

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: P319609

Luminaire Tested: **GAN-SA5C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319609
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-SA5C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29567 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 279
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

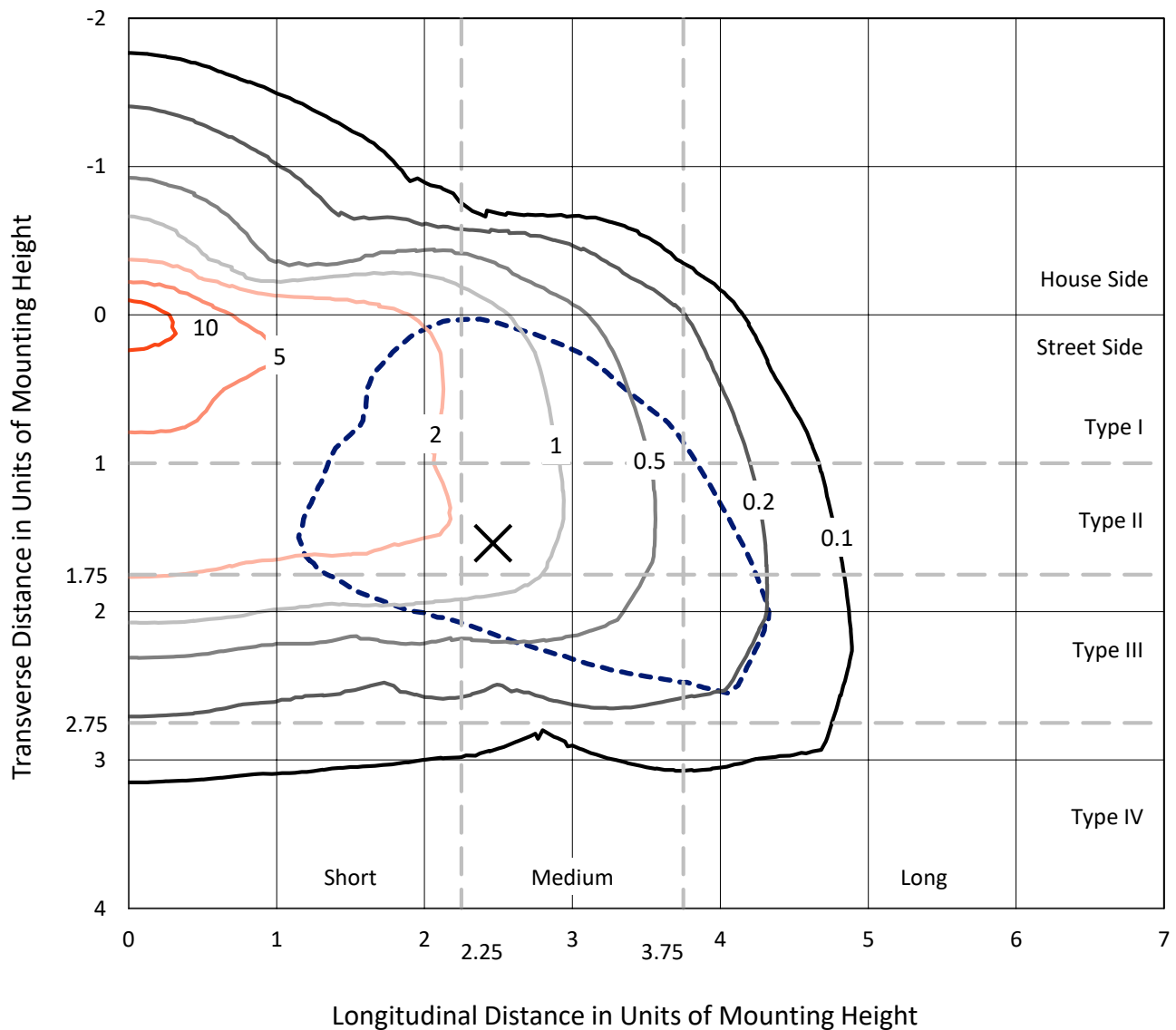


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Iso-Footcandle Lines of Horizontal Illumination

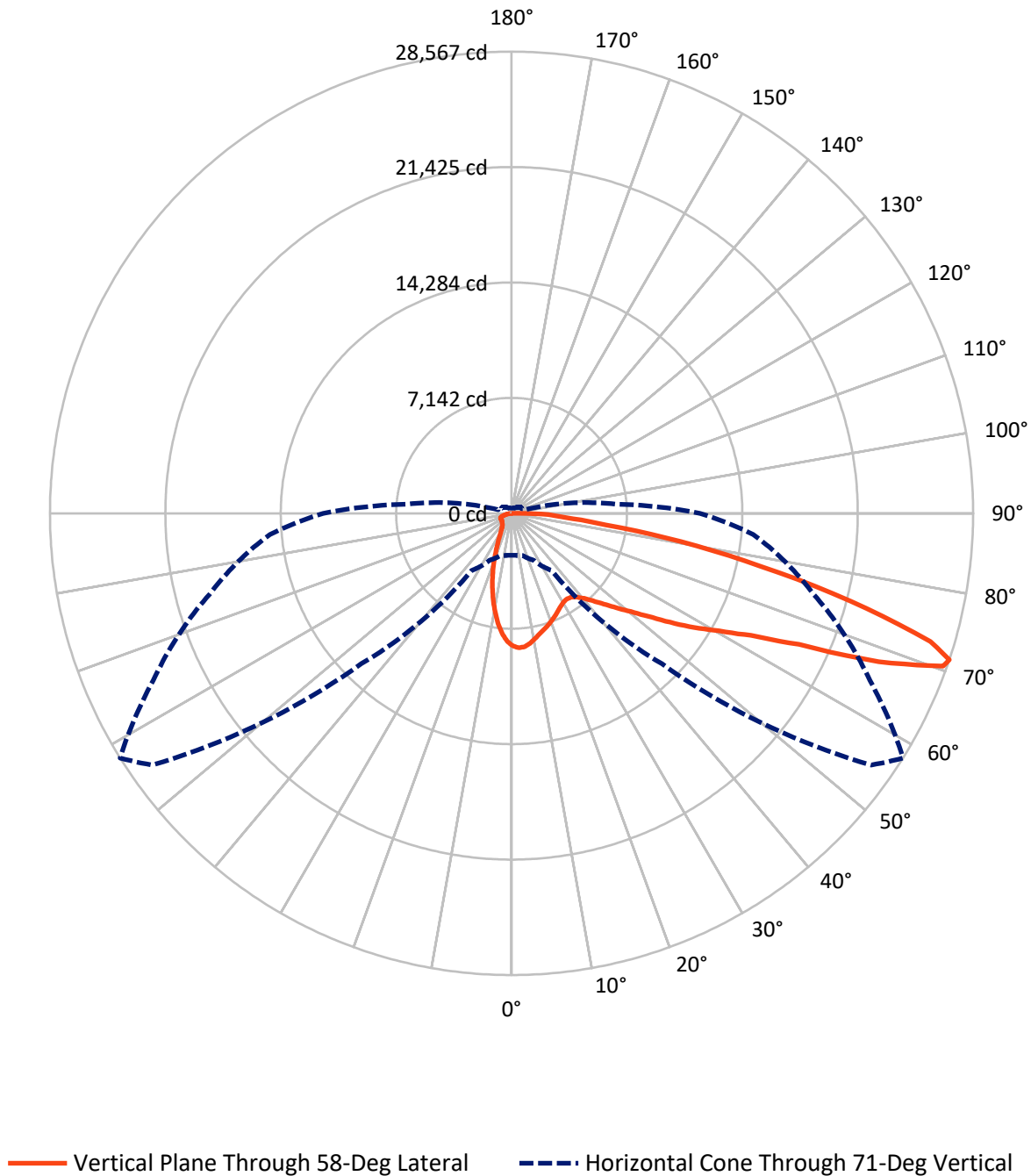
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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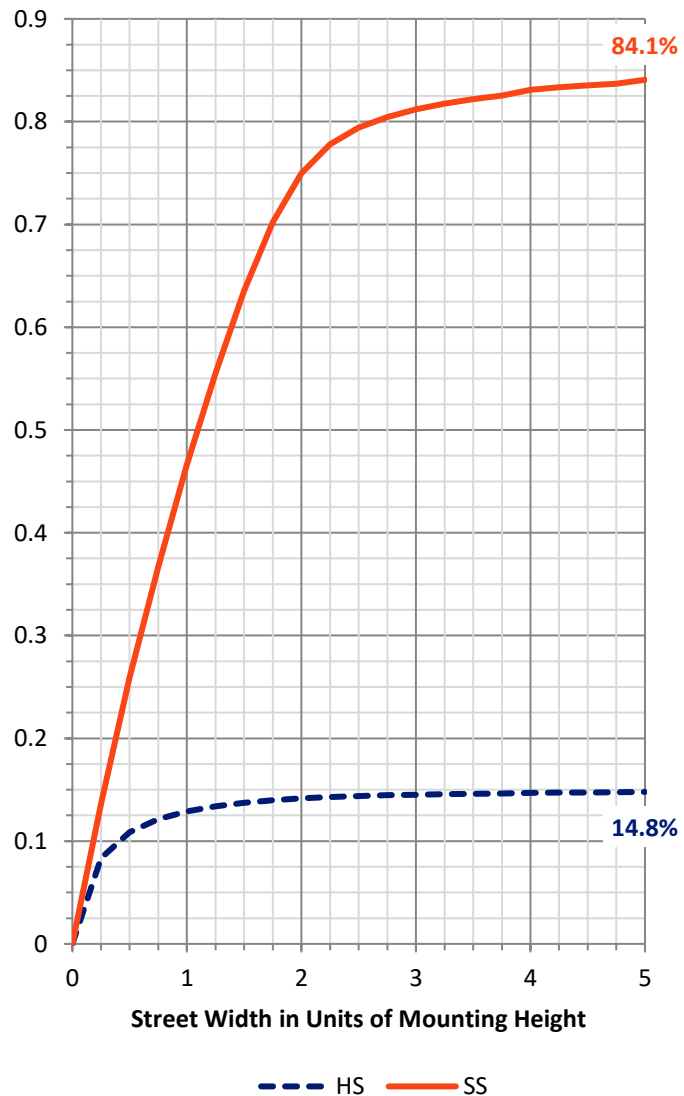
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4420.5	0.0	4420.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	25146.5	0.0	25146.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	29567.0	0.0	29567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.7	2.4
10°-20°	1571.5	5.3
20°-30°	1997.2	6.8
30°-40°	2544.0	8.6
40°-50°	3607.6	12.2
50°-60°	5582.9	18.9
60°-70°	7600.3	25.7
70°-80°	5070.3	17.1
80°-90°	886.5	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°	29567.0	100.0
0°-180°	29567.0	100.0

Coefficient of Utilization



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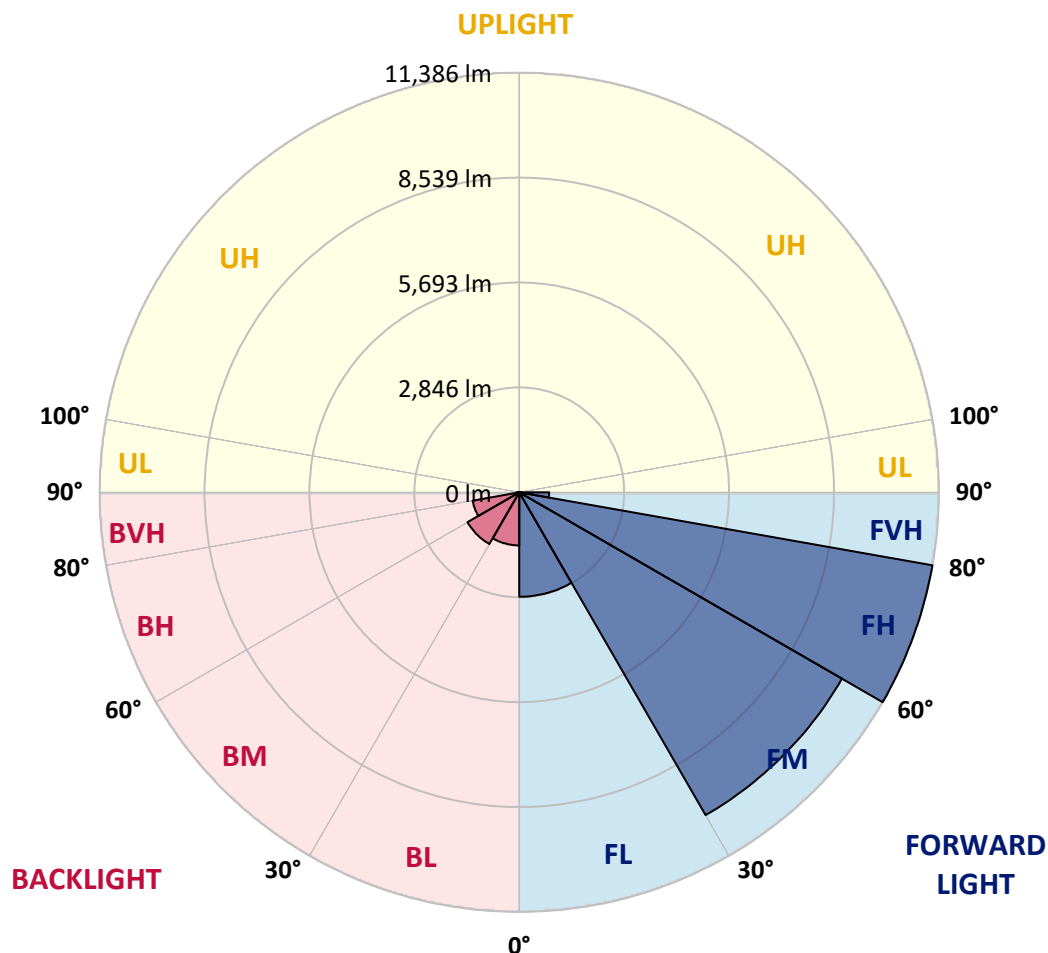
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2834.5	9.6			
FM	(30°-60°)	10113.3	34.2			
FH	(60°-80°)	11385.9	38.5			G4/12000
FVH	(80°-90°)	812.8	2.7			G5
BL	(0°-30°)	1440.9	4.9	B3/2500		
BM	(30°-60°)	1621.1	5.5	B2/2500		
BH	(60°-80°)	1284.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	73.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0
2.5°	8409.4	8398.0	8402.1	8393.9	8374.3	8354.8	8325.9	8331.1	8290.9	8231.2	8157.0
5°	8250.7	8246.6	8277.5	8295.0	8309.4	8298.1	8289.9	8300.2	8241.5	8159.1	8030.3
7.5°	7918.1	7872.8	7911.9	7970.6	8026.2	8068.4	8124.1	8131.3	8094.2	8007.7	7838.8
10°	7445.3	7402.1	7459.8	7551.4	7662.7	7763.6	7875.8	7896.4	7903.7	7825.4	7620.4
12.5°	6955.1	6922.1	6979.8	7108.6	7292.9	7448.4	7627.6	7658.5	7722.4	7669.9	7418.6
15°	6516.3	6504.0	6574.0	6700.7	6912.9	7150.8	7409.3	7465.9	7574.1	7556.6	7261.0
17.5°	6137.3	6134.2	6187.8	6320.7	6555.5	6856.2	7192.0	7287.8	7448.4	7469.0	7131.2
20°	5855.1	5849.0	5886.0	5983.9	6225.9	6566.8	6957.2	7089.0	7320.7	7392.8	6997.3
22.5°	5703.7	5702.7	5703.7	5750.1	5947.8	6265.0	6728.5	6889.2	7196.1	7332.0	6849.0
25°	5678.0	5674.9	5652.2	5647.1	5759.3	6012.7	6501.9	6679.1	7077.7	7289.8	6707.9
27.5°	5744.9	5749.0	5719.2	5670.8	5693.4	5846.9	6305.2	6494.7	6982.9	7281.6	6610.1
30°	5884.0	5881.9	5856.2	5805.7	5761.4	5785.1	6165.1	6354.6	6919.0	7317.6	6543.1
32.5°	6037.4	6048.8	6043.6	6015.8	5949.9	5855.1	6122.9	6308.3	6900.5	7404.1	6514.3
35°	6221.8	6234.1	6271.2	6292.9	6215.6	6063.2	6213.5	6374.2	6954.1	7566.9	6560.6
37.5°	6396.9	6428.8	6532.8	6624.5	6558.6	6388.6	6454.5	6568.9	7119.9	7823.3	6685.3
40°	6598.7	6626.5	6796.5	6991.1	6980.8	6804.7	6842.8	6919.0	7412.4	8191.0	6910.8
42.5°	6797.5	6853.1	7099.3	7375.3	7454.6	7299.1	7359.9	7400.0	7824.4	8678.2	7304.2
45°	7062.2	7121.9	7463.9	7796.5	7981.9	7894.4	7991.2	8006.6	8342.4	9341.4	7875.8
47.5°	7462.8	7530.8	7929.4	8278.5	8561.8	8571.0	8730.7	8724.5	8989.2	10100.5	8595.8
50°	8087.0	8184.8	8511.3	8837.8	9181.8	9373.4	9586.6	9556.7	9764.7	10909.0	9424.9
52.5°	8904.7	8950.1	9192.1	9433.1	9860.5	10290.0	10595.9	10569.1	10644.3	11740.1	10366.2
55°	9752.4	9786.4	9886.3	10018.1	10592.8	11293.1	11939.9	11897.7	11707.2	12603.2	11296.2
57.5°	10514.5	10583.5	10652.5	10707.1	11330.2	12341.6	13314.9	13318.0	12860.7	13534.3	12257.2
60°	10633.0	10693.7	11150.0	11580.5	12591.9	13740.2	14786.7	14755.8	14054.4	14544.6	13328.3
62.5°	9399.1	9536.1	10298.2	11443.5	13807.2	16298.6	16664.2	16626.1	15481.9	15789.8	14575.5
65°	6735.7	6891.2	7811.0	9532.0	13218.1	19117.5	20052.7	19539.8	17428.4	17321.3	16036.0
67.5°	3885.9	3923.0	4321.6	5703.7	10064.4	19264.8	25221.9	24504.0	20451.3	19058.8	16750.7
70°	2873.5	2872.5	2967.2	3510.0	5446.3	15722.9	27680.3	28324.0	23633.7	19630.4	15740.4
71°	2598.5	2601.6	2707.7	3194.8	4313.3	13160.4	27158.1	28567.1	24472.1	19348.2	15009.1
72.5°	2222.6	2232.9	2380.2	2865.3	3628.4	9075.7	24908.8	27108.7	24869.6	18652.0	13864.9
75°	1686.0	1709.7	1913.6	2415.2	3316.4	4602.7	18281.2	21647.0	22093.0	16458.2	10302.4
77.5°	1203.0	1229.7	1460.4	2031.0	3152.6	3468.8	12242.7	15789.8	16258.4	10547.5	4647.0
80°	760.1	792.0	966.1	1616.0	2962.1	3293.7	7693.6	10613.4	8865.6	3375.1	1182.4
82.5°	446.0	470.7	599.4	1055.7	2419.3	3172.2	4526.5	5882.9	3450.3	1019.6	537.6
85°	258.5	269.8	373.9	672.5	1757.1	2994.0	3325.6	3288.6	1497.5	498.5	254.4
87.5°	120.5	133.9	221.4	351.2	975.3	2170.1	2628.4	2271.0	931.1	233.8	119.5
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°	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0	8192.0
2.5°	8121.0	8103.5	8030.3	7965.5	7897.5	7808.9	7711.1	7698.7	7639.0	7650.3	7629.7
5°	7960.3	7916.0	7739.9	7580.3	7391.8	7222.9	7039.5	6955.1	6833.6	6825.3	6794.4
7.5°	7730.6	7648.2	7375.3	7072.5	6769.7	6481.3	6196.0	6008.6	5817.0	5735.7	5728.5
10°	7472.1	7332.0	6930.4	6482.4	6045.7	5624.4	5216.6	4914.8	4642.9	4514.2	4509.0
12.5°	7227.0	7020.0	6469.0	5859.3	5261.9	4716.0	4156.8	3760.3	3419.4	3305.0	3256.6
15°	7018.9	6727.5	6019.9	5240.3	4515.2	3757.2	3120.7	2703.6	2388.4	2279.2	2258.6
17.5°	6817.1	6442.2	5559.5	4615.1	3738.6	2905.4	2267.9	1957.9	1790.0	1745.7	1744.7
20°	6616.2	6148.7	5078.6	3975.5	2987.8	2173.1	1743.7	1604.6	1548.0	1542.8	1534.6
22.5°	6388.6	5837.6	4572.9	3333.9	2331.8	1708.6	1482.1	1426.4	1419.2	1437.8	1437.8
25°	6175.4	5528.6	4060.0	2705.6	1813.7	1425.4	1323.5	1312.1	1331.7	1364.7	1367.7
27.5°	5976.7	5231.0	3559.4	2147.4	1453.2	1255.5	1213.3	1226.6	1261.7	1299.8	1300.8
30°	5812.9	4949.8	3073.3	1692.2	1227.7	1128.8	1121.6	1148.4	1186.5	1216.3	1223.6
32.5°	5686.2	4709.9	2603.7	1360.5	1080.4	1034.0	1040.2	1062.9	1086.6	1103.1	1114.4
35°	5627.5	4503.9	2170.1	1147.3	986.7	960.9	969.2	981.5	991.8	1004.2	1013.4
37.5°	5637.8	4344.2	1782.8	1014.5	923.8	910.5	910.5	910.5	910.5	916.6	917.7
40°	5733.6	4252.6	1467.6	930.0	881.6	867.2	855.9	845.6	837.3	841.4	839.4
42.5°	5978.7	4244.3	1236.9	876.5	847.6	823.9	801.3	786.9	776.6	780.7	782.7
45°	6394.8	4347.3	1081.4	838.4	815.7	779.7	750.8	735.4	728.2	741.5	743.6
47.5°	6933.5	4571.8	986.7	810.6	785.8	738.5	707.6	693.1	695.2	714.8	719.9
50°	7627.6	4936.4	941.4	793.0	765.2	703.4	671.5	659.2	665.3	693.1	699.3
52.5°	8389.8	5461.7	946.5	787.9	751.8	677.7	643.7	629.3	639.6	665.3	670.5
55°	9269.3	6093.0	1032.0	795.1	732.3	661.2	621.0	596.3	604.6	628.3	632.4
57.5°	10246.7	6816.1	1204.0	793.0	707.6	645.8	597.4	560.3	566.5	580.9	585.0
60°	11264.3	7689.4	1470.7	799.2	696.2	627.2	565.4	519.1	517.0	529.4	531.4
62.5°	12485.8	8699.8	1775.6	803.3	703.4	603.5	523.2	477.9	471.7	474.8	476.9
65°	13744.4	9431.0	1661.3	786.9	726.1	584.0	486.1	437.7	426.4	424.3	425.4
67.5°	13783.5	8647.3	1164.8	753.9	735.4	573.7	458.3	403.7	385.2	378.0	377.0
70°	12361.2	7025.1	907.4	718.9	698.3	557.2	432.6	375.9	348.1	336.8	335.8
71°	11667.0	6466.9	860.0	701.4	670.5	540.7	421.2	363.6	334.7	322.4	320.3
72.5°	10578.4	5797.5	802.3	673.6	616.9	498.5	399.6	346.1	316.2	301.8	298.7
75°	7591.6	3791.2	689.0	600.4	510.8	397.6	350.2	311.0	285.3	267.8	265.7
77.5°	2925.0	1508.8	521.1	499.5	391.4	311.0	288.4	268.8	250.3	232.8	231.7
80°	904.3	674.6	380.0	375.9	283.2	231.7	224.5	219.4	212.2	193.6	189.5
82.5°	483.0	387.3	261.6	243.1	185.4	154.5	162.7	164.8	165.8	146.2	144.2
85°	230.7	205.0	147.3	138.0	108.1	86.5	99.9	108.1	109.2	89.6	83.4
87.5°	110.2	107.1	69.0	52.5	40.2	28.8	35.0	43.3	47.4	34.0	29.9
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)