

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: P193764

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193764  
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-06-LED-E1-SL4-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA 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: 25865 lumens  
Efficiency: N/A  
Efficacy: 67.7 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): 382  
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

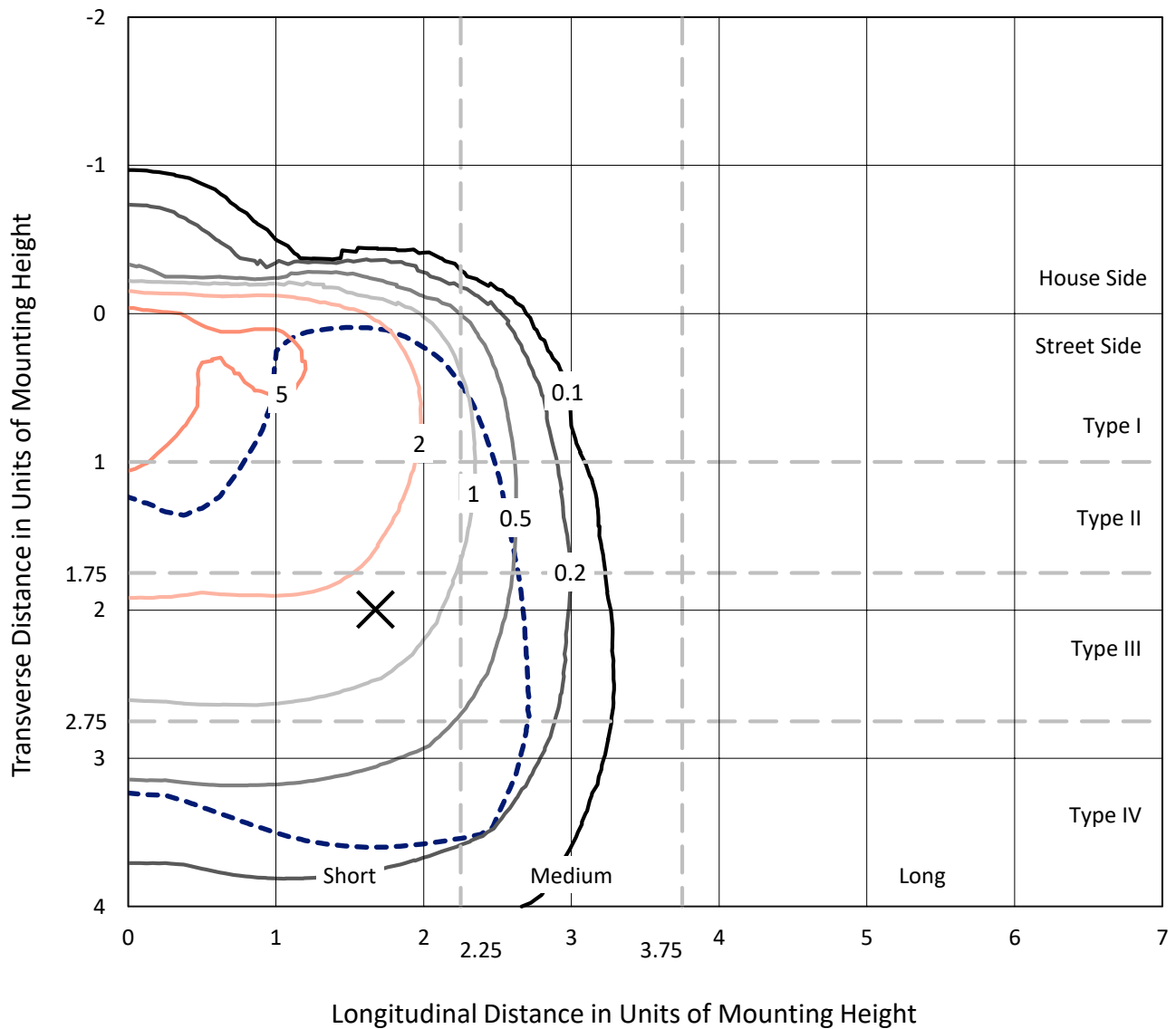


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

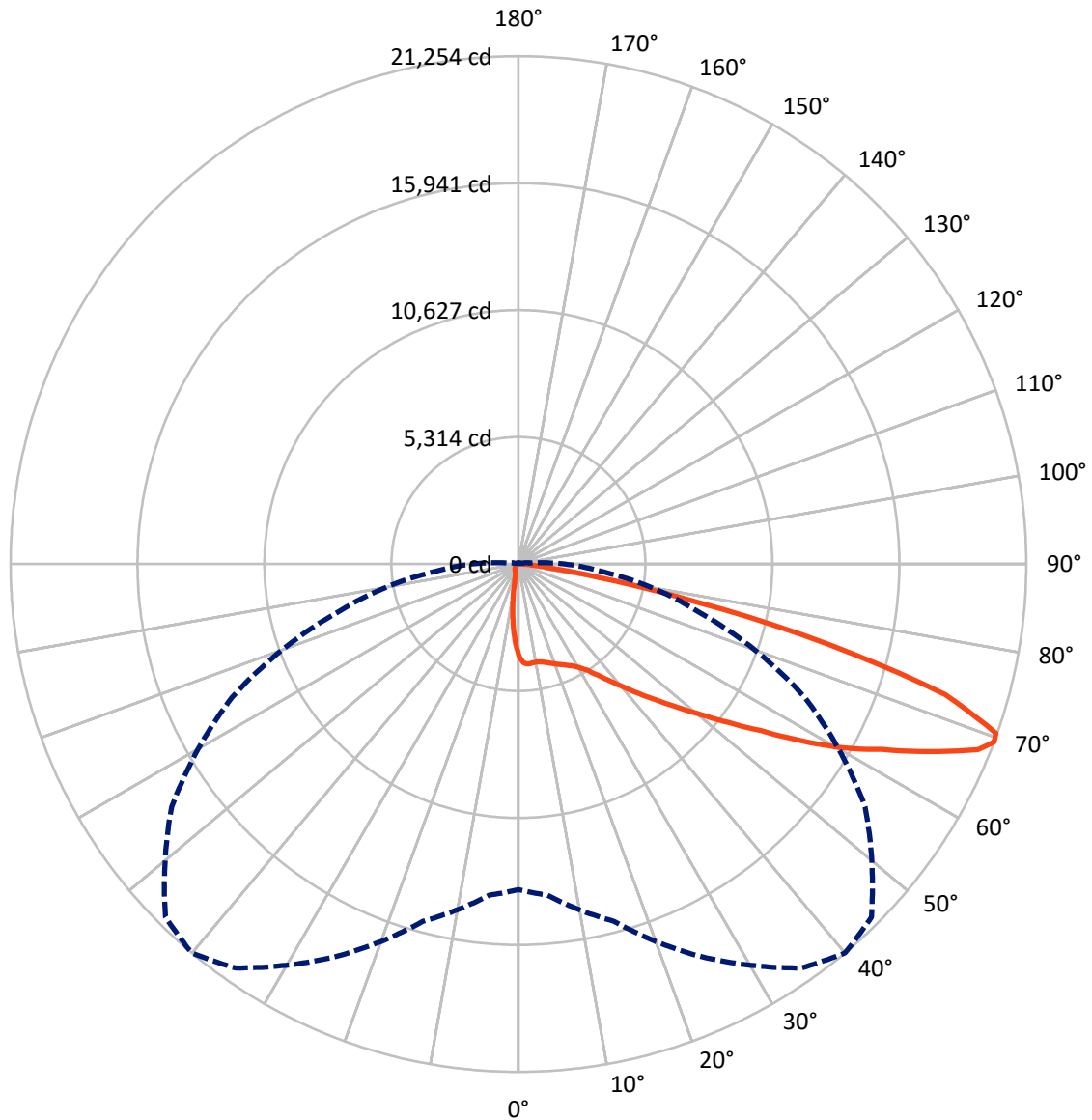


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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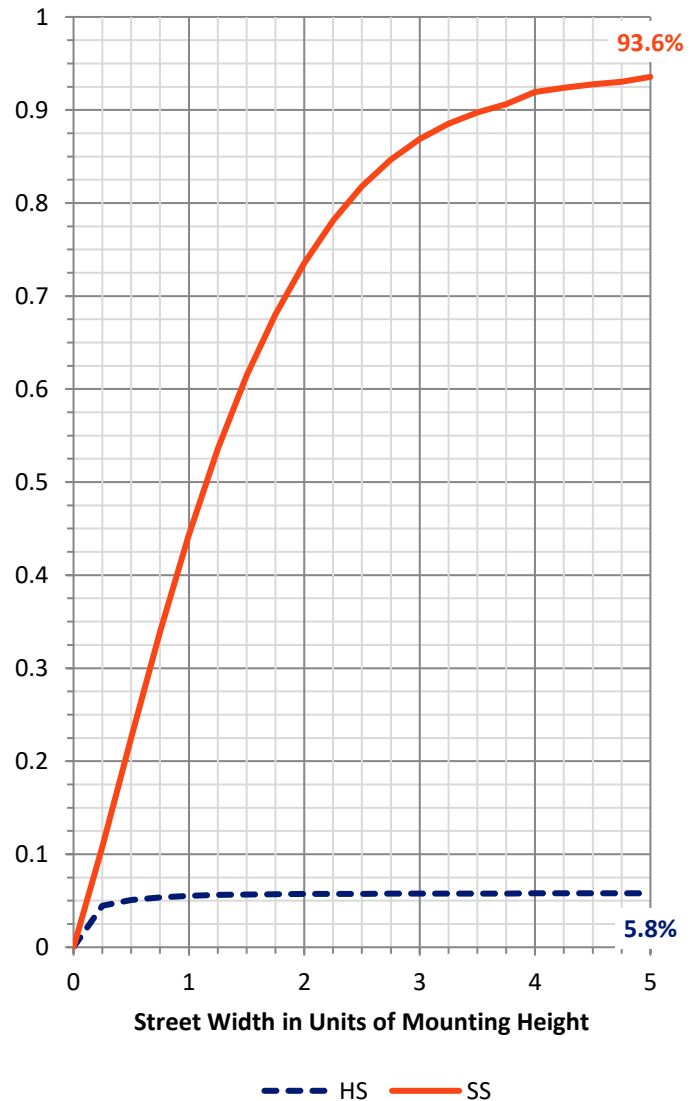
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1513.3	0.0	1513.3
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	24351.8	0.0	24351.8
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	25865.0	0.0	25865.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.3	1.2
10°-20°	770.5	3.0
20°-30°	1297.8	5.0
30°-40°	2124.6	8.2
40°-50°	3678.6	14.2
50°-60°	5794.2	22.4
60°-70°	7567.0	29.3
70°-80°	3897.3	15.1
80°-90°	421.6	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°	25865.0	100.0
0°-180°	25865.0	100.0



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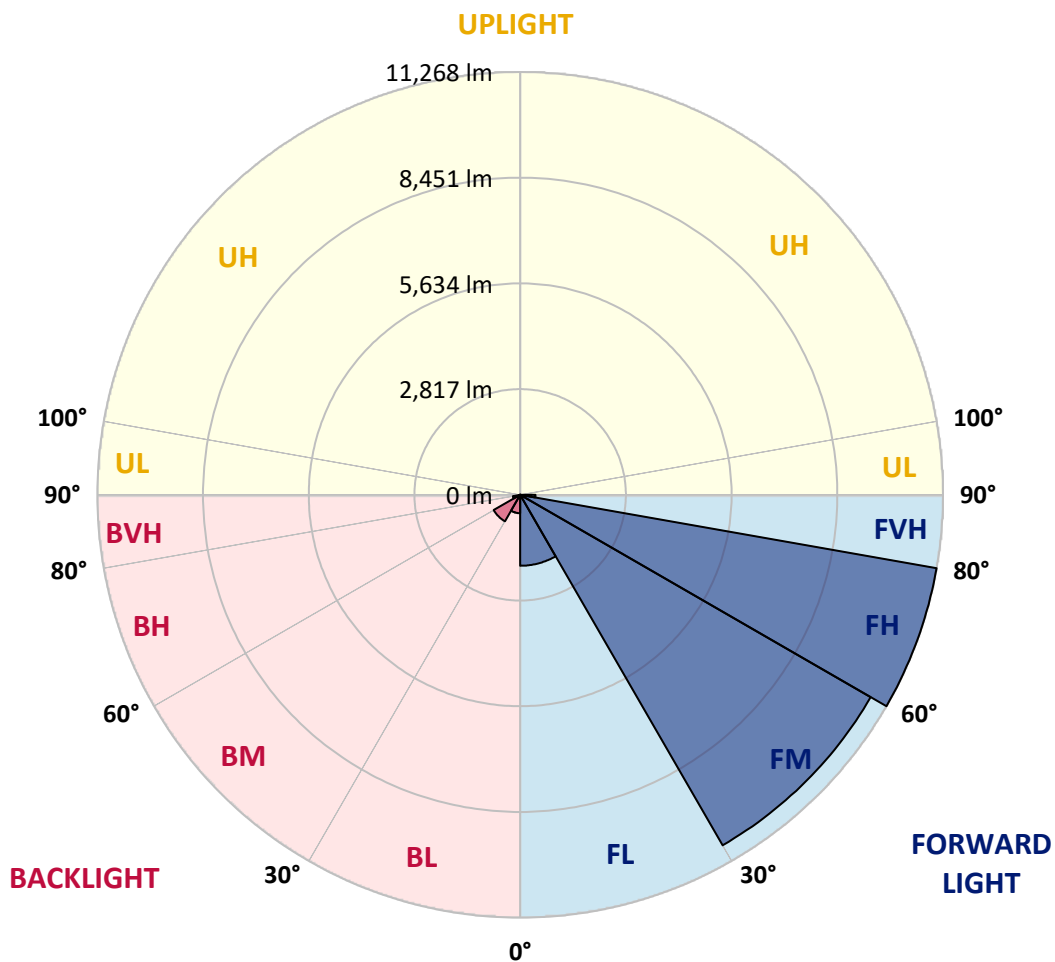
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1891.5	7.3			
FM	(30°-60°)	10784.1	41.7			
FH	(60°-80°)	11267.9	43.6			G4/12000
FVH	(80°-90°)	408.3	1.6			G3/500
BL	(0°-30°)	490.2	1.9	B1/500		
BM	(30°-60°)	813.3	3.1	B1/1000		
BH	(60°-80°)	196.5	0.8	B1/500		G1/500
BVH	(80°-90°)	13.2	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°	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4
2.5°	4243.1	4220.0	4206.2	4187.7	4164.6	4144.6	4136.9	4079.9	4026.0	3952.1	3867.4
5°	4321.6	4313.9	4289.3	4264.7	4236.9	4206.2	4189.2	4121.5	4044.5	3936.7	3788.9
7.5°	4329.3	4320.1	4289.3	4255.4	4216.9	4180.0	4150.7	4083.0	4012.2	3902.9	3722.7
10°	4317.0	4306.2	4283.1	4246.2	4198.5	4163.0	4133.8	4069.1	4009.1	3910.6	3710.4
12.5°	4303.1	4292.4	4281.6	4263.1	4221.5	4196.9	4172.3	4110.7	4056.8	3973.7	3755.1
15°	4317.0	4310.8	4323.2	4315.5	4292.4	4270.8	4246.2	4190.8	4141.5	4072.2	3836.7
17.5°	4375.5	4375.5	4414.0	4418.6	4397.1	4366.3	4330.9	4275.4	4233.9	4175.4	3933.6
20°	4512.5	4507.9	4557.2	4566.4	4514.1	4466.3	4414.0	4346.3	4313.9	4277.0	4029.1
22.5°	4748.1	4726.5	4755.8	4746.5	4643.4	4569.5	4504.8	4421.7	4404.8	4387.8	4135.3
25°	5054.5	5042.1	5062.2	4971.3	4789.7	4689.6	4612.6	4518.7	4518.7	4535.6	4255.4
27.5°	5499.4	5453.2	5385.5	5225.4	4952.9	4825.1	4741.9	4641.9	4668.0	4731.2	4414.0
30°	5955.1	5904.3	5748.8	5502.5	5151.5	5017.5	4920.5	4815.8	4877.4	4992.9	4626.5
32.5°	6404.7	6347.7	6127.6	5816.6	5436.3	5302.3	5208.4	5093.0	5196.1	5390.1	4937.5
35°	6840.4	6789.6	6535.5	6169.1	5815.0	5704.2	5618.0	5517.9	5650.3	5921.3	5376.2
37.5°	7330.0	7274.5	6965.1	6567.9	6275.4	6195.3	6132.2	6032.1	6263.0	6660.3	5987.5
40°	7932.0	7838.0	7420.8	7025.1	6808.1	6769.6	6726.5	6712.6	7071.3	7621.0	6801.9
42.5°	8621.7	8467.7	7898.1	7507.0	7393.1	7420.8	7410.0	7471.6	8082.8	8815.7	7793.4
45°	9311.4	9112.8	8429.2	8021.2	8036.6	8133.6	8193.7	8440.0	9349.9	10185.9	8860.3
47.5°	9896.5	9700.9	8938.8	8577.0	8761.8	8952.7	9115.9	9582.4	10652.4	11534.6	9690.2
50°	10396.8	10212.1	9479.2	9188.3	9603.9	9911.9	10176.7	10867.9	12053.4	12561.5	10272.1
52.5°	10806.4	10683.2	10039.6	9888.8	10566.2	11017.3	11405.3	12233.6	13294.3	13395.9	10724.8
55°	11205.1	11117.4	10641.6	10721.7	11696.2	12310.5	12801.7	13682.3	14362.8	14091.8	11158.9
57.5°	11663.9	11583.9	11328.3	11777.8	13181.9	13954.8	14490.6	14966.3	15303.5	14803.1	11568.5
60°	12131.9	12085.8	12091.9	12951.0	14887.8	15629.9	15925.5	16048.7	16227.2	15472.9	11591.6
62.5°	12578.4	12666.2	12964.9	14256.6	16521.3	17091.0	17240.3	17361.9	17152.5	15579.1	10709.4
65°	13334.4	13477.5	14190.4	16004.0	18318.0	18927.7	19081.6	18664.4	17298.8	14205.8	8711.0
67.5°	13703.9	13965.6	15237.3	17632.9	20060.8	20738.2	20681.3	18749.1	15523.7	10832.5	5590.2
69°	13626.9	13905.6	15479.0	18131.7	20639.7	21254.0	20892.2	17713.0	13225.1	7847.3	3431.7
70°	13322.0	13603.8	15354.3	18113.2	20713.6	21200.1	20501.1	16433.6	11182.0	5738.0	2146.2
72.5°	11125.1	11368.3	13631.5	16372.0	19081.6	18686.0	17151.0	11385.2	5448.6	1562.7	483.4
75°	6848.1	6983.6	9781.0	12333.6	14412.1	13395.9	11426.8	5664.1	1624.3	441.9	267.9
77.5°	3618.0	3679.6	5354.7	7269.9	9135.9	7559.4	5856.6	2209.3	748.2	277.1	194.0
80°	2138.5	2184.7	2883.6	3324.0	3953.7	3302.4	2341.7	1356.4	535.8	174.0	172.4
82.5°	1224.0	1253.2	2090.8	1847.5	1558.1	1330.2	1165.5	1285.6	321.8	117.0	178.6
85°	449.6	455.7	1176.2	1405.6	926.8	551.2	578.9	1065.4	86.2	73.9	140.1
87.5°	209.4	204.8	605.1	860.6	541.9	349.5	451.1	234.0	33.9	47.7	38.5
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°	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4	3864.4
2.5°	3818.2	3761.2	3658.1	3551.8	3444.1	3360.9	3279.3	3214.7	3193.1	3153.1	3156.2
5°	3701.2	3596.5	3380.9	3162.3	2934.5	2746.6	2569.6	2426.4	2357.1	2286.3	2286.3
7.5°	3599.6	3447.1	3110.0	2754.3	2386.4	2076.9	1798.2	1588.9	1473.4	1381.0	1379.5
10°	3561.1	3354.8	2883.6	2374.0	1861.4	1439.5	1108.5	896.0	786.7	715.9	712.8
12.5°	3578.0	3322.4	2709.7	2023.0	1379.5	925.3	642.0	505.0	458.8	437.2	437.2
15°	3627.3	3313.2	2535.7	1679.7	974.6	578.9	426.5	389.5	386.4	386.4	386.4
17.5°	3687.3	3316.3	2357.1	1345.6	663.6	414.1	368.0	363.3	366.4	366.4	366.4
20°	3748.9	3317.8	2164.7	1036.1	468.0	360.3	346.4	344.9	347.9	347.9	349.5
22.5°	3824.3	3325.5	1972.2	774.4	386.4	340.2	329.5	329.5	331.0	331.0	329.5
25°	3910.6	3340.9	1772.1	574.3	352.6	326.4	317.2	315.6	317.2	315.6	314.1
27.5°	4018.3	3362.5	1548.8	449.6	337.2	312.5	304.8	304.8	303.3	301.8	300.2
30°	4153.8	3387.1	1297.9	381.8	321.8	300.2	292.5	291.0	289.4	286.4	286.4
32.5°	4360.1	3441.0	1050.0	346.4	304.8	283.3	277.1	277.1	274.0	271.0	269.4
35°	4677.3	3547.2	828.3	324.9	286.4	264.8	257.1	257.1	254.0	252.5	251.0
37.5°	5116.0	3708.9	643.5	304.8	267.9	244.8	237.1	235.6	232.5	229.4	227.9
40°	5699.6	3909.0	506.5	286.4	249.4	224.8	218.6	215.5	209.4	204.8	204.8
42.5°	6432.4	4136.9	411.1	266.3	227.9	206.3	201.7	197.1	186.3	181.7	180.1
45°	7199.1	4341.6	347.9	243.3	206.3	187.8	184.8	177.1	163.2	158.6	158.6
47.5°	7751.8	4389.4	306.4	221.7	186.3	167.8	166.3	152.4	140.1	137.0	135.5
50°	8096.7	4295.4	272.5	200.1	167.8	149.3	144.7	127.8	120.1	117.0	115.5
52.5°	8329.2	4127.6	244.8	181.7	150.9	132.4	121.6	109.3	103.2	100.1	100.1
55°	8515.5	3890.5	217.1	164.7	137.0	118.5	103.2	93.9	87.8	84.7	84.7
57.5°	8567.8	3568.8	189.4	150.9	123.2	104.7	87.8	81.6	73.9	72.4	72.4
60°	8187.5	2988.3	167.8	133.9	110.9	90.8	77.0	69.3	61.6	60.0	58.5
62.5°	7185.3	2312.5	147.8	118.5	97.0	78.5	66.2	57.0	50.8	50.8	50.8
65°	5480.9	1550.4	129.3	103.2	84.7	66.2	57.0	46.2	43.1	43.1	44.6
67.5°	3280.9	843.7	110.9	87.8	72.4	55.4	47.7	40.0	38.5	40.0	40.0
69°	1922.9	495.7	100.1	78.5	63.1	49.3	41.6	35.4	38.5	40.0	40.0
70°	1187.0	334.1	92.4	70.8	57.0	44.6	38.5	33.9	37.0	38.5	38.5
72.5°	331.0	172.4	73.9	55.4	46.2	37.0	30.8	30.8	35.4	37.0	37.0
75°	215.5	127.8	57.0	41.6	35.4	29.3	26.2	29.3	33.9	35.4	35.4
77.5°	178.6	104.7	46.2	33.9	29.3	27.7	24.6	26.2	30.8	32.3	32.3
80°	163.2	73.9	37.0	30.8	26.2	24.6	23.1	21.6	27.7	29.3	29.3
82.5°	155.5	58.5	32.3	27.7	24.6	21.6	20.0	21.6	24.6	26.2	27.7
85°	97.0	38.5	29.3	26.2	21.6	20.0	20.0	20.0	23.1	24.6	24.6
87.5°	35.4	30.8	26.2	21.6	18.5	18.5	18.5	18.5	20.0	23.1	23.1
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)