

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: P319590

Luminaire Tested: **GAN-SA6A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319590
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-SA6A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 23311 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

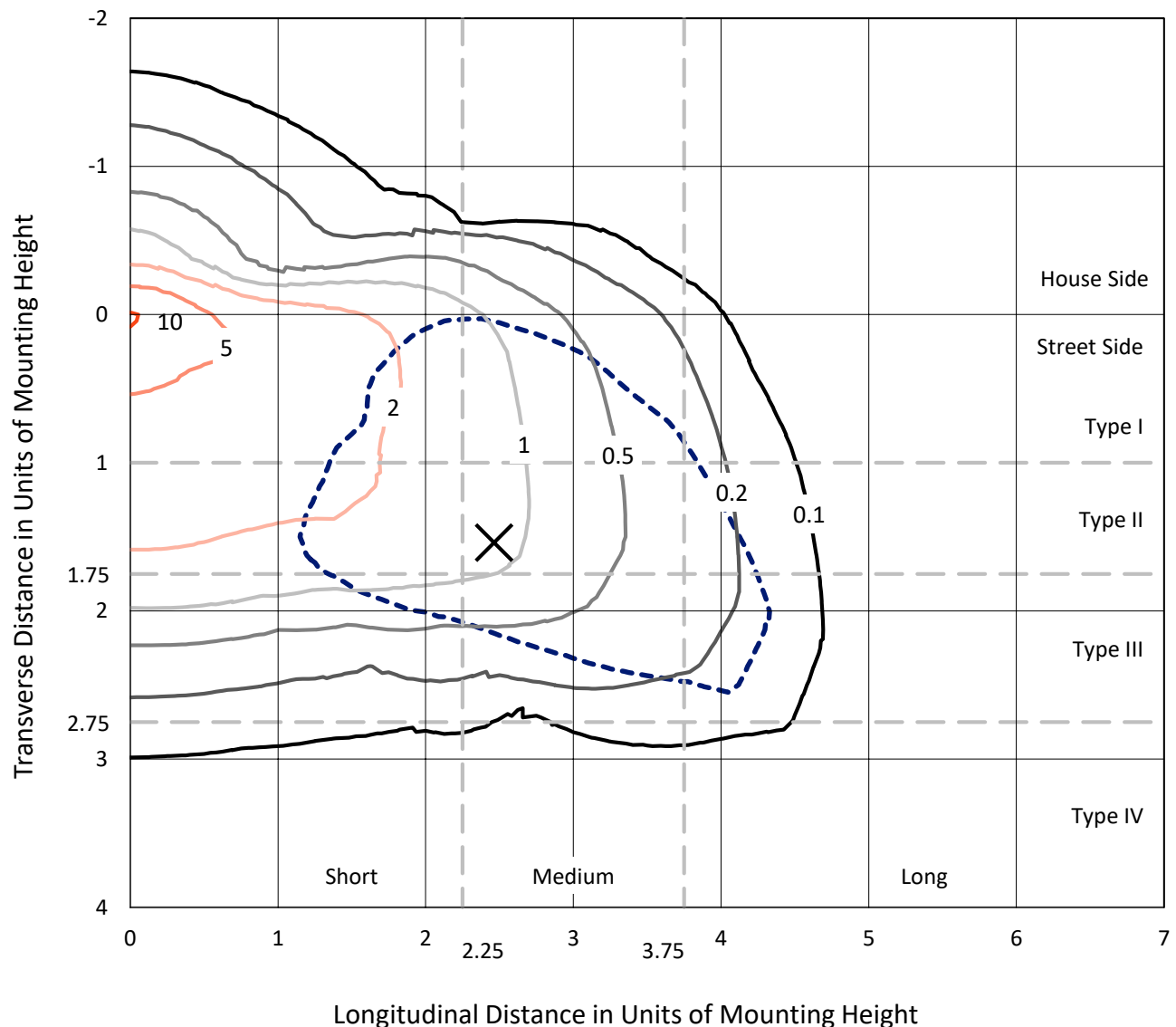
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

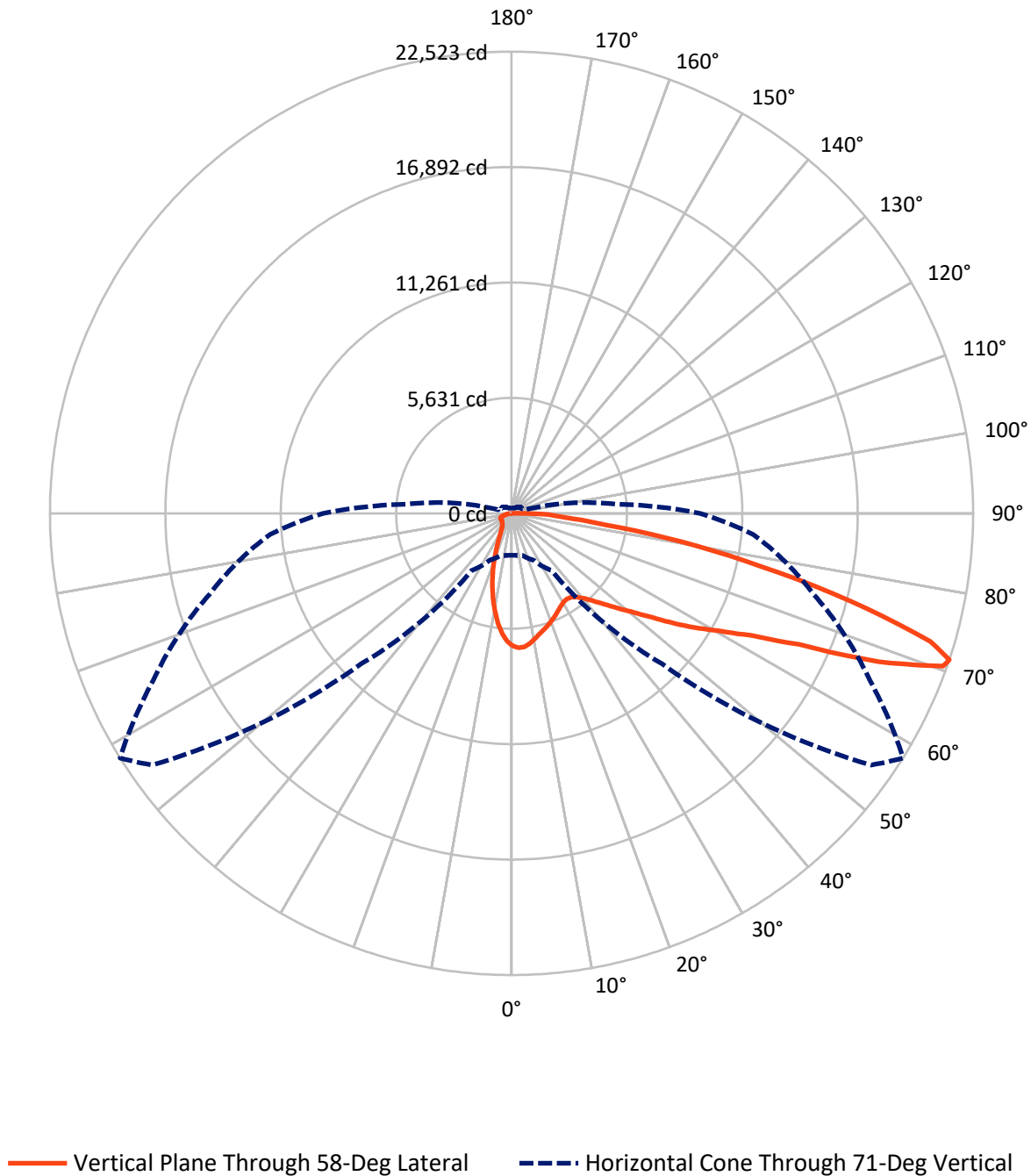
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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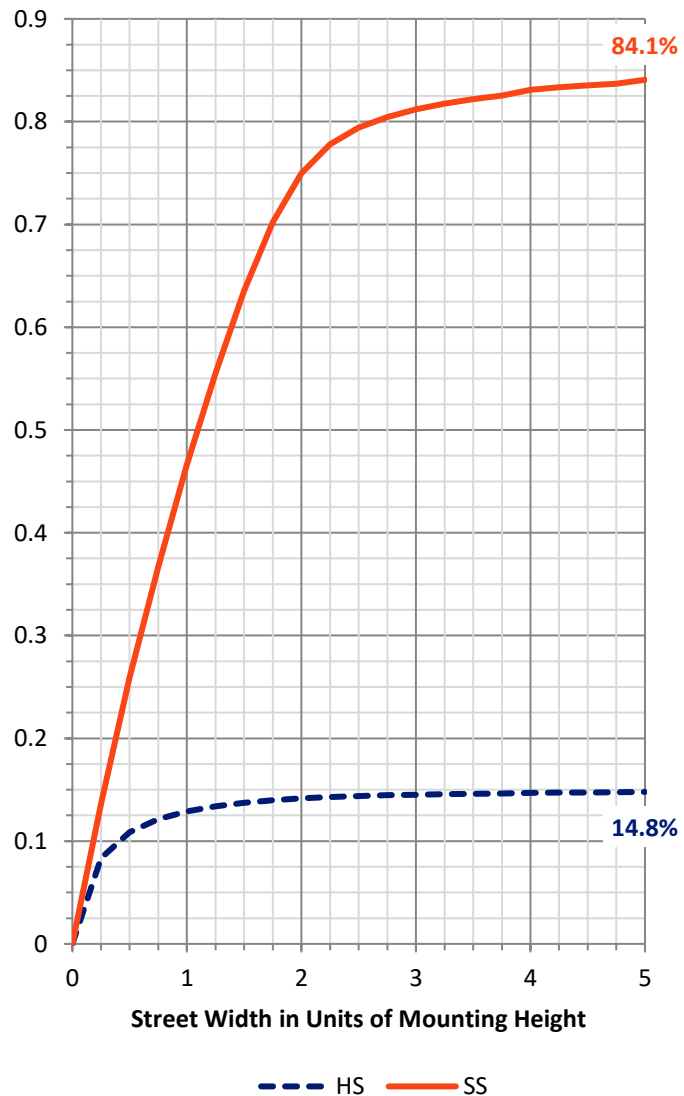
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3485.2	0.0	3485.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	19825.9	0.0	19825.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	23311.0	0.0	23311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.2	2.4
10°-20°	1239.0	5.3
20°-30°	1574.6	6.8
30°-40°	2005.8	8.6
40°-50°	2844.3	12.2
50°-60°	4401.6	18.9
60°-70°	5992.2	25.7
70°-80°	3997.5	17.1
80°-90°	698.9	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°	23311.0	100.0
0°-180°	23311.0	100.0

Coefficient of Utilization



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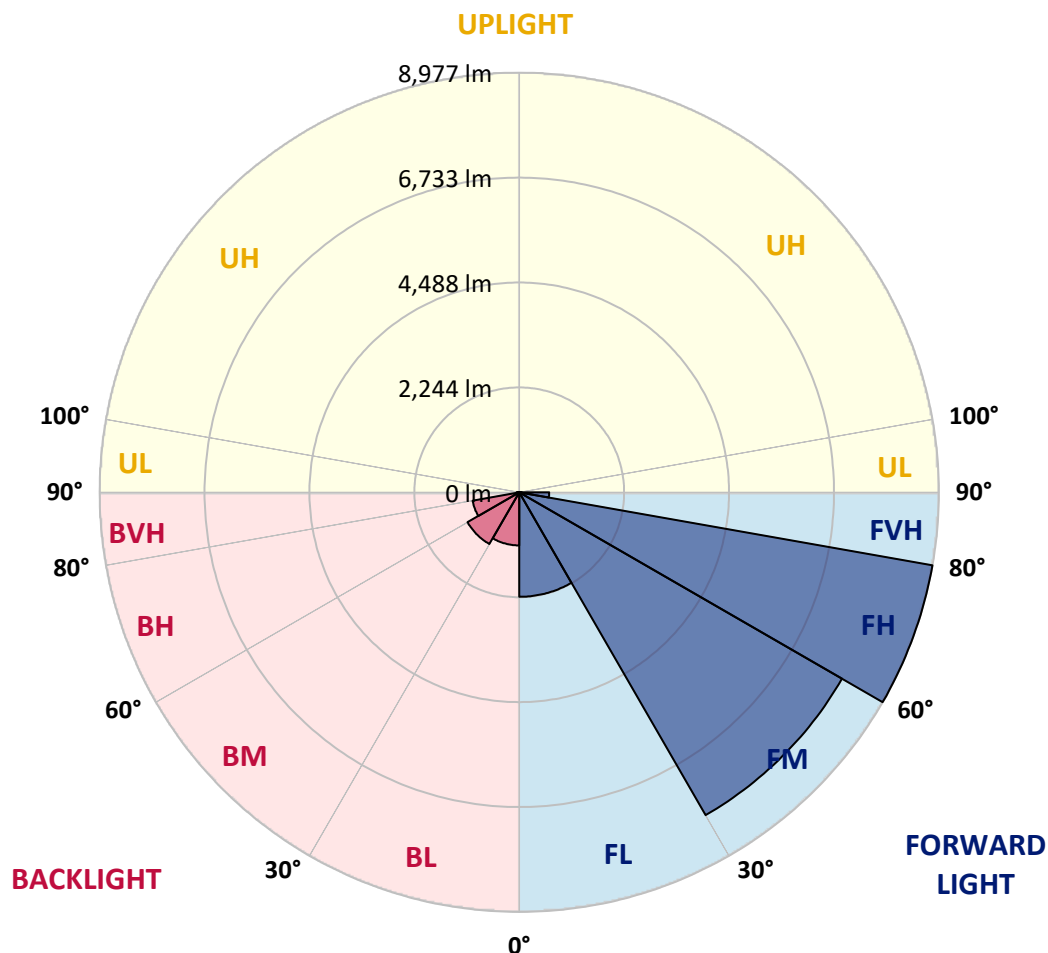
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2234.7	9.6			
FM	(30°-60°)	7973.5	34.2			
FH	(60°-80°)	8976.8	38.5			G4/12000
FVH	(80°-90°)	640.8	2.7			G4/750
BL	(0°-30°)	1136.1	4.9	B3/2500		
BM	(30°-60°)	1278.1	5.5	B2/2500		
BH	(60°-80°)	1012.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	58.1	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°	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7
2.5°	6630.0	6621.1	6624.4	6617.9	6602.4	6587.0	6564.3	6568.3	6536.7	6489.6	6431.1
5°	6505.0	6501.7	6526.1	6539.9	6551.3	6542.3	6535.8	6544.0	6497.7	6432.7	6331.2
7.5°	6242.7	6207.0	6237.8	6284.1	6328.0	6361.3	6405.1	6410.8	6381.6	6313.4	6180.2
10°	5870.0	5835.9	5881.4	5953.6	6041.3	6120.9	6209.4	6225.7	6231.3	6169.6	6008.0
12.5°	5483.5	5457.5	5503.0	5604.5	5749.8	5872.4	6013.7	6038.1	6088.4	6047.0	5848.9
15°	5137.6	5127.8	5183.0	5282.9	5450.2	5637.8	5841.6	5886.2	5971.5	5957.7	5724.7
17.5°	4838.8	4836.3	4878.5	4983.3	5168.4	5405.5	5670.2	5745.8	5872.4	5888.7	5622.3
20°	4616.3	4611.4	4640.6	4717.8	4908.6	5177.4	5485.1	5589.0	5771.7	5828.6	5516.8
22.5°	4496.9	4496.1	4496.9	4533.4	4689.3	4939.4	5304.8	5431.5	5673.5	5780.7	5399.8
25°	4476.6	4474.2	4456.3	4452.2	4540.7	4740.5	5126.2	5265.9	5580.1	5747.4	5288.6
27.5°	4529.4	4532.6	4509.1	4470.9	4488.8	4609.8	4971.1	5120.5	5505.4	5740.9	5211.5
30°	4639.0	4637.4	4617.1	4577.3	4542.4	4561.0	4860.7	5010.1	5455.1	5769.3	5158.7
32.5°	4760.0	4768.9	4764.9	4742.9	4691.0	4616.3	4827.4	4973.5	5440.4	5837.5	5135.9
35°	4905.3	4915.1	4944.3	4961.4	4900.5	4780.3	4898.8	5025.5	5482.7	5965.8	5172.5
37.5°	5043.4	5068.5	5150.6	5222.8	5170.9	5036.9	5088.8	5179.0	5613.4	6168.0	5270.7
40°	5202.5	5224.5	5358.4	5511.9	5503.8	5364.9	5395.0	5455.1	5844.0	6457.9	5448.6
42.5°	5359.2	5403.1	5597.2	5814.8	5877.3	5754.7	5802.6	5834.3	6168.8	6842.0	5758.8
45°	5567.9	5615.0	5884.6	6146.9	6293.1	6224.0	6300.4	6312.5	6577.3	7364.9	6209.4
47.5°	5883.8	5937.4	6251.6	6526.9	6750.2	6757.5	6883.4	6878.5	7087.2	7963.4	6777.0
50°	6375.9	6453.0	6710.4	6967.8	7239.0	7390.1	7558.2	7534.6	7698.6	8600.8	7430.7
52.5°	7020.6	7056.3	7247.2	7437.2	7774.2	8112.8	8353.9	8332.8	8392.1	9256.1	8172.9
55°	7688.9	7715.7	7794.5	7898.4	8351.5	8903.7	9413.6	9380.3	9230.1	9936.5	8906.1
57.5°	8289.8	8344.2	8398.6	8441.6	8932.9	9730.3	10497.6	10500.1	10139.5	10670.6	9663.7
60°	8383.2	8431.1	8790.8	9130.2	9927.6	10833.0	11658.0	11633.6	11080.7	11467.2	10508.2
62.5°	7410.4	7518.4	8119.3	9022.2	10885.8	12850.0	13138.3	13108.2	12206.1	12448.9	11491.5
65°	5310.5	5433.1	6158.3	7515.1	10421.3	15072.5	15809.8	15405.4	13740.8	13656.3	12643.0
67.5°	3063.7	3092.9	3407.2	4496.9	7934.9	15188.6	19885.2	19319.3	16124.0	15026.2	13206.5
70°	2265.5	2264.7	2339.4	2767.3	4293.9	12396.1	21823.5	22331.0	18633.1	15476.9	12409.9
71°	2048.7	2051.1	2134.8	2518.8	3400.7	10375.8	21411.8	22522.6	19294.1	15254.4	11833.4
72.5°	1752.3	1760.4	1876.5	2259.0	2860.7	7155.4	19638.4	21372.8	19607.5	14705.5	10931.2
75°	1329.3	1347.9	1508.7	1904.2	2614.7	3628.9	14413.1	17066.8	17418.4	12975.9	8122.5
77.5°	948.4	969.5	1151.4	1601.3	2485.6	2734.8	9652.3	12448.9	12818.3	8315.8	3663.8
80°	599.3	624.4	761.7	1274.0	2335.3	2596.8	6065.7	8367.7	6989.8	2660.9	932.2
82.5°	351.6	371.1	472.6	832.3	1907.4	2501.0	3568.8	4638.2	2720.2	803.9	423.9
85°	203.8	212.7	294.8	530.2	1385.3	2360.5	2622.0	2592.7	1180.7	393.0	200.6
87.5°	95.0	105.6	174.6	276.9	769.0	1710.9	2072.2	1790.5	734.1	184.3	94.2
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°	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7	6458.7
2.5°	6402.7	6388.9	6331.2	6280.1	6226.5	6156.6	6079.5	6069.8	6022.7	6031.6	6015.3
5°	6276.0	6241.1	6102.2	5976.4	5827.8	5694.6	5550.1	5483.5	5387.7	5381.2	5356.8
7.5°	6094.9	6030.0	5814.8	5576.1	5337.3	5110.0	4885.0	4737.3	4586.2	4522.1	4516.4
10°	5891.1	5780.7	5464.0	5110.8	4766.5	4434.4	4112.8	3874.9	3660.5	3559.0	3555.0
12.5°	5697.9	5534.6	5100.2	4619.5	4148.5	3718.2	3277.3	2964.6	2695.9	2605.7	2567.6
15°	5533.8	5304.0	4746.2	4131.5	3559.8	2962.2	2460.4	2131.5	1883.0	1797.0	1780.7
17.5°	5374.7	5079.1	4383.2	3638.6	2947.6	2290.7	1788.0	1543.6	1411.3	1376.4	1375.5
20°	5216.3	4847.7	4004.0	3134.3	2355.6	1713.3	1374.7	1265.1	1220.4	1216.4	1209.9
22.5°	5036.9	4602.5	3605.3	2628.5	1838.4	1347.1	1168.5	1124.6	1118.9	1133.6	1133.6
25°	4868.8	4358.9	3200.9	2133.1	1429.9	1123.8	1043.4	1034.5	1049.9	1075.9	1078.3
27.5°	4712.1	4124.2	2806.3	1693.0	1145.7	989.8	956.5	967.1	994.7	1024.8	1025.6
30°	4583.0	3902.5	2423.0	1334.1	967.9	890.0	884.3	905.4	935.4	959.0	964.7
32.5°	4483.1	3713.3	2052.8	1072.7	851.8	815.3	820.1	838.0	856.7	869.7	878.6
35°	4436.8	3550.9	1710.9	904.6	777.9	757.6	764.1	773.8	782.0	791.7	799.0
37.5°	4444.9	3425.0	1405.6	799.8	728.4	717.8	717.8	717.8	717.8	722.7	723.5
40°	4520.4	3352.8	1157.1	733.2	695.1	683.7	674.8	666.7	660.2	663.4	661.8
42.5°	4713.7	3346.3	975.2	691.0	668.3	649.6	631.7	620.4	612.3	615.5	617.1
45°	5041.8	3427.5	852.6	661.0	643.1	614.7	592.0	579.8	574.1	584.6	586.3
47.5°	5466.4	3604.5	777.9	639.0	619.6	582.2	557.8	546.5	548.1	563.5	567.6
50°	6013.7	3892.0	742.2	625.2	603.3	554.6	529.4	519.7	524.6	546.5	551.4
52.5°	6614.6	4306.1	746.2	621.2	592.8	534.3	507.5	496.1	504.3	524.6	528.6
55°	7308.1	4803.8	813.6	626.9	577.3	521.3	489.6	470.2	476.6	495.3	498.6
57.5°	8078.7	5373.9	949.2	625.2	557.8	509.1	471.0	441.7	446.6	458.0	461.2
60°	8880.9	6062.4	1159.5	630.1	548.9	494.5	445.8	409.3	407.6	417.4	419.0
62.5°	9844.0	6859.0	1399.9	633.4	554.6	475.8	412.5	376.8	371.9	374.3	376.0
65°	10836.2	7435.6	1309.8	620.4	572.5	460.4	383.3	345.1	336.2	334.5	335.4
67.5°	10867.1	6817.6	918.4	594.4	579.8	452.3	361.3	318.3	303.7	298.0	297.2
70°	9745.7	5538.7	715.4	566.8	550.5	439.3	341.0	296.4	274.5	265.5	264.7
71°	9198.4	5098.6	678.0	553.0	528.6	426.3	332.1	286.6	263.9	254.2	252.5
72.5°	8340.1	4570.8	632.6	531.1	486.4	393.0	315.1	272.8	249.3	237.9	235.5
75°	5985.3	2989.0	543.2	473.4	402.8	313.4	276.1	245.2	224.9	211.1	209.5
77.5°	2306.1	1189.6	410.9	393.8	308.6	245.2	227.4	211.9	197.3	183.5	182.7
80°	712.9	531.9	299.6	296.4	223.3	182.7	177.0	173.0	167.3	152.7	149.4
82.5°	380.8	305.3	206.2	191.6	146.2	121.8	128.3	129.9	130.7	115.3	113.7
85°	181.9	161.6	116.1	108.8	85.3	68.2	78.8	85.3	86.1	70.6	65.8
87.5°	86.9	84.4	54.4	41.4	31.7	22.7	27.6	34.1	37.4	26.8	23.5
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)