

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: STREETWORKS

Report Number: P457620

Luminaire Tested: **GLAN-SA9A-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28376 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

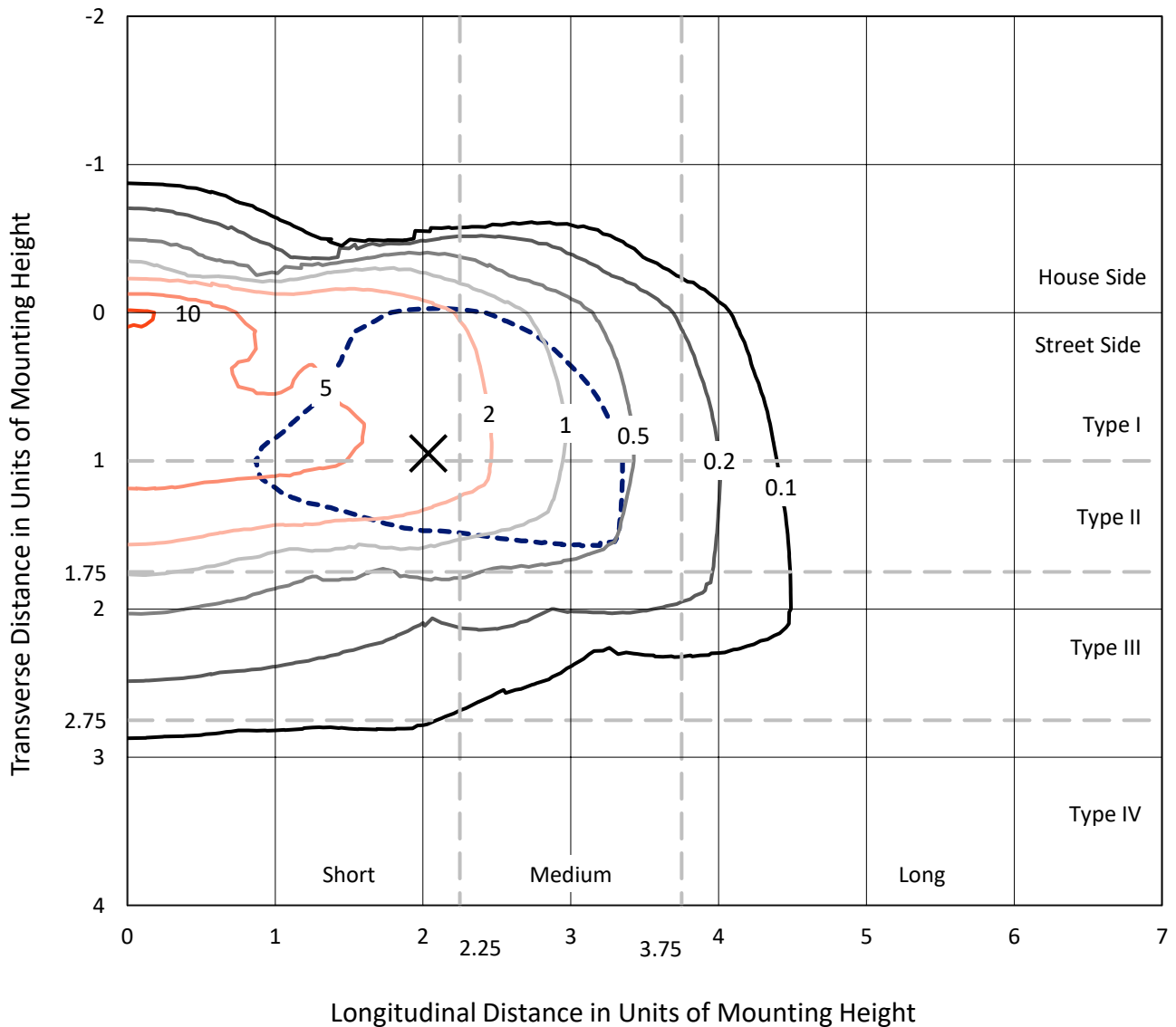
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

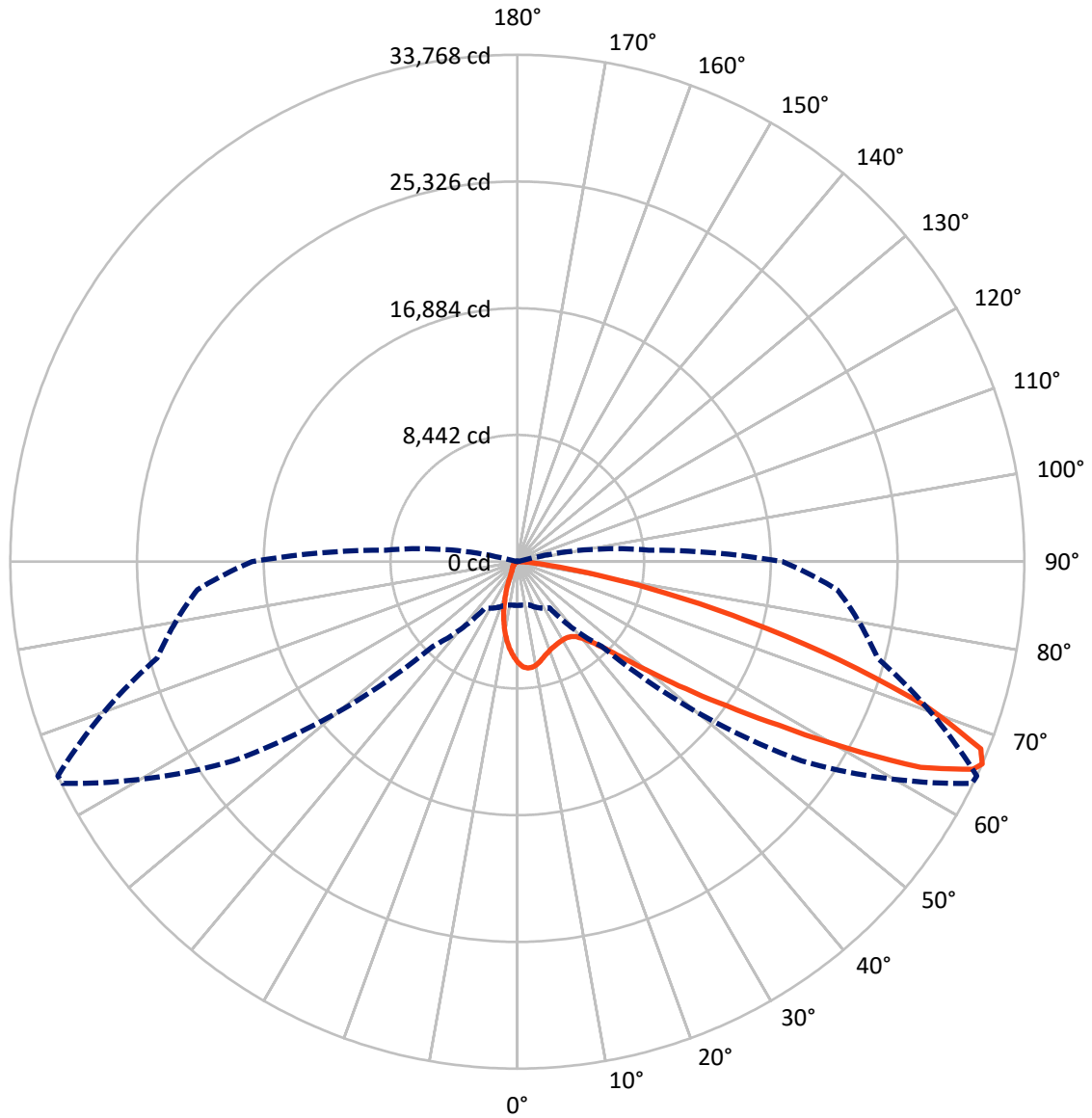
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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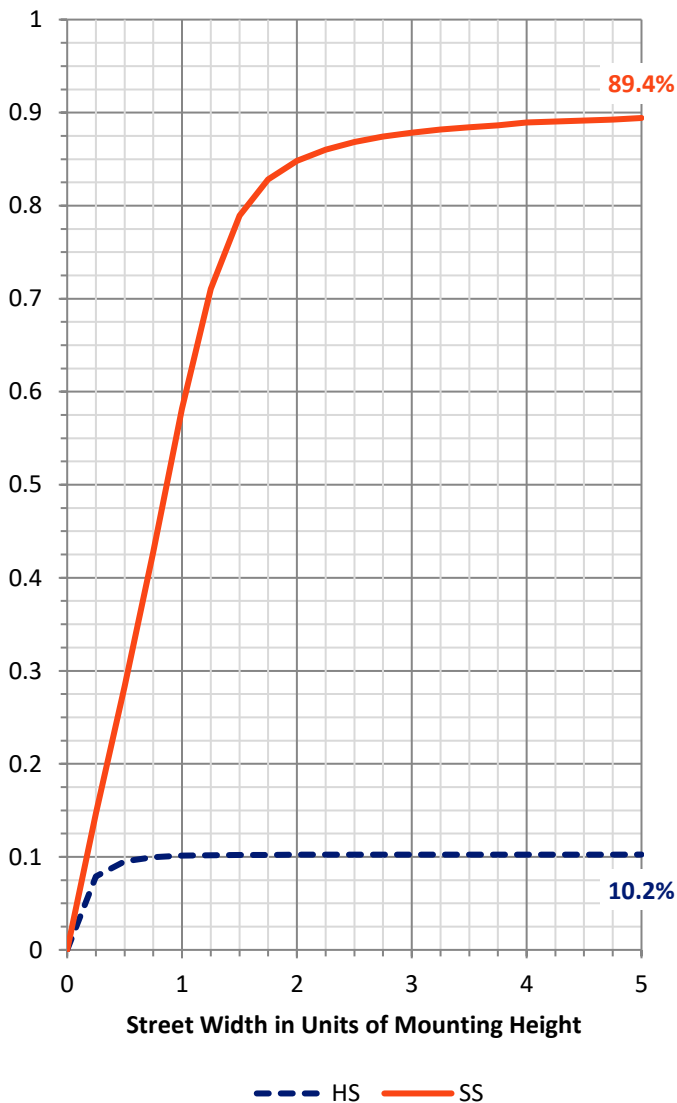
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2934.5	0.0	2934.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	25441.5	0.0	25441.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	28376.0	0.0	28376.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.3	1.9
10°-20°	1199.1	4.2
20°-30°	1717.7	6.1
30°-40°	2508.8	8.8
40°-50°	4206.9	14.8
50°-60°	7020.6	24.7
60°-70°	7452.2	26.3
70°-80°	3375.1	11.9
80°-90°	345.3	1.2
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°	28376.0	100.0
0°-180°	28376.0	100.0



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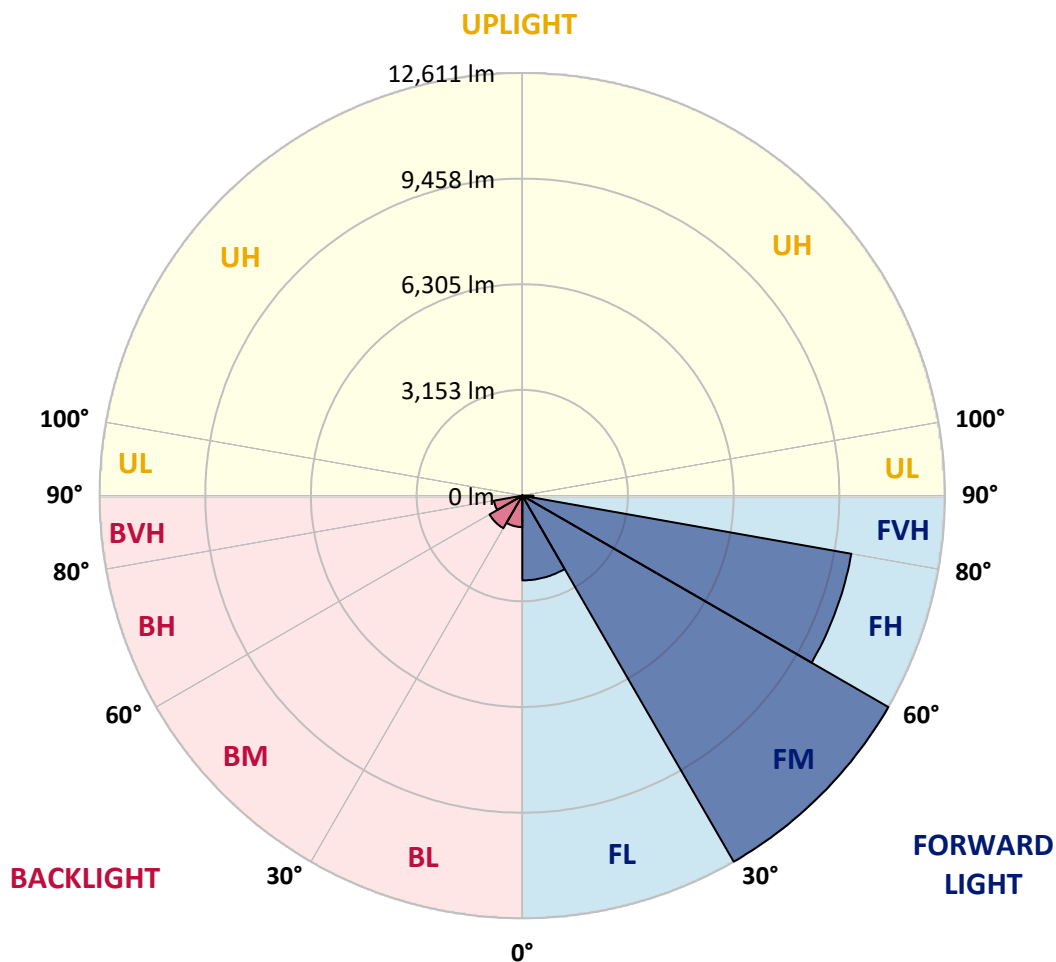
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.4	8.9			
FM	(30°-60°)	12610.9	44.4			
FH	(60°-80°)	9967.8	35.1			G4/12000
FVH	(80°-90°)	334.3	1.2			G3/500
BL	(0°-30°)	938.7	3.3	B2/1000		
BM	(30°-60°)	1125.4	4.0	B2/2500		
BH	(60°-80°)	859.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0
2.5°	7091.2	7098.9	7108.5	7121.9	7131.5	7102.7	7062.5	7016.5	7006.9	6909.2	6790.3
5°	6711.7	6723.2	6807.6	6853.6	6957.1	7051.0	7110.4	7118.1	7114.2	7022.2	6832.5
7.5°	6171.3	6203.9	6286.3	6366.8	6560.3	6738.6	6949.4	7097.0	7106.6	7081.6	6845.9
10°	5732.4	5753.5	5795.6	5954.7	6115.7	6387.9	6683.0	6960.9	6983.9	7083.6	6834.4
12.5°	5389.3	5420.0	5471.7	5594.4	5788.0	6044.8	6380.2	6753.9	6801.8	7047.1	6801.8
15°	5149.8	5165.1	5216.8	5337.6	5525.4	5763.1	6102.3	6537.3	6579.5	6999.2	6796.1
17.5°	5036.7	5053.9	5090.3	5186.2	5341.4	5561.8	5893.4	6362.9	6416.6	6968.6	6817.2
20°	5067.3	5082.7	5084.6	5134.4	5239.8	5425.7	5740.1	6200.0	6269.0	6949.4	6851.7
22.5°	5241.8	5243.7	5220.7	5197.7	5234.1	5368.2	5646.1	6096.5	6167.4	6945.6	6891.9
25°	5502.4	5508.2	5469.8	5389.3	5316.5	5385.5	5625.1	6029.5	6092.7	6936.0	6916.8
27.5°	5862.7	5860.8	5849.3	5715.1	5508.2	5462.2	5642.3	5993.0	6046.7	6909.2	6926.4
30°	6366.8	6351.4	6326.5	6175.1	5858.9	5648.1	5715.1	5970.0	6019.9	6870.8	6901.5
32.5°	6863.2	6920.7	6916.8	6773.1	6378.3	5979.6	5866.6	6000.7	6037.1	6845.9	6865.1
35°	7442.0	7440.0	7587.6	7533.9	7072.1	6403.2	6125.3	6102.3	6131.0	6863.2	6847.8
37.5°	7978.6	8028.4	8258.4	8314.0	7892.3	7001.1	6491.3	6320.8	6330.4	6980.1	6890.0
40°	8647.5	8743.3	9086.3	9272.3	8900.4	7888.5	7031.8	6721.3	6723.2	7267.5	7049.1
42.5°	9509.9	9661.3	9981.4	10291.9	10092.5	8938.8	7842.5	7355.7	7351.9	7773.5	7413.2
45°	10558.3	10663.7	11027.8	11520.4	11393.9	10404.9	9023.1	8338.9	8289.1	8603.4	8059.1
47.5°	11462.9	11606.6	11976.5	12538.0	13113.0	12195.0	10433.7	9690.1	9657.5	9923.9	9166.8
50°	11857.7	11984.2	12373.2	13160.9	14554.3	14544.7	12534.2	11662.2	11606.6	11750.3	10880.2
52.5°	11424.5	11543.4	11936.3	12917.5	15232.7	17408.0	15577.7	14136.4	14069.4	13885.4	12927.1
55°	9941.1	10038.9	10619.6	11746.5	14972.1	19316.9	19771.1	17193.3	16932.7	16217.8	15244.2
57.5°	7915.3	7865.5	8225.8	9534.8	13442.7	19957.0	24075.7	21001.5	20535.8	18234.0	17204.8
60°	5485.2	5638.5	5784.1	6646.6	10107.9	18847.3	26753.1	25789.1	25175.8	20217.7	19083.1
62.5°	4032.4	4134.0	4229.8	4628.5	6355.3	15048.7	27226.5	30706.9	30162.6	22323.9	20875.0
65°	3189.1	3196.8	3235.1	3628.0	4187.7	9785.9	24951.5	33480.2	33340.2	24351.6	21601.4
66°	2905.5	2907.4	2966.8	3388.5	3758.3	7969.0	23128.9	33691.0	33767.6	24838.4	21388.7
67.5°	2539.4	2531.8	2618.0	3045.4	3423.0	5745.8	19866.9	32836.2	33290.4	25212.2	20624.0
70°	1968.3	1958.7	2064.1	2554.8	3152.7	3833.1	13205.0	28194.3	28926.4	24447.5	18247.4
72.5°	1310.9	1318.6	1498.7	2016.2	3009.0	3375.0	7944.1	21448.1	22483.0	20188.9	14354.9
75°	764.7	778.1	983.2	1498.7	2612.3	3217.9	4496.2	15294.0	15955.3	13941.0	8942.6
77.5°	400.6	406.3	550.0	988.9	2002.8	2987.9	2995.6	9770.6	10081.0	6775.0	3539.9
80°	212.7	207.0	295.1	596.0	1378.0	2623.8	2430.2	5172.8	5377.8	2012.4	895.0
82.5°	80.5	88.2	157.2	391.0	814.5	1884.0	2092.9	2286.4	2215.5	442.7	375.6
85°	15.3	19.2	67.1	231.9	410.1	787.7	1542.8	1121.2	1038.8	166.7	216.6
87.5°	1.9	3.8	19.2	55.6	59.4	266.4	456.1	310.5	268.3	61.3	90.1
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°	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0	6729.0
2.5°	6732.8	6681.1	6508.6	6338.0	6163.6	6006.5	5899.1	5724.7	5680.6	5617.4	5581.0
5°	6719.4	6598.7	6267.1	5904.9	5567.6	5203.4	4925.5	4657.2	4513.5	4440.6	4413.8
7.5°	6681.1	6489.4	5972.0	5404.7	4864.2	4319.9	3846.5	3486.2	3254.3	3095.2	2987.9
10°	6604.4	6339.9	5628.9	4848.9	4032.4	3313.7	2713.8	2257.7	1905.0	1793.9	1797.7
12.5°	6525.8	6173.2	5245.6	4231.7	3219.8	2313.3	1677.0	1316.7	1148.0	1092.4	1080.9
15°	6453.0	6014.1	4869.9	3633.8	2397.6	1498.7	1080.9	954.4	908.4	898.9	896.9
17.5°	6414.7	5866.6	4469.4	2949.6	1673.1	1017.7	866.3	831.8	818.4	808.8	804.9
20°	6382.1	5738.1	4086.1	2309.4	1144.2	833.7	776.2	743.6	720.6	711.0	705.3
22.5°	6359.1	5605.9	3689.4	1788.1	875.9	739.8	688.0	645.9	613.3	601.8	594.1
25°	6324.6	5460.2	3288.8	1307.1	737.9	657.4	598.0	548.1	506.0	484.9	481.1
27.5°	6274.8	5295.4	2849.9	967.9	659.3	584.5	511.7	450.4	408.2	385.2	387.1
30°	6194.3	5122.9	2411.0	768.5	596.0	509.8	431.2	371.8	331.6	314.3	312.4
32.5°	6098.5	4914.0	2008.5	659.3	538.5	442.7	360.3	308.6	277.9	264.5	262.6
35°	6008.4	4703.2	1598.4	592.2	479.1	381.4	302.8	258.7	235.7	224.2	226.2
37.5°	5958.5	4515.4	1245.8	538.5	431.2	327.7	260.7	222.3	201.2	191.7	189.7
40°	5991.1	4362.1	990.9	490.6	377.6	281.7	224.2	191.7	170.6	157.2	157.2
42.5°	6144.4	4295.0	799.2	444.6	327.7	243.4	195.5	164.8	141.8	128.4	130.3
45°	6612.1	4365.9	668.9	402.5	281.7	210.8	168.7	136.1	115.0	105.4	103.5
47.5°	7388.3	4632.3	578.8	358.4	241.5	180.2	141.8	113.1	92.0	84.3	82.4
50°	8745.2	5182.3	511.7	314.3	205.1	153.3	116.9	90.1	72.8	65.2	65.2
52.5°	10611.9	6382.1	463.8	264.5	172.5	130.3	95.8	72.8	57.5	51.7	49.8
55°	12563.0	7647.0	438.9	222.3	143.7	107.3	76.7	57.5	44.1	38.3	36.4
57.5°	14439.3	8639.8	410.1	180.2	115.0	82.4	59.4	44.1	30.7	26.8	24.9
60°	16238.9	9442.8	348.8	143.7	90.1	59.4	44.1	30.7	21.1	17.2	17.2
62.5°	17848.8	9910.5	274.1	115.0	69.0	42.2	28.7	23.0	15.3	11.5	11.5
65°	18036.6	9302.9	207.0	88.2	49.8	26.8	17.2	17.2	11.5	7.7	7.7
66°	17659.1	8787.4	182.1	80.5	44.1	23.0	15.3	13.4	9.6	5.7	5.7
67.5°	16815.8	7907.7	157.2	69.0	36.4	17.2	11.5	11.5	7.7	3.8	3.8
70°	14529.3	6458.8	124.6	51.7	26.8	13.4	7.7	7.7	5.7	3.8	3.8
72.5°	11073.8	4822.0	101.6	38.3	19.2	9.6	5.7	5.7	5.7	3.8	3.8
75°	6679.2	2596.9	78.6	28.7	17.2	7.7	3.8	5.7	7.7	5.7	3.8
77.5°	2460.8	883.5	61.3	23.0	13.4	7.7	3.8	3.8	7.7	5.7	5.7
80°	603.7	230.0	44.1	19.2	13.4	7.7	3.8	3.8	7.7	7.7	7.7
82.5°	279.8	97.7	30.7	17.2	13.4	7.7	3.8	3.8	5.7	7.7	7.7
85°	161.0	46.0	24.9	19.2	13.4	7.7	3.8	3.8	5.7	7.7	7.7
87.5°	65.2	23.0	23.0	19.2	15.3	9.6	3.8	3.8	3.8	5.7	5.7
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)