

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: P317900

Luminaire Tested: **GAN-SA6D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34879 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

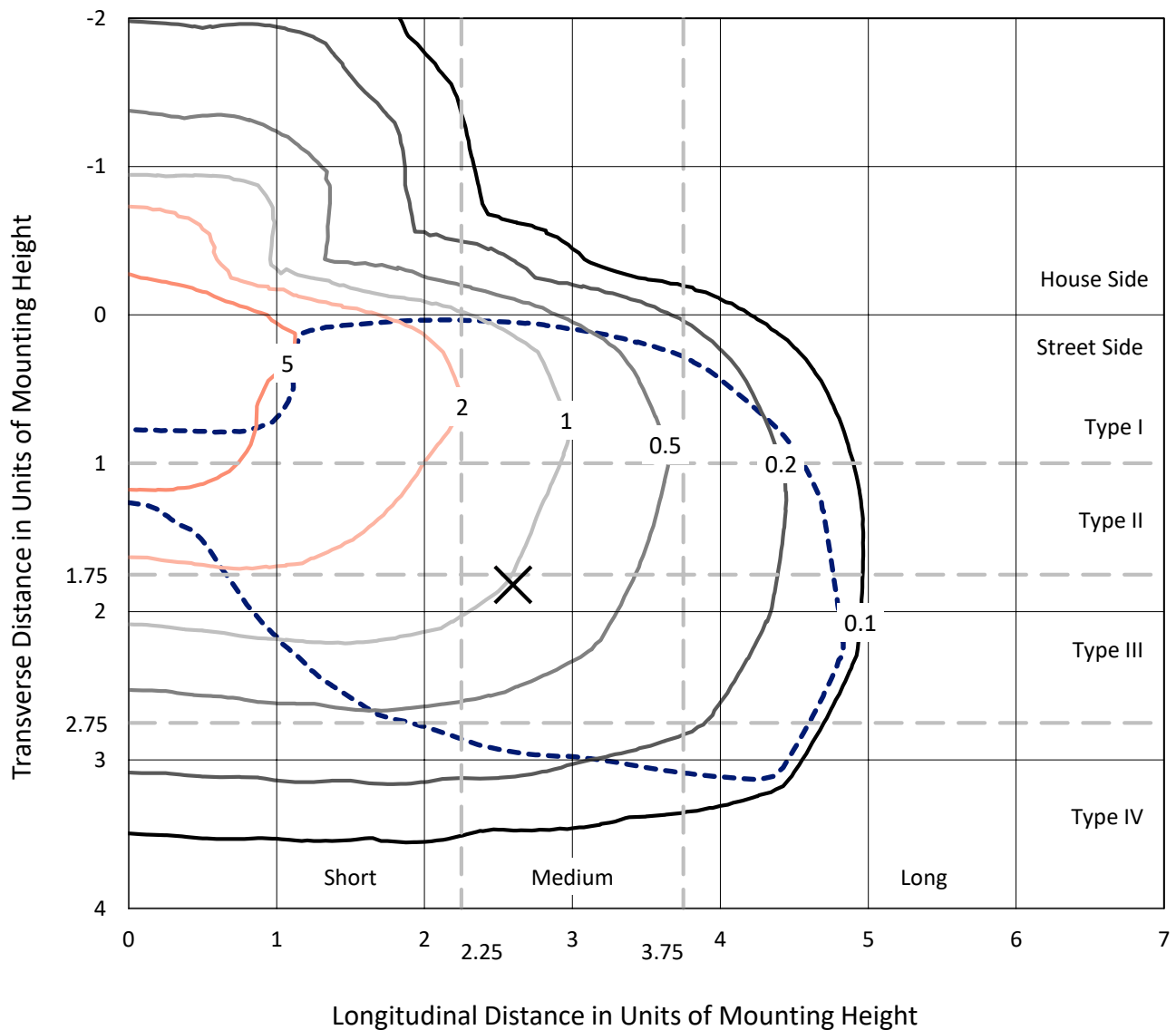
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

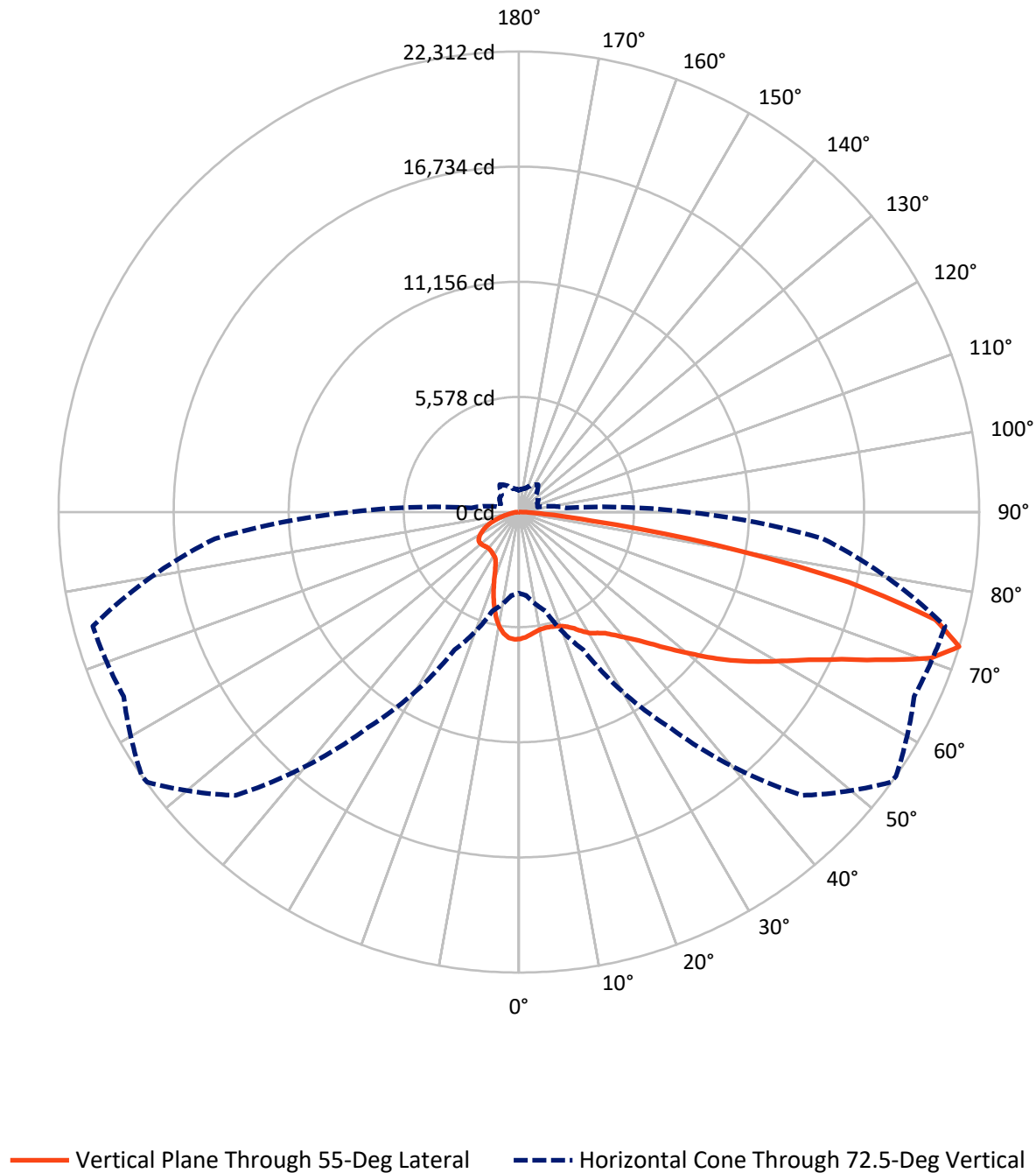
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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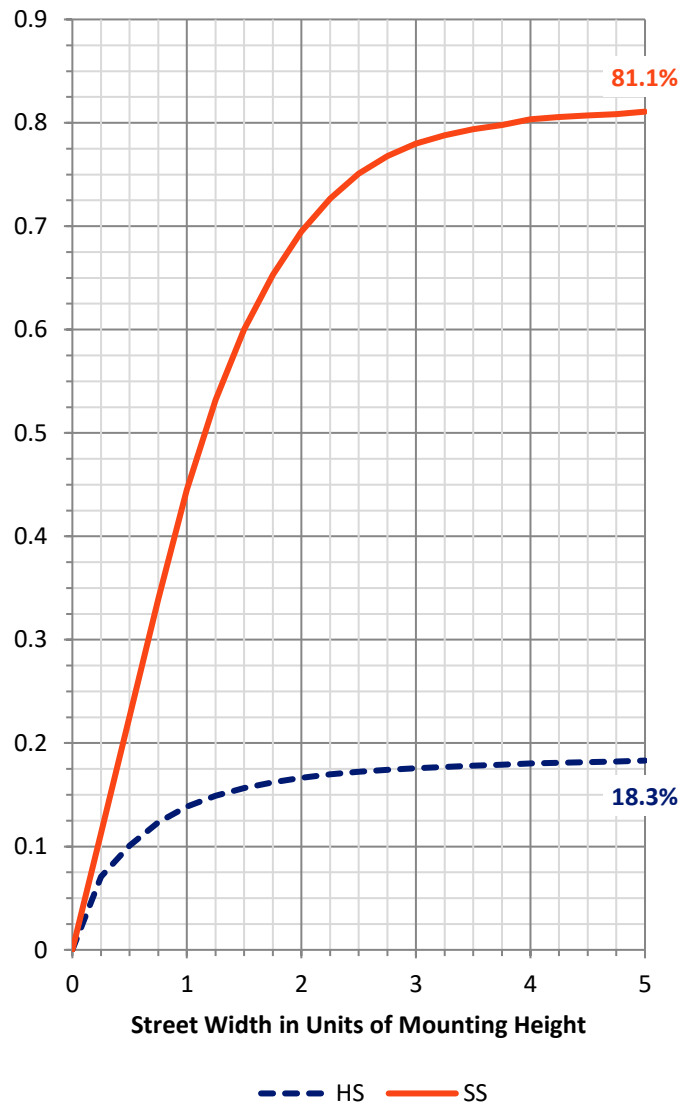
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6482.9	0.0	6482.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28396.1	0.0	28396.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	34879.0	0.0	34879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.7	1.6
10°-20°	1482.1	4.2
20°-30°	2443.6	7.0
30°-40°	3614.7	10.4
40°-50°	5045.3	14.5
50°-60°	6569.1	18.8
60°-70°	8073.3	23.1
70°-80°	6328.5	18.1
80°-90°	765.8	2.2
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°	34879.0	100.0
0°-180°	34879.0	100.0

Coefficient of Utilization



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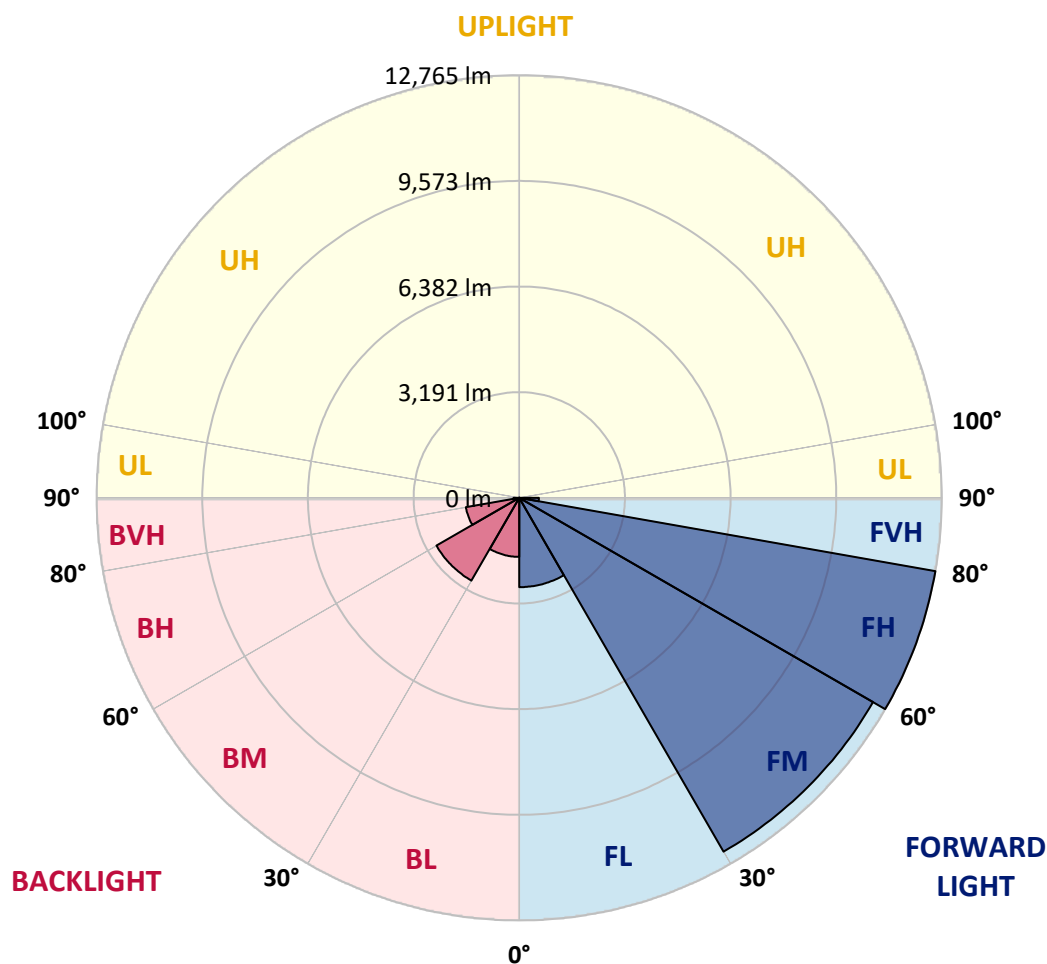
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2698.6	7.7			
FM	(30°-60°)	12340.9	35.4			
FH	(60°-80°)	12764.5	36.6			G5
FVH	(80°-90°)	592.1	1.7			G4/750
BL	(0°-30°)	1783.7	5.1	B3/2500		
BM	(30°-60°)	2888.2	8.3	B3/5000		
BH	(60°-80°)	1637.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	173.7	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9
2.5°	5951.6	5937.5	5955.2	5979.9	6007.0	6043.5	6064.7	6074.2	6110.7	6124.8	6155.4
5°	5676.0	5668.9	5698.3	5740.8	5800.8	5885.7	5954.0	5966.9	6063.5	6131.9	6194.3
7.5°	5475.7	5475.7	5509.9	5560.5	5627.7	5741.9	5838.5	5856.2	6020.0	6167.2	6282.7
10°	5316.7	5322.5	5362.6	5422.7	5501.6	5622.9	5751.4	5771.4	6008.2	6249.7	6433.5
12.5°	5210.6	5224.8	5261.3	5315.5	5413.3	5560.5	5723.1	5750.2	6032.9	6367.5	6614.9
15°	5277.8	5301.3	5304.9	5327.3	5381.4	5541.7	5739.6	5767.9	6085.9	6487.7	6821.1
17.5°	5572.3	5580.5	5544.0	5496.9	5471.0	5573.5	5789.1	5818.5	6149.5	6606.6	7019.0
20°	6020.0	6015.2	5936.3	5809.1	5677.1	5693.6	5870.3	5901.0	6235.5	6711.5	7216.9
22.5°	6585.4	6568.9	6447.6	6213.2	5988.2	5893.9	6012.9	6038.8	6365.1	6861.1	7428.9
25°	7271.1	7234.6	7074.3	6759.8	6428.8	6186.1	6227.3	6252.0	6553.6	7028.4	7623.3
27.5°	7994.4	7957.9	7754.1	7373.6	6933.0	6554.8	6523.0	6544.2	6768.0	7152.1	7767.0
30°	8750.7	8711.9	8525.7	8099.3	7467.8	6936.5	6798.7	6806.9	6918.8	7219.2	7884.9
32.5°	9510.6	9474.1	9265.6	8770.8	8048.6	7346.5	6997.8	6987.2	7009.5	7288.7	8018.0
35°	10281.1	10295.2	10051.3	9503.5	8691.8	7802.4	7233.4	7211.0	7161.5	7431.3	8206.5
37.5°	11105.7	11096.3	10780.6	10208.0	9364.5	8297.2	7571.5	7568.0	7397.1	7701.1	8502.2
40°	11657.0	11662.9	11470.9	10929.0	10044.3	8845.0	8005.0	7996.8	7772.9	8105.2	8889.8
42.5°	11872.6	11911.5	11961.0	11617.0	10755.8	9480.0	8522.2	8510.4	8297.2	8684.8	9345.7
45°	11887.9	11965.7	12272.0	12228.4	11476.8	10206.8	9183.1	9150.1	8997.0	9455.2	9889.9
47.5°	11756.0	11836.1	12345.0	12592.4	12121.2	10973.8	9955.9	9930.0	9798.0	10418.9	10479.0
50°	11467.4	11544.0	12194.2	12770.3	12651.3	11711.2	10846.5	10778.2	10707.5	11532.2	11152.8
52.5°	10926.6	11073.9	11992.8	12812.7	12968.2	12366.2	11783.1	11738.3	11777.2	12706.7	11827.9
55°	9646.1	9811.0	11473.3	12777.4	13202.7	12916.4	12719.7	12717.3	12918.8	13939.0	12552.4
57.5°	8928.6	9045.3	10415.4	12717.3	13480.7	13463.0	13646.8	13669.2	14061.5	15280.8	13311.1
60°	8523.4	8645.9	9879.3	12494.7	13911.9	14169.9	14592.8	14637.6	15223.1	16766.4	14224.1
62.5°	8154.6	8288.9	9547.1	12041.1	14419.6	15180.7	15726.1	15766.2	16453.0	18293.1	15106.4
65°	7524.4	7676.3	9060.6	11743.0	14881.4	16498.9	17166.9	17194.0	17865.5	19893.0	15781.5
67.5°	6633.7	6772.8	8142.9	11084.5	15223.1	18099.9	19082.5	19097.8	19266.2	21022.7	16126.7
70°	5593.5	5646.5	6835.2	9725.0	14819.0	19597.3	21181.8	21185.3	20543.3	21746.1	16070.1
72.5°	3930.1	4054.9	4962.0	7361.8	12735.0	19414.7	22271.5	22311.6	21137.0	21380.9	14786.0
75°	2410.3	2542.3	3112.5	4461.4	8079.2	15269.0	20577.4	20855.5	20023.7	19063.6	12078.8
77.5°	1611.6	1661.1	2031.0	2601.2	3660.3	8784.9	15820.4	16343.4	16634.4	13902.5	7724.6
80°	898.9	993.1	1346.5	1616.3	1628.1	3490.6	9485.9	9608.4	9255.0	5535.8	2383.2
82.5°	475.9	527.8	898.9	949.5	888.3	1168.6	3535.4	3538.9	2957.0	1484.4	708.0
85°	368.7	412.3	616.1	579.6	453.6	518.4	1166.3	1229.9	1006.1	607.9	230.9
87.5°	183.8	228.5	418.2	367.6	177.9	148.4	417.0	445.3	397.0	238.0	83.6
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°	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9	6151.9
2.5°	6167.2	6177.8	6190.8	6176.6	6171.9	6153.1	6121.3	6114.2	6097.7	6098.9	6108.3
5°	6221.4	6239.1	6232.0	6177.8	6113.0	6022.3	5928.1	5848.0	5794.9	5791.4	5787.9
7.5°	6325.1	6336.9	6281.5	6127.2	5945.7	5736.0	5538.1	5365.0	5260.1	5234.2	5228.3
10°	6487.7	6485.3	6333.3	6022.3	5660.6	5286.0	4967.9	4727.6	4587.4	4546.2	4535.6
12.5°	6669.1	6642.0	6351.0	5831.5	5257.7	4738.2	4335.3	4067.9	3921.8	3874.7	3862.9
15°	6856.4	6789.2	6307.4	5546.4	4763.0	4148.0	3725.1	3477.7	3398.7	3372.8	3368.1
17.5°	7030.7	6901.2	6182.5	5160.0	4198.7	3560.1	3230.3	3131.3	3150.2	3184.3	3185.5
20°	7201.6	6976.6	5982.3	4672.2	3603.7	3076.0	2964.0	3037.1	3126.6	3196.1	3205.5
22.5°	7370.0	7029.6	5724.3	4109.1	3071.2	2803.8	2882.7	3015.9	3118.4	3193.8	3206.7
25°	7511.4	7042.5	5368.5	3508.3	2701.3	2701.3	2843.9	2969.9	3071.2	3145.5	3158.4
27.5°	7563.2	6955.4	4866.6	2952.3	2515.2	2654.2	2789.7	2894.5	2980.5	3059.5	3073.6
30°	7583.3	6794.0	4287.0	2505.8	2438.6	2603.5	2716.6	2806.2	2887.5	2961.7	2974.6
32.5°	7586.8	6599.6	3672.1	2252.5	2385.6	2550.5	2625.9	2704.9	2792.0	2821.5	2826.2
35°	7609.2	6369.8	3024.1	2122.9	2336.1	2501.1	2561.1	2617.7	2476.3	2486.9	2496.3
37.5°	7674.0	6142.5	2482.2	2049.8	2304.3	2475.1	2547.0	2342.0	2231.3	2205.4	2201.8
40°	7795.3	5899.8	2080.5	1990.9	2292.5	2488.1	2456.3	2186.5	1995.7	1853.1	1831.9
42.5°	7963.8	5638.3	1823.7	1952.1	2300.8	2550.5	2330.2	2036.9	1720.0	1628.1	1616.3
45°	8153.5	5363.8	1684.6	1925.0	2329.1	2598.8	2304.3	1837.8	1591.6	1522.1	1516.2
47.5°	8337.2	5028.0	1612.8	1913.2	2367.9	2560.0	2194.8	1776.5	1530.3	1493.8	1497.3
50°	8548.1	4725.3	1569.2	1900.2	2402.1	2535.2	2071.1	1744.7	1506.8	1551.5	1598.6
52.5°	8726.0	4411.9	1530.3	1874.3	2415.1	2491.6	2039.2	1750.6	1506.8	1592.8	1637.5
55°	8936.9	4175.1	1485.6	1820.1	2390.3	2367.9	2016.9	1786.0	1524.4	1470.2	1474.9
57.5°	9209.0	4097.3	1436.1	1735.3	2307.8	2187.7	2006.3	1820.1	1513.8	1479.7	1491.4
60°	9586.0	4179.8	1416.0	1624.6	2179.4	2046.3	2007.4	1802.5	1439.6	1380.7	1381.9
62.5°	9945.3	4271.7	1414.9	1555.1	2021.6	1920.3	1980.3	1744.7	1401.9	1367.7	1380.7
65°	10063.1	4178.6	1358.3	1477.3	1843.7	1769.5	1930.9	1683.5	1373.6	1321.8	1319.4
67.5°	9905.3	3890.0	1244.0	1351.3	1639.9	1593.9	1866.1	1610.4	1328.9	1286.5	1279.4
70°	9436.4	3245.6	1102.7	1185.1	1407.8	1396.0	1763.6	1525.6	1268.8	1232.3	1201.6
72.5°	8174.7	2312.6	929.5	986.0	1146.3	1184.0	1622.2	1414.9	1184.0	1105.0	1057.9
75°	6713.8	1711.7	763.4	775.2	870.6	973.1	1427.8	1285.3	1083.8	949.5	913.0
77.5°	4111.5	1047.3	607.9	612.6	624.4	776.4	1175.7	1140.4	956.6	791.7	765.7
80°	1331.2	571.4	439.4	461.8	426.5	569.0	909.5	970.7	821.1	662.1	633.8
82.5°	506.6	333.4	296.9	312.2	295.7	381.7	663.3	777.5	672.7	544.3	443.0
85°	245.0	188.5	175.5	196.7	182.6	195.6	424.1	572.5	510.1	354.6	329.9
87.5°	87.2	83.6	67.2	90.7	77.8	69.5	129.6	288.6	336.9	243.9	217.9
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)