

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: P321850

Luminaire Tested: **GAN-SA6C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25168 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 333
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

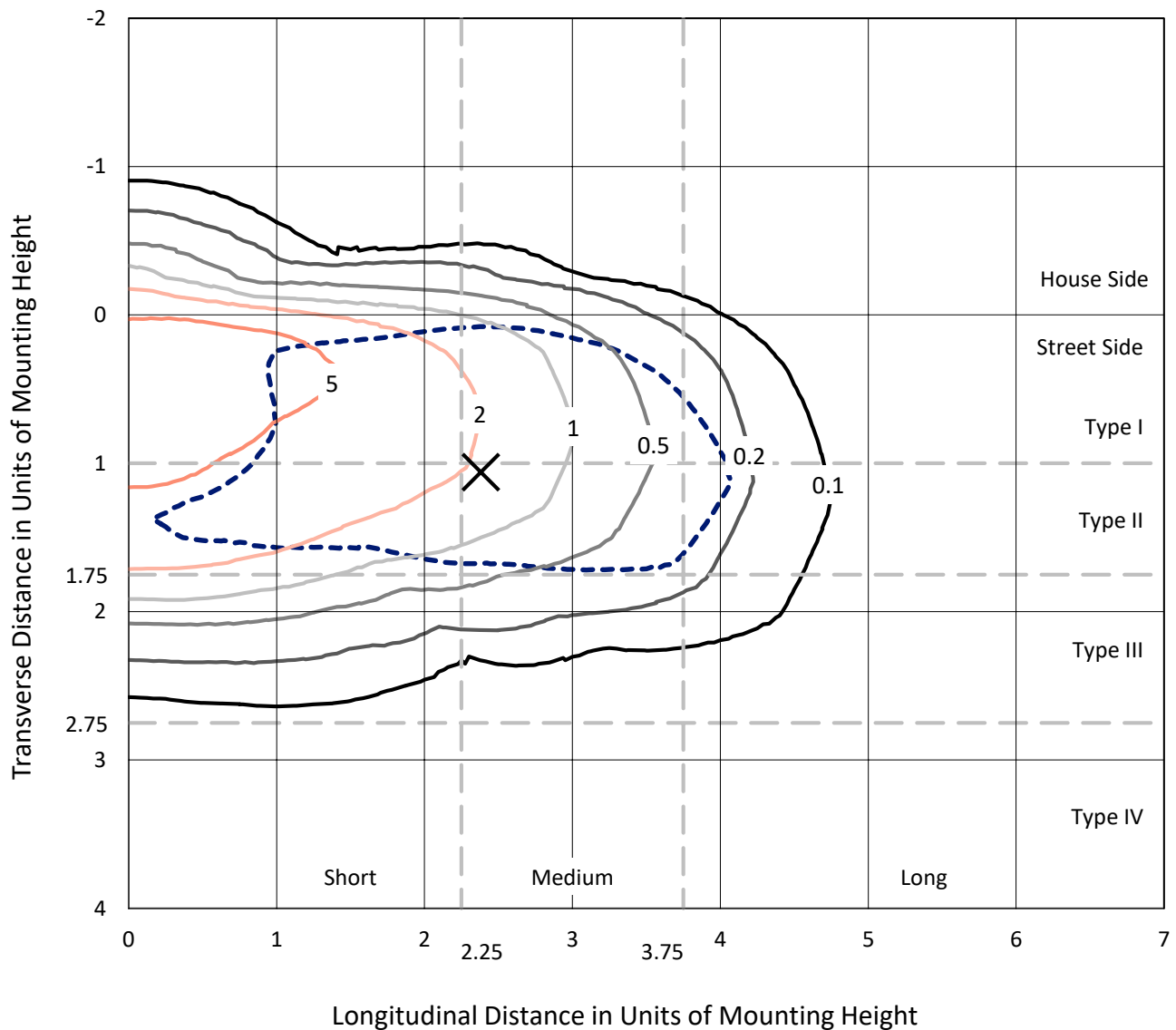


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Iso-Footcandle Lines of Horizontal Illumination

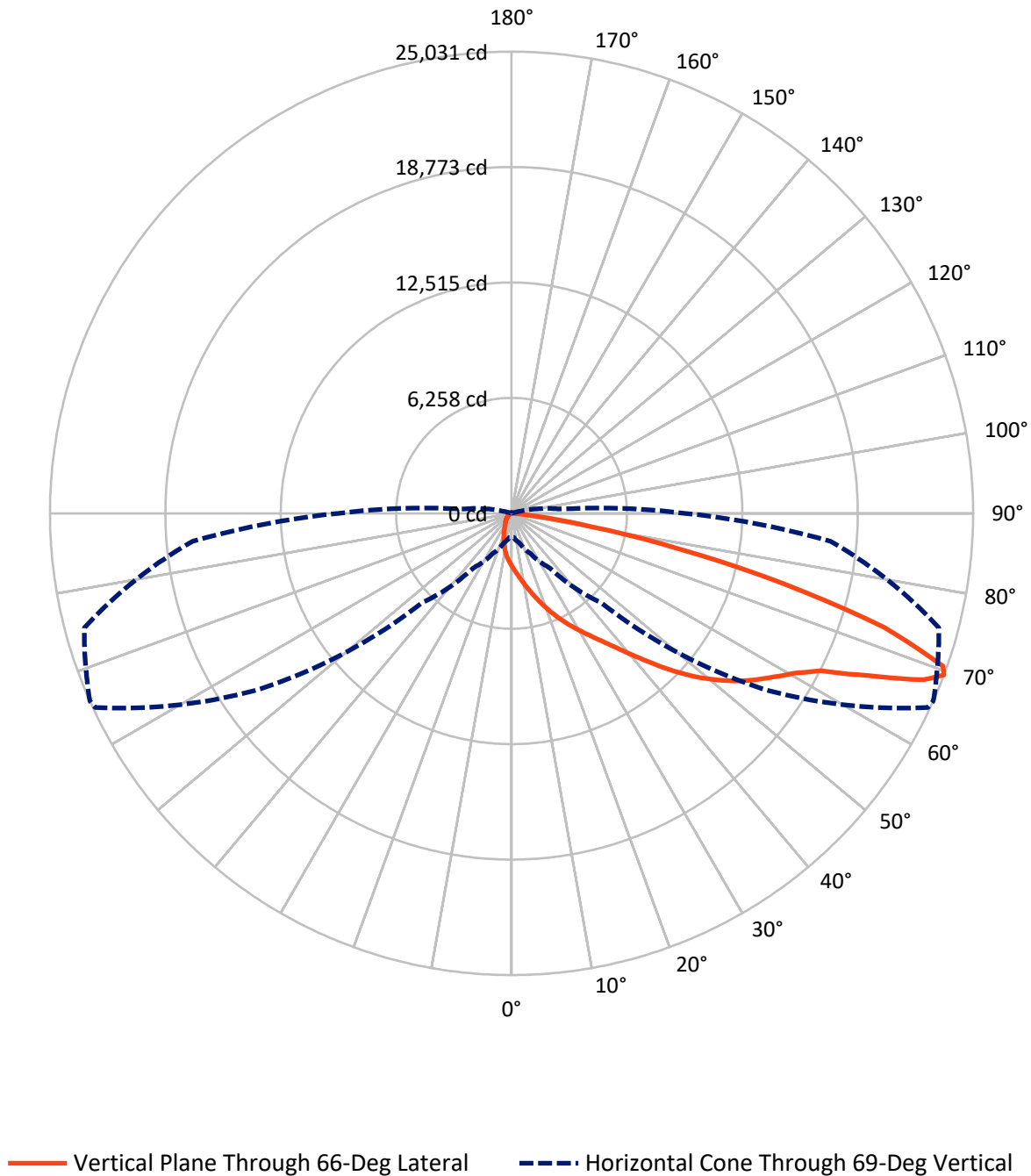
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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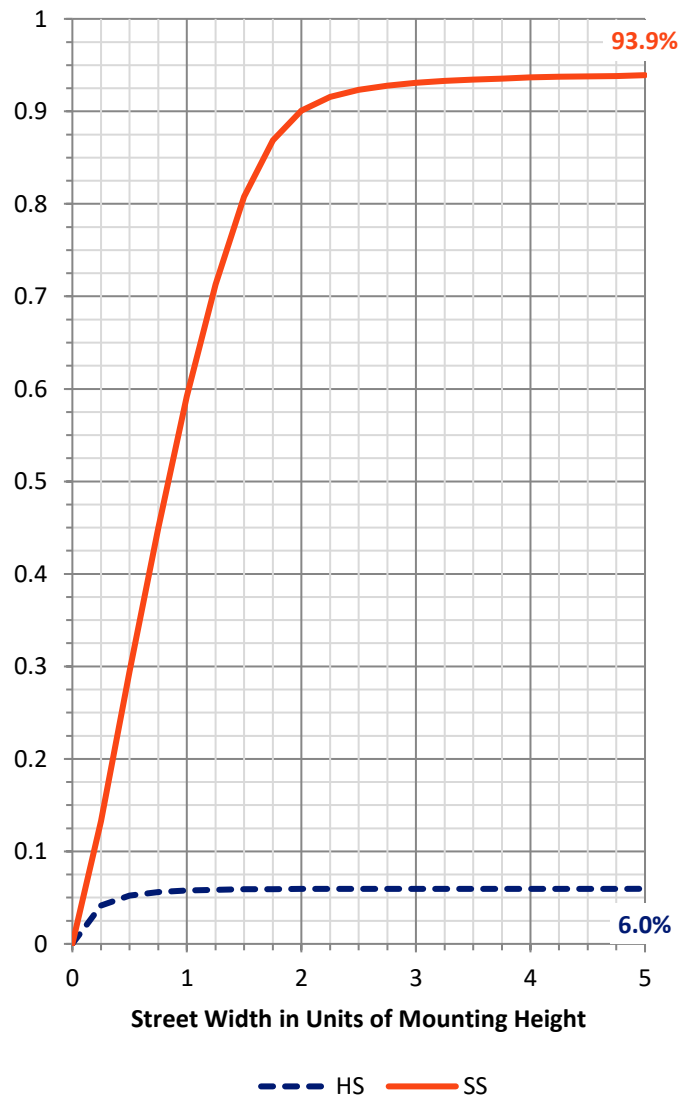
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.7	0.0	1509.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	23658.3	0.0	23658.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	25168.0	0.0	25168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	1.1
10°-20°	824.0	3.3
20°-30°	1434.9	5.7
30°-40°	2517.5	10.0
40°-50°	4213.9	16.7
50°-60°	6194.0	24.6
60°-70°	6359.7	25.3
70°-80°	3139.6	12.5
80°-90°	207.6	0.8
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°	25168.0	100.0
0°-180°	25168.0	100.0

Coefficient of Utilization



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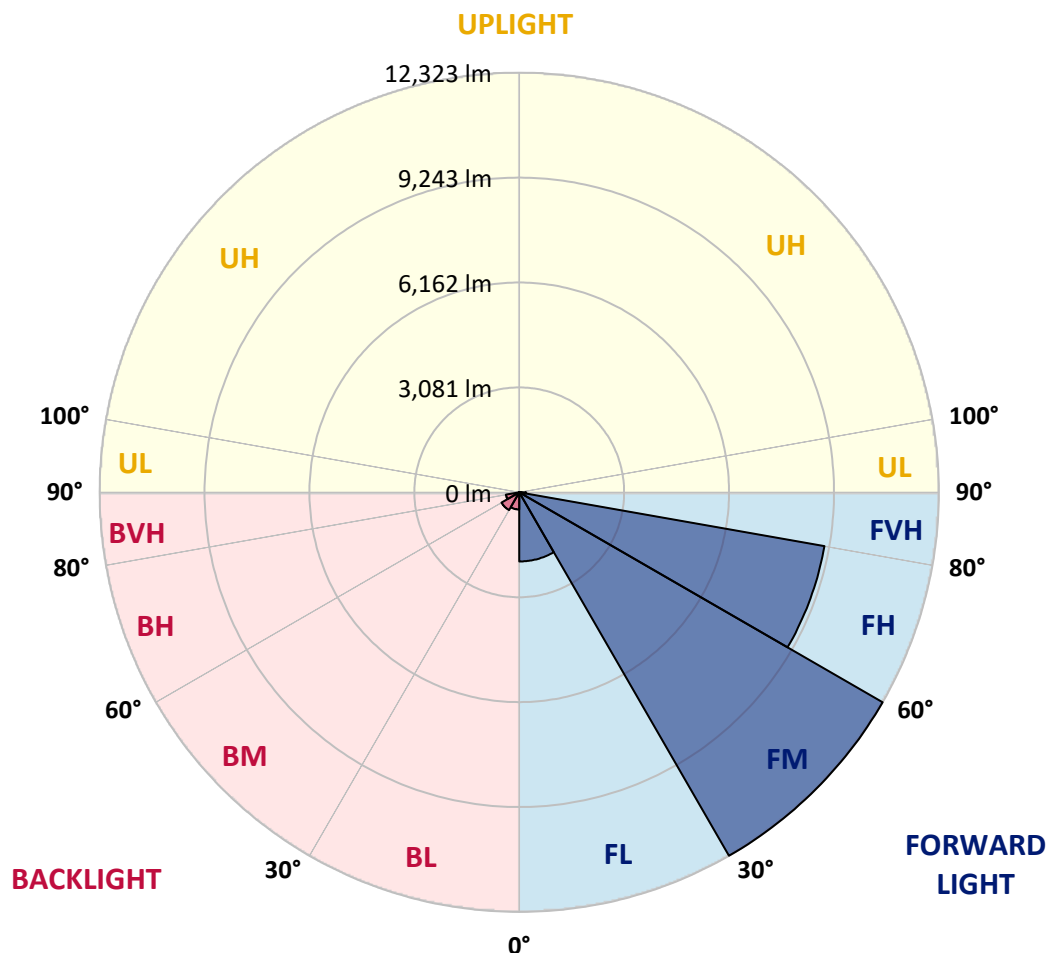
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2030.8	8.1			
FM	(30°-60°)	12323.5	49.0			
FH	(60°-80°)	9101.4	36.2			G4/12000
FVH	(80°-90°)	202.6	0.8			G2/225
BL	(0°-30°)	504.9	2.0	B2/1000		
BM	(30°-60°)	601.9	2.4	B1/1000		
BH	(60°-80°)	397.9	1.6	B1/500		G1/500
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2
2.5°	3371.1	3356.7	3350.7	3324.4	3279.0	3244.3	3177.4	3099.7	3085.3	3010.0	2918.0
5°	3808.6	3796.6	3788.3	3751.2	3704.6	3617.3	3495.4	3350.7	3323.2	3179.8	2995.7
7.5°	4113.4	4134.9	4134.9	4111.0	4052.4	3986.7	3837.3	3640.0	3605.4	3385.4	3099.7
10°	4291.5	4317.8	4338.1	4358.5	4350.1	4323.8	4182.7	3960.4	3918.5	3626.9	3220.4
12.5°	4308.3	4334.6	4391.9	4476.8	4559.3	4619.1	4530.6	4315.4	4267.6	3906.6	3363.9
15°	4215.0	4242.5	4331.0	4495.9	4695.6	4870.1	4898.8	4708.7	4659.7	4240.1	3543.2
17.5°	4052.4	4070.4	4197.1	4425.4	4738.6	5059.0	5232.3	5130.7	5085.3	4621.4	3742.8
20°	3931.7	3944.8	4056.0	4301.1	4712.3	5177.3	5547.9	5579.0	5531.2	5030.3	3959.2
22.5°	4138.5	4162.4	4166.0	4282.0	4640.6	5235.9	5825.2	6020.1	5984.2	5464.2	4172.0
25°	4703.9	4731.4	4640.6	4568.9	4701.5	5262.2	6063.1	6471.9	6443.3	5931.6	4386.0
27.5°	5451.1	5479.8	5362.6	5148.6	5020.7	5361.4	6274.7	6931.0	6929.8	6426.5	4616.7
30°	6185.0	6213.7	6094.2	5880.2	5586.1	5642.3	6457.6	7411.5	7418.7	6937.0	4861.7
32.5°	6954.9	6990.7	6867.6	6592.7	6285.5	6127.7	6714.6	7894.5	7935.1	7528.7	5137.9
35°	7829.9	7834.7	7661.4	7373.3	7019.4	6776.8	7127.0	8436.0	8532.8	8261.5	5488.1
37.5°	8688.2	8722.9	8580.6	8126.4	7801.2	7526.3	7740.3	9112.6	9250.1	9156.8	5946.0
40°	9324.2	9397.1	9376.8	8886.7	8578.3	8382.2	8501.7	9917.1	10091.6	10199.2	6523.3
42.5°	9723.5	9778.4	9871.7	9576.4	9296.7	9329.0	9400.7	10854.3	11069.5	11387.5	7186.8
45°	10181.3	10207.6	10285.3	10155.0	9966.1	10291.3	10354.6	11909.9	12135.8	12665.4	7923.2
47.5°	10740.7	10802.9	10824.4	10704.9	10618.8	11142.4	11273.9	12869.8	13186.6	14034.1	8702.6
50°	11453.2	11469.9	11507.0	11429.3	11343.2	11874.0	12098.7	13877.5	14165.6	15407.6	9471.2
52.5°	12150.1	12209.9	12339.0	12290.0	12255.3	12496.8	12833.9	14786.0	15107.6	16552.8	10238.7
55°	12351.0	12402.4	12848.3	13153.1	13435.2	13264.3	13536.8	15600.1	15947.9	17576.1	10977.4
57.5°	11548.8	11652.8	12425.1	13218.8	14389.1	14457.3	14502.7	16435.7	16747.7	18360.3	11746.1
60°	9521.4	9541.8	10808.9	12170.5	14231.3	15498.5	15913.3	17333.4	17595.2	19090.7	12666.6
62.5°	6055.9	6262.7	7653.0	9575.2	12562.5	15347.9	17619.1	18691.4	18787.0	19966.9	13986.3
65°	2884.5	3018.4	4020.2	5916.1	9099.5	13419.7	18796.6	21148.0	21191.0	21703.8	15749.5
67.5°	1597.1	1661.6	2138.6	3184.6	5319.6	9490.3	18320.8	24057.6	24098.2	23477.8	17296.4
69°	1249.2	1304.2	1679.5	2400.4	3606.5	6821.0	16579.1	24909.9	25030.7	23985.9	17351.4
70°	1060.3	1114.1	1446.4	2027.4	2900.1	5270.6	14757.3	24698.3	24826.2	23938.1	16941.3
72.5°	649.1	680.2	963.5	1427.3	1943.7	2651.4	9100.6	20887.4	21103.7	21958.5	14560.1
75°	437.5	454.3	602.5	985.0	1390.3	1365.2	4727.8	14722.7	15191.3	17081.2	10753.9
77.5°	313.2	328.7	404.0	637.2	974.3	901.3	2141.0	9149.7	9250.1	10244.7	5864.7
80°	178.1	192.5	285.7	378.9	661.1	601.3	851.1	4370.4	4420.6	4393.1	1958.1
82.5°	93.2	105.2	156.6	249.8	424.4	393.3	353.8	1463.2	1470.4	1222.9	429.2
85°	17.9	21.5	77.7	170.9	218.8	170.9	144.6	343.1	350.3	309.6	106.4
87.5°	0.0	1.2	31.1	38.3	43.0	44.2	46.6	66.9	71.7	96.8	28.7
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°	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2	2864.2
2.5°	2877.3	2834.3	2751.8	2656.2	2582.1	2509.2	2451.8	2392.0	2370.5	2359.7	2358.5
5°	2906.0	2815.2	2640.7	2461.3	2314.3	2175.6	2076.4	1982.0	1937.8	1917.4	1909.1
7.5°	2953.9	2808.0	2527.1	2253.3	2041.8	1868.4	1731.0	1628.1	1576.7	1555.2	1546.9
10°	3010.0	2798.5	2394.4	2033.4	1763.2	1583.9	1447.6	1346.0	1289.8	1265.9	1254.0
12.5°	3075.8	2781.7	2241.4	1811.0	1525.3	1346.0	1181.1	1055.5	991.0	963.5	950.3
15°	3157.1	2765.0	2081.2	1601.8	1316.1	1097.4	916.9	832.0	818.9	814.1	815.3
17.5°	3237.2	2738.7	1906.7	1395.0	1096.2	857.1	765.1	760.3	762.7	762.7	762.7
20°	3308.9	2678.9	1716.6	1218.1	887.0	723.2	704.1	695.7	689.8	685.0	679.0
22.5°	3365.1	2598.8	1533.7	1042.4	724.4	662.3	632.4	606.1	584.6	570.2	563.0
25°	3403.3	2492.4	1366.4	873.8	651.5	602.5	548.7	504.5	471.0	450.7	442.3
27.5°	3432.0	2377.7	1216.9	731.6	601.3	533.2	462.6	410.0	375.4	357.4	350.3
30°	3452.3	2247.4	1085.4	643.1	545.1	460.2	384.9	333.5	308.4	298.9	294.1
32.5°	3471.5	2102.7	961.1	601.3	492.5	393.3	322.8	283.3	267.8	255.8	252.2
35°	3519.3	1968.8	842.8	557.1	438.7	335.9	277.3	248.6	233.1	225.9	223.5
37.5°	3632.8	1869.6	729.2	511.6	384.9	290.5	242.7	222.3	208.0	200.8	198.4
40°	3815.7	1819.4	633.6	462.6	332.3	255.8	220.0	200.8	185.3	174.5	172.1
42.5°	4084.7	1826.6	566.6	413.6	290.5	228.3	198.4	175.7	159.0	149.4	147.0
45°	4411.1	1879.2	520.0	365.8	255.8	206.8	174.5	150.6	135.1	126.7	124.3
47.5°	4764.9	1964.1	481.7	322.8	228.3	186.5	150.6	125.5	112.4	105.2	104.0
50°	5137.9	2046.5	442.3	280.9	204.4	166.2	126.7	104.0	93.2	87.3	84.9
52.5°	5515.6	2142.2	406.4	242.7	184.1	142.3	105.2	84.9	76.5	71.7	69.3
55°	5922.1	2213.9	371.8	212.8	163.8	120.7	87.3	70.5	63.4	57.4	56.2
57.5°	6400.2	2325.1	335.9	184.1	139.9	100.4	71.7	56.2	50.2	44.2	43.0
60°	7045.7	2455.4	297.7	162.6	114.8	82.5	58.6	45.4	38.3	33.5	32.3
62.5°	7896.9	2600.0	249.8	142.3	93.2	66.9	46.6	35.9	27.5	21.5	21.5
65°	8976.3	2835.5	204.4	119.5	76.5	55.0	35.9	26.3	15.5	9.6	9.6
67.5°	9606.3	2876.2	165.0	98.0	62.2	46.6	29.9	17.9	4.8	1.2	0.0
69°	9404.3	2640.7	139.9	83.7	53.8	44.2	27.5	13.1	2.4	0.0	0.0
70°	9024.1	2414.7	123.1	74.1	49.0	41.8	26.3	9.6	2.4	0.0	0.0
72.5°	7457.0	1719.0	93.2	55.0	35.9	37.1	23.9	6.0	2.4	0.0	0.0
75°	5431.9	1044.8	66.9	38.3	22.7	27.5	16.7	2.4	1.2	0.0	0.0
77.5°	3022.0	492.5	41.8	21.5	14.3	16.7	8.4	0.0	0.0	0.0	0.0
80°	981.4	133.9	19.1	12.0	8.4	9.6	3.6	0.0	0.0	0.0	0.0
82.5°	181.7	38.3	10.8	6.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	39.4	15.5	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	4.8	1.2	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)