

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: P319601

Luminaire Tested: **GAN-SA7B-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319601
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-SA7B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 33806 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

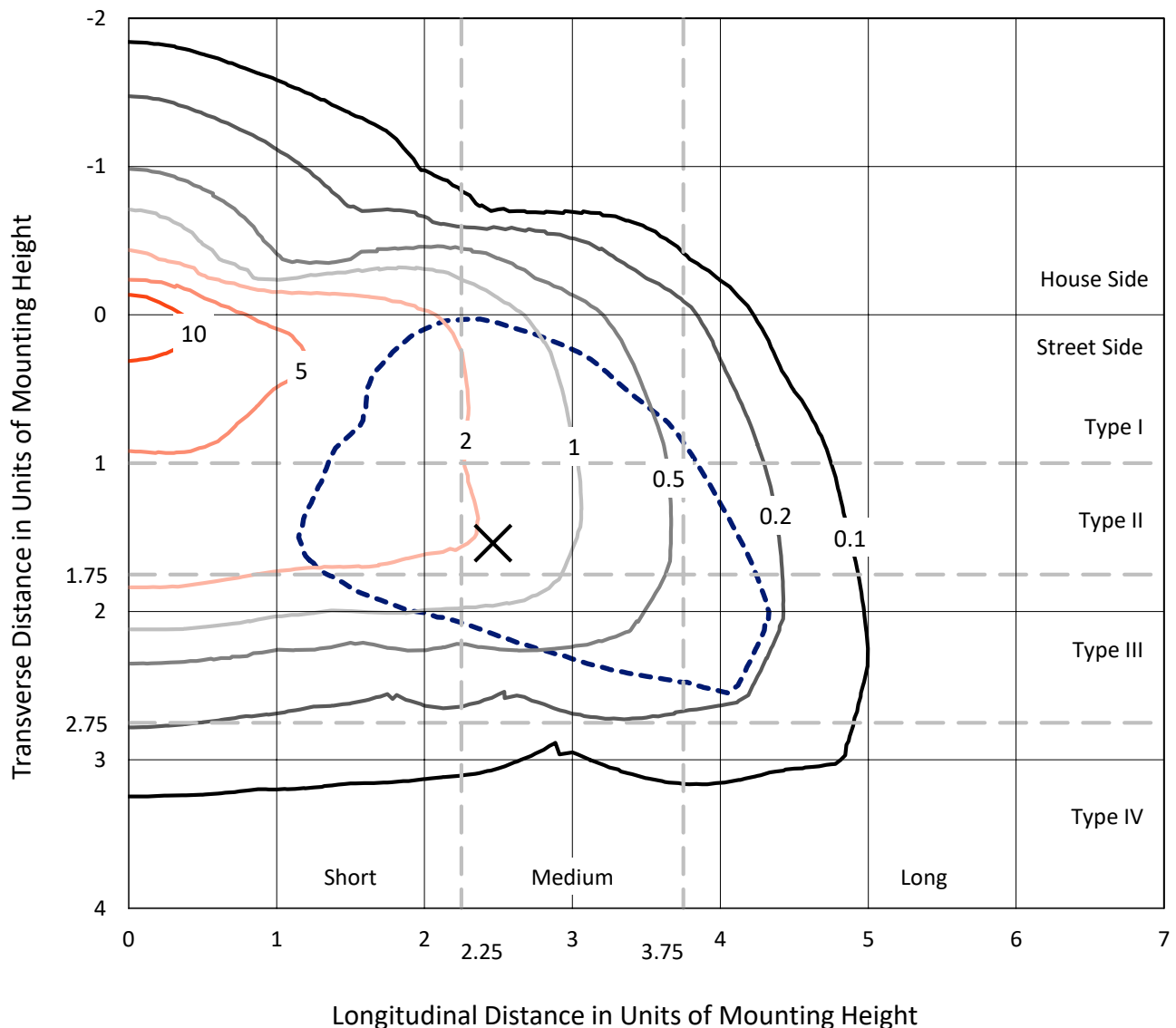
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

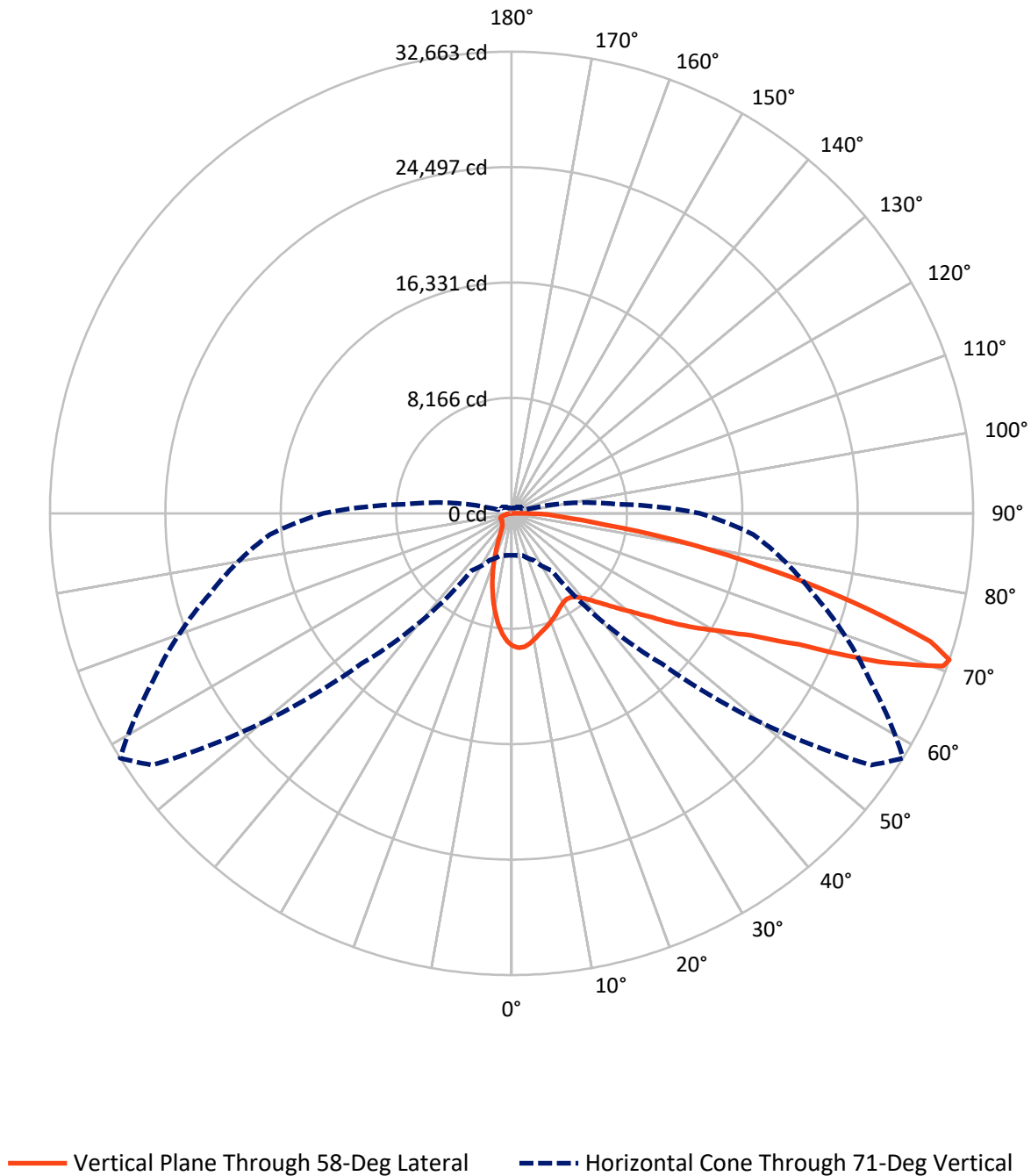
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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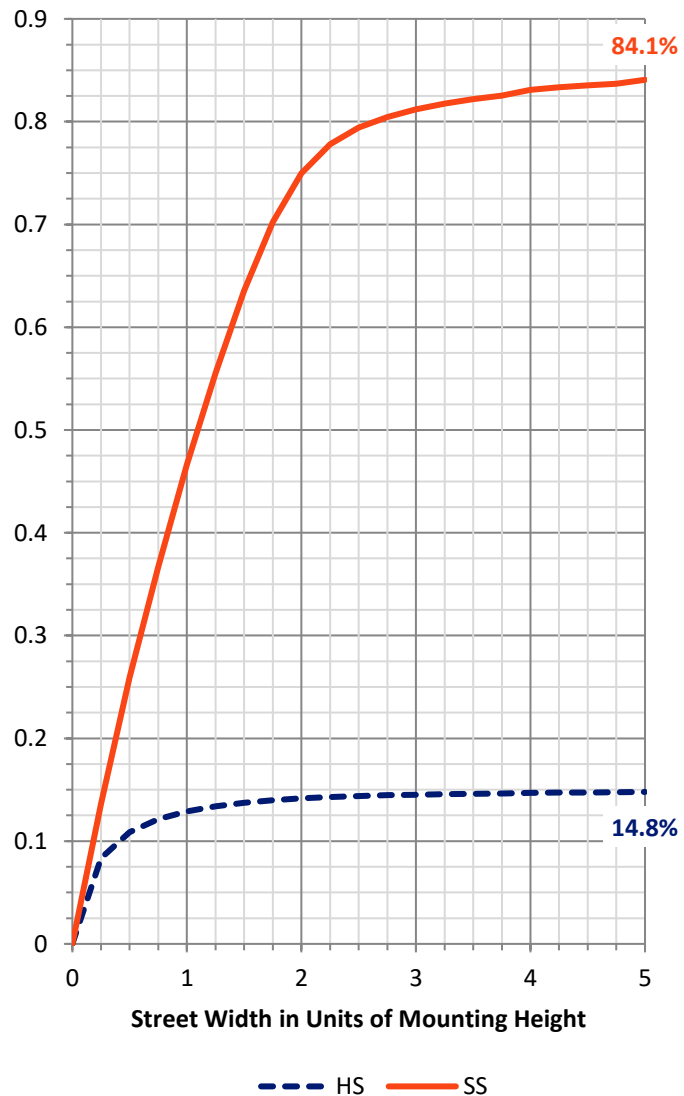
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5054.2	0.0	5054.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28751.8	0.0	28751.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	33806.0	0.0	33806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.1	2.4
10°-20°	1796.8	5.3
20°-30°	2283.5	6.8
30°-40°	2908.8	8.6
40°-50°	4124.8	12.2
50°-60°	6383.3	18.9
60°-70°	8690.0	25.7
70°-80°	5797.2	17.1
80°-90°	1013.6	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°	33806.0	100.0
0°-180°	33806.0	100.0

Coefficient of Utilization



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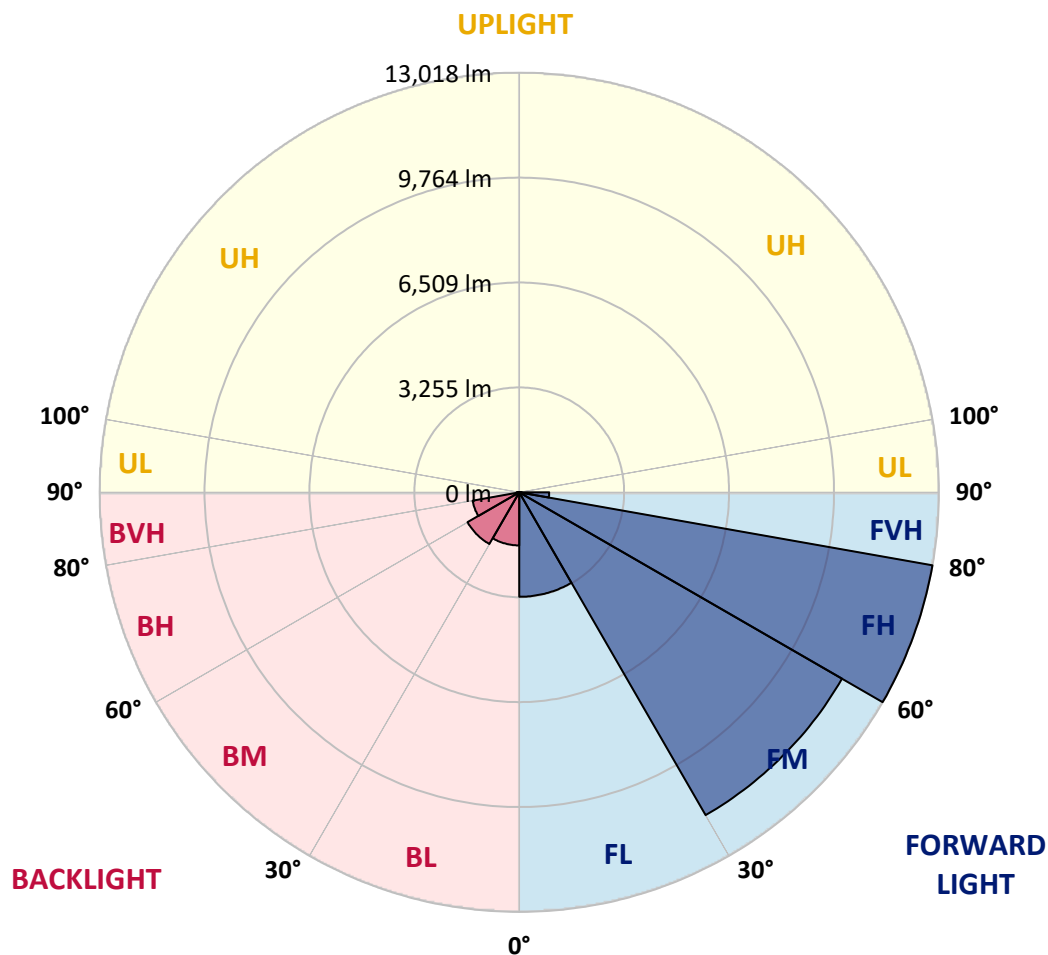
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3240.9	9.6			
FM	(30°-60°)	11563.3	34.2			
FH	(60°-80°)	13018.3	38.5			G5
FVH	(80°-90°)	929.4	2.7			G5
BL	(0°-30°)	1647.5	4.9	B3/2500		
BM	(30°-60°)	1853.5	5.5	B2/2500		
BH	(60°-80°)	1469.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	84.2	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°	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5
2.5°	9615.0	9602.0	9606.7	9597.3	9575.0	9552.6	9519.6	9525.5	9479.6	9411.3	9326.5
5°	9433.6	9428.9	9464.3	9484.3	9500.8	9487.8	9478.4	9490.2	9423.0	9328.8	9181.6
7.5°	9053.3	9001.5	9046.2	9113.3	9176.9	9225.2	9288.8	9297.0	9254.7	9155.7	8962.6
10°	8512.8	8463.3	8529.3	8634.1	8761.2	8876.6	9005.0	9028.6	9036.8	8947.3	8713.0
12.5°	7952.2	7914.6	7980.5	8127.7	8338.5	8516.3	8721.2	8756.5	8829.5	8769.5	8482.2
15°	7450.6	7436.5	7516.5	7661.4	7904.0	8176.0	8471.6	8536.3	8660.0	8640.0	8302.0
17.5°	7017.2	7013.7	7074.9	7226.8	7495.3	7839.2	8223.1	8332.6	8516.3	8539.9	8153.6
20°	6694.6	6687.5	6729.9	6841.8	7118.5	7508.3	7954.6	8105.3	8370.3	8452.7	8000.5
22.5°	6521.5	6520.3	6521.5	6574.5	6800.6	7163.3	7693.2	7876.9	8227.8	8383.2	7830.9
25°	6492.0	6488.5	6462.6	6456.7	6585.1	6874.7	7434.1	7636.6	8092.4	8335.0	7669.6
27.5°	6568.6	6573.3	6539.1	6483.8	6509.7	6685.2	7209.2	7425.9	7984.0	8325.5	7557.7
30°	6727.6	6725.2	6695.8	6638.1	6587.4	6614.5	7049.0	7265.7	7911.0	8366.8	7481.2
32.5°	6903.0	6916.0	6910.1	6878.3	6802.9	6694.6	7000.8	7212.7	7889.8	8465.7	7448.2
35°	7113.8	7127.9	7170.3	7195.1	7106.7	6932.5	7104.4	7288.1	7951.1	8651.7	7501.2
37.5°	7314.0	7350.5	7469.4	7574.2	7498.9	7304.6	7379.9	7510.6	8140.7	8944.9	7643.7
40°	7544.8	7576.6	7770.9	7993.5	7981.7	7780.3	7823.9	7911.0	8475.1	9365.3	7901.6
42.5°	7772.1	7835.7	8117.1	8432.7	8523.4	8345.6	8415.0	8461.0	8946.1	9922.3	8351.4
45°	8074.7	8143.0	8534.0	8914.3	9126.3	9026.2	9136.9	9154.6	9538.4	10680.7	9005.0
47.5°	8532.8	8610.5	9066.2	9465.4	9789.3	9799.9	9982.4	9975.3	10278.0	11548.6	9828.1
50°	9246.4	9358.3	9731.6	10104.9	10498.2	10717.2	10961.0	10926.8	11164.7	12473.0	10776.1
52.5°	10181.4	10233.2	10510.0	10785.5	11274.2	11765.3	12115.0	12084.4	12170.4	13423.3	11852.4
55°	11150.6	11189.4	11303.7	11454.4	12111.5	12912.2	13651.8	13603.5	13385.6	14410.1	12915.8
57.5°	12022.0	12100.9	12179.8	12242.2	12954.6	14111.0	15223.8	15227.4	14704.5	15474.7	14014.5
60°	12157.4	12226.9	12748.5	13240.8	14397.2	15710.2	16906.6	16871.3	16069.3	16629.9	15239.1
62.5°	10746.7	10903.3	11774.7	13084.2	15786.7	18635.3	19053.3	19009.8	17701.5	18053.6	16665.2
65°	7701.4	7879.2	8930.8	10898.6	15113.1	21858.4	22927.6	22341.2	19927.1	19804.6	18335.0
67.5°	4443.0	4485.4	4941.2	6521.5	11507.4	22026.8	28837.9	28017.1	23383.3	21791.2	19152.3
70°	3285.5	3284.3	3392.6	4013.2	6227.1	17977.0	31648.8	32384.8	27022.1	22444.8	17997.1
71°	2971.1	2974.6	3095.9	3652.9	4931.7	15047.2	31051.8	32662.7	27980.6	22122.1	17161.0
72.5°	2541.2	2553.0	2721.4	3276.0	4148.6	10376.9	28479.9	30995.3	28435.2	21326.1	15852.7
75°	1927.7	1954.8	2188.0	2761.4	3791.8	5262.6	20902.2	24750.5	25260.4	18817.8	11779.4
77.5°	1375.4	1406.0	1669.8	2322.2	3604.6	3966.1	13998.0	18053.6	18589.4	12059.7	5313.3
80°	869.1	905.6	1104.6	1847.6	3386.7	3765.9	8796.6	12135.0	10136.7	3859.0	1351.9
82.5°	509.9	538.2	685.4	1207.0	2766.2	3627.0	5175.5	6726.4	3944.9	1165.8	614.7
85°	295.6	308.5	427.5	769.0	2009.0	3423.2	3802.4	3760.0	1712.2	570.0	290.9
87.5°	137.8	153.1	253.2	401.6	1115.2	2481.2	3005.2	2596.6	1064.5	267.3	136.6
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°	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5	9366.5
2.5°	9285.3	9265.2	9181.6	9107.5	9029.7	8928.5	8816.6	8802.5	8734.2	8747.1	8723.6
5°	9101.6	9050.9	8849.6	8667.0	8451.5	8258.4	8048.8	7952.2	7813.3	7803.9	7768.5
7.5°	8839.0	8744.8	8432.7	8086.5	7740.3	7410.6	7084.4	6870.0	6651.0	6558.0	6549.7
10°	8543.4	8383.2	7924.0	7411.7	6912.4	6430.8	5964.5	5619.4	5308.6	5161.4	5155.5
12.5°	8263.1	8026.4	7396.4	6699.3	6016.3	5392.2	4752.7	4299.4	3909.6	3778.9	3723.5
15°	8025.3	7692.0	6883.0	5991.6	5162.5	4295.8	3568.1	3091.2	2730.8	2606.0	2582.4
17.5°	7794.4	7365.8	6356.6	5276.8	4274.6	3322.0	2593.0	2238.6	2046.6	1996.0	1994.8
20°	7564.8	7030.2	5806.7	4545.5	3416.2	2484.7	1993.7	1834.7	1769.9	1764.0	1754.6
22.5°	7304.6	6674.6	5228.5	3811.8	2666.1	1953.6	1694.5	1631.0	1622.7	1643.9	1643.9
25°	7060.8	6321.3	4642.0	3093.5	2073.7	1629.8	1513.2	1500.2	1522.6	1560.3	1563.8
27.5°	6833.5	5981.0	4069.7	2455.3	1661.6	1435.5	1387.2	1402.5	1442.5	1486.1	1487.3
30°	6646.3	5659.5	3513.9	1934.8	1403.7	1290.6	1282.4	1313.0	1356.6	1390.7	1399.0
32.5°	6501.5	5385.1	2976.9	1555.6	1235.3	1182.3	1189.4	1215.3	1242.4	1261.2	1274.1
35°	6434.3	5149.6	2481.2	1311.8	1128.1	1098.7	1108.1	1122.2	1134.0	1148.1	1158.7
37.5°	6446.1	4967.1	2038.4	1159.9	1056.3	1041.0	1041.0	1041.0	1041.0	1048.1	1049.2
40°	6555.6	4862.3	1678.1	1063.4	1008.0	991.5	978.6	966.8	957.4	962.1	959.7
42.5°	6835.9	4852.8	1414.3	1002.1	969.2	942.1	916.2	899.7	887.9	892.6	895.0
45°	7311.6	4970.6	1236.5	958.6	932.6	891.4	858.5	840.8	832.6	847.9	850.2
47.5°	7927.5	5227.3	1128.1	926.8	898.5	844.3	809.0	792.5	794.9	817.2	823.1
50°	8721.2	5644.2	1076.3	906.7	874.9	804.3	767.8	753.7	760.7	792.5	799.6
52.5°	9592.6	6244.7	1082.2	900.9	859.6	774.9	736.0	719.5	731.3	760.7	766.6
55°	10598.3	6966.6	1179.9	909.1	837.3	756.0	710.1	681.8	691.2	718.3	723.0
57.5°	11715.8	7793.3	1376.6	906.7	809.0	738.3	683.0	640.6	647.7	664.2	668.9
60°	12879.3	8791.9	1681.6	913.8	796.0	717.2	646.5	593.5	591.1	605.3	607.6
62.5°	14275.9	9947.1	2030.2	918.5	804.3	690.1	598.2	546.4	539.3	542.9	545.2
65°	15714.9	10783.2	1899.4	899.7	830.2	667.7	555.8	500.5	487.5	485.2	486.3
67.5°	15759.6	9887.0	1331.9	862.0	840.8	655.9	524.0	461.6	440.4	432.2	431.0
70°	14133.4	8032.3	1037.5	822.0	798.4	637.1	494.6	429.8	398.0	385.1	383.9
71°	13339.7	7394.1	983.3	801.9	766.6	618.2	481.6	415.7	382.7	368.6	366.2
72.5°	12095.0	6628.6	917.3	770.1	705.4	570.0	456.9	395.7	361.5	345.0	341.5
75°	8680.0	4334.7	787.8	686.5	584.1	454.5	400.4	355.6	326.2	306.2	303.8
77.5°	3344.3	1725.2	595.9	571.1	447.5	355.6	329.7	307.4	286.2	266.1	265.0
80°	1033.9	771.3	434.5	429.8	323.8	265.0	256.7	250.8	242.6	221.4	216.7
82.5°	552.3	442.8	299.1	277.9	212.0	176.6	186.1	188.4	189.6	167.2	164.9
85°	263.8	234.3	168.4	157.8	123.6	98.9	114.2	123.6	124.8	102.5	95.4
87.5°	126.0	122.5	78.9	60.1	45.9	33.0	40.0	49.5	54.2	38.9	34.2
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)