

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: P319292

Luminaire Tested: **GAN-SA8C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46440 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

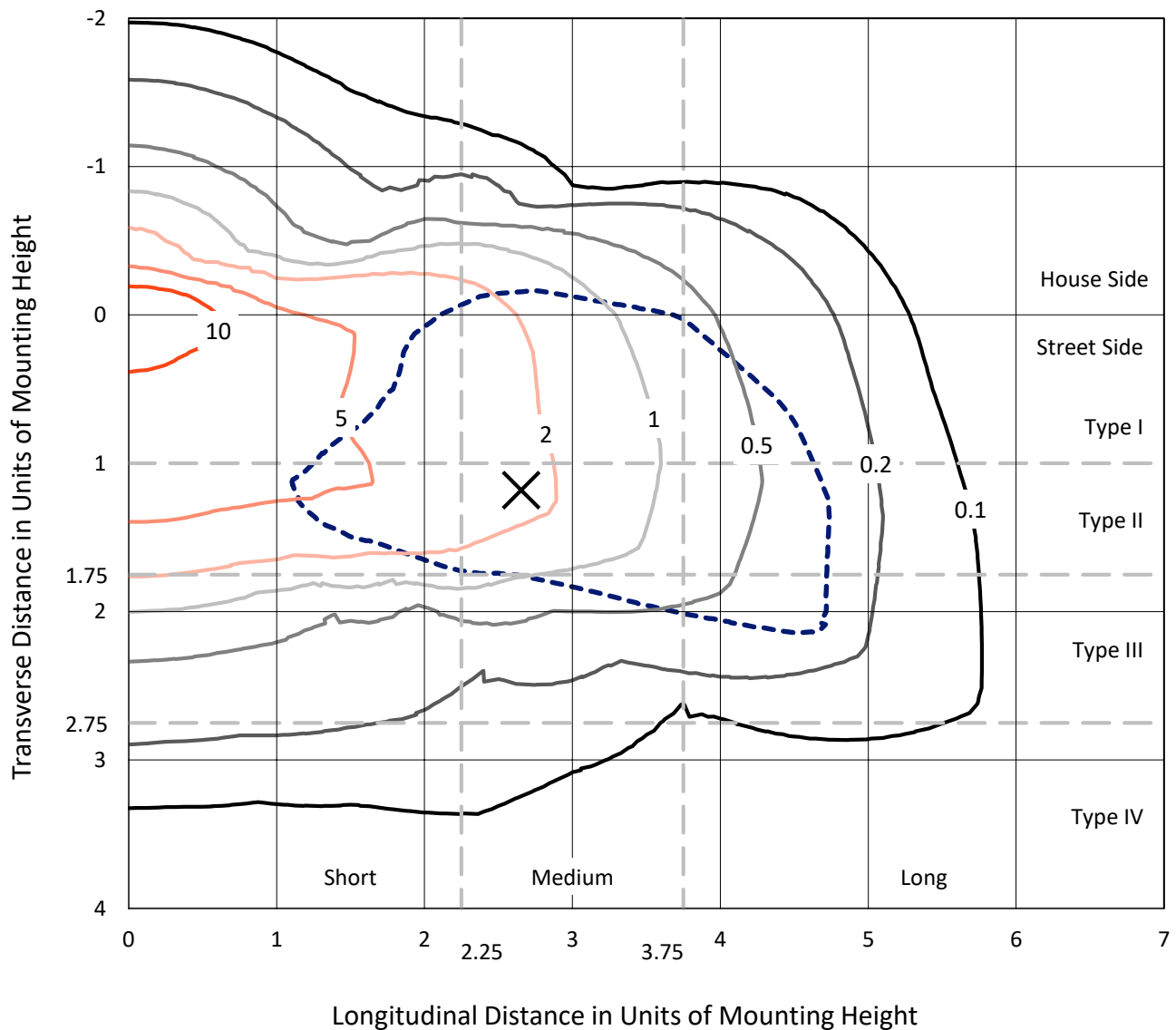


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Iso-Footcandle Lines of Horizontal Illumination

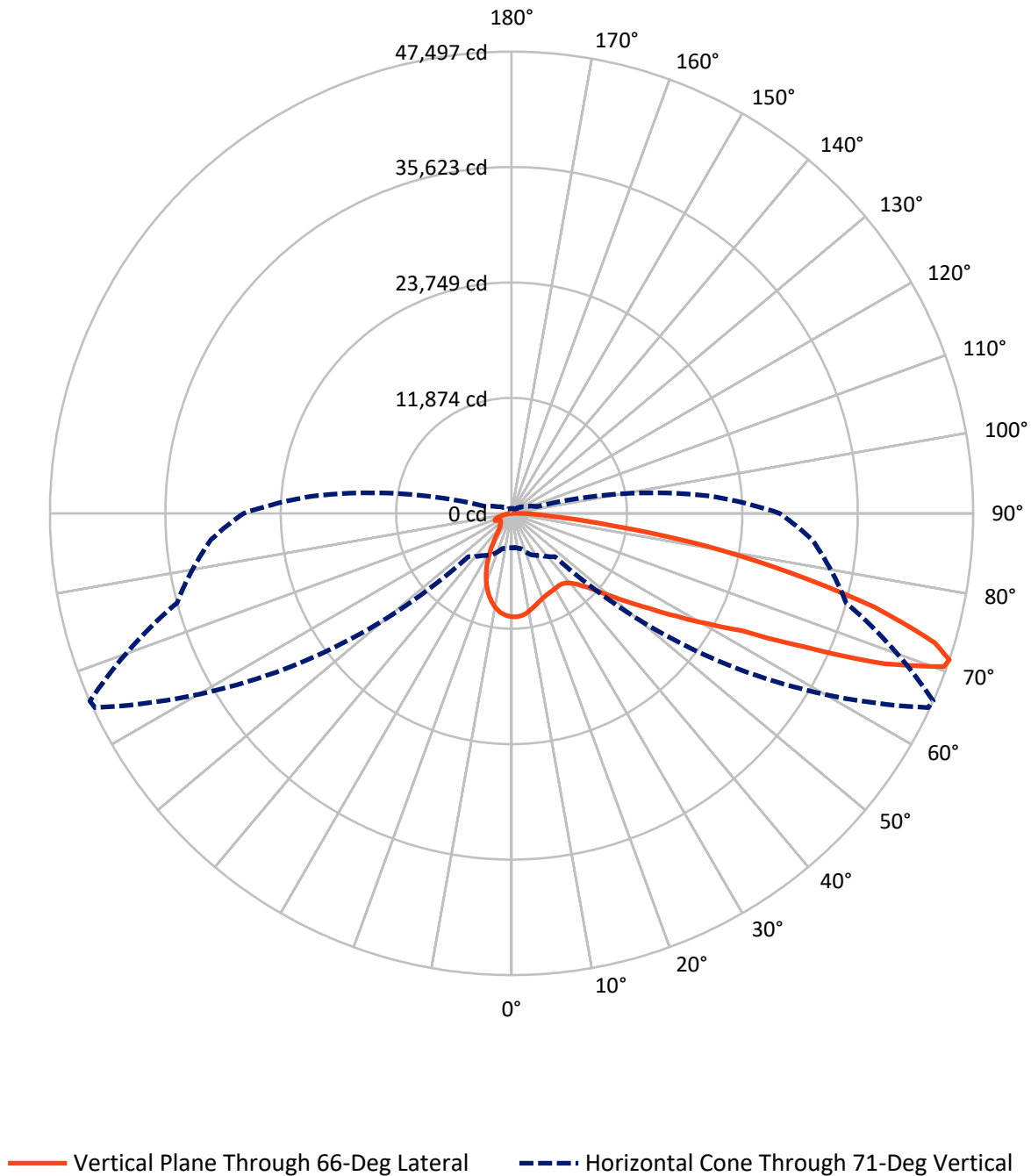
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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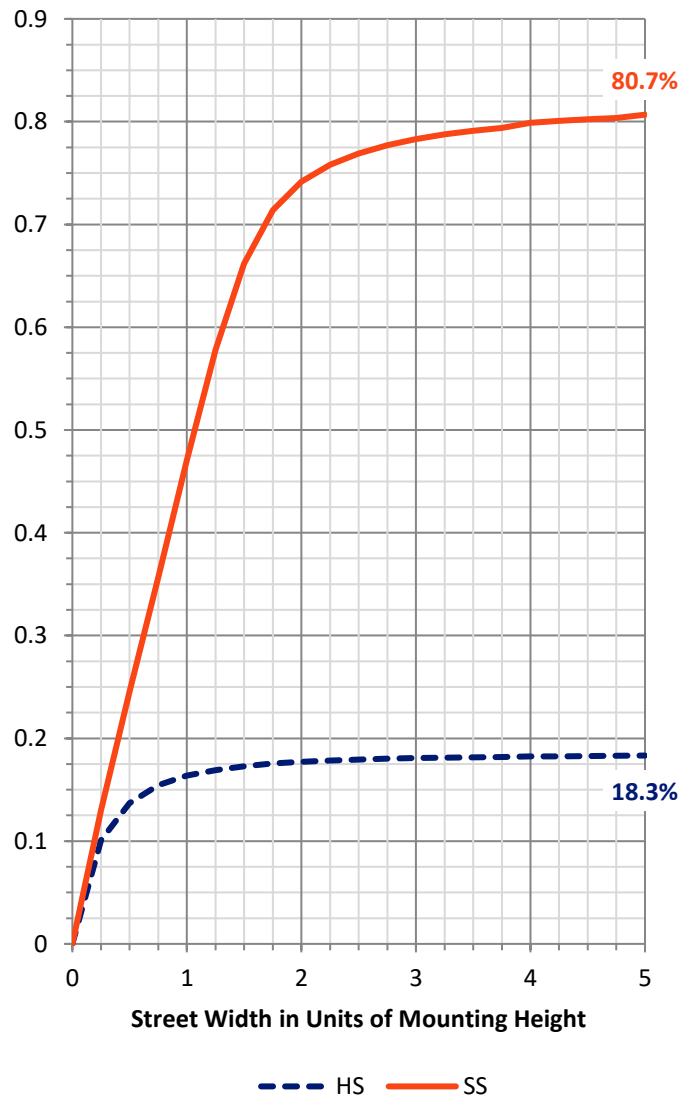
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8606.6	0.0	8606.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37833.4	0.0	37833.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	46440.0	0.0	46440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.4	2.0
10°-20°	2246.0	4.8
20°-30°	3016.9	6.5
30°-40°	3968.7	8.5
40°-50°	5773.4	12.4
50°-60°	9018.7	19.4
60°-70°	11297.4	24.3
70°-80°	8617.4	18.6
80°-90°	1564.8	3.4
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°	46440.0	100.0
0°-180°	46440.0	100.0

Coefficient of Utilization



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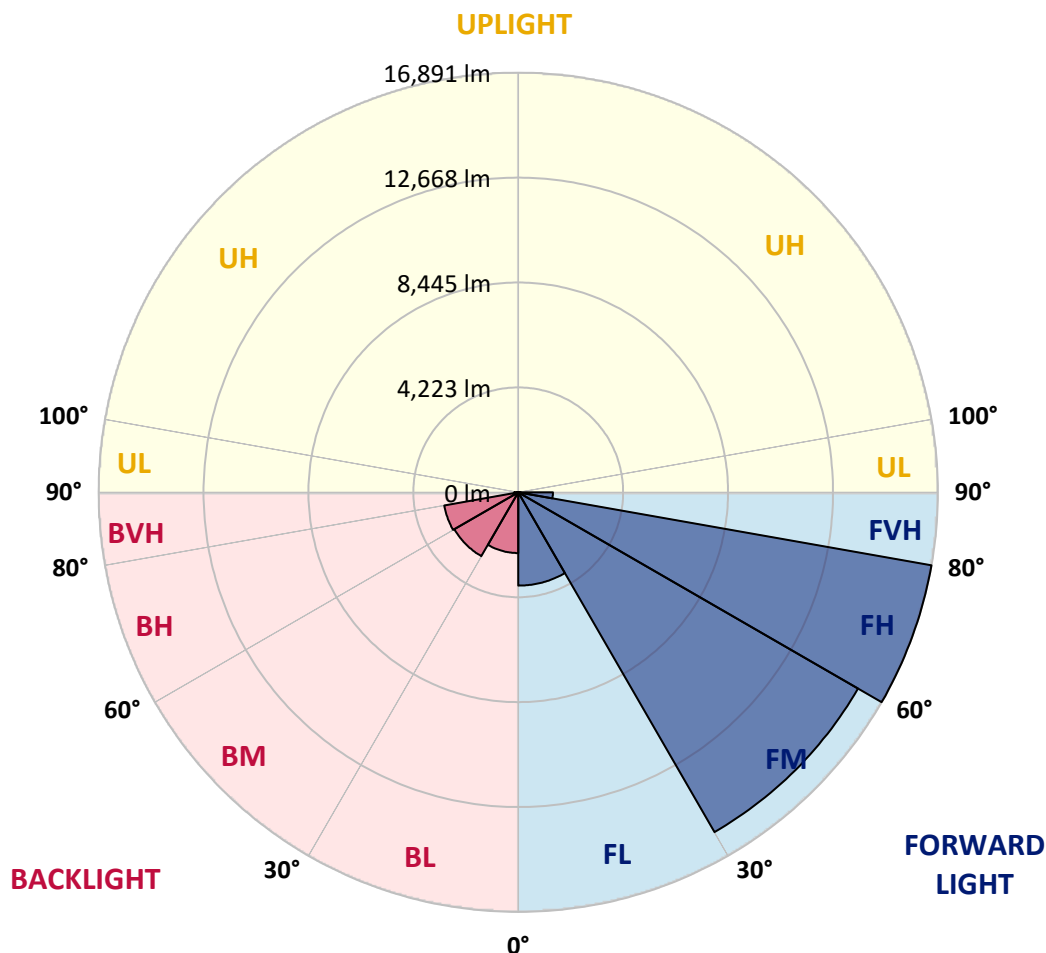
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3755.3	8.1			
FM	(30°-60°)	15791.9	34.0			
FH	(60°-80°)	16890.7	36.4			G5
FVH	(80°-90°)	1395.4	3.0			G5
BL	(0°-30°)	2444.0	5.3	B3/2500		
BM	(30°-60°)	2969.0	6.4	B3/5000		
BH	(60°-80°)	3024.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	169.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5
2.5°	10441.3	10425.3	10473.4	10523.1	10542.3	10574.4	10622.5	10649.7	10648.1	10652.9	10636.9
5°	9748.6	9727.8	9824.0	9902.5	10053.3	10223.2	10430.1	10577.6	10580.8	10664.2	10686.6
7.5°	9092.8	9078.4	9189.0	9315.7	9490.5	9750.2	10085.3	10402.8	10422.0	10648.1	10726.7
10°	8566.9	8563.7	8671.1	8809.0	9012.7	9302.9	9687.7	10152.7	10181.5	10571.2	10733.1
12.5°	8156.5	8162.9	8255.9	8413.0	8627.9	8930.9	9347.8	9872.1	9918.6	10449.3	10696.2
15°	7853.4	7879.1	7954.4	8113.2	8324.8	8632.7	9060.8	9612.3	9682.9	10313.0	10675.4
17.5°	7680.2	7709.1	7762.0	7893.5	8092.3	8388.9	8794.6	9399.1	9463.2	10208.8	10677.0
20°	7628.9	7653.0	7683.5	7763.6	7932.0	8201.3	8584.6	9206.7	9275.6	10125.4	10693.0
22.5°	7730.0	7747.6	7750.8	7744.4	7847.0	8066.7	8432.2	9065.6	9139.3	10070.9	10704.2
25°	7946.4	7970.5	7952.8	7893.5	7859.8	7994.5	8353.7	8972.6	9046.3	10030.8	10681.8
27.5°	8271.9	8275.1	8260.7	8183.7	8025.0	8002.5	8329.6	8918.1	8988.6	9984.3	10635.3
30°	8714.4	8735.3	8709.6	8605.4	8345.7	8130.8	8358.5	8865.2	8929.3	9925.0	10559.9
32.5°	9232.3	9283.6	9282.0	9173.0	8801.0	8417.8	8477.1	8833.1	8882.8	9862.5	10468.5
35°	9769.5	9840.0	9971.5	9925.0	9464.8	8871.6	8704.8	8884.4	8918.1	9854.4	10404.4
37.5°	10327.4	10398.0	10669.0	10794.0	10255.3	9520.9	9064.0	9065.6	9081.6	9952.3	10399.6
40°	10911.1	10986.4	11393.7	11719.2	11279.9	10343.5	9642.8	9444.0	9426.3	10192.8	10494.2
42.5°	11728.8	11796.2	12285.2	12700.5	12416.7	11396.9	10442.9	10027.6	9990.7	10664.2	10797.2
45°	12763.0	12820.7	13340.2	13784.4	13638.5	12599.5	11448.2	10830.9	10824.5	11449.8	11411.3
47.5°	13992.8	14037.7	14504.3	14934.0	14986.9	13983.2	12711.7	12070.3	11966.1	12527.3	12362.2
50°	15273.9	15323.6	15641.1	16102.9	16495.7	15835.1	14337.5	13588.7	13449.3	13949.5	13709.0
52.5°	16122.1	16187.8	16463.6	17048.9	18192.1	17865.0	16260.0	15429.4	15217.8	15673.2	15488.8
55°	15743.7	15891.2	16312.9	17250.9	19548.6	20966.0	18631.4	17576.4	17337.5	17715.9	17606.8
57.5°	14023.3	14225.3	14800.9	16248.8	19739.4	23698.1	22216.6	20104.9	19936.6	19827.5	19877.2
60°	10879.0	11073.0	11786.5	13673.7	18410.1	25692.8	27612.0	23221.9	22978.2	21947.2	21992.1
62.5°	7699.5	7601.7	8090.7	9471.2	14959.6	25926.8	33751.4	27390.7	26589.0	24185.6	23988.3
65°	5871.6	5849.2	6068.8	6508.2	9060.8	23125.7	37408.7	34397.6	33145.3	26818.3	26353.3
67.5°	4824.6	4784.5	5001.0	5640.7	5834.7	14919.6	37488.9	42526.8	41297.0	30095.7	29088.7
70°	3966.8	3921.9	4123.9	4949.7	5392.2	7566.4	31551.5	47287.2	47221.5	34245.2	31153.9
71°	3556.3	3524.3	3766.4	4683.5	5297.6	6306.1	27241.6	47300.1	47497.3	35649.8	31032.0
72.5°	2895.7	2906.9	3163.5	4168.8	5227.1	5568.6	20021.6	45095.4	45512.3	36988.6	29924.1
75°	1924.1	1933.7	2270.4	3206.8	5068.3	5448.3	11004.1	37840.0	38606.5	36187.0	27305.8
77.5°	1292.3	1289.1	1518.4	2199.9	4415.7	5448.3	6452.0	28301.5	29143.3	28793.7	21050.9
80°	889.9	883.5	1045.4	1518.4	3343.1	5514.1	4988.2	19834.0	20088.9	15549.7	8555.7
82.5°	545.2	550.0	683.0	1072.7	2275.2	4962.5	4709.2	10814.9	10537.5	4361.2	2137.3
85°	312.7	311.1	436.1	726.3	1460.7	4188.1	4592.1	4654.6	4269.8	1313.2	772.8
87.5°	112.2	120.3	234.1	402.5	837.0	2916.6	3896.2	2421.1	2182.2	593.3	349.5
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°	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5	10638.5
2.5°	10625.7	10635.3	10624.1	10559.9	10505.4	10417.2	10367.5	10298.6	10277.7	10268.1	10293.8
5°	10665.8	10669.0	10574.4	10406.0	10216.8	9993.9	9833.6	9636.4	9543.4	9503.3	9529.0
7.5°	10702.6	10688.2	10481.4	10159.1	9809.6	9421.5	9076.8	8760.9	8576.5	8501.2	8507.6
10°	10707.5	10646.5	10314.6	9816.0	9274.0	8704.8	8175.7	7688.3	7380.4	7180.0	7240.9
12.5°	10657.7	10555.1	10069.3	9371.8	8619.8	7843.8	7128.7	6397.5	5958.2	5754.6	5761.0
15°	10619.3	10433.3	9767.9	8849.1	7839.0	6811.2	5834.7	4975.3	4507.1	4298.7	4200.9
17.5°	10587.2	10301.8	9418.3	8260.7	6917.0	5613.5	4439.8	3673.4	3416.8	3355.9	3330.2
20°	10542.3	10162.3	9028.7	7579.2	5866.8	4273.0	3242.1	2863.7	2865.3	2935.8	2945.4
22.5°	10479.8	10003.6	8613.4	6814.4	4739.6	3112.2	2541.4	2432.3	2543.0	2677.7	2701.7
25°	10386.8	9816.0	8151.6	5969.4	3614.0	2392.3	2171.0	2166.2	2300.9	2442.0	2462.8
27.5°	10255.3	9570.6	7638.6	5061.9	2663.2	2033.1	1944.9	1978.6	2078.0	2180.6	2188.6
30°	10078.9	9285.2	7072.6	4104.7	2087.6	1810.2	1800.6	1831.1	1892.0	1964.2	1970.6
32.5°	9884.9	8995.0	6468.1	3177.9	1787.8	1690.0	1699.6	1714.0	1742.9	1771.7	1778.2
35°	9708.5	8698.4	5849.2	2414.7	1645.1	1611.4	1605.0	1601.8	1605.0	1595.4	1597.0
37.5°	9594.7	8453.1	5204.6	1922.5	1563.3	1542.5	1523.2	1499.2	1471.9	1455.9	1459.1
40°	9553.0	8270.3	4552.0	1661.1	1496.0	1481.5	1444.7	1393.3	1361.3	1351.7	1351.7
42.5°	9665.2	8175.7	3921.9	1529.6	1439.8	1415.8	1354.9	1295.5	1271.5	1269.9	1268.3
45°	10008.4	8214.2	3322.2	1457.5	1388.5	1342.0	1261.9	1212.2	1196.1	1199.3	1197.7
47.5°	10624.1	8456.3	2809.1	1409.4	1337.2	1276.3	1186.5	1146.4	1127.2	1127.2	1128.8
50°	11671.1	9022.3	2400.3	1369.3	1293.9	1215.4	1132.0	1082.3	1056.6	1055.0	1055.0
52.5°	13195.9	10035.6	2145.3	1335.6	1245.8	1160.9	1077.5	1014.9	984.5	978.1	974.9
55°	15107.2	11488.3	2074.8	1313.2	1181.7	1101.5	1011.7	949.2	915.5	901.1	899.5
57.5°	17244.5	13255.2	2214.3	1285.9	1116.0	1031.0	939.6	880.3	845.0	827.4	825.7
60°	19407.5	15184.1	2783.5	1247.4	1061.4	954.0	865.8	811.3	776.0	756.8	753.6
62.5°	21573.6	17217.2	3945.9	1244.2	1023.0	880.3	790.5	744.0	710.3	689.5	684.6
65°	24017.2	19442.7	5267.1	1329.2	1010.1	812.9	713.5	676.6	647.8	628.5	626.9
67.5°	26823.1	21955.2	5140.5	1504.0	1053.4	752.0	641.4	612.5	591.7	575.6	574.0
70°	28139.5	21562.4	3195.6	1627.4	1114.4	692.7	572.4	551.6	535.5	524.3	519.5
71°	27588.0	20473.7	2679.3	1613.0	1107.9	667.0	545.2	529.1	513.1	503.5	498.7
72.5°	26084.0	18671.5	2235.1	1500.8	1035.8	620.5	509.9	493.8	479.4	468.2	465.0
75°	23406.3	16675.3	1789.4	1199.3	825.7	524.3	447.3	429.7	418.5	412.1	405.7
77.5°	17206.0	11900.4	1383.7	947.6	607.7	428.1	381.6	368.8	357.6	347.9	343.1
80°	6591.5	4609.8	931.6	707.1	445.7	338.3	307.9	301.4	290.2	283.8	283.8
82.5°	1775.0	1377.3	497.1	428.1	298.2	246.9	235.7	232.5	222.9	210.0	211.6
85°	718.3	607.7	279.0	235.7	182.8	145.9	158.7	160.3	149.1	133.1	134.7
87.5°	315.9	258.1	155.5	104.2	80.2	56.1	72.2	72.2	65.7	54.5	49.7
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)