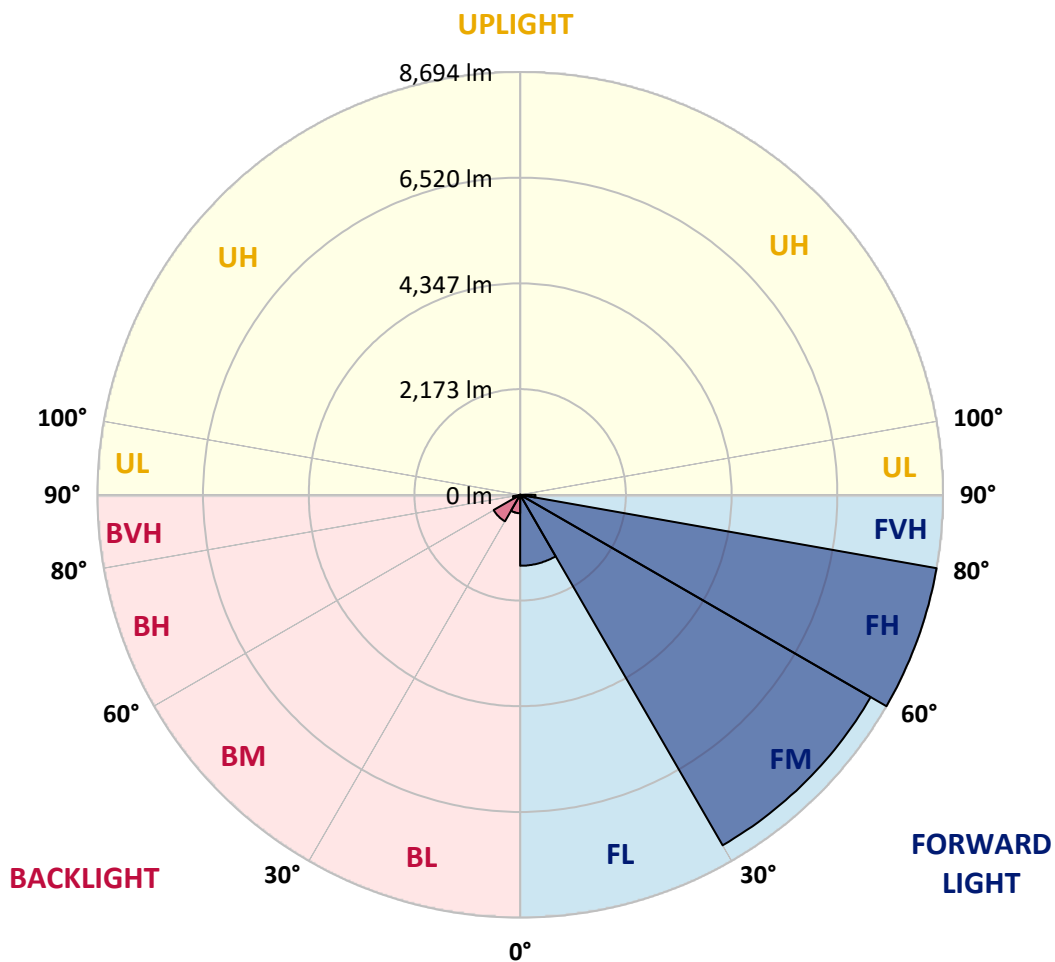
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1459.3	7.3			
FM	(30°-60°)	8320.3	41.7			
FH	(60°-80°)	8693.5	43.6			G4/12000
FVH	(80°-90°)	315.0	1.6			G3/500
BL	(0°-30°)	378.2	1.9	B1/500		
BM	(30°-60°)	627.5	3.1	B1/1000		
BH	(60°-80°)	151.6	0.8	B1/500		G1/500
BVH	(80°-90°)	10.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5
2.5°	3273.6	3255.8	3245.2	3230.9	3213.1	3197.6	3191.7	3147.8	3106.2	3049.2	2983.8
5°	3334.3	3328.4	3309.3	3290.3	3268.9	3245.2	3232.1	3179.8	3120.5	3037.3	2923.3
7.5°	3340.2	3333.1	3309.3	3283.2	3253.5	3225.0	3202.4	3150.2	3095.6	3011.2	2872.2
10°	3330.7	3322.4	3304.5	3276.1	3239.3	3212.0	3189.4	3139.4	3093.1	3017.1	2862.7
12.5°	3320.0	3311.7	3303.4	3289.1	3257.1	3238.0	3219.0	3171.6	3129.9	3065.8	2897.2
15°	3330.7	3325.9	3335.4	3329.5	3311.7	3295.1	3276.1	3233.3	3195.3	3141.9	2960.1
17.5°	3375.8	3375.8	3405.5	3409.1	3392.5	3368.7	3341.4	3298.6	3266.6	3221.5	3034.9
20°	3481.6	3478.0	3516.0	3523.1	3482.7	3445.9	3405.5	3353.2	3328.4	3299.8	3108.5
22.5°	3663.3	3646.7	3669.2	3662.2	3582.6	3525.5	3475.7	3411.4	3398.4	3385.4	3190.6
25°	3899.7	3890.2	3905.6	3835.6	3695.4	3618.2	3558.7	3486.3	3486.3	3499.4	3283.2
27.5°	4243.0	4207.3	4155.1	4031.6	3821.3	3722.7	3658.6	3581.4	3601.5	3650.2	3405.5
30°	4594.6	4555.4	4435.4	4245.3	3974.6	3871.2	3796.4	3715.6	3763.1	3852.2	3569.5
32.5°	4941.5	4897.5	4727.6	4487.7	4194.3	4091.0	4018.5	3929.4	4008.9	4158.6	3809.4
35°	5277.6	5238.4	5042.4	4759.7	4486.5	4400.9	4334.4	4257.2	4359.4	4568.4	4148.0
37.5°	5655.3	5612.5	5373.8	5067.4	4841.6	4779.8	4731.1	4654.0	4832.1	5138.6	4619.5
40°	6119.8	6047.3	5725.5	5420.1	5252.6	5223.0	5189.7	5179.0	5455.8	5879.8	5247.9
42.5°	6651.9	6533.2	6093.6	5791.9	5704.1	5725.5	5717.1	5764.6	6236.2	6801.6	6012.9
45°	7184.1	7030.8	6503.4	6188.6	6200.5	6275.4	6321.7	6511.8	7213.7	7858.8	6836.1
47.5°	7635.5	7484.6	6896.6	6617.5	6760.1	6907.3	7033.2	7393.2	8218.7	8899.4	7476.3
50°	8021.5	7879.0	7313.6	7089.0	7409.7	7647.4	7851.7	8385.0	9299.6	9691.6	7925.3
52.5°	8337.5	8242.4	7745.9	7629.5	8152.2	8500.2	8799.5	9438.6	10257.0	10335.4	8274.5
55°	8645.2	8577.4	8210.4	8272.2	9024.1	9498.0	9876.9	10556.3	11081.4	10872.3	8609.5
57.5°	8999.1	8937.3	8740.2	9087.0	10170.3	10766.7	11180.0	11547.1	11807.2	11421.1	8925.5
60°	9360.2	9324.6	9329.3	9992.2	11486.4	12059.0	12287.1	12382.1	12519.9	11937.8	8943.2
62.5°	9704.7	9772.4	10002.8	10999.5	12746.8	13186.2	13301.4	13395.3	13233.8	12019.8	8262.7
65°	10287.9	10398.4	10948.3	12347.6	14133.0	14603.3	14722.1	14400.2	13346.6	10960.2	6720.8
67.5°	10573.0	10774.9	11756.1	13604.3	15477.7	16000.3	15956.3	14465.5	11977.0	8357.7	4313.1
69°	10513.6	10728.6	11942.5	13989.3	15924.3	16398.2	16119.0	13666.1	10203.6	6054.4	2647.7
70°	10278.4	10495.8	11846.4	13974.9	15981.3	16356.6	15817.4	12679.1	8627.3	4427.1	1655.9
72.5°	8583.4	8771.1	10517.2	12631.5	14722.1	14416.9	13232.6	8784.1	4203.8	1205.6	373.0
75°	5283.5	5388.1	7546.4	9515.8	11119.4	10335.4	8816.2	4370.0	1253.2	340.9	206.6
77.5°	2791.4	2839.0	4131.3	5609.0	7048.6	5832.4	4518.6	1704.5	577.3	213.8	149.7
80°	1649.9	1685.5	2224.8	2564.5	3050.3	2548.0	1806.7	1046.5	413.4	134.2	133.1
82.5°	944.3	966.9	1613.1	1425.4	1202.1	1026.3	899.2	991.9	248.3	90.3	137.8
85°	346.9	351.6	907.6	1084.5	715.0	425.2	446.6	821.9	66.5	57.0	108.1
87.5°	161.5	157.9	466.8	664.0	418.1	269.6	348.0	180.6	26.1	36.8	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5	2981.5
2.5°	2945.9	2901.9	2822.3	2740.4	2657.2	2593.1	2530.1	2480.2	2463.6	2432.7	2435.0
5°	2855.6	2774.8	2608.5	2439.8	2264.0	2119.1	1982.5	1872.0	1818.6	1764.0	1764.0
7.5°	2777.2	2659.6	2399.4	2125.1	1841.1	1602.4	1387.4	1225.9	1136.8	1065.5	1064.3
10°	2747.4	2588.3	2224.8	1831.7	1436.1	1110.6	855.3	691.3	607.0	552.4	549.9
12.5°	2760.5	2563.4	2090.6	1560.8	1064.3	713.9	495.3	389.6	353.9	337.4	337.4
15°	2798.6	2556.3	1956.4	1296.0	751.9	446.6	329.1	300.5	298.2	298.2	298.2
17.5°	2844.9	2558.6	1818.6	1038.2	512.0	319.6	283.9	280.3	282.7	282.7	282.7
20°	2892.4	2559.8	1670.1	799.4	361.1	277.9	267.3	266.1	268.4	268.4	269.6
22.5°	2950.6	2565.8	1521.6	597.5	298.2	262.5	254.2	254.2	255.4	255.4	254.2
25°	3017.1	2577.6	1367.2	443.0	272.0	251.9	244.7	243.5	244.7	243.5	242.3
27.5°	3100.3	2594.2	1195.0	346.9	260.1	241.1	235.2	235.2	234.1	232.8	231.6
30°	3204.8	2613.2	1001.4	294.6	248.3	231.6	225.7	224.5	223.3	221.0	221.0
32.5°	3364.0	2654.9	810.1	267.3	235.2	218.6	213.8	213.8	211.4	209.1	207.9
35°	3608.7	2736.8	639.0	250.6	221.0	204.3	198.4	198.4	196.0	194.8	193.6
37.5°	3947.2	2861.5	496.5	235.2	206.6	188.8	182.9	181.8	179.3	177.0	175.8
40°	4397.4	3016.0	390.8	221.0	192.4	173.4	168.7	166.3	161.5	157.9	157.9
42.5°	4962.8	3191.7	317.1	205.5	175.8	159.2	155.6	152.0	143.7	140.1	139.0
45°	5554.3	3349.8	268.4	187.7	159.2	145.0	142.5	136.6	125.9	122.3	122.3
47.5°	5980.8	3386.6	236.4	171.0	143.7	129.5	128.3	117.6	108.1	105.7	104.5
50°	6246.9	3314.1	210.2	154.5	129.5	115.2	111.7	98.6	92.7	90.3	89.1
52.5°	6426.3	3184.7	188.8	140.1	116.4	102.2	93.8	84.3	79.6	77.2	77.2
55°	6570.0	3001.6	167.5	127.1	105.7	91.5	79.6	72.4	67.7	65.4	65.4
57.5°	6610.3	2753.4	146.1	116.4	95.0	80.8	67.7	62.9	57.0	55.9	55.9
60°	6316.9	2305.6	129.5	103.3	85.5	70.1	59.4	53.5	47.5	46.3	45.1
62.5°	5543.7	1784.1	114.1	91.5	74.9	60.6	51.0	44.0	39.2	39.2	39.2
65°	4228.7	1196.1	99.7	79.6	65.4	51.0	44.0	35.6	33.2	33.2	34.5
67.5°	2531.3	650.9	85.5	67.7	55.9	42.8	36.8	30.9	29.7	30.9	30.9
69°	1483.6	382.5	77.2	60.6	48.7	38.1	32.1	27.3	29.7	30.9	30.9
70°	915.8	257.8	71.3	54.6	44.0	34.5	29.7	26.1	28.5	29.7	29.7
72.5°	255.4	133.1	57.0	42.8	35.6	28.5	23.7	23.7	27.3	28.5	28.5
75°	166.3	98.6	44.0	32.1	27.3	22.6	20.2	22.6	26.1	27.3	27.3
77.5°	137.8	80.8	35.6	26.1	22.6	21.4	19.0	20.2	23.7	25.0	25.0
80°	125.9	57.0	28.5	23.7	20.2	19.0	17.8	16.7	21.4	22.6	22.6
82.5°	120.0	45.1	25.0	21.4	19.0	16.7	15.4	16.7	19.0	20.2	21.4
85°	74.9	29.7	22.6	20.2	16.7	15.4	15.4	15.4	17.8	19.0	19.0
87.5°	27.3	23.7	20.2	16.7	14.2	14.2	14.2	14.2	15.4	17.8	17.8
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)