

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: P323453

Luminaire Tested: **GAN-SA9C-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45177 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

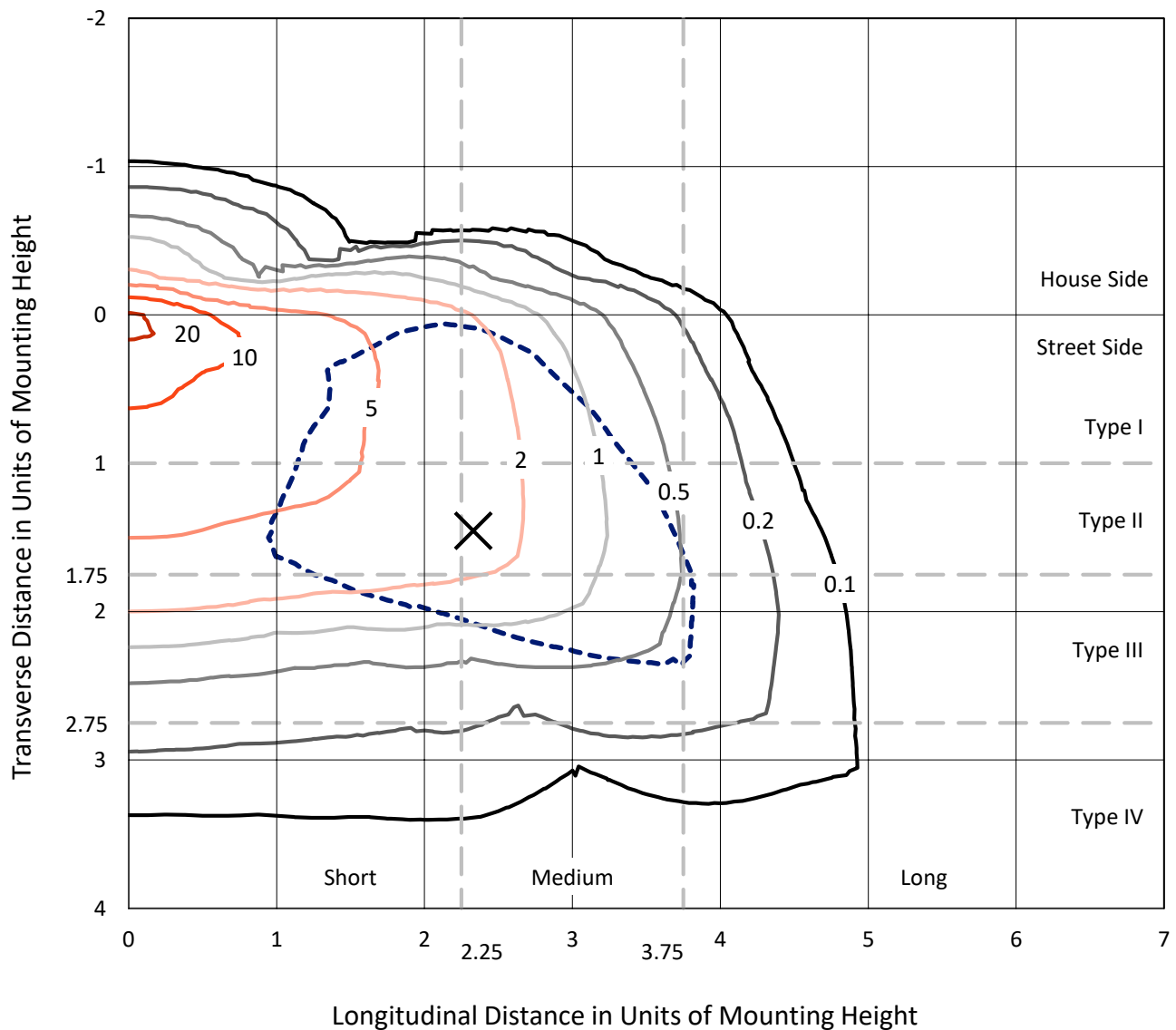


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Iso-Footcandle Lines of Horizontal Illumination

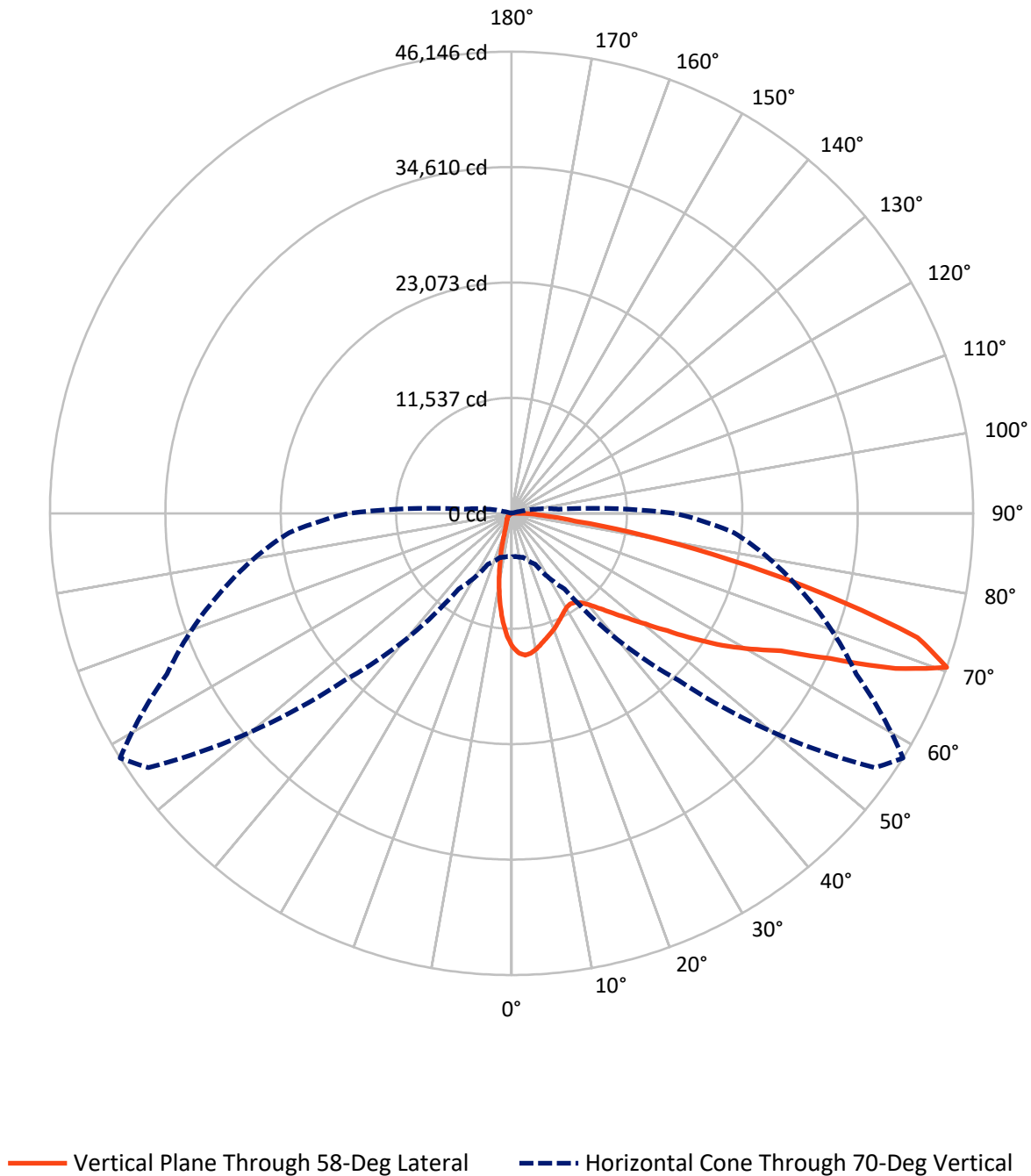
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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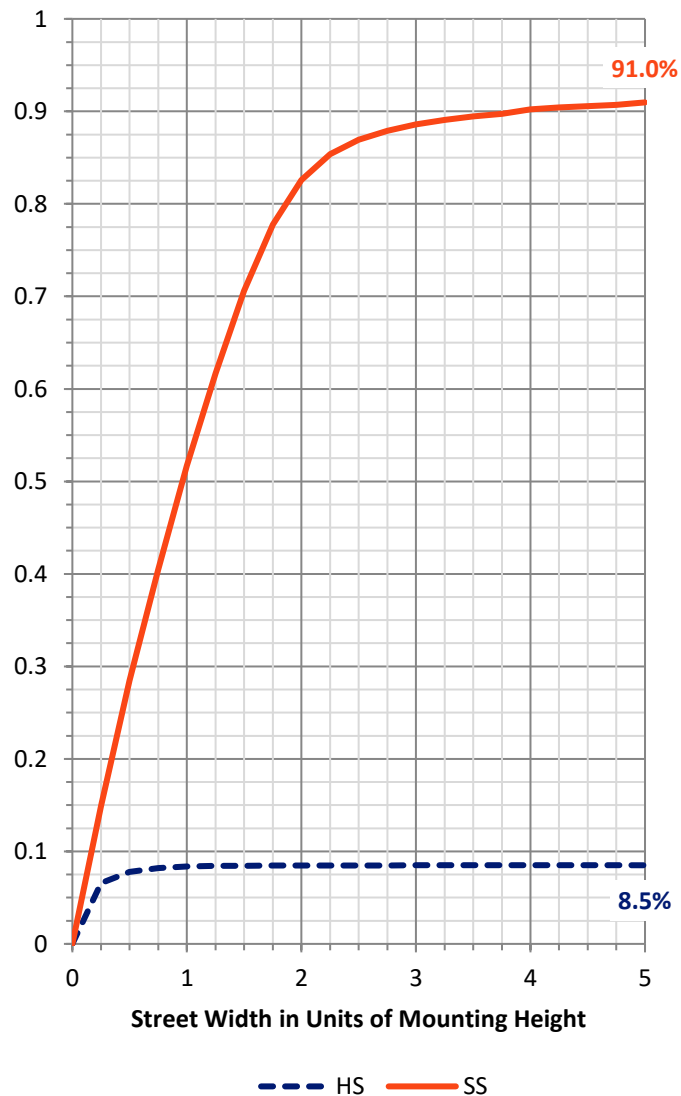
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3866.2	0.0	3866.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	41310.8	0.0	41310.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	45177.0	0.0	45177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.3	2.4
10°-20°	2290.4	5.1
20°-30°	3011.0	6.7
30°-40°	3987.8	8.8
40°-50°	5960.5	13.2
50°-60°	9548.4	21.1
60°-70°	12035.7	26.6
70°-80°	6492.0	14.4
80°-90°	759.9	1.7
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°	45177.0	100.0
0°-180°	45177.0	100.0

Coefficient of Utilization



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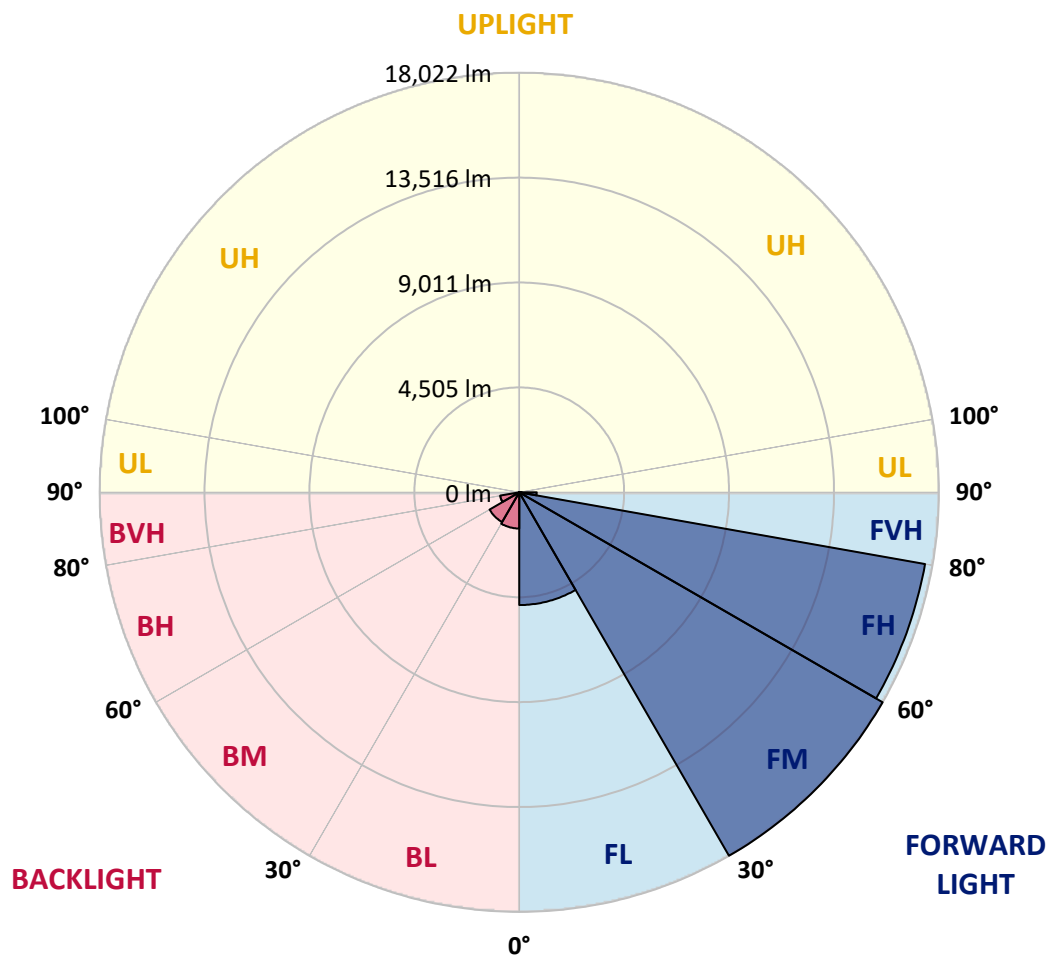
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4839.4	10.7			
FM	(30°-60°)	18021.8	39.9			
FH	(60°-80°)	17696.3	39.2			G5
FVH	(80°-90°)	753.3	1.7			G5
BL	(0°-30°)	1553.3	3.4	B3/2500		
BM	(30°-60°)	1474.9	3.3	B2/2500		
BH	(60°-80°)	831.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.6	0.0			G0/10
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°	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1
2.5°	14451.5	14415.8	14402.7	14380.1	14293.7	14209.2	14042.0	13995.0	13889.8	13640.0	13375.1
5°	14462.8	14460.9	14500.4	14491.0	14460.9	14421.5	14301.2	14239.3	14060.8	13703.9	13219.2
7.5°	13765.9	13801.6	13889.8	13961.2	14043.9	14151.0	14166.0	14105.9	13959.4	13574.3	12931.8
10°	12830.4	12886.7	13010.7	13151.6	13367.6	13581.8	13773.4	13765.9	13715.1	13335.7	12586.1
12.5°	11893.0	11958.7	12101.5	12310.0	12616.2	12965.6	13307.5	13354.5	13439.0	13121.5	12266.8
15°	11072.1	11128.4	11269.3	11524.8	11904.2	12373.9	12875.4	12961.9	13179.8	12954.3	12000.0
17.5°	10375.1	10410.8	10514.1	10797.8	11237.4	11806.6	12458.4	12627.5	12952.5	12822.8	11769.0
20°	9888.6	9894.2	9961.8	10161.0	10600.5	11237.4	12026.3	12268.7	12712.0	12710.1	11530.4
22.5°	9648.1	9629.3	9642.5	9757.1	10080.2	10694.5	11594.3	11881.7	12496.0	12614.3	11288.1
25°	9603.0	9588.0	9550.4	9565.5	9760.8	10219.2	11158.5	11491.0	12306.2	12556.1	11077.7
27.5°	9743.9	9759.0	9695.1	9627.5	9642.5	9911.1	10771.5	11156.6	12152.2	12556.1	10929.3
30°	10027.6	10035.1	9988.1	9899.8	9781.5	9824.7	10502.9	10888.0	12075.2	12642.5	10835.4
32.5°	10341.3	10382.6	10377.0	10305.6	10136.5	9961.8	10439.0	10790.3	12069.6	12834.1	10826.0
35°	10730.2	10777.1	10856.0	10841.0	10664.4	10377.0	10656.9	10933.0	12180.4	13149.7	10927.4
37.5°	11143.4	11214.8	11383.9	11464.7	11350.1	11025.1	11145.3	11342.6	12477.2	13660.7	11184.8
40°	11543.6	11624.3	11932.4	12249.9	12163.5	11829.1	11885.5	12043.3	13005.1	14395.2	11673.2
42.5°	11936.2	12056.4	12509.1	13031.4	13134.7	12867.9	12898.0	13023.8	13788.4	15405.8	12471.6
45°	12405.8	12541.1	13211.7	13856.0	14132.2	14015.7	14143.4	14226.1	14812.2	16741.5	13548.0
47.5°	13095.2	13251.1	14073.9	14808.4	15293.1	15368.2	15625.6	15680.1	16106.5	18296.9	14951.2
50°	14440.3	14483.5	15227.4	15894.2	16593.0	17043.9	17336.9	17378.3	17673.2	19996.9	16703.9
52.5°	16132.8	16161.0	16581.8	17028.9	17823.5	18744.0	19429.6	19487.9	19549.9	21653.8	18434.0
55°	17814.1	17810.3	18088.4	18351.4	19260.6	20598.1	22085.9	22121.6	21676.3	23226.1	19756.5
57.5°	18864.2	18965.6	19388.3	19726.4	20996.3	22711.4	24775.9	24907.4	23909.9	24390.8	21063.9
60°	18529.8	18578.7	19516.0	20767.1	23158.5	25715.2	27497.9	27531.7	25589.3	25553.6	22717.1
62.5°	15787.2	15813.5	17286.2	19865.4	24253.7	29611.3	30781.6	30231.2	27520.5	27167.3	24695.1
65°	10820.3	10991.3	12221.7	15409.6	22241.8	32055.2	35864.9	34953.8	30464.1	29492.9	26483.5
67.5°	6372.0	6336.3	6944.9	9293.1	16335.7	30432.2	42295.1	41389.6	34478.5	31050.2	25959.4
70°	4352.6	4328.1	4561.1	5626.2	9221.7	23607.5	44318.3	46146.1	38023.3	30002.0	22341.3
72.5°	3107.1	3120.2	3464.0	4371.3	5789.6	13754.6	38111.6	42437.9	36913.1	26154.8	16981.9
75°	2109.6	2145.3	2637.5	3586.1	5075.8	6997.5	27045.2	32260.0	30058.3	19008.8	9760.8
77.5°	1134.6	1174.1	1754.5	2889.2	4589.2	4861.6	17397.1	22202.3	18881.1	8545.4	2829.1
80°	473.4	495.9	820.9	2100.2	3965.6	4269.9	10236.1	13463.4	8045.7	1685.0	631.2
82.5°	204.8	216.0	341.9	1253.0	2964.3	3604.9	5419.6	6477.2	2438.3	370.1	317.5
85°	39.4	41.3	140.9	663.1	1891.7	2034.4	3512.8	3443.3	1095.2	159.7	231.1
87.5°	0.0	0.0	33.8	208.5	556.0	1108.3	2143.4	2117.1	371.9	77.0	86.4
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°	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1	13345.1
2.5°	13239.9	13110.3	12837.9	12501.6	12244.3	11960.6	11735.2	11449.6	11325.7	11331.3	11263.7
5°	12943.1	12676.3	12073.3	11312.5	10726.4	10121.5	9601.2	9082.7	8776.5	8676.9	8583.0
7.5°	12518.5	12095.9	11134.0	9961.8	8970.0	8000.7	7157.2	6415.2	5945.5	5716.4	5631.8
10°	12039.5	11445.9	10053.9	8509.7	7093.3	5782.1	4688.8	3738.3	3358.8	3101.5	3035.7
12.5°	11618.7	10814.7	8998.2	7020.1	5338.8	3757.1	2714.5	2122.7	1865.4	1763.9	1747.0
15°	11222.3	10224.8	7981.9	5671.3	3696.9	2312.5	1726.4	1525.4	1465.3	1448.3	1448.3
17.5°	10848.5	9663.2	6988.1	4343.2	2445.8	1621.2	1429.6	1384.5	1365.7	1363.8	1365.7
20°	10457.8	9101.5	6011.3	3182.2	1707.6	1373.2	1320.6	1296.2	1290.5	1290.5	1290.5
22.5°	10083.9	8539.8	5060.8	2273.0	1369.4	1253.0	1226.7	1209.8	1204.1	1202.3	1198.5
25°	9725.1	8006.3	4132.8	1606.1	1202.3	1147.8	1125.2	1102.7	1085.8	1076.4	1070.8
27.5°	9430.2	7531.0	3268.6	1288.7	1085.8	1038.8	1010.6	976.8	935.5	916.7	909.2
30°	9195.4	7097.1	2519.1	1087.7	976.8	929.9	886.7	828.4	768.3	736.4	734.5
32.5°	9011.3	6670.7	1912.3	961.8	879.2	820.9	758.9	685.7	616.2	580.5	578.6
35°	8921.1	6295.0	1461.5	869.8	792.7	719.5	642.5	561.7	494.1	460.2	456.5
37.5°	8981.2	5977.5	1140.3	792.7	719.5	634.9	544.8	460.2	400.1	370.1	368.2
40°	9201.0	5774.6	926.1	727.0	657.5	554.2	456.5	377.6	326.9	302.4	300.6
42.5°	9668.8	5699.5	790.9	672.5	597.4	479.0	379.5	311.8	264.9	248.0	244.2
45°	10450.3	5810.3	698.8	619.9	535.4	407.6	313.7	255.5	214.2	201.0	199.1
47.5°	11491.0	6101.5	633.1	569.2	479.0	343.8	261.1	206.6	174.7	161.6	159.7
50°	12832.2	6563.6	578.6	518.5	426.4	291.2	216.0	163.4	135.3	125.9	125.9
52.5°	14291.9	7114.0	529.7	471.5	373.8	242.3	174.7	125.9	107.1	95.8	95.8
55°	15497.9	7594.9	477.1	435.8	310.0	201.0	133.4	95.8	78.9	73.3	73.3
57.5°	16702.0	8107.7	417.0	373.8	248.0	163.4	101.4	71.4	58.2	54.5	54.5
60°	18263.1	8735.2	358.8	304.3	195.4	124.0	75.1	50.7	43.2	41.3	41.3
62.5°	19980.0	9103.4	306.2	244.2	152.2	92.0	54.5	33.8	31.9	31.9	30.1
65°	21030.1	8583.0	257.4	195.4	118.3	69.5	35.7	24.4	28.2	26.3	22.5
67.5°	19690.7	6719.5	210.4	152.2	92.0	52.6	22.5	16.9	30.1	24.4	18.8
70°	16303.8	4703.8	163.4	107.1	73.3	45.1	15.0	11.3	31.9	24.4	15.0
72.5°	12201.0	3148.4	129.6	71.4	54.5	39.4	13.1	5.6	28.2	20.7	13.1
75°	6666.9	1268.0	103.3	45.1	33.8	28.2	9.4	3.8	18.8	15.0	9.4
77.5°	1754.5	334.4	75.1	30.1	18.8	11.3	5.6	1.9	9.4	7.5	3.8
80°	447.1	129.6	48.8	20.7	13.1	5.6	0.0	0.0	1.9	0.0	0.0
82.5°	238.6	54.5	30.1	15.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	180.3	35.7	16.9	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	69.5	11.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)