

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: P319602

Luminaire Tested: **GAN-SA8B-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319602
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-SA8B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 38304 lumens
Efficiency: N/A
Efficacy: 114.7 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): 334
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

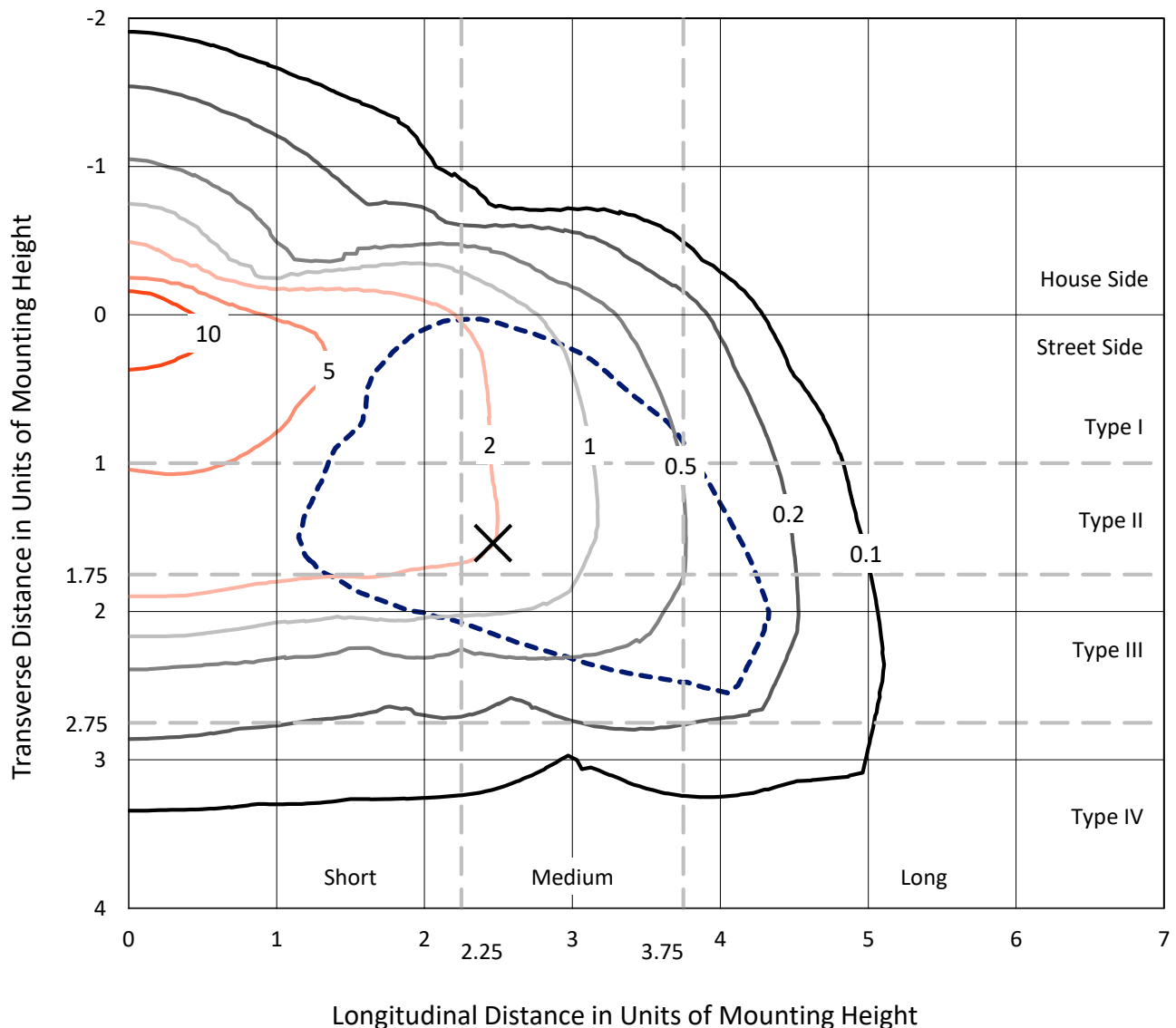


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Iso-Footcandle Lines of Horizontal Illumination

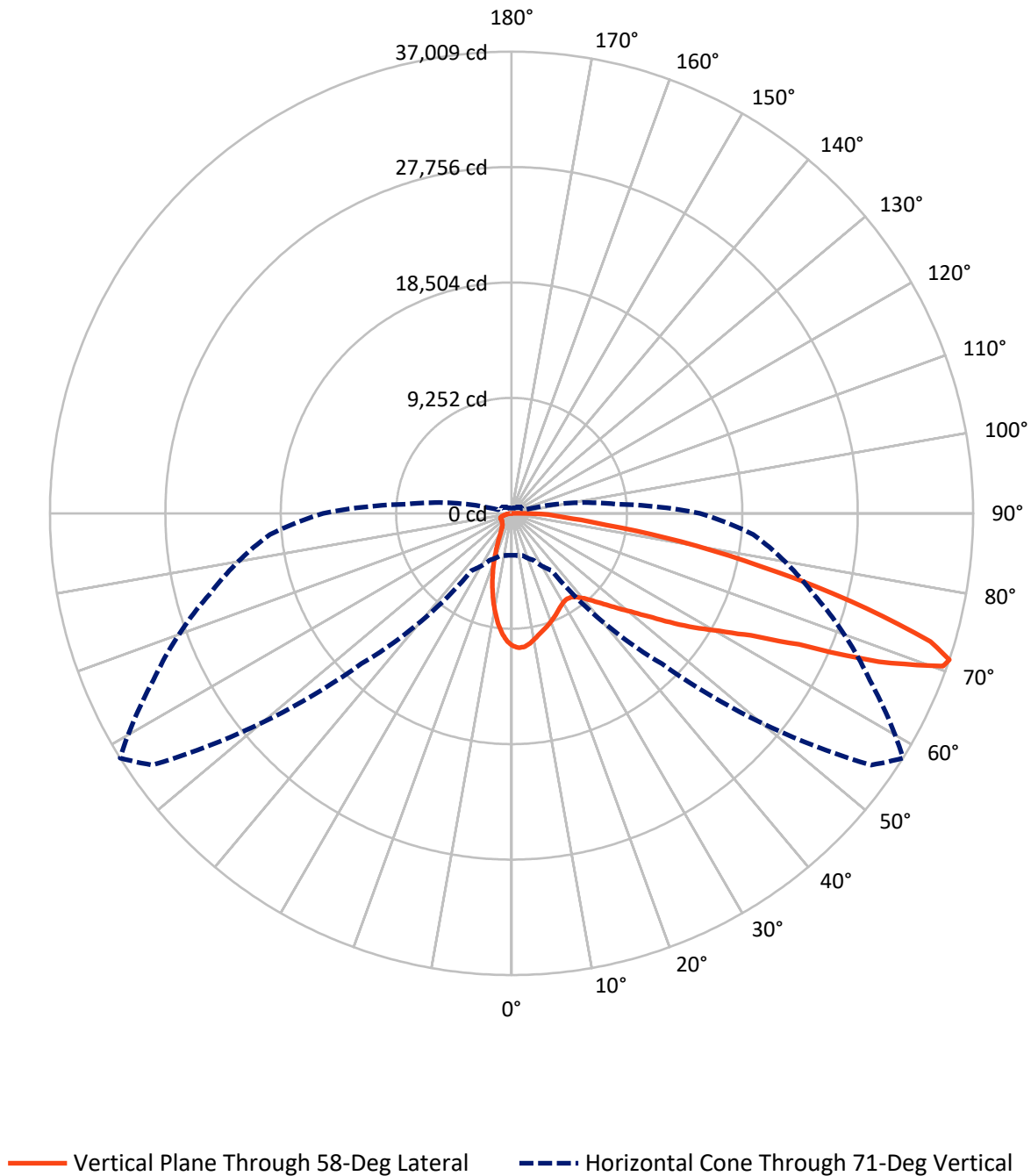
✕ Max cd
 - - - 1/2 Max cd



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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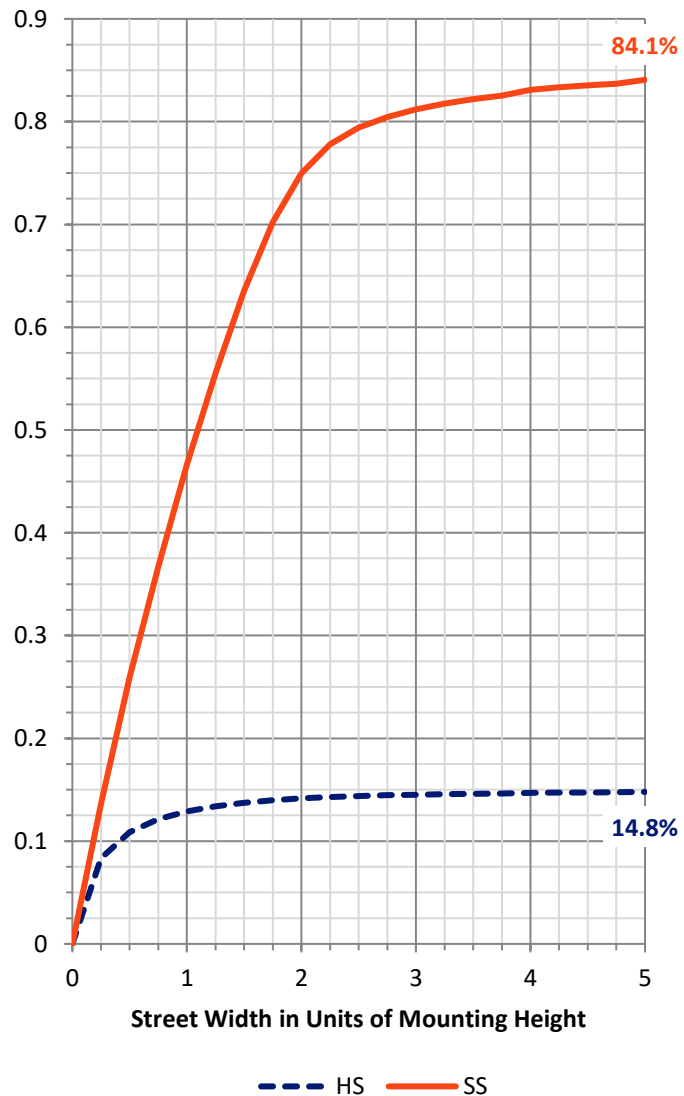
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5726.7	0.0	5726.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	32577.3	0.0	32577.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	38304.0	0.0	38304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.6	2.4
10°-20°	2035.9	5.3
20°-30°	2587.4	6.8
30°-40°	3295.8	8.6
40°-50°	4673.6	12.2
50°-60°	7232.6	18.9
60°-70°	9846.2	25.7
70°-80°	6568.6	17.1
80°-90°	1148.4	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°	38304.0	100.0
0°-180°	38304.0	100.0

Coefficient of Utilization



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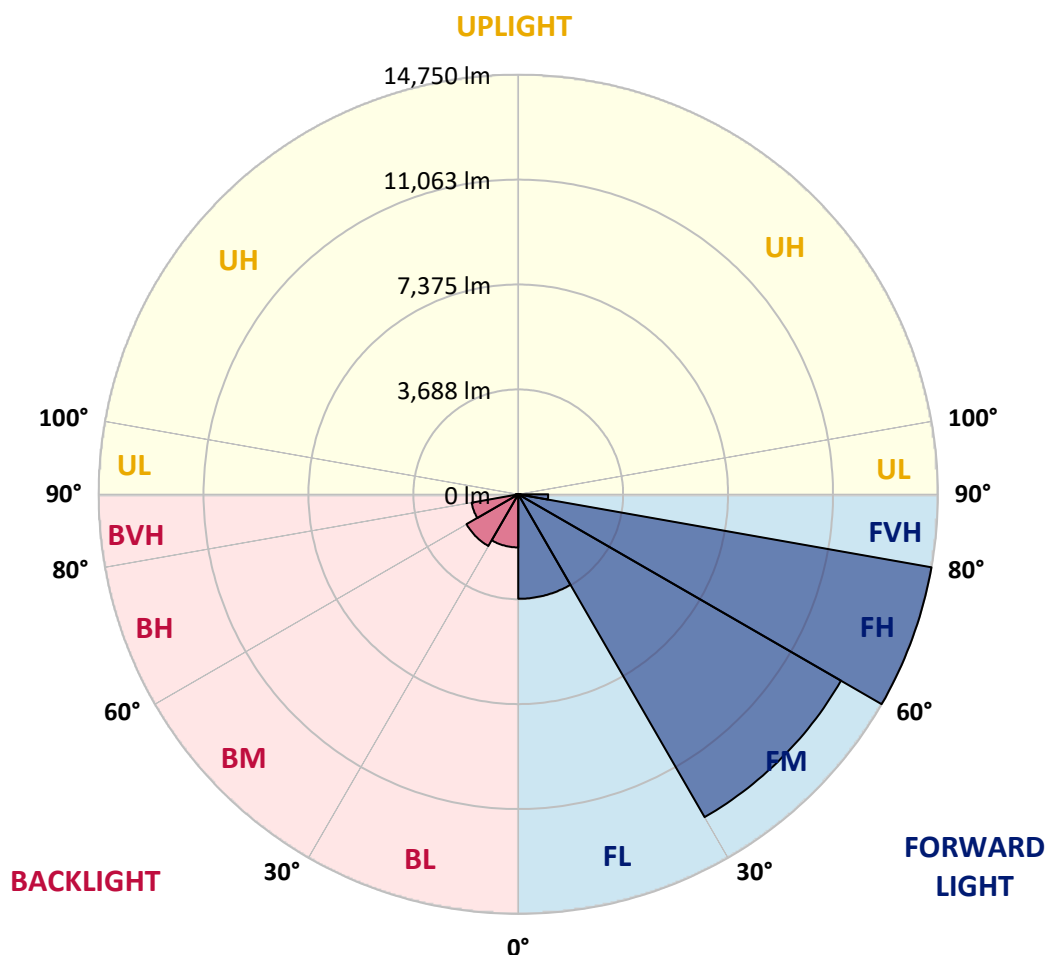
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3672.1	9.6			
FM	(30°-60°)	13101.8	34.2			
FH	(60°-80°)	14750.4	38.5			G5
FVH	(80°-90°)	1053.0	2.7			G5
BL	(0°-30°)	1866.7	4.9	B3/2500		
BM	(30°-60°)	2100.1	5.5	B2/2500		
BH	(60°-80°)	1664.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	95.4	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°	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8
2.5°	10894.3	10879.6	10885.0	10874.3	10848.9	10823.6	10786.2	10792.9	10740.9	10663.5	10567.4
5°	10688.8	10683.5	10723.5	10746.2	10764.9	10750.2	10739.5	10752.9	10676.8	10570.1	10403.3
7.5°	10257.9	10199.1	10249.8	10325.9	10398.0	10452.7	10524.7	10534.0	10486.0	10373.9	10155.1
10°	9645.4	9589.4	9664.1	9782.9	9927.0	10057.7	10203.1	10229.8	10239.2	10137.8	9872.2
12.5°	9010.3	8967.6	9042.3	9209.1	9448.0	9649.4	9881.6	9921.6	10004.3	9936.3	9610.7
15°	8441.9	8425.9	8516.6	8680.7	8955.6	9263.8	9598.7	9672.1	9812.2	9789.5	9406.6
17.5°	7950.9	7946.9	8016.3	8188.4	8492.6	8882.2	9317.2	9441.3	9649.4	9676.1	9238.5
20°	7585.3	7577.3	7625.3	7752.1	8065.7	8507.3	9013.0	9183.8	9484.0	9577.4	9065.0
22.5°	7389.2	7387.8	7389.2	7449.2	7705.4	8116.4	8716.8	8924.9	9322.5	9498.7	8872.9
25°	7355.8	7351.8	7322.5	7315.8	7461.2	7789.5	8423.2	8652.7	9169.1	9443.9	8690.1
27.5°	7442.5	7447.9	7409.2	7346.5	7375.8	7574.6	8168.4	8413.9	9046.3	9433.3	8563.3
30°	7622.7	7620.0	7586.6	7521.3	7463.9	7494.6	7986.9	8232.4	8963.6	9480.0	8476.6
32.5°	7821.5	7836.2	7829.5	7793.5	7708.1	7585.3	7932.2	8172.4	8939.6	9592.1	8439.2
35°	8060.3	8076.3	8124.4	8152.4	8052.3	7854.8	8049.6	8257.8	9009.0	9802.9	8499.3
37.5°	8287.1	8328.5	8463.3	8582.0	8496.6	8276.5	8361.9	8510.0	9223.8	10135.1	8660.7
40°	8548.7	8584.7	8804.8	9057.0	9043.7	8815.5	8864.9	8963.6	9602.7	10611.4	8952.9
42.5°	8806.2	8878.2	9197.1	9554.7	9657.4	9456.0	9534.7	9586.7	10136.4	11242.5	9462.6
45°	9149.1	9226.5	9669.4	10100.4	10340.6	10227.2	10352.6	10372.6	10807.6	12101.8	10203.1
47.5°	9668.1	9756.2	10272.5	10724.8	11091.8	11103.8	11310.6	11302.6	11645.5	13085.2	11135.8
50°	10476.7	10603.4	11026.4	11449.4	11895.0	12143.2	12419.4	12380.7	12650.2	14132.6	12209.9
52.5°	11536.1	11594.8	11908.3	12220.6	12774.3	13330.7	13727.0	13692.3	13789.7	15209.3	13429.4
55°	12634.2	12678.2	12807.6	12978.4	13722.9	14630.2	15468.2	15413.5	15166.6	16327.4	14634.3
57.5°	13621.5	13710.9	13800.3	13871.1	14678.3	15988.5	17249.4	17253.4	16661.0	17533.6	15879.1
60°	13775.0	13853.7	14444.8	15002.5	16312.8	17800.5	19156.1	19116.1	18207.4	18842.5	17266.8
62.5°	12176.5	12354.0	13341.3	14825.1	17887.2	21114.8	21588.5	21539.1	20056.7	20455.7	18882.6
65°	8726.1	8927.6	10119.1	12348.7	17124.0	24766.7	25978.2	25313.7	22578.5	22439.7	20774.6
67.5°	5034.2	5082.2	5598.6	7389.2	13038.5	24957.5	32674.9	31744.9	26494.6	24690.6	21700.5
70°	3722.6	3721.3	3844.0	4547.2	7055.6	20368.9	35859.8	36693.7	30617.5	25431.2	20391.6
71°	3366.4	3370.4	3507.8	4138.9	5587.9	17049.3	35183.3	37008.6	31703.5	25065.6	19444.3
72.5°	2879.4	2892.7	3083.5	3711.9	4700.6	11757.6	32269.3	35119.3	32218.6	24163.6	17961.9
75°	2184.2	2214.9	2479.1	3128.9	4296.3	5962.8	23683.3	28043.6	28621.4	21321.6	13346.7
77.5°	1558.4	1593.1	1892.0	2631.2	4084.2	4493.8	15860.4	20455.7	21062.8	13664.2	6020.2
80°	984.7	1026.1	1251.5	2093.5	3837.4	4267.0	9967.0	13749.6	11485.4	4372.4	1531.7
82.5°	577.7	609.8	776.5	1367.6	3134.2	4109.5	5864.1	7621.3	4469.8	1320.9	696.5
85°	334.9	349.6	484.3	871.3	2276.3	3878.7	4308.4	4260.3	1940.0	645.8	329.6
87.5°	156.1	173.5	286.9	455.0	1263.6	2811.3	3405.1	2942.1	1206.2	302.9	154.8
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°	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8	10612.8
2.5°	10520.7	10498.0	10403.3	10319.2	10231.2	10116.4	9989.7	9973.7	9896.3	9910.9	9884.3
5°	10312.6	10255.2	10027.0	9820.2	9576.0	9357.2	9119.7	9010.3	8852.9	8842.2	8802.2
7.5°	10015.0	9908.3	9554.7	9162.4	8770.1	8396.5	8027.0	7784.1	7535.9	7430.5	7421.2
10°	9680.1	9498.7	8978.3	8397.9	7832.2	7286.4	6758.1	6367.1	6014.9	5848.1	5841.4
12.5°	9362.6	9094.4	8380.5	7590.7	6816.8	6109.6	5385.1	4871.4	4429.8	4281.7	4219.0
15°	9093.0	8715.4	7798.8	6788.8	5849.4	4867.4	4042.8	3502.5	3094.2	2952.7	2926.0
17.5°	8831.5	8345.8	7202.4	5978.9	4843.4	3764.0	2938.1	2536.4	2319.0	2261.6	2260.3
20°	8571.3	7965.6	6579.3	5150.3	3870.7	2815.3	2258.9	2078.8	2005.4	1998.7	1988.1
22.5°	8276.5	7562.6	5924.2	4319.0	3020.8	2213.6	1920.0	1848.0	1838.6	1862.6	1862.6
25°	8000.3	7162.4	5259.7	3505.1	2349.6	1846.6	1714.5	1699.9	1725.2	1767.9	1771.9
27.5°	7742.8	6776.7	4611.2	2781.9	1882.7	1626.5	1571.8	1589.1	1634.5	1683.8	1685.2
30°	7530.6	6412.5	3981.5	2192.2	1590.4	1462.4	1453.0	1487.7	1537.1	1575.8	1585.1
32.5°	7366.5	6101.6	3373.0	1762.6	1399.6	1339.6	1347.6	1377.0	1407.7	1429.0	1443.7
35°	7290.4	5834.8	2811.3	1486.4	1278.2	1244.9	1255.5	1271.6	1284.9	1300.9	1312.9
37.5°	7303.8	5627.9	2309.6	1314.3	1196.8	1179.5	1179.5	1179.5	1179.5	1187.5	1188.8
40°	7427.9	5509.2	1901.3	1204.8	1142.1	1123.5	1108.8	1095.4	1084.8	1090.1	1087.4
42.5°	7745.4	5498.5	1602.5	1135.5	1098.1	1067.4	1038.1	1019.4	1006.0	1011.4	1014.0
45°	8284.5	5631.9	1401.0	1086.1	1056.7	1010.0	972.7	952.7	943.3	960.7	963.3
47.5°	8982.3	5922.8	1278.2	1050.1	1018.0	956.7	916.6	898.0	900.6	926.0	932.7
50°	9881.6	6395.1	1219.5	1027.4	991.4	911.3	869.9	853.9	861.9	898.0	906.0
52.5°	10868.9	7075.6	1226.2	1020.7	974.0	877.9	833.9	815.2	828.6	861.9	868.6
55°	12008.4	7893.5	1336.9	1030.1	948.7	856.6	804.6	772.5	783.2	813.9	819.2
57.5°	13274.6	8830.2	1559.8	1027.4	916.6	836.6	773.9	725.8	733.8	752.5	757.9
60°	14592.9	9961.6	1905.3	1035.4	902.0	812.6	732.5	672.5	669.8	685.8	688.5
62.5°	16175.3	11270.6	2300.3	1040.7	911.3	781.9	677.8	619.1	611.1	615.1	617.8
65°	17805.8	12217.9	2152.2	1019.4	940.7	756.5	629.8	567.1	552.4	549.7	551.1
67.5°	17856.5	11202.5	1509.1	976.7	952.7	743.2	593.7	523.0	499.0	489.7	488.3
70°	16013.9	9101.0	1175.5	931.3	904.6	721.8	560.4	487.0	451.0	436.3	435.0
71°	15114.6	8377.9	1114.1	908.6	868.6	700.5	545.7	471.0	433.6	417.6	415.0
72.5°	13704.3	7510.6	1039.4	872.6	799.2	645.8	517.7	448.3	409.6	390.9	386.9
75°	9834.9	4911.4	892.6	777.9	661.8	515.0	453.7	402.9	369.6	346.9	344.2
77.5°	3789.3	1954.7	675.1	647.1	507.0	402.9	373.6	348.2	324.2	301.5	300.2
80°	1171.5	873.9	492.3	487.0	366.9	300.2	290.9	284.2	274.9	250.8	245.5
82.5°	625.8	501.7	338.9	314.9	240.2	200.1	210.8	213.5	214.8	189.5	186.8
85°	298.9	265.5	190.8	178.8	140.1	112.1	129.4	140.1	141.4	116.1	108.1
87.5°	142.8	138.8	89.4	68.0	52.0	37.4	45.4	56.0	61.4	44.0	38.7
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)