

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: P455682

Luminaire Tested: **GALN-SA6D-827-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33009 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

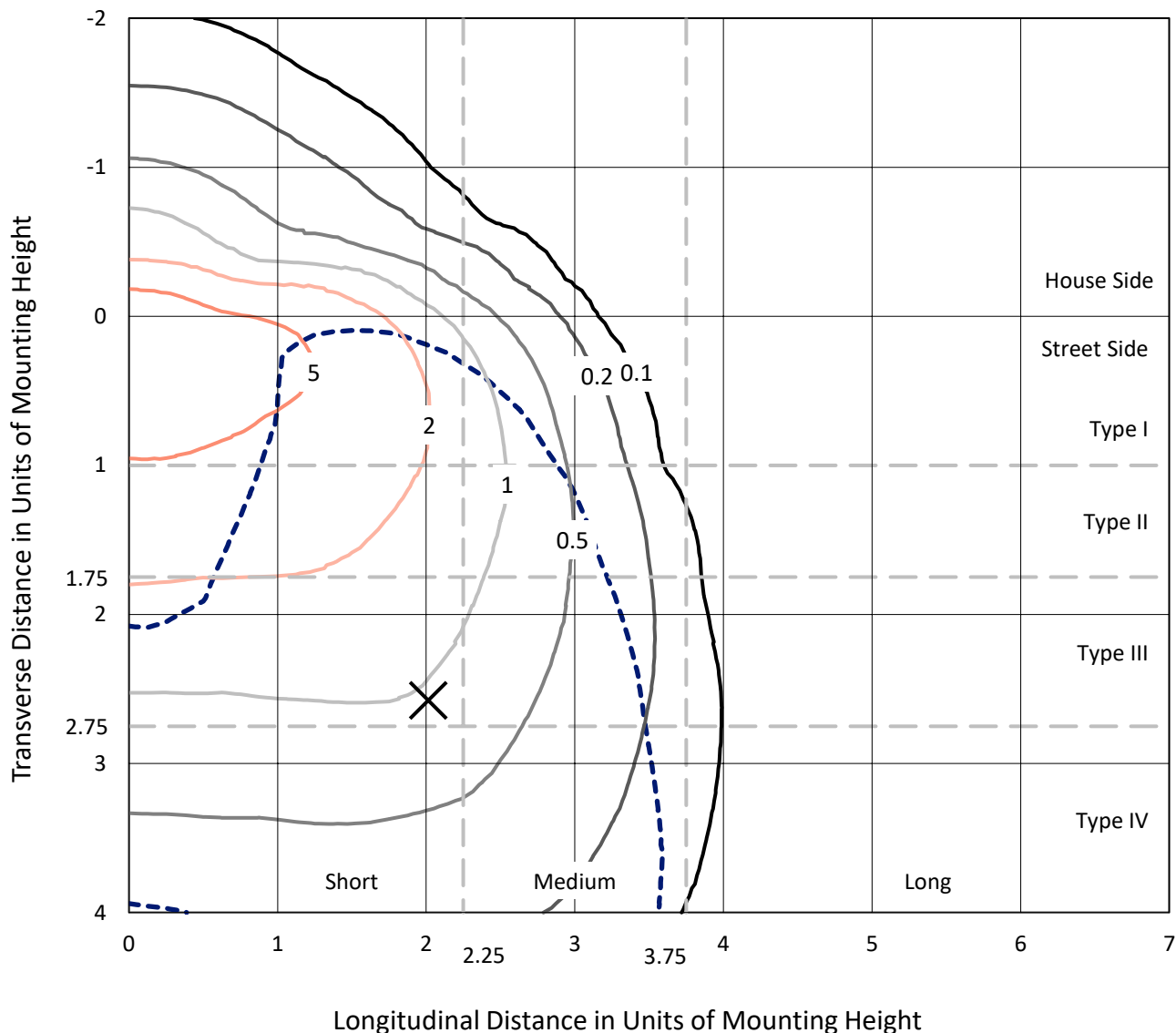
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

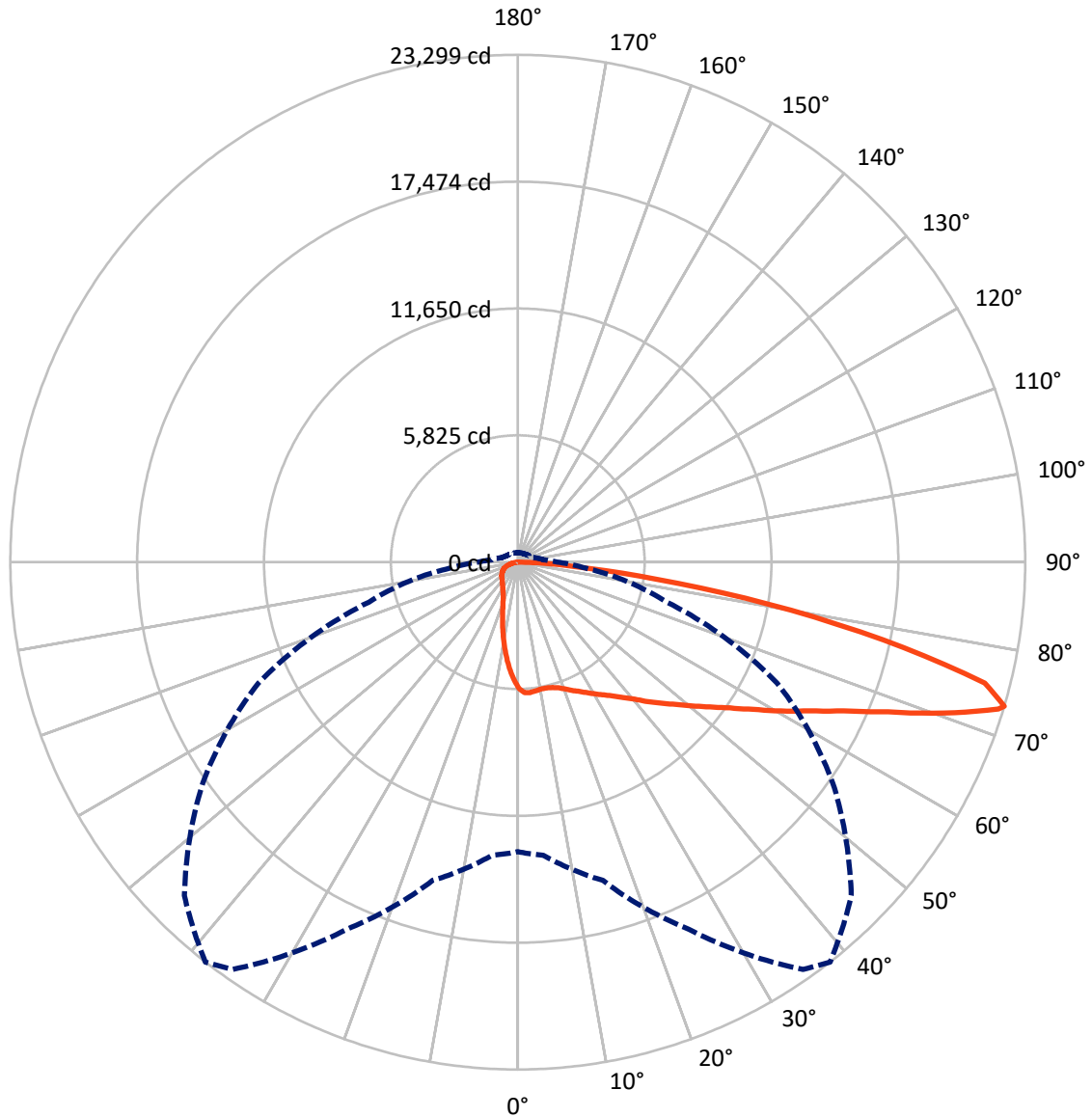
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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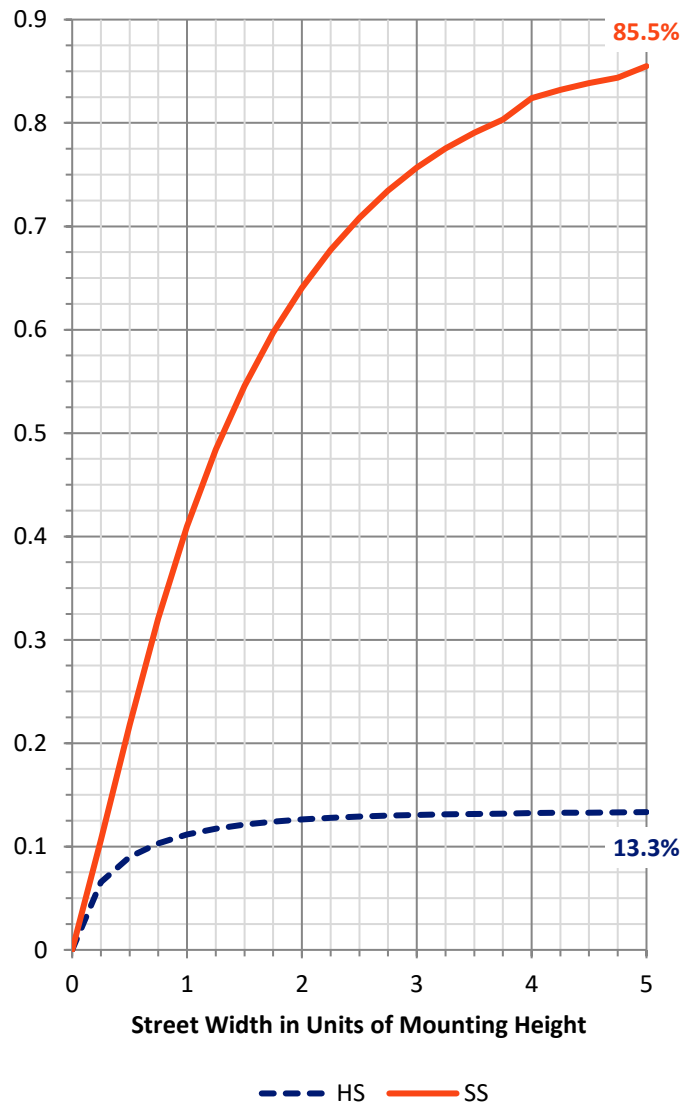
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4437.4	0.0	4437.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	28571.6	0.0	28571.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	33009.0	0.0	33009.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.2	1.5
10°-20°	1298.1	3.9
20°-30°	2021.3	6.1
30°-40°	2964.8	9.0
40°-50°	4398.0	13.3
50°-60°	6231.1	18.9
60°-70°	7904.3	23.9
70°-80°	6579.7	19.9
80°-90°	1105.5	3.3
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°	33009.0	100.0
0°-180°	33009.0	100.0



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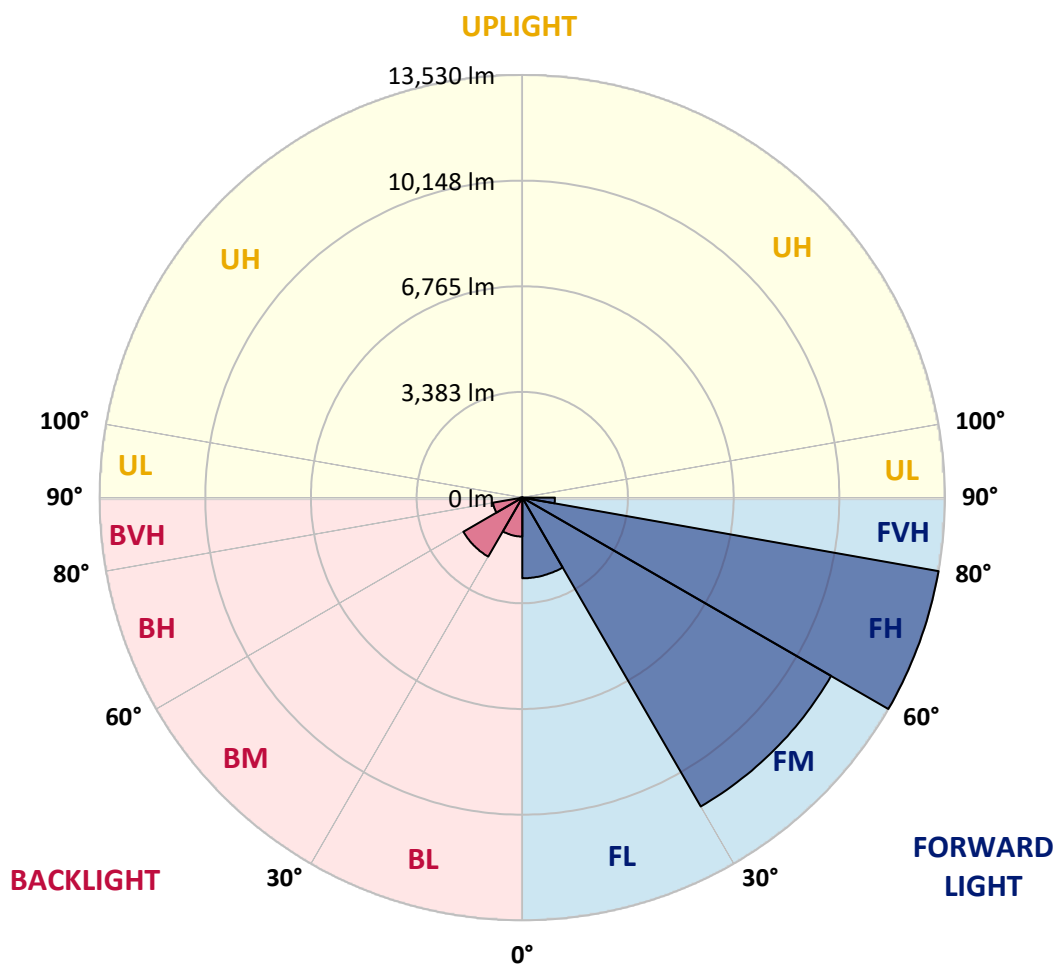
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2580.4	7.8			
FM	(30°-60°)	11415.4	34.6			
FH	(60°-80°)	13530.3	41.0			G5
FVH	(80°-90°)	1045.5	3.2			G5
BL	(0°-30°)	1245.2	3.8	B3/2500		
BM	(30°-60°)	2178.5	6.6	B2/2500		
BH	(60°-80°)	953.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	60.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1
2.5°	6032.1	6062.0	6047.0	6026.5	6013.5	6000.4	5981.8	5927.7	5884.9	5838.3	5765.6
5°	6076.9	6095.5	6082.5	6056.4	6026.5	6013.5	5978.1	5907.2	5838.3	5760.0	5651.9
7.5°	6050.8	6058.2	6043.3	6011.6	5985.5	5961.3	5920.3	5842.0	5758.1	5663.0	5521.4
10°	5957.6	5985.5	5985.5	5959.4	5933.3	5920.3	5879.3	5804.7	5728.3	5620.2	5452.4
12.5°	5881.1	5911.0	5935.2	5927.7	5925.9	5925.9	5894.2	5838.3	5748.8	5646.3	5446.8
15°	5828.9	5864.4	5916.6	5946.4	5965.0	5970.6	5957.6	5909.1	5817.8	5698.5	5469.2
17.5°	5817.8	5860.6	5955.7	6020.9	6069.4	6067.5	6063.8	5996.7	5896.1	5773.0	5497.1
20°	5868.1	5924.0	6056.4	6158.9	6229.7	6216.7	6196.2	6108.6	5991.1	5853.2	5523.2
22.5°	6019.1	6076.9	6222.3	6334.1	6403.1	6403.1	6341.6	6226.0	6101.1	5946.4	5558.7
25°	6235.3	6298.7	6453.4	6567.1	6598.8	6574.6	6513.1	6373.3	6229.7	6080.6	5633.2
27.5°	6500.0	6576.4	6720.0	6815.0	6805.7	6787.1	6723.7	6544.7	6401.2	6265.1	5760.0
30°	6830.0	6885.9	7035.0	7057.4	7023.8	7020.1	6930.6	6751.7	6617.4	6513.1	5940.8
32.5°	7141.3	7191.6	7310.9	7320.2	7260.6	7268.0	7184.1	7020.1	6943.7	6906.4	6244.6
35°	7471.2	7497.3	7599.8	7588.6	7549.5	7543.9	7510.3	7353.8	7378.0	7445.1	6675.2
37.5°	7747.1	7799.3	7857.1	7866.4	7864.5	7883.2	7905.5	7831.0	7970.8	8181.4	7240.0
40°	8000.6	8045.3	8131.1	8160.9	8233.6	8270.9	8347.3	8349.2	8671.7	9018.4	7935.3
42.5°	8172.1	8248.5	8408.8	8462.9	8640.0	8751.8	8865.5	8986.7	9454.6	9900.1	8755.5
45°	8321.2	8421.9	8688.4	8856.2	9096.7	9232.7	9473.2	9726.7	10399.6	10983.1	9588.8
47.5°	8546.8	8636.2	8941.9	9238.3	9601.8	9758.4	10118.2	10496.6	11376.4	12015.8	10386.6
50°	8859.9	8914.0	9225.3	9708.1	10172.2	10373.5	10848.9	11395.1	12420.3	13035.4	11087.5
52.5°	9260.7	9283.1	9531.0	10174.1	10785.5	11035.3	11665.4	12302.9	13333.7	13920.9	11643.0
55°	9734.2	9696.9	9890.8	10668.1	11486.4	11812.6	12489.3	13221.8	14360.8	14636.7	12047.5
57.5°	10202.1	10144.3	10299.0	11268.3	12351.3	12744.6	13533.1	14168.8	15277.9	15305.9	12330.8
60°	10697.9	10655.0	10839.6	11972.9	13412.0	13878.0	14606.9	15151.2	16165.2	15771.9	12375.6
62.5°	11206.8	11137.8	11400.7	12765.2	14606.9	15030.0	15736.5	16195.0	17035.7	15945.3	11945.0
65°	11700.8	11669.1	12075.4	13706.5	15967.6	16448.6	17134.5	17445.8	17732.9	15684.3	10876.8
67.5°	12226.4	12289.8	12938.5	14962.9	17742.2	18346.2	19086.2	18793.6	17932.4	14448.4	9160.0
70°	13028.0	13069.0	14071.9	16608.9	20029.4	20758.3	21116.2	19272.6	16970.5	12101.5	6885.9
72.5°	13372.8	13553.7	15084.1	18336.9	22627.9	23073.5	21798.4	18204.5	14137.1	8220.5	3618.2
73°	13296.4	13512.6	15130.7	18599.7	22831.1	23299.0	21653.0	17654.6	13141.7	7079.7	3101.8
75°	12343.9	12610.4	14524.8	18379.7	22435.9	22156.3	19315.5	15046.8	8880.4	3219.2	1413.0
77.5°	9739.8	9816.2	11508.8	14841.7	17667.7	17149.4	14455.9	9404.2	3627.5	1196.7	801.6
80°	4885.7	5167.2	6487.0	8502.0	11814.5	11644.8	9124.6	4447.7	1511.8	702.8	531.3
82.5°	2350.6	2550.0	3159.6	4145.7	6528.0	6373.3	4518.5	2430.7	960.0	410.1	313.2
85°	1513.6	1662.8	2011.3	1977.8	2684.3	2563.1	2030.0	1839.8	568.5	214.4	218.1
87.5°	999.1	1094.2	1312.3	1049.5	976.8	883.6	896.6	1036.4	111.8	82.0	29.8
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°	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1	5799.1
2.5°	5735.7	5711.5	5631.4	5553.1	5478.5	5407.7	5361.1	5299.6	5258.5	5269.7	5286.5
5°	5592.2	5538.2	5396.5	5258.5	5128.1	4973.3	4848.4	4747.8	4671.4	4643.4	4637.8
7.5°	5441.2	5349.9	5146.7	4910.0	4688.1	4496.1	4274.3	4164.3	4035.7	3991.0	3976.1
10°	5349.9	5226.9	4941.6	4611.7	4278.0	3959.3	3718.8	3523.1	3346.0	3312.5	3295.7
12.5°	5323.8	5161.6	4777.6	4352.6	3909.0	3517.5	3161.5	2904.2	2732.7	2693.6	2635.8
15°	5308.9	5107.6	4624.8	4091.6	3528.7	3051.5	2676.8	2376.7	2220.1	2115.7	2117.6
17.5°	5295.8	5046.0	4453.3	3806.4	3200.6	2650.7	2236.9	1966.6	1823.1	1767.1	1761.5
20°	5277.2	4973.3	4255.7	3506.3	2825.9	2285.3	1910.7	1709.4	1612.4	1565.8	1564.0
22.5°	5269.7	4902.5	4061.8	3200.6	2494.1	2003.9	1694.4	1552.8	1491.3	1459.6	1459.6
25°	5288.4	4852.2	3858.6	2909.8	2199.6	1763.4	1545.3	1448.4	1413.0	1396.2	1390.6
27.5°	5346.2	4829.8	3657.3	2619.0	1929.3	1599.4	1444.7	1377.5	1351.5	1338.4	1340.3
30°	5456.1	4827.9	3459.7	2332.0	1728.0	1474.5	1364.5	1317.9	1297.4	1289.9	1288.1
32.5°	5633.2	4869.0	3265.9	2095.2	1558.4	1370.1	1289.9	1256.4	1247.1	1241.5	1239.6
35°	5933.3	4984.5	3073.9	1879.0	1427.9	1276.9	1219.1	1202.3	1189.3	1194.9	1196.7
37.5°	6337.8	5184.0	2891.2	1709.4	1329.1	1207.9	1159.5	1144.5	1137.1	1142.7	1148.3
40°	6880.3	5471.0	2738.3	1573.3	1258.2	1150.1	1107.3	1094.2	1086.8	1096.1	1097.9
42.5°	7478.6	5802.8	2611.6	1467.0	1200.5	1101.7	1060.7	1045.7	1040.2	1045.7	1047.6
45°	8093.8	6188.7	2546.3	1390.6	1152.0	1066.2	1023.4	1006.6	993.5	989.8	995.4
47.5°	8699.6	6524.2	2544.5	1344.0	1112.8	1034.6	988.0	969.3	952.5	943.2	941.4
50°	9193.6	6790.8	2589.2	1323.5	1079.3	999.1	952.5	933.9	911.5	892.9	896.6
52.5°	9566.4	6964.2	2609.7	1314.2	1060.7	961.9	915.3	898.5	872.4	848.2	848.2
55°	9806.9	7005.2	2559.4	1304.8	1045.7	922.7	872.4	857.5	831.4	807.1	807.1
57.5°	9888.9	6878.4	2378.6	1282.5	1030.8	889.2	829.5	816.5	796.0	771.7	768.0
60°	9698.8	6449.7	2061.7	1215.4	1001.0	853.7	782.9	777.3	769.9	749.4	747.5
62.5°	8966.2	5540.0	1716.8	1127.8	950.7	816.5	740.0	749.4	754.9	743.8	741.9
65°	7747.1	4498.0	1467.0	1006.6	883.6	764.3	693.4	717.7	732.6	732.6	728.9
67.5°	6283.8	3454.1	1235.9	902.2	799.7	693.4	641.2	659.9	671.1	667.3	676.7
70°	4466.3	2339.4	1006.6	782.9	693.4	613.3	574.1	574.1	566.7	562.9	562.9
72.5°	2166.0	1336.5	816.5	654.3	590.9	523.8	492.1	479.1	464.2	462.3	453.0
73°	1810.0	1198.6	779.2	630.1	566.7	510.8	475.3	454.8	445.5	438.1	436.2
75°	1101.7	909.7	650.6	531.3	482.8	439.9	408.2	389.6	380.3	374.7	372.8
77.5°	725.1	678.5	505.2	406.4	369.1	343.0	329.9	311.3	305.7	298.3	298.3
80°	540.6	518.2	361.6	287.1	264.7	242.3	238.6	234.9	220.0	210.6	206.9
82.5°	348.6	369.1	246.1	192.0	167.8	149.1	151.0	156.6	141.7	128.6	124.9
85°	247.9	266.6	149.1	87.6	70.8	61.5	69.0	61.5	63.4	50.3	41.0
87.5°	41.0	70.8	26.1	11.2	5.6	3.7	0.0	0.0	0.0	0.0	0.0
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)