

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: P269488

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269488  
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-07-LED-E1-SL4-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA 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: 29687.8 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 391  
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

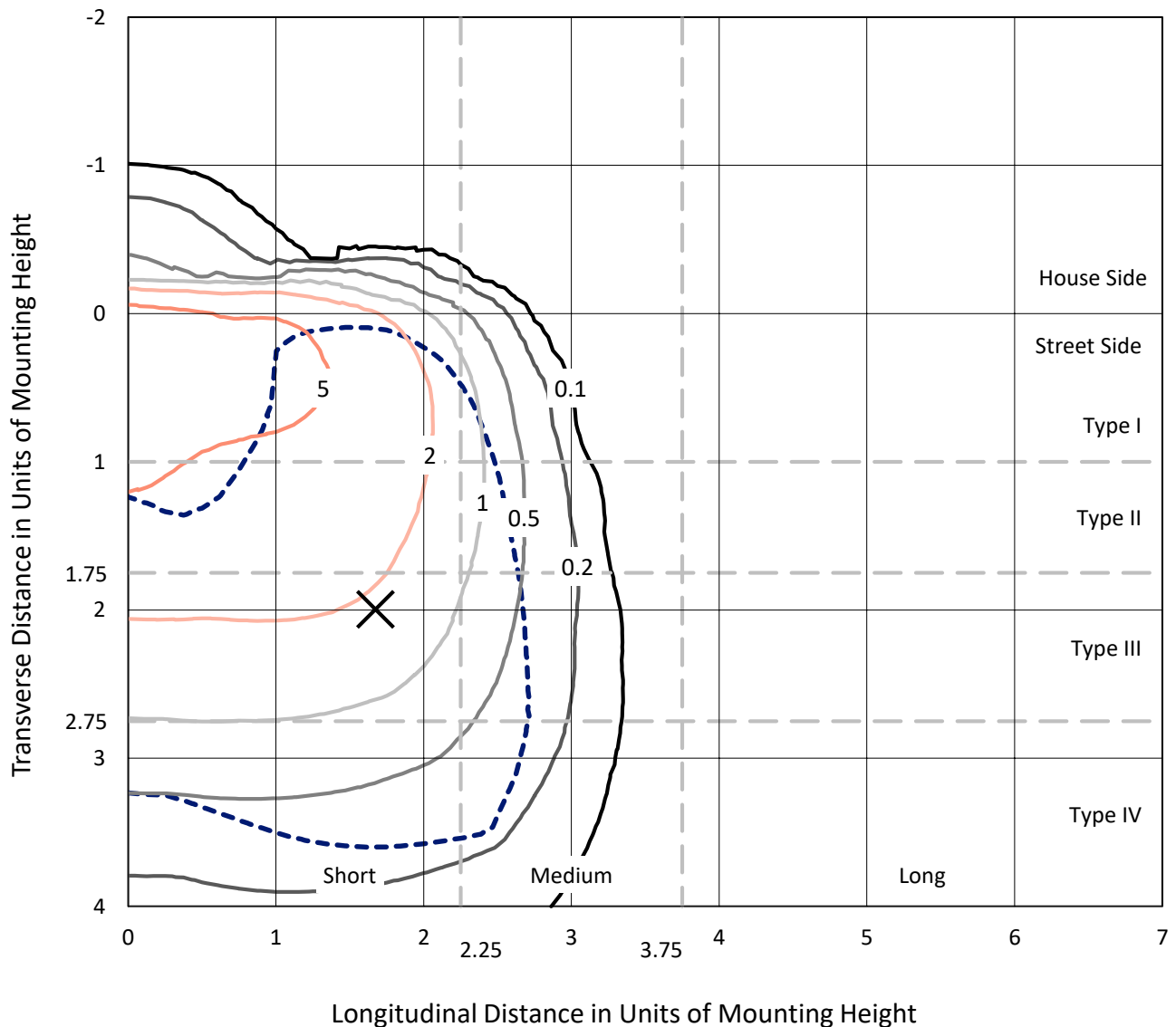


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

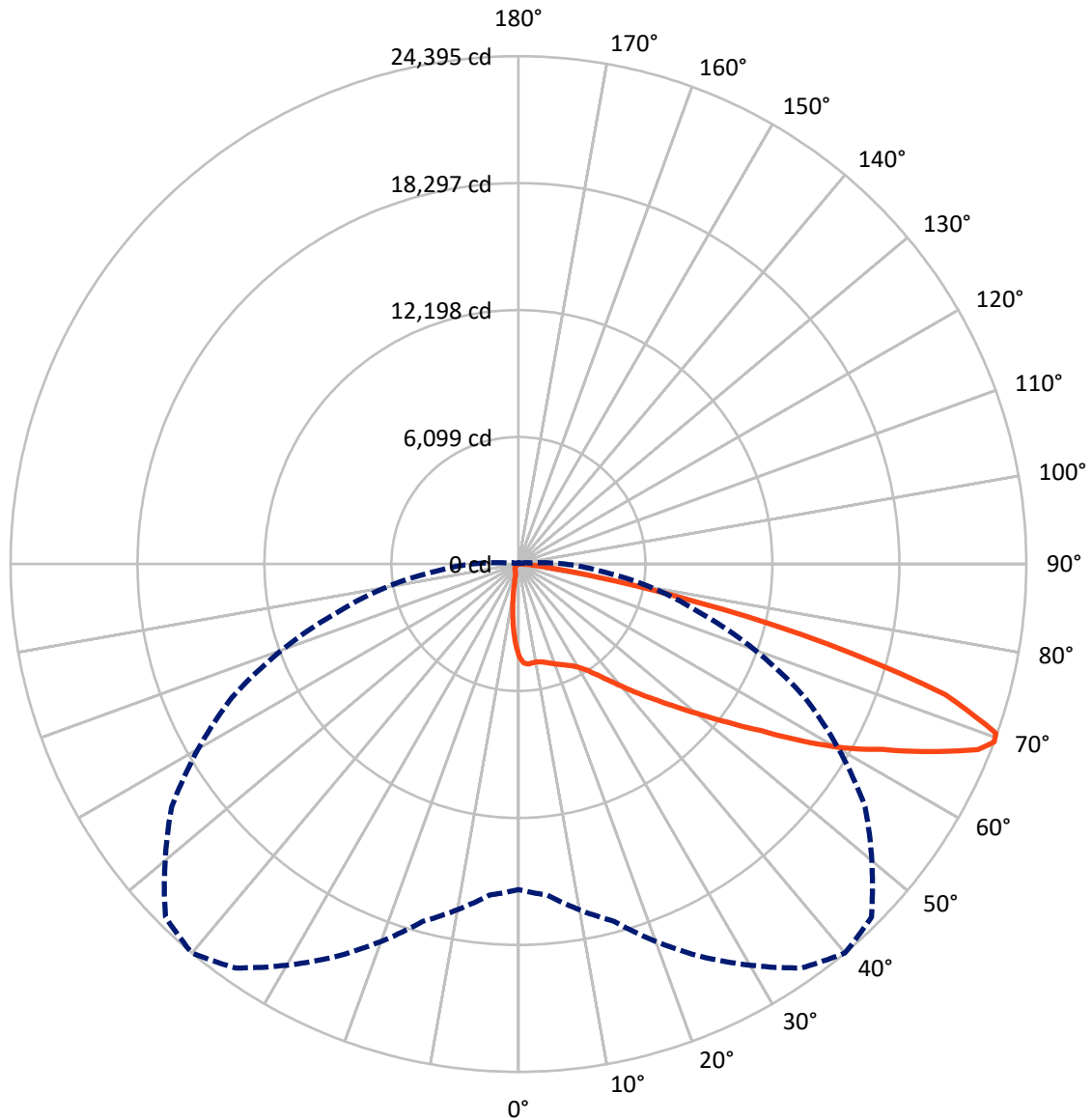


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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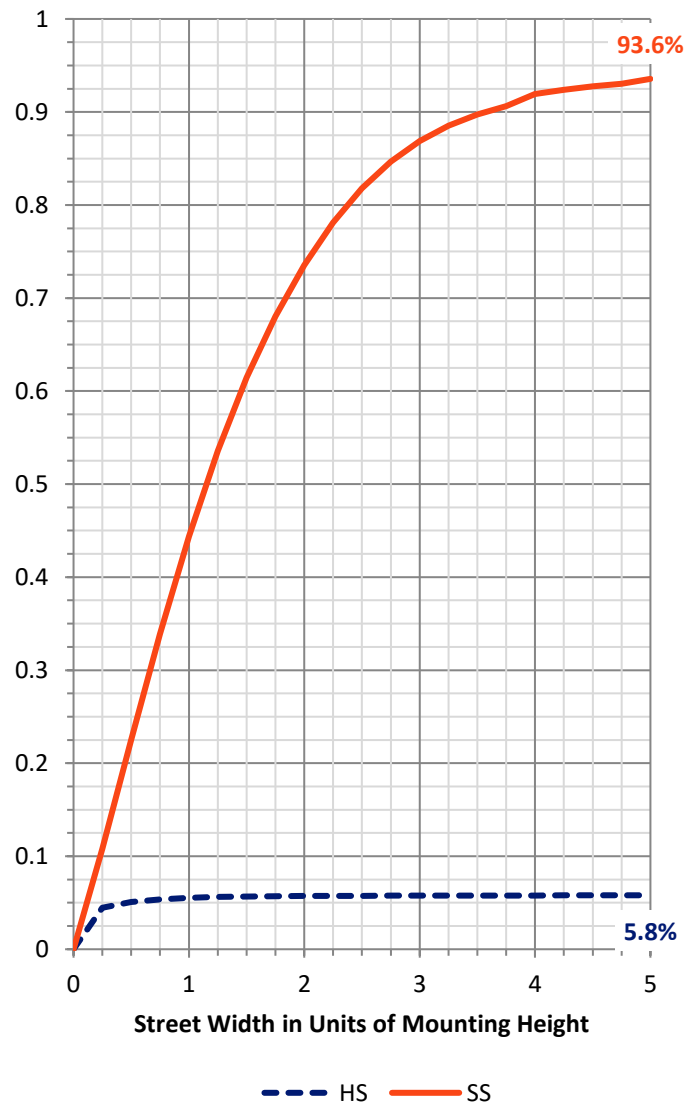
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1736.9	0.0	1736.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	27951.0	0.0	27951.0
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	29687.8	0.0	29687.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.6	1.2
10°-20°	884.4	3.0
20°-30°	1489.6	5.0
30°-40°	2438.6	8.2
40°-50°	4222.3	14.2
50°-60°	6650.6	22.4
60°-70°	8685.4	29.3
70°-80°	4473.4	15.1
80°-90°	483.9	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°	29687.8	100.0
0°-180°	29687.8	100.0

**Coefficient of Utilization**



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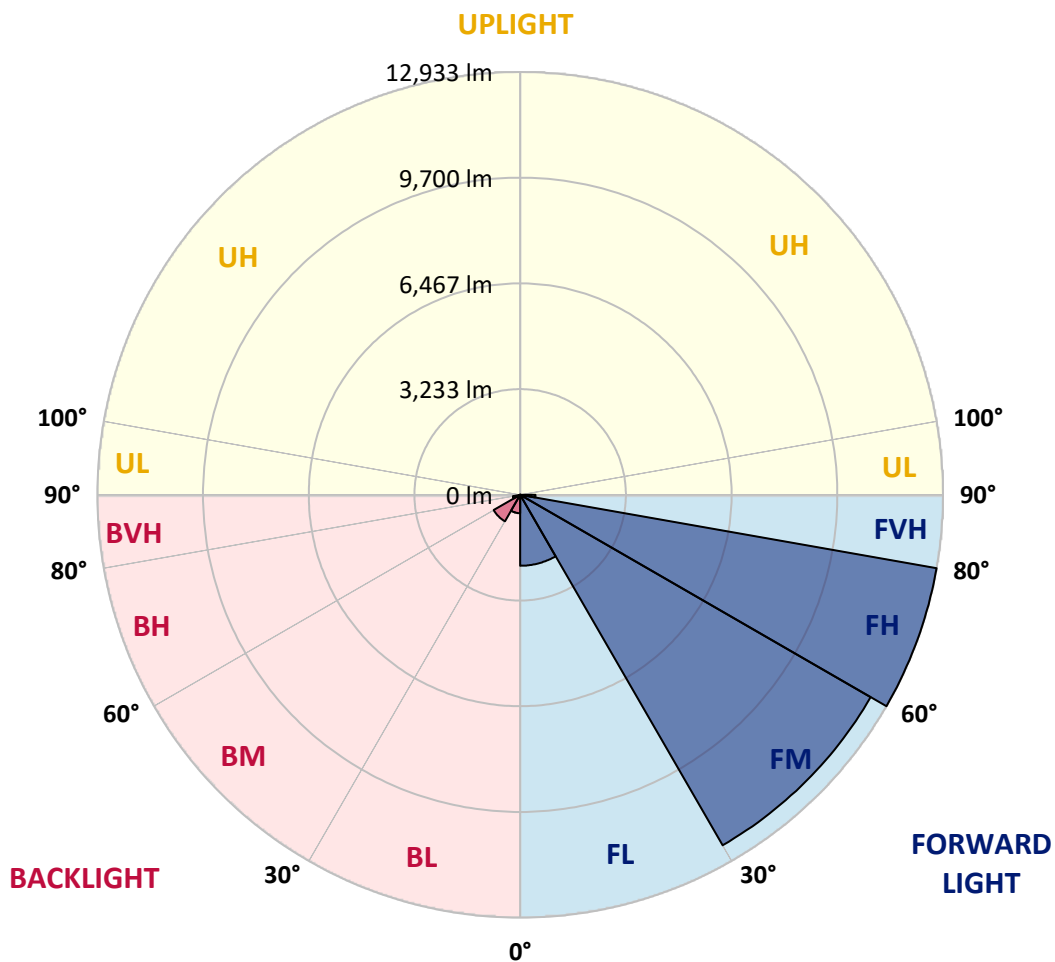
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2171.0	7.3			
FM	(30°-60°)	12378.0	41.7			
FH	(60°-80°)	12933.3	43.6			G5
FVH	(80°-90°)	468.7	1.6			G3/500
BL	(0°-30°)	562.6	1.9	B2/1000		
BM	(30°-60°)	933.5	3.1	B1/1000		
BH	(60°-80°)	225.5	0.8	B1/500		G1/500
BVH	(80°-90°)	15.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6
2.5°	4870.3	4843.8	4827.9	4806.7	4780.2	4757.2	4748.4	4683.0	4621.2	4536.3	4439.1
5°	4960.4	4951.5	4923.3	4895.0	4863.2	4827.9	4808.4	4730.7	4642.4	4518.6	4349.0
7.5°	4969.2	4958.6	4923.3	4884.4	4840.2	4797.8	4764.3	4686.5	4605.3	4479.7	4273.0
10°	4955.1	4942.7	4916.2	4873.8	4819.0	4778.4	4744.8	4670.6	4601.7	4488.6	4258.9
12.5°	4939.2	4926.8	4914.4	4893.2	4845.5	4817.3	4789.0	4718.3	4656.5	4561.0	4310.1
15°	4955.1	4948.0	4962.1	4953.3	4926.8	4902.1	4873.8	4810.2	4753.7	4674.2	4403.8
17.5°	5022.2	5022.2	5066.4	5071.7	5046.9	5011.6	4971.0	4907.4	4859.7	4792.5	4515.1
20°	5179.4	5174.1	5230.7	5241.3	5181.2	5126.4	5066.4	4988.6	4951.5	4909.1	4624.7
22.5°	5449.8	5425.1	5458.7	5448.1	5329.6	5244.8	5170.6	5075.2	5055.8	5036.3	4746.6
25°	5801.6	5787.4	5810.3	5706.2	5497.5	5382.7	5294.3	5186.5	5186.5	5205.9	4884.4
27.5°	6312.2	6259.2	6181.4	5997.7	5684.8	5538.2	5442.8	5327.8	5358.0	5430.4	5066.4
30°	6835.4	6777.0	6598.5	6315.8	5912.9	5759.2	5647.7	5527.6	5598.2	5730.8	5310.2
32.5°	7351.3	7286.0	7033.2	6676.3	6239.7	6086.0	5978.2	5845.7	5964.0	6186.7	5667.1
35°	7851.4	7793.1	7501.4	7080.9	6674.4	6547.2	6448.4	6333.4	6485.5	6796.3	6170.8
37.5°	8413.3	8349.7	7994.6	7538.7	7202.9	7111.0	7038.5	6923.6	7188.7	7644.7	6872.5
40°	9104.3	8996.4	8517.5	8063.5	7814.3	7770.1	7720.7	7704.8	8116.5	8747.3	7807.2
42.5°	9896.0	9719.2	9065.4	8616.5	8485.7	8517.5	8505.2	8575.8	9277.4	10118.7	8945.2
45°	10687.7	10459.7	9675.0	9206.8	9224.4	9335.7	9404.7	9687.4	10731.8	11691.4	10169.9
47.5°	11359.2	11134.8	10260.0	9844.7	10056.7	10275.9	10463.2	10998.7	12226.8	13239.4	11122.4
50°	11933.4	11721.4	10880.4	10546.3	11023.5	11376.9	11680.8	12474.3	13834.9	14418.1	11790.3
52.5°	12403.5	12262.1	11523.5	11350.4	12127.8	12645.6	13091.0	14041.6	15259.2	15375.8	12309.8
55°	12861.3	12760.6	12214.4	12306.3	13425.0	14130.0	14693.8	15704.6	16485.7	16174.6	12808.3
57.5°	13387.8	13296.0	13002.5	13518.7	15130.2	16017.4	16632.3	17178.4	17565.4	16991.0	13278.2
60°	13925.0	13872.0	13879.2	14865.2	17088.2	17940.1	18279.3	18420.6	18625.6	17759.8	13304.7
62.5°	14437.5	14538.3	14881.1	16363.7	18963.2	19616.9	19788.5	19928.0	19687.8	17881.8	12292.1
65°	15305.2	15469.5	16287.7	18369.4	21025.4	21725.1	21901.9	21423.0	19855.5	16305.3	9998.5
67.5°	15729.3	16029.7	17489.5	20239.1	23025.8	23803.4	23738.0	21520.2	17818.1	12433.6	6416.5
69°	15641.0	15960.7	17766.8	20811.7	23690.2	24395.4	23980.1	20330.9	15179.6	9007.1	3939.0
70°	15291.0	15614.3	17623.7	20790.5	23775.1	24333.5	23531.2	18862.4	12834.8	6586.2	2463.4
72.5°	12769.3	13048.5	15646.3	18791.7	21901.9	21447.8	19685.9	13068.1	6253.9	1793.6	555.0
75°	7860.2	8015.8	11226.7	14156.6	16542.2	15375.8	13115.8	6501.4	1864.3	507.2	307.5
77.5°	4152.8	4223.4	6146.2	8344.4	10486.3	8676.6	6722.1	2535.8	858.8	318.1	222.7
80°	2454.6	2507.6	3309.9	3815.2	4538.0	3790.5	2687.8	1556.9	615.0	199.8	197.9
82.5°	1404.9	1438.5	2399.8	2120.5	1788.3	1526.8	1337.8	1475.6	369.4	134.2	205.1
85°	515.9	523.1	1350.2	1613.4	1063.9	632.6	664.4	1222.9	99.0	84.8	160.7
87.5°	240.3	235.0	694.5	987.9	622.0	401.2	517.8	268.7	38.8	54.7	44.1
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°	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6	4435.6
2.5°	4382.6	4317.2	4198.7	4076.8	3953.1	3857.6	3764.0	3689.8	3665.1	3619.1	3622.7
5°	4248.3	4128.0	3880.7	3629.7	3368.1	3152.6	2949.3	2785.0	2705.4	2624.2	2624.2
7.5°	4131.6	3956.7	3569.7	3161.4	2739.0	2383.8	2064.0	1823.6	1691.1	1585.1	1583.4
10°	4087.4	3850.6	3309.9	2724.9	2136.4	1652.3	1272.3	1028.5	902.9	821.7	818.1
12.5°	4106.8	3813.5	3110.1	2321.9	1583.4	1062.1	736.9	579.6	526.5	501.9	501.9
15°	4163.4	3802.9	2910.5	1927.9	1118.6	664.4	489.4	447.0	443.6	443.6	443.6
17.5°	4232.4	3806.4	2705.4	1544.5	761.7	475.4	422.4	417.1	420.5	420.5	420.5
20°	4303.1	3808.2	2484.6	1189.3	537.1	413.5	397.6	395.9	399.3	399.3	401.2
22.5°	4389.6	3817.0	2263.6	888.9	443.6	390.6	378.1	378.1	380.0	380.0	378.1
25°	4488.6	3834.7	2034.0	659.1	404.6	374.7	364.1	362.2	364.1	362.2	360.5
27.5°	4612.3	3859.4	1777.7	515.9	387.0	358.8	349.9	349.9	348.2	346.3	344.6
30°	4767.8	3887.8	1489.7	438.3	369.4	344.6	335.7	334.0	332.3	328.7	328.7
32.5°	5004.5	3949.6	1205.2	397.6	349.9	325.1	318.1	318.1	314.5	311.1	309.2
35°	5368.6	4071.5	950.8	372.8	328.7	303.9	295.2	295.2	291.6	289.9	288.0
37.5°	5872.2	4257.1	738.6	349.9	307.5	281.0	272.1	270.4	266.8	263.4	261.5
40°	6541.9	4486.8	581.5	328.7	286.3	258.1	250.9	247.5	240.3	235.0	235.0
42.5°	7383.1	4748.4	471.8	305.8	261.5	236.9	231.6	226.3	213.8	208.5	206.8
45°	8263.1	4983.3	399.3	279.3	236.9	215.7	212.1	203.2	187.3	181.9	181.9
47.5°	8897.5	5038.1	351.6	254.5	213.8	192.6	190.9	174.9	160.7	157.3	155.4
50°	9293.3	4930.3	312.8	229.7	192.6	171.3	166.0	146.7	137.8	134.2	132.5
52.5°	9560.2	4737.8	281.0	208.5	173.2	152.0	139.5	125.5	118.3	114.9	114.9
55°	9774.1	4465.6	249.2	189.2	157.3	136.1	118.3	107.7	100.7	97.1	97.1
57.5°	9834.1	4096.2	217.4	173.2	141.4	120.2	100.7	93.7	84.8	83.1	83.1
60°	9397.7	3430.0	192.6	153.7	127.2	104.3	88.4	79.5	70.6	68.9	67.2
62.5°	8247.2	2654.2	169.6	136.1	111.3	90.1	75.9	65.3	58.3	58.3	58.3
65°	6291.0	1779.5	148.4	118.3	97.1	75.9	65.3	53.0	49.4	49.4	51.3
67.5°	3765.8	968.5	127.2	100.7	83.1	63.6	54.7	46.0	44.1	46.0	46.0
69°	2207.1	569.0	114.9	90.1	72.5	56.6	47.7	40.7	44.1	46.0	46.0
70°	1362.5	383.4	106.0	81.2	65.3	51.3	44.1	38.8	42.4	44.1	44.1
72.5°	380.0	197.9	84.8	63.6	53.0	42.4	35.4	35.4	40.7	42.4	42.4
75°	247.5	146.7	65.3	47.7	40.7	33.5	30.1	33.5	38.8	40.7	40.7
77.5°	205.1	120.2	53.0	38.8	33.5	31.8	28.2	30.1	35.4	37.1	37.1
80°	187.3	84.8	42.4	35.4	30.1	28.2	26.5	24.8	31.8	33.5	33.5
82.5°	178.5	67.2	37.1	31.8	28.2	24.8	22.9	24.8	28.2	30.1	31.8
85°	111.3	44.1	33.5	30.1	24.8	22.9	22.9	22.9	26.5	28.2	28.2
87.5°	40.7	35.4	30.1	24.8	21.2	21.2	21.2	21.2	22.9	26.5	26.5
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)