

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: P319608

Luminaire Tested: **GAN-SA4C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23862 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

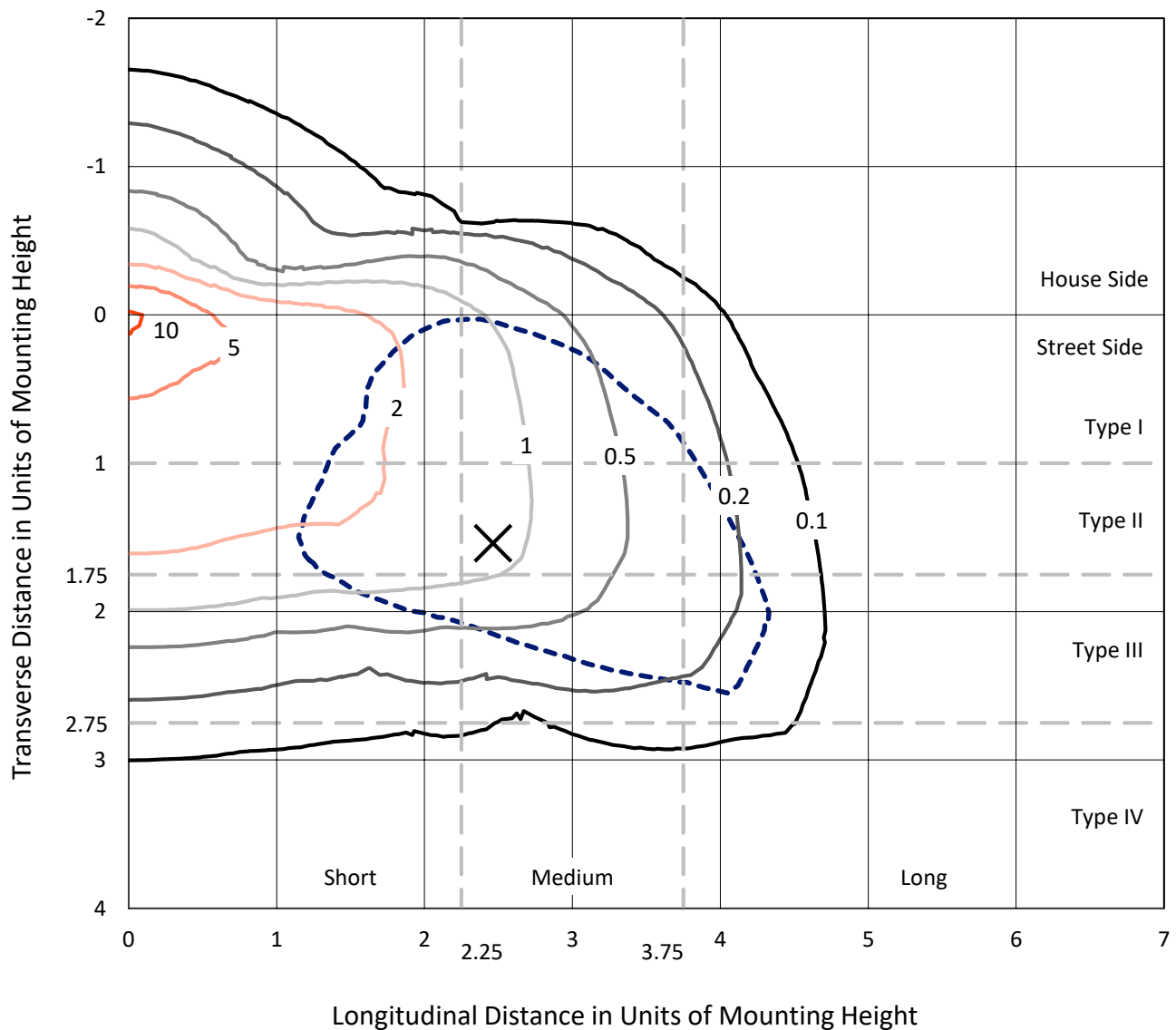
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

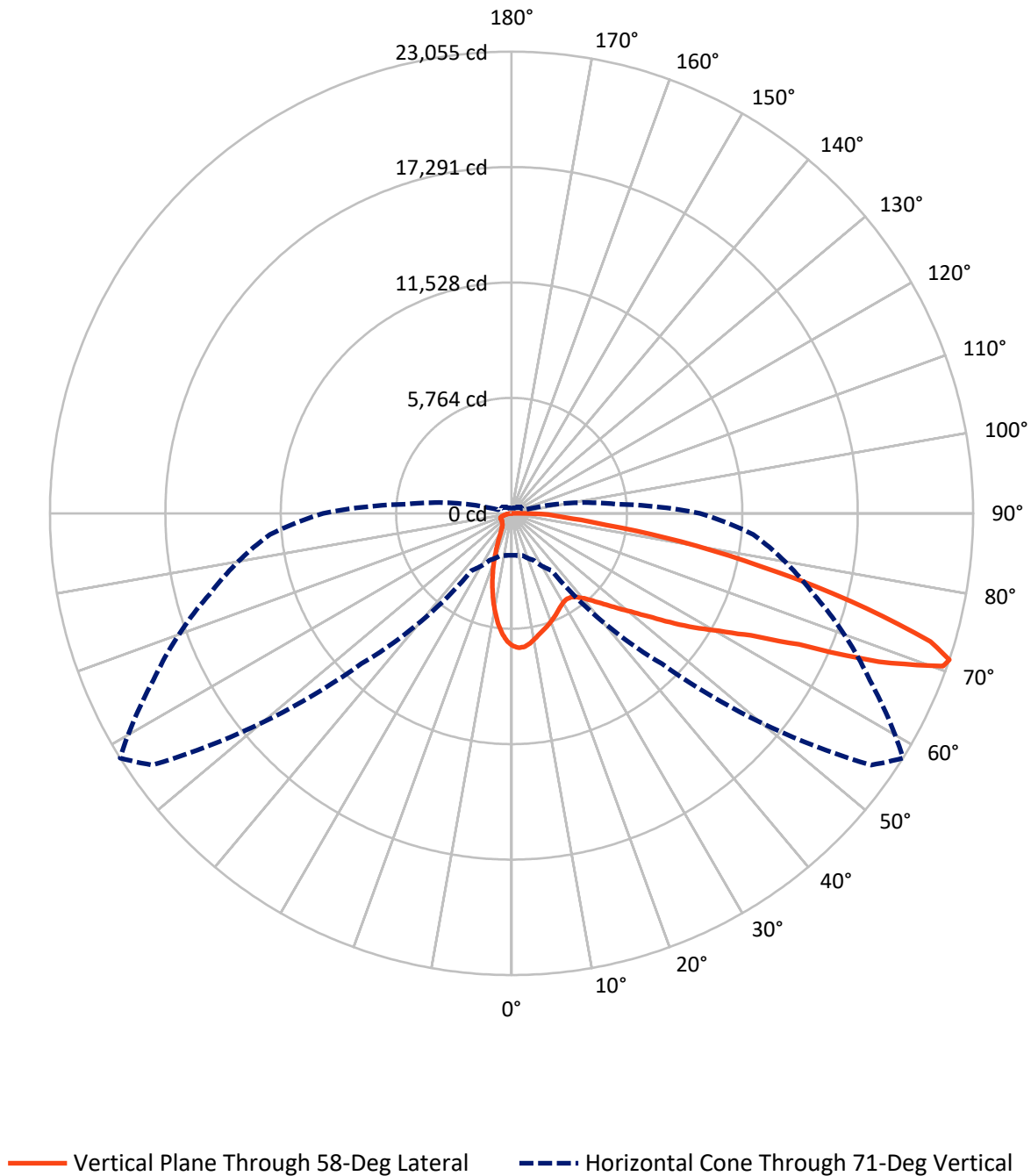
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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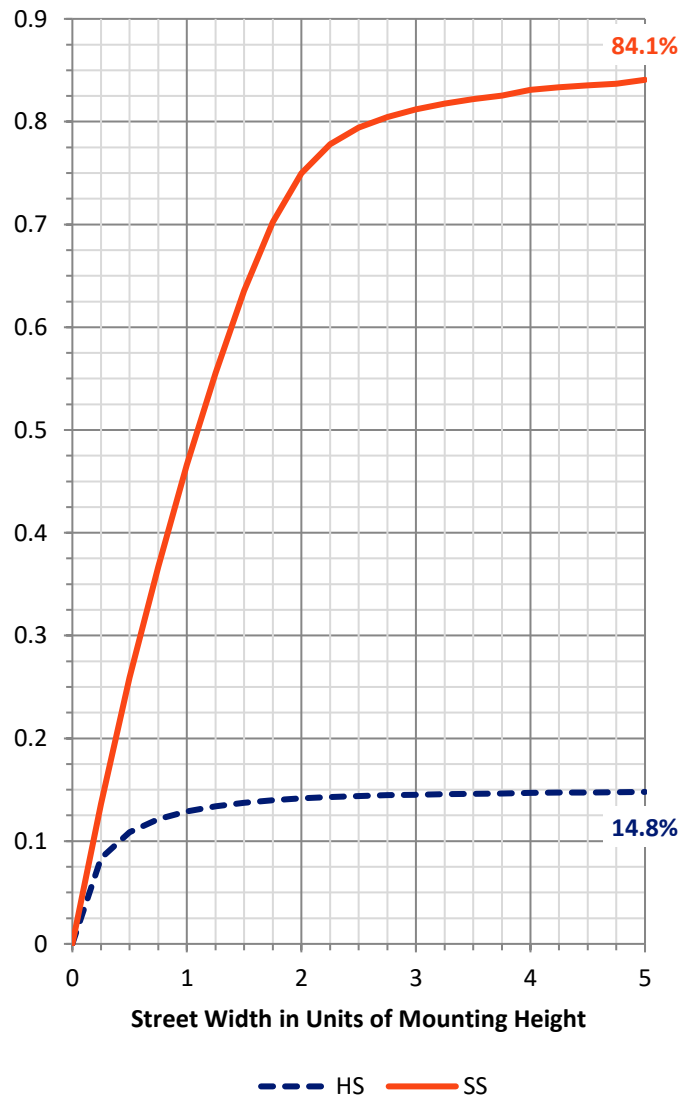
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3567.5	0.0	3567.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20294.5	0.0	20294.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	23862.0	0.0	23862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	2.4
10°-20°	1268.3	5.3
20°-30°	1611.8	6.8
30°-40°	2053.2	8.6
40°-50°	2911.5	12.2
50°-60°	4505.6	18.9
60°-70°	6133.8	25.7
70°-80°	4092.0	17.1
80°-90°	715.4	3.0
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°	23862.0	100.0
0°-180°	23862.0	100.0

Coefficient of Utilization



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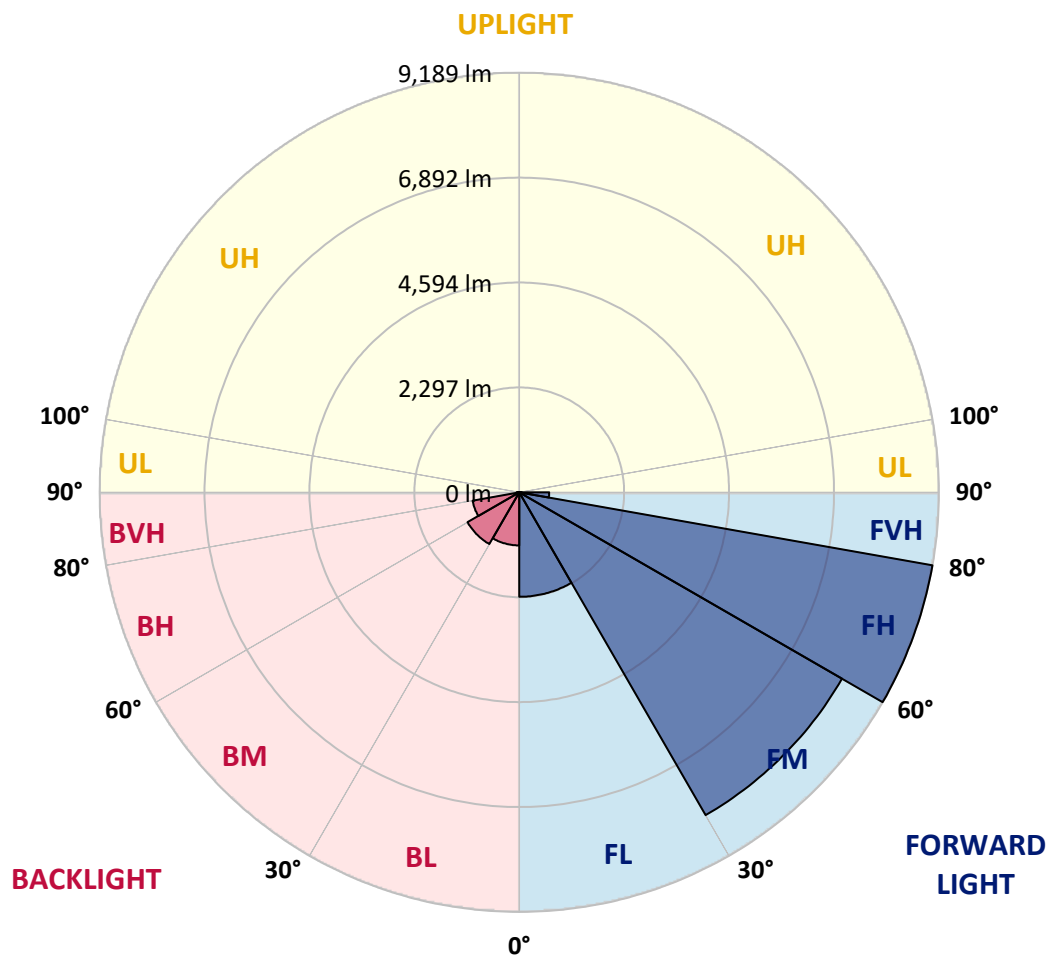
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2287.6	9.6			
FM	(30°-60°)	8162.0	34.2			
FH	(60°-80°)	9189.0	38.5			G4/12000
FVH	(80°-90°)	656.0	2.7			G4/750
BL	(0°-30°)	1162.9	4.9	B3/2500		
BM	(30°-60°)	1308.3	5.5	B2/2500		
BH	(60°-80°)	1036.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	59.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4
2.5°	6786.8	6777.6	6780.9	6774.3	6758.5	6742.7	6719.4	6723.6	6691.2	6643.0	6583.1
5°	6658.7	6655.4	6680.4	6694.5	6706.1	6697.0	6690.3	6698.6	6651.3	6584.8	6480.9
7.5°	6390.3	6353.7	6385.3	6432.7	6477.5	6511.6	6556.5	6562.3	6532.4	6462.6	6326.3
10°	6008.7	5973.8	6020.4	6094.4	6184.1	6265.6	6356.2	6372.8	6378.6	6315.5	6150.1
12.5°	5613.1	5586.5	5633.0	5736.9	5885.7	6011.2	6155.9	6180.8	6232.3	6190.0	5987.1
15°	5259.0	5249.0	5305.6	5407.8	5579.0	5771.0	5979.7	6025.4	6112.6	6098.5	5860.0
17.5°	4953.1	4950.6	4993.9	5101.1	5290.6	5533.3	5804.3	5881.6	6011.2	6027.9	5755.2
20°	4725.4	4720.4	4750.3	4829.3	5024.6	5299.7	5614.8	5721.2	5908.2	5966.4	5647.2
22.5°	4603.2	4602.4	4603.2	4640.6	4800.2	5056.2	5430.2	5559.9	5807.6	5917.3	5527.5
25°	4582.4	4579.9	4561.6	4557.5	4648.1	4852.5	5247.4	5390.3	5712.0	5883.2	5413.6
27.5°	4636.4	4639.8	4615.7	4576.6	4594.9	4718.7	5088.6	5241.6	5635.5	5876.6	5334.6
30°	4748.6	4747.0	4726.2	4685.5	4649.7	4668.9	4975.6	5128.5	5584.0	5905.7	5280.6
32.5°	4872.5	4881.6	4877.5	4855.0	4801.8	4725.4	4941.5	5091.1	5569.0	5975.5	5257.3
35°	5021.3	5031.3	5061.2	5078.6	5016.3	4893.3	5014.6	5144.3	5612.3	6106.8	5294.7
37.5°	5162.6	5188.4	5272.3	5346.3	5293.1	5155.9	5209.1	5301.4	5746.1	6313.8	5395.3
40°	5325.5	5347.9	5485.1	5642.2	5633.9	5491.7	5522.5	5584.0	5982.2	6610.5	5577.4
42.5°	5485.9	5530.8	5729.5	5952.2	6016.2	5890.7	5939.8	5972.2	6314.6	7003.7	5894.9
45°	5699.5	5747.8	6023.7	6292.2	6441.8	6371.2	6449.3	6461.8	6732.7	7539.0	6356.2
47.5°	6022.9	6077.7	6399.4	6681.2	6909.8	6917.3	7046.1	7041.1	7254.7	8151.6	6937.2
50°	6526.6	6605.6	6869.0	7132.5	7410.2	7564.8	7736.8	7712.7	7880.6	8804.1	7606.3
52.5°	7186.6	7223.1	7418.5	7613.0	7957.9	8304.5	8551.4	8529.8	8590.5	9474.9	8366.0
55°	7870.6	7898.1	7978.7	8085.1	8548.9	9114.1	9636.1	9602.0	9448.3	10171.4	9116.6
57.5°	8485.7	8541.4	8597.1	8641.2	9144.0	9960.3	10745.8	10748.3	10379.2	10922.8	9892.1
60°	8581.3	8630.4	8998.6	9346.0	10162.3	11089.0	11933.5	11908.6	11342.6	11738.2	10756.6
62.5°	7585.5	7696.1	8311.2	9235.5	11143.1	13153.7	13448.8	13418.1	12494.6	12743.1	11763.2
65°	5436.1	5561.6	6303.8	7692.8	10667.6	15428.7	16183.5	15769.5	14065.6	13979.1	12941.8
67.5°	3136.1	3166.0	3487.7	4603.2	8122.5	15547.6	20355.3	19775.9	16505.1	15381.4	13518.6
70°	2319.0	2318.2	2394.7	2832.7	4395.4	12689.1	22339.3	22858.8	19073.6	15842.7	12703.2
71°	2097.1	2099.6	2185.2	2578.4	3481.1	10621.1	21917.9	23055.0	19750.2	15614.9	12113.1
72.5°	1793.7	1802.0	1920.9	2312.4	2928.3	7324.5	20102.6	21878.0	20071.0	15053.0	11189.6
75°	1360.7	1379.8	1544.4	1949.2	2676.5	3714.6	14753.8	17470.2	17830.1	13282.6	8314.5
77.5°	970.8	992.5	1178.6	1639.1	2544.3	2799.5	9880.5	12743.1	13121.3	8512.3	3750.4
80°	613.4	639.2	779.7	1304.2	2390.5	2658.2	6209.1	8565.5	7155.0	2723.8	954.2
82.5°	359.9	379.9	483.8	852.0	1952.5	2560.1	3653.1	4747.8	2784.5	822.9	433.9
85°	208.6	217.8	301.7	542.8	1418.0	2416.3	2683.9	2654.0	1208.6	402.3	205.3
87.5°	97.3	108.1	178.7	283.4	787.1	1751.3	2121.2	1832.8	751.4	188.7	96.4
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°	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4	6611.4
2.5°	6554.0	6539.9	6480.9	6428.5	6373.6	6302.2	6223.2	6213.2	6165.0	6174.2	6157.5
5°	6424.3	6388.6	6246.5	6117.6	5965.5	5829.2	5681.3	5613.1	5515.0	5508.4	5483.4
7.5°	6239.0	6172.5	5952.2	5707.9	5463.5	5230.7	5000.5	4849.2	4694.6	4629.0	4623.1
10°	6030.4	5917.3	5593.1	5231.6	4879.1	4539.2	4210.0	3966.5	3747.1	3643.2	3639.0
12.5°	5832.5	5665.5	5220.8	4728.7	4246.6	3806.1	3354.7	3034.7	2759.6	2667.3	2628.3
15°	5664.6	5429.4	4858.4	4229.1	3644.0	3032.2	2518.5	2181.9	1927.6	1839.4	1822.8
17.5°	5501.7	5199.2	4486.8	3724.6	3017.3	2344.8	1830.3	1580.1	1444.6	1408.9	1408.1
20°	5339.6	4962.3	4098.6	3208.4	2411.3	1753.8	1407.2	1295.0	1249.3	1245.1	1238.5
22.5°	5155.9	4711.2	3690.5	2690.6	1881.8	1379.0	1196.1	1151.2	1145.4	1160.4	1160.4
25°	4983.9	4461.9	3276.6	2183.6	1463.7	1150.4	1068.1	1058.9	1074.7	1101.3	1103.8
27.5°	4823.5	4221.7	2872.6	1733.1	1172.8	1013.2	979.2	990.0	1018.2	1049.0	1049.8
30°	4691.3	3994.7	2480.3	1365.7	990.8	911.0	905.2	926.8	957.5	981.6	987.5
32.5°	4589.1	3801.1	2101.3	1098.0	871.9	834.5	839.5	857.8	876.9	890.2	899.4
35°	4541.7	3634.8	1751.3	926.0	796.3	775.5	782.2	792.1	800.4	810.4	817.9
37.5°	4550.0	3506.0	1438.8	818.7	745.6	734.8	734.8	734.8	734.8	739.8	740.6
40°	4627.3	3432.0	1184.5	750.6	711.5	699.9	690.7	682.4	675.8	679.1	677.4
42.5°	4825.1	3425.4	998.3	707.4	684.1	665.0	646.7	635.0	626.7	630.1	631.7
45°	5160.9	3508.5	872.8	676.6	658.3	629.2	605.9	593.5	587.7	598.5	600.1
47.5°	5595.6	3689.7	796.3	654.2	634.2	596.0	571.0	559.4	561.1	576.9	581.0
50°	6155.9	3983.9	759.7	640.0	617.6	567.7	541.9	532.0	537.0	559.4	564.4
52.5°	6771.0	4407.9	763.9	635.9	606.8	546.9	519.5	507.9	516.2	537.0	541.1
55°	7480.8	4917.4	832.9	641.7	591.0	533.6	501.2	481.3	487.9	507.0	510.4
57.5°	8269.6	5500.9	971.7	640.0	571.0	521.2	482.1	452.2	457.2	468.8	472.1
60°	9090.8	6205.7	1187.0	645.0	561.9	506.2	456.3	418.9	417.3	427.2	428.9
62.5°	10076.6	7021.2	1433.0	648.3	567.7	487.1	422.2	385.7	380.7	383.2	384.8
65°	11092.4	7611.3	1340.7	635.0	586.0	471.3	392.3	353.3	344.1	342.5	343.3
67.5°	11124.0	6978.8	940.1	608.4	593.5	463.0	369.9	325.8	310.9	305.1	304.2
70°	9976.1	5669.6	732.3	580.2	563.6	449.7	349.1	303.4	280.9	271.8	271.0
71°	9415.8	5219.1	694.1	566.0	541.1	436.4	340.0	293.4	270.1	260.2	258.5
72.5°	8537.3	4678.8	647.5	543.6	497.9	402.3	322.5	279.3	255.2	243.5	241.0
75°	6126.8	3059.6	556.1	484.6	412.3	320.8	282.6	251.0	230.2	216.1	214.4
77.5°	2360.6	1217.7	420.6	403.1	315.9	251.0	232.7	216.9	202.0	187.9	187.0
80°	729.8	544.4	306.7	303.4	228.6	187.0	181.2	177.0	171.2	156.3	152.9
82.5°	389.8	312.5	211.1	196.2	149.6	124.7	131.3	133.0	133.8	118.0	116.4
85°	186.2	165.4	118.9	111.4	87.3	69.8	80.6	87.3	88.1	72.3	67.3
87.5°	88.9	86.4	55.7	42.4	32.4	23.3	28.3	34.9	38.2	27.4	24.1
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)