

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: P319619

Luminaire Tested: **GAN-SA5D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319619
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-SA5D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 32434 lumens
Efficiency: N/A
Efficacy: 101.4 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): 320
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



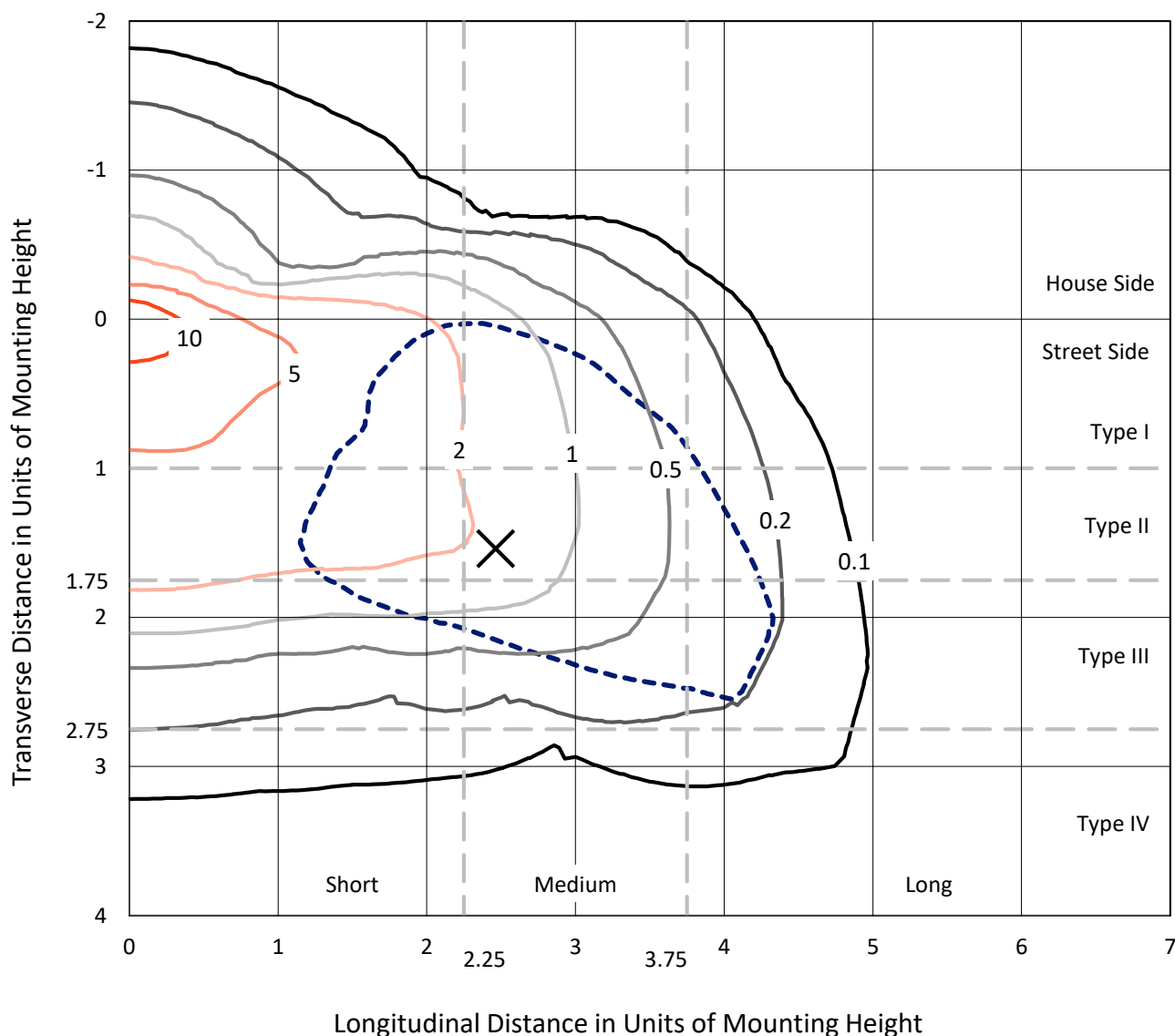
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

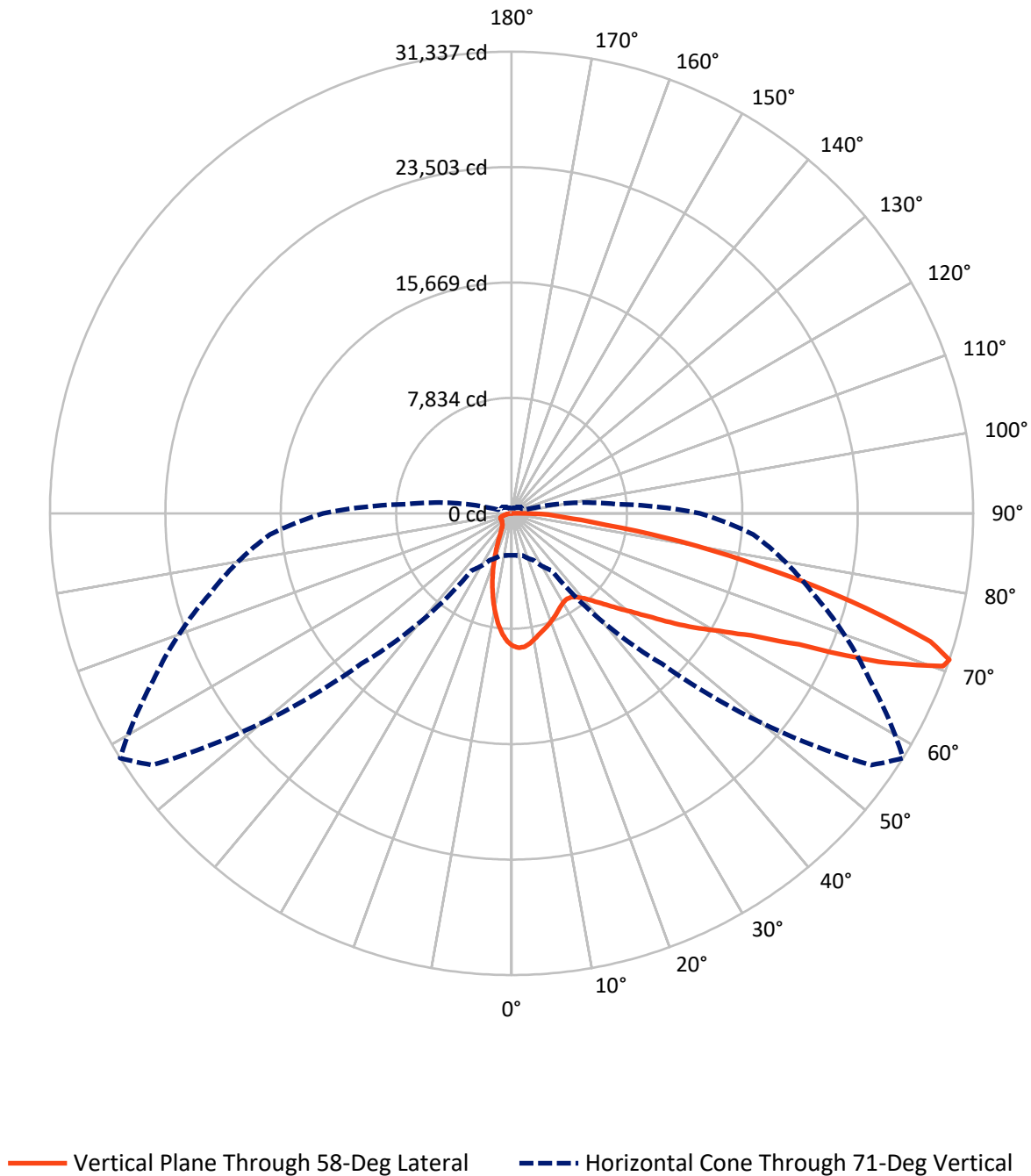
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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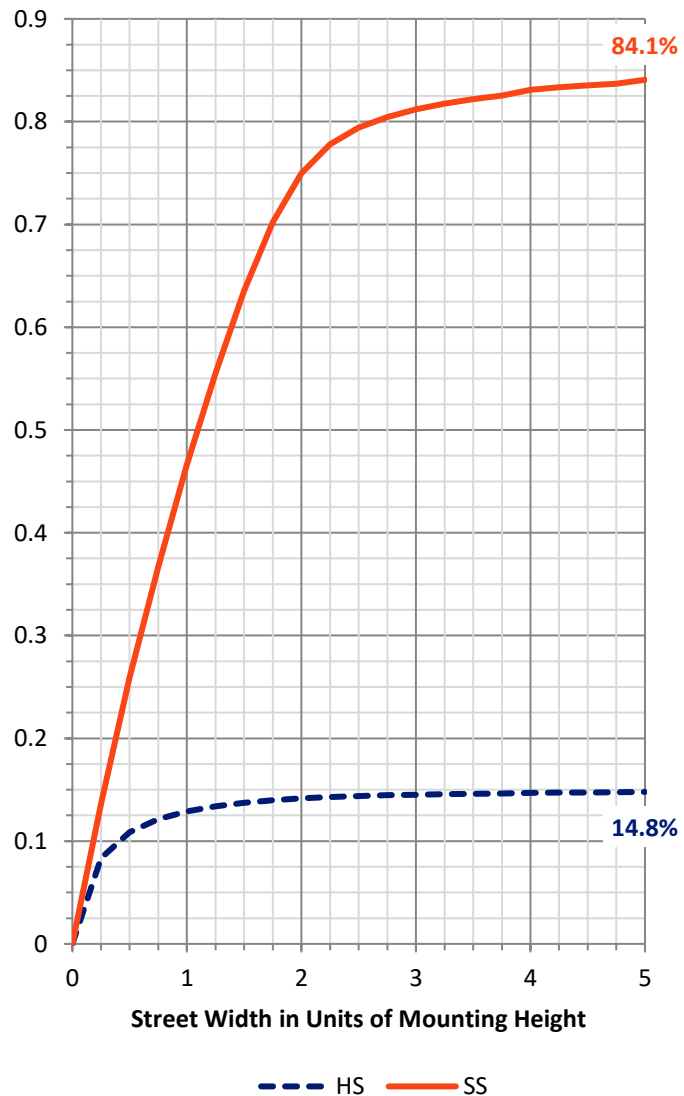
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4849.1	0.0	4849.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	27584.9	0.0	27584.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	32434.0	0.0	32434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.3	2.4
10°-20°	1723.9	5.3
20°-30°	2190.9	6.8
30°-40°	2790.7	8.6
40°-50°	3957.4	12.2
50°-60°	6124.2	18.9
60°-70°	8337.3	25.7
70°-80°	5562.0	17.1
80°-90°	972.4	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°	32434.0	100.0
0°-180°	32434.0	100.0

Coefficient of Utilization



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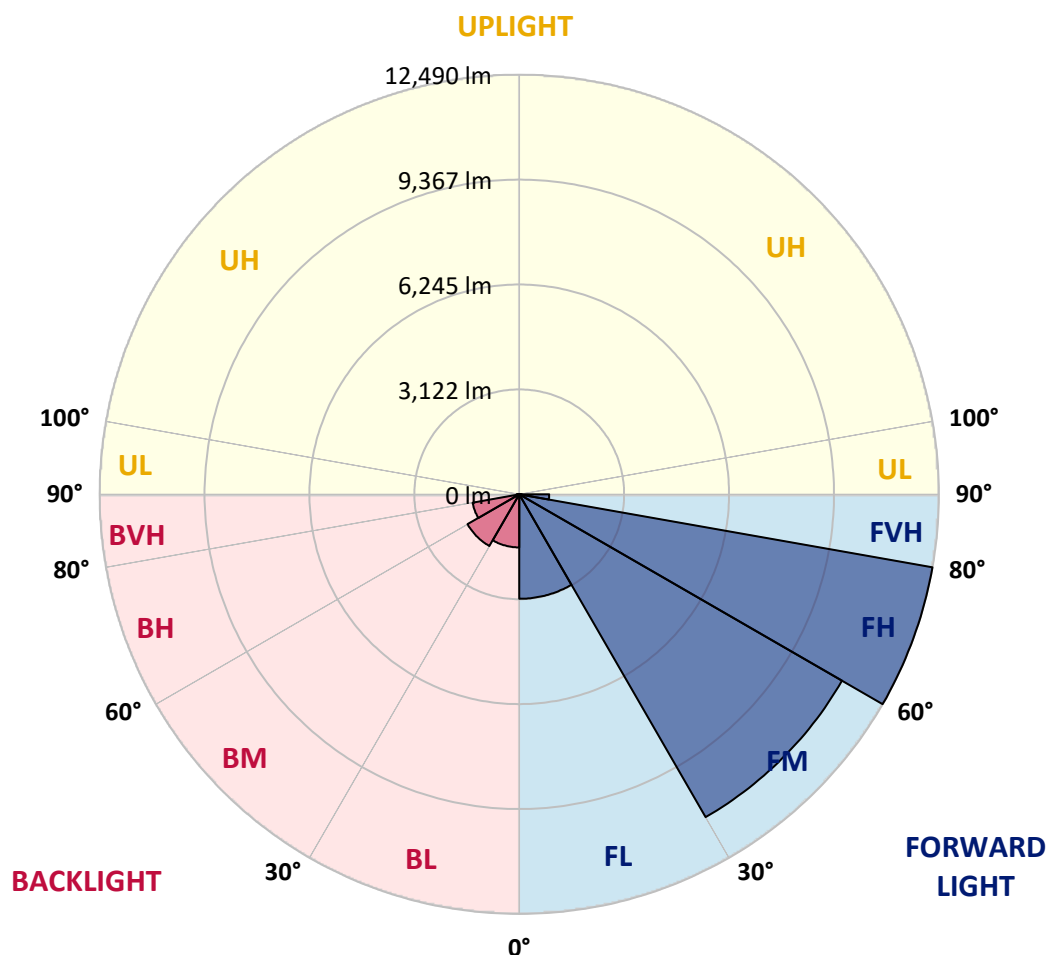
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3109.3	9.6			
FM	(30°-60°)	11094.0	34.2			
FH	(60°-80°)	12489.9	38.5			G5
FVH	(80°-90°)	891.6	2.7			G5
BL	(0°-30°)	1580.7	4.9	B3/2500		
BM	(30°-60°)	1778.3	5.5	B2/2500		
BH	(60°-80°)	1409.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	80.8	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°	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4
2.5°	9224.8	9212.3	9216.9	9207.8	9186.4	9164.9	9133.3	9138.9	9094.8	9029.3	8948.0
5°	9050.8	9046.3	9080.2	9099.4	9115.2	9102.8	9093.7	9105.0	9040.6	8950.2	8809.0
7.5°	8685.9	8636.1	8679.1	8743.5	8804.5	8850.8	8911.8	8919.7	8879.1	8784.2	8598.9
10°	8167.3	8119.8	8183.1	8283.7	8405.7	8516.4	8639.5	8662.1	8670.0	8584.2	8359.4
12.5°	7629.5	7593.3	7656.6	7797.8	8000.1	8170.7	8367.3	8401.2	8471.2	8413.6	8137.9
15°	7148.2	7134.7	7211.5	7350.4	7583.2	7844.2	8127.7	8189.9	8308.5	8289.3	7965.1
17.5°	6732.4	6729.1	6787.8	6933.5	7191.1	7521.0	7889.4	7994.4	8170.7	8193.3	7822.7
20°	6422.9	6416.1	6456.8	6564.1	6829.6	7203.6	7631.8	7776.4	8030.6	8109.7	7675.8
22.5°	6256.8	6255.7	6256.8	6307.6	6524.6	6872.5	7380.9	7557.2	7893.9	8043.0	7513.1
25°	6228.6	6225.2	6200.3	6194.7	6317.8	6595.7	7132.4	7326.7	7763.9	7996.7	7358.4
27.5°	6302.0	6306.5	6273.7	6220.6	6245.5	6413.8	6916.6	7124.5	7660.0	7987.6	7251.0
30°	6454.5	6452.3	6424.0	6368.7	6320.1	6346.1	6763.0	6970.8	7590.0	8027.2	7177.6
32.5°	6622.9	6635.3	6629.6	6599.1	6526.8	6422.9	6716.6	6920.0	7569.6	8122.1	7146.0
35°	6825.1	6838.6	6879.3	6903.0	6818.3	6651.1	6816.1	6992.3	7628.4	8300.6	7196.8
37.5°	7017.2	7052.2	7166.3	7266.8	7194.5	7008.1	7080.4	7205.8	7810.3	8581.9	7333.5
40°	7238.6	7269.1	7455.5	7669.0	7657.7	7464.6	7506.4	7590.0	8131.1	8985.3	7580.9
42.5°	7456.6	7517.7	7787.7	8090.5	8177.5	8006.9	8073.5	8117.6	8583.0	9519.6	8012.5
45°	7747.0	7812.5	8187.6	8552.5	8755.9	8659.9	8766.1	8783.0	9151.3	10247.2	8639.5
47.5°	8186.5	8261.1	8698.3	9081.3	9392.0	9402.2	9577.3	9570.5	9860.8	11079.9	9429.3
50°	8871.1	8978.5	9336.6	9694.8	10072.1	10282.3	10516.1	10483.4	10711.6	11966.8	10338.8
52.5°	9768.2	9817.9	10083.4	10347.8	10816.7	11287.8	11623.3	11594.0	11676.4	12878.5	11371.4
55°	10698.0	10735.3	10844.9	10989.5	11619.9	12388.2	13097.7	13051.4	12842.4	13825.3	12391.6
57.5°	11534.1	11609.8	11685.5	11745.3	12428.9	13538.3	14606.0	14609.4	14107.7	14846.6	13445.7
60°	11664.0	11730.7	12231.2	12703.4	13812.9	15072.6	16220.5	16186.6	15417.2	15955.0	14620.7
62.5°	10310.5	10460.8	11296.8	12553.1	15146.0	17879.0	18280.1	18238.3	16983.1	17320.9	15988.9
65°	7388.9	7559.5	8568.4	10456.2	14499.8	20971.2	21997.1	21434.5	19118.4	19000.9	17590.9
67.5°	4262.7	4303.4	4740.6	6256.8	11040.4	21132.8	27667.5	26880.1	22434.3	20906.8	18375.0
70°	3152.1	3151.0	3254.9	3850.3	5974.4	17247.4	30364.4	31070.5	25925.4	21533.9	17266.7
71°	2850.5	2853.9	2970.2	3504.6	4731.6	14436.5	29791.6	31337.1	26845.0	21224.3	16464.5
72.5°	2438.1	2449.4	2611.0	3143.1	3980.3	9955.7	27324.1	29737.3	27281.2	20460.6	15209.3
75°	1849.5	1875.5	2099.2	2649.4	3637.9	5049.1	20053.9	23746.0	24235.2	18054.1	11301.3
77.5°	1319.6	1349.0	1602.0	2228.0	3458.3	3805.1	13429.9	17320.9	17834.9	11570.2	5097.6
80°	833.8	868.8	1059.7	1772.6	3249.3	3613.1	8439.6	11642.5	9725.3	3702.3	1297.0
82.5°	489.2	516.3	657.5	1158.0	2653.9	3479.8	4965.4	6453.4	3784.8	1118.5	589.8
85°	283.6	296.0	410.1	737.8	1927.4	3284.3	3648.1	3607.4	1642.7	546.8	279.1
87.5°	132.2	146.9	242.9	385.3	1069.9	2380.5	2883.2	2491.2	1021.3	256.5	131.1
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°	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4	8986.4
2.5°	8908.4	8889.2	8809.0	8737.8	8663.3	8566.1	8458.8	8445.2	8379.7	8392.1	8369.5
5°	8732.2	8683.6	8490.4	8315.3	8108.5	7923.2	7722.1	7629.5	7496.2	7487.1	7453.3
7.5°	8480.2	8389.9	8090.5	7758.3	7426.1	7109.8	6796.8	6591.2	6381.1	6291.8	6283.9
10°	8196.7	8043.0	7602.4	7110.9	6631.9	6169.8	5722.4	5391.4	5093.1	4951.9	4946.2
12.5°	7927.8	7700.7	7096.2	6427.4	5772.1	5173.3	4559.9	4124.9	3750.9	3625.5	3572.4
15°	7699.6	7379.8	6603.6	5748.4	4953.0	4121.5	3423.3	2965.7	2620.0	2500.2	2477.6
17.5°	7478.1	7066.9	6098.6	5062.6	4101.2	3187.2	2487.8	2147.7	1963.6	1915.0	1913.9
20°	7257.8	6744.9	5571.0	4361.0	3277.5	2383.9	1912.7	1760.2	1698.1	1692.4	1683.4
22.5°	7008.1	6403.7	5016.3	3657.1	2557.9	1874.3	1625.8	1564.8	1556.9	1577.2	1577.2
25°	6774.2	6064.7	4453.7	2968.0	1989.6	1563.6	1451.8	1439.4	1460.8	1497.0	1500.4
27.5°	6556.2	5738.2	3904.6	2355.6	1594.1	1377.2	1330.9	1345.6	1384.0	1425.8	1426.9
30°	6376.6	5429.8	3371.3	1856.3	1346.7	1238.3	1230.3	1259.7	1301.5	1334.3	1342.2
32.5°	6237.6	5166.6	2856.1	1492.5	1185.2	1134.3	1141.1	1165.9	1191.9	1210.0	1222.4
35°	6173.2	4940.6	2380.5	1258.6	1082.3	1054.1	1063.1	1076.7	1088.0	1101.5	1111.7
37.5°	6184.5	4765.5	1955.7	1112.8	1013.4	998.7	998.7	998.7	998.7	1005.5	1006.6
40°	6289.6	4664.9	1610.0	1020.2	967.1	951.3	938.9	927.6	918.5	923.0	920.8
42.5°	6558.5	4655.9	1356.9	961.5	929.8	903.8	879.0	863.2	851.9	856.4	858.6
45°	7014.9	4768.9	1186.3	919.7	894.8	855.3	823.6	806.7	798.8	813.5	815.7
47.5°	7605.8	5015.2	1082.3	889.1	862.0	810.1	776.2	760.4	762.6	784.1	789.7
50°	8367.3	5415.1	1032.6	869.9	839.4	771.6	736.6	723.1	729.8	760.4	767.1
52.5°	9203.3	5991.3	1038.3	864.3	824.8	743.4	706.1	690.3	701.6	729.8	735.5
55°	10168.2	6683.9	1132.1	872.2	803.3	725.3	681.3	654.2	663.2	689.2	693.7
57.5°	11240.3	7477.0	1320.7	869.9	776.2	708.4	655.3	614.6	621.4	637.2	641.7
60°	12356.6	8435.0	1613.3	876.7	763.7	688.0	620.3	569.4	567.2	580.7	583.0
62.5°	13696.5	9543.4	1947.8	881.2	771.6	662.1	573.9	524.2	517.4	520.8	523.1
65°	15077.1	10345.5	1822.4	863.2	796.5	640.6	533.3	480.2	467.7	465.5	466.6
67.5°	15120.0	9485.8	1277.8	827.0	806.7	629.3	502.8	442.9	422.5	414.6	413.5
70°	13559.8	7706.3	995.3	788.6	766.0	611.2	474.5	412.4	381.9	369.4	368.3
71°	12798.3	7094.0	943.4	769.4	735.5	593.1	462.1	398.8	367.2	353.6	351.4
72.5°	11604.1	6359.6	880.1	738.9	676.7	546.8	438.4	379.6	346.8	331.0	327.6
75°	8327.7	4158.8	755.8	658.7	560.4	436.1	384.1	341.2	313.0	293.7	291.5
77.5°	3208.6	1655.1	571.7	548.0	429.3	341.2	316.3	294.9	274.5	255.3	254.2
80°	992.0	740.0	416.9	412.4	310.7	254.2	246.3	240.6	232.7	212.4	207.9
82.5°	529.9	424.8	287.0	266.6	203.4	169.5	178.5	180.8	181.9	160.4	158.2
85°	253.1	224.8	161.6	151.4	118.6	94.9	109.6	118.6	119.8	98.3	91.5
87.5°	120.9	117.5	75.7	57.6	44.1	31.6	38.4	47.5	52.0	37.3	32.8
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)