

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: P317692

Luminaire Tested: **GAN-SA8C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48471 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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

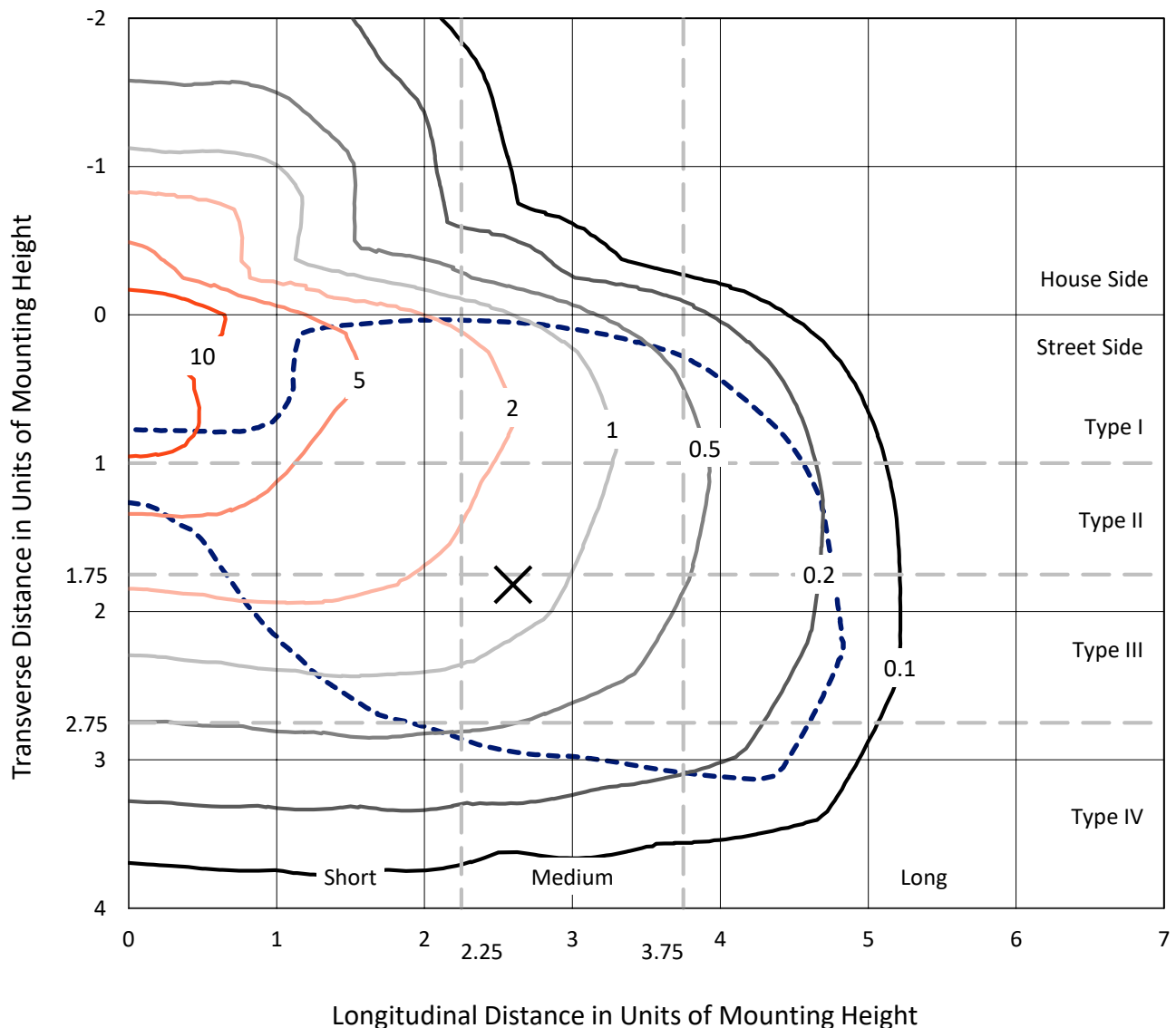


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Iso-Footcandle Lines of Horizontal Illumination

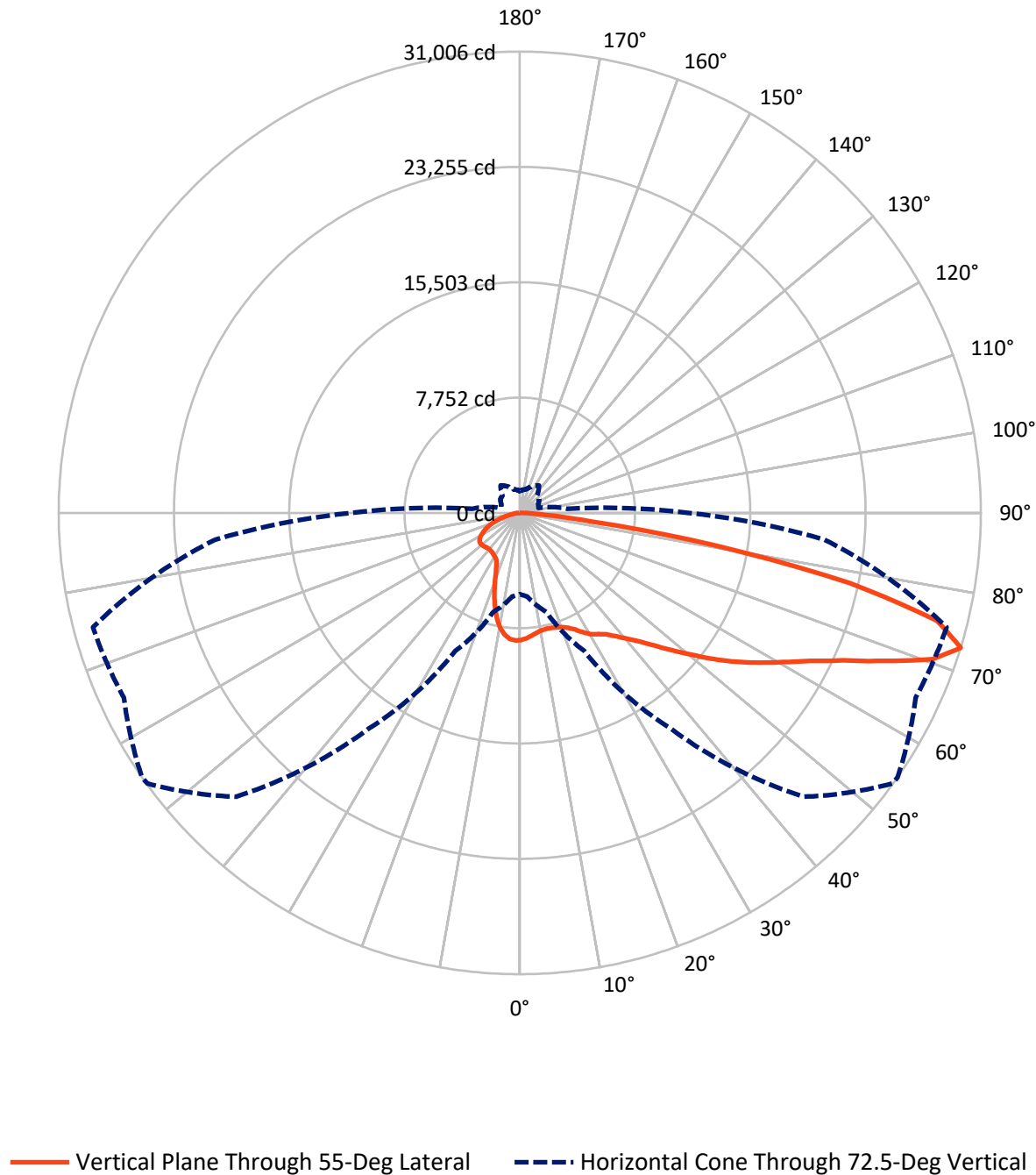
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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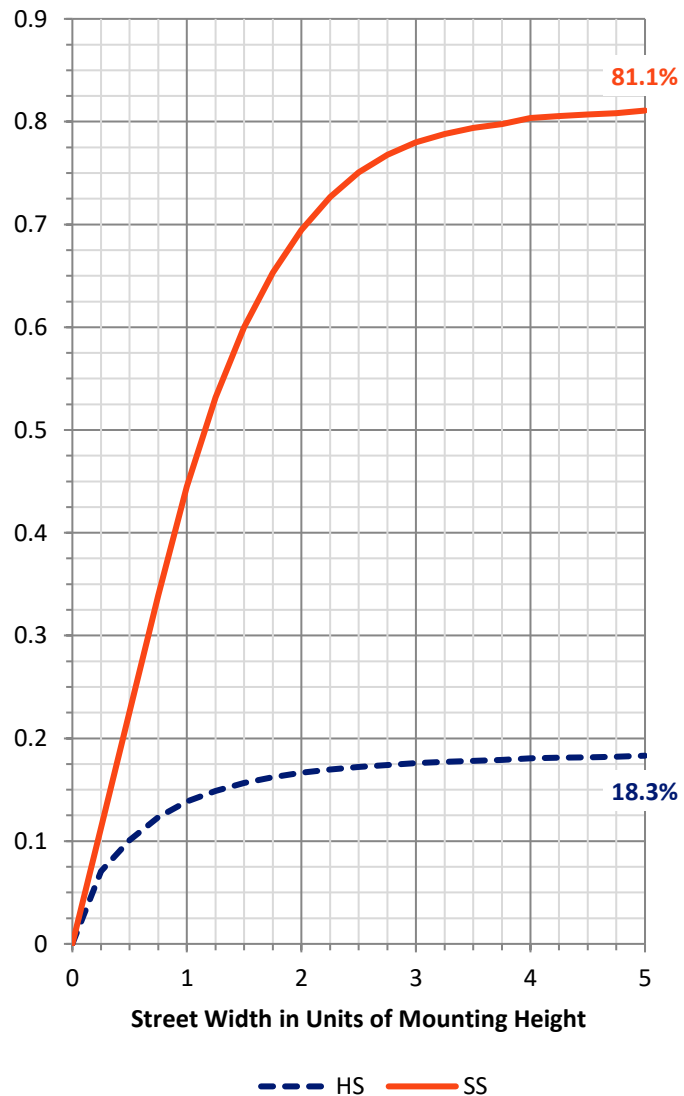
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9009.2	0.0	9009.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	39461.8	0.0	39461.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	48471.0	0.0	48471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.6	1.6
10°-20°	2059.6	4.2
20°-30°	3395.8	7.0
30°-40°	5023.3	10.4
40°-50°	7011.4	14.5
50°-60°	9129.1	18.8
60°-70°	11219.3	23.1
70°-80°	8794.6	18.1
80°-90°	1064.3	2.2
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°	48471.0	100.0
0°-180°	48471.0	100.0

Coefficient of Utilization



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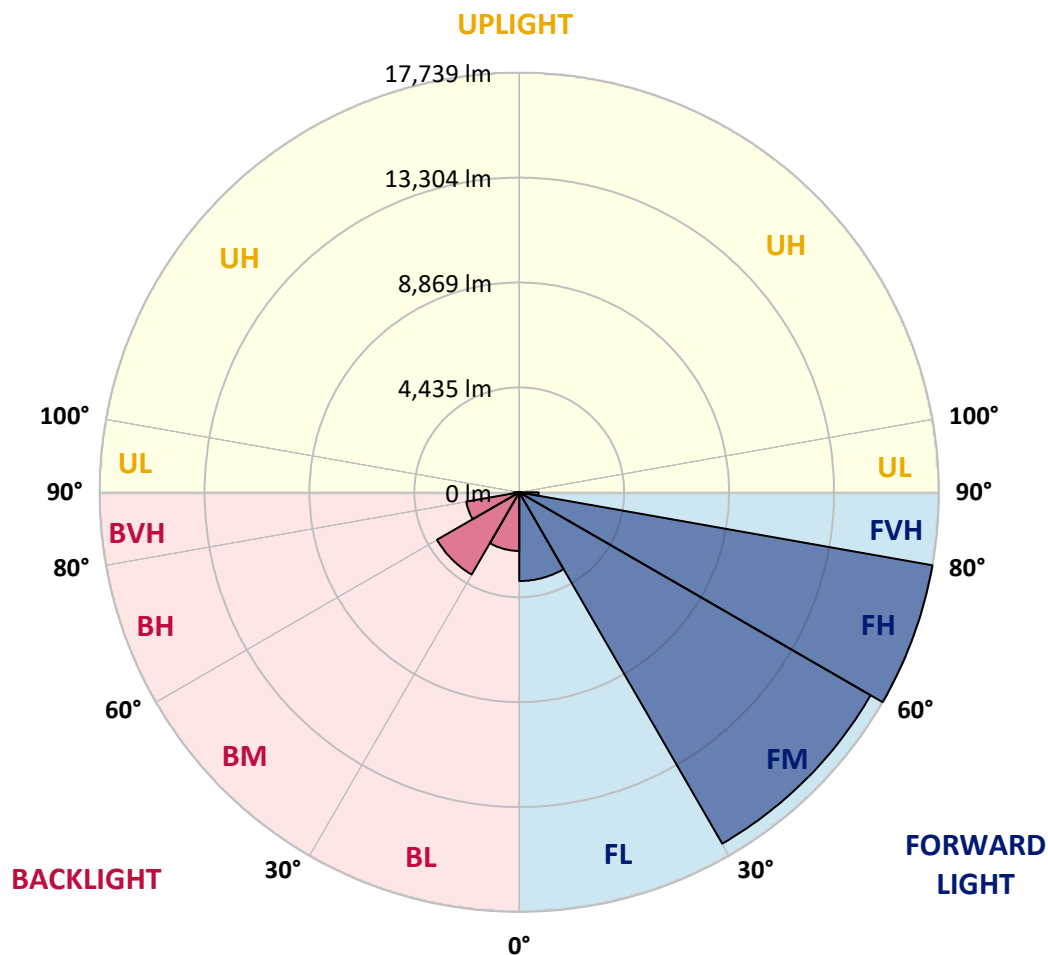
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3750.2	7.7			
FM	(30°-60°)	17150.0	35.4			
FH	(60°-80°)	17738.7	36.6			G5
FVH	(80°-90°)	822.8	1.7			G5
BL	(0°-30°)	2478.8	5.1	B3/2500		
BM	(30°-60°)	4013.7	8.3	B3/5000		
BH	(60°-80°)	2275.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	241.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2
2.5°	8270.9	8251.3	8275.8	8310.2	8347.9	8398.6	8428.1	8441.2	8491.9	8511.6	8554.2
5°	7887.8	7878.0	7918.9	7977.9	8061.4	8179.2	8274.2	8292.2	8426.5	8521.4	8608.2
7.5°	7609.5	7609.5	7657.0	7727.4	7820.7	7979.5	8113.8	8138.3	8365.9	8570.5	8731.0
10°	7388.5	7396.7	7452.3	7535.8	7645.5	7814.2	7992.6	8020.4	8349.5	8685.1	8940.5
12.5°	7241.2	7260.8	7311.5	7386.9	7522.7	7727.4	7953.3	7991.0	8383.9	8848.8	9192.6
15°	7334.5	7367.2	7372.1	7403.2	7478.5	7701.2	7976.2	8015.5	8457.6	9015.8	9479.1
17.5°	7743.8	7755.2	7704.5	7639.0	7603.0	7745.4	8045.0	8085.9	8546.0	9181.2	9754.2
20°	8365.9	8359.3	8249.6	8072.8	7889.5	7912.4	8158.0	8200.5	8665.5	9326.9	10029.2
22.5°	9151.7	9128.8	8960.2	8634.4	8321.7	8190.7	8356.1	8392.1	8845.6	9534.8	10323.9
25°	10104.5	10053.8	9831.1	9394.0	8934.0	8596.7	8654.0	8688.4	9107.5	9767.3	10594.1
27.5°	11109.8	11059.0	10775.8	10247.0	9634.7	9109.1	9064.9	9094.4	9405.5	9939.2	10793.8
30°	12160.8	12106.8	11848.1	11255.5	10377.9	9639.6	9448.0	9459.5	9615.0	10032.5	10957.5
32.5°	13216.8	13166.0	12876.3	12188.6	11185.1	10209.3	9724.7	9710.0	9741.1	10129.1	11142.5
35°	14287.5	14307.1	13968.2	13207.0	12079.0	10842.9	10052.2	10021.0	9952.3	10327.2	11404.4
37.5°	15433.5	15420.4	14981.6	14186.0	13013.8	11530.5	10522.0	10517.1	10279.7	10702.1	11815.4
40°	16199.7	16207.9	15941.0	15187.9	13958.4	12291.8	11124.5	11113.0	10802.0	11263.7	12354.0
42.5°	16499.3	16553.3	16622.1	16144.0	14947.3	13174.2	11843.2	11826.8	11530.5	12069.1	12987.6
45°	16520.6	16628.6	17054.3	16993.7	15949.2	14184.3	12761.7	12715.8	12503.0	13139.8	13743.9
47.5°	16337.2	16448.5	17155.8	17499.6	16844.7	15250.1	13835.6	13799.6	13616.2	14479.0	14562.5
50°	15936.1	16042.5	16946.2	17746.8	17581.4	16275.0	15073.3	14978.4	14880.1	16026.1	15499.0
52.5°	15184.6	15389.3	16666.3	17805.7	18021.8	17185.3	16374.9	16312.6	16366.7	17658.4	16437.1
55°	13405.1	13634.3	15944.3	17756.6	18347.6	17949.8	17676.4	17673.1	17953.1	19370.9	17443.9
57.5°	12408.0	12570.1	14474.1	17673.1	18734.0	18709.4	18964.8	18995.9	19541.1	21235.6	18498.3
60°	11844.8	12015.1	13729.2	17363.7	19333.2	19691.7	20279.5	20341.7	21155.4	23300.0	19767.1
62.5°	11332.4	11519.0	13267.5	16733.4	20038.8	21096.4	21854.4	21910.1	22864.6	25421.8	20993.3
65°	10456.5	10667.7	12591.4	16319.2	20680.6	22928.4	23856.7	23894.3	24827.5	27645.1	21931.4
67.5°	9218.8	9412.0	11316.0	15404.0	21155.4	25153.3	26518.7	26540.0	26774.1	29215.1	22411.1
70°	7773.2	7846.9	9498.8	13514.7	20593.8	27234.1	29436.1	29441.0	28548.8	30220.3	22332.5
72.5°	5461.6	5635.1	6895.7	10230.6	17697.7	26980.4	30950.5	31006.1	29373.9	29712.8	20548.0
75°	3349.6	3533.0	4325.4	6199.9	11227.6	21219.2	28596.2	28982.6	27826.8	26492.5	16785.8
77.5°	2239.6	2308.4	2822.5	3614.8	5086.7	12208.3	21985.4	22712.3	23116.7	19320.1	10734.8
80°	1249.2	1380.1	1871.3	2246.2	2262.6	4850.9	13182.4	13352.7	12861.5	7693.0	3312.0
82.5°	661.4	733.4	1249.2	1319.5	1234.4	1624.1	4913.1	4918.0	4109.3	2062.8	983.9
85°	512.4	573.0	856.2	805.5	630.3	720.3	1620.8	1709.2	1398.1	844.8	320.9
87.5°	255.4	317.6	581.2	510.8	247.2	206.3	579.6	618.8	551.7	330.7	116.2
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°	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2	8549.2
2.5°	8570.5	8585.3	8603.3	8583.6	8577.1	8550.9	8506.7	8496.9	8473.9	8475.6	8488.7
5°	8645.8	8670.4	8660.6	8585.3	8495.2	8369.2	8238.2	8126.9	8053.2	8048.3	8043.4
7.5°	8789.9	8806.3	8729.3	8514.9	8262.7	7971.3	7696.3	7455.6	7309.9	7273.9	7265.7
10°	9015.8	9012.6	8801.4	8369.2	7866.5	7345.9	6903.9	6569.9	6375.1	6317.8	6303.1
12.5°	9268.0	9230.3	8825.9	8103.9	7306.6	6584.7	6024.7	5653.1	5450.1	5384.6	5368.2
15°	9528.3	9434.9	8765.3	7707.7	6619.0	5764.4	5176.7	4832.9	4723.2	4687.2	4680.6
17.5°	9770.6	9590.5	8591.8	7170.8	5834.8	4947.5	4489.1	4351.6	4377.8	4425.2	4426.9
20°	10007.9	9695.3	8313.5	6493.0	5008.1	4274.6	4119.1	4220.6	4345.0	4441.6	4454.7
22.5°	10242.1	9768.9	7955.0	5710.4	4268.1	3896.4	4006.1	4191.1	4333.6	4438.3	4456.3
25°	10438.5	9786.9	7460.5	4875.5	3754.0	3754.0	3952.1	4127.3	4268.1	4371.2	4389.2
27.5°	10510.6	9665.8	6763.1	4102.7	3495.3	3688.5	3876.8	4022.5	4142.0	4251.7	4271.3
30°	10538.4	9441.5	5957.6	3482.2	3388.9	3618.1	3775.3	3899.7	4012.7	4115.8	4133.8
32.5°	10543.3	9171.4	5103.0	3130.2	3315.2	3544.4	3649.2	3758.9	3880.1	3921.0	3927.5
35°	10574.4	8852.1	4202.6	2950.2	3246.5	3475.7	3559.2	3637.8	3441.3	3456.0	3469.1
37.5°	10664.5	8536.1	3449.5	2848.7	3202.3	3439.7	3539.5	3254.7	3100.8	3064.8	3059.8
40°	10833.1	8198.9	2891.2	2766.8	3185.9	3457.7	3413.5	3038.6	2773.3	2575.3	2545.8
42.5°	11067.2	7835.4	2534.3	2712.8	3197.4	3544.4	3238.3	2830.6	2390.3	2262.6	2246.2
45°	11330.8	7454.0	2341.1	2675.1	3236.7	3611.6	3202.3	2554.0	2211.8	2115.2	2107.0
47.5°	11586.2	6987.4	2241.3	2658.7	3290.7	3557.5	3050.0	2468.8	2126.7	2075.9	2080.8
50°	11879.2	6566.6	2180.7	2640.7	3338.2	3523.2	2878.1	2424.6	2093.9	2156.1	2221.6
52.5°	12126.4	6131.2	2126.7	2604.7	3356.2	3462.6	2833.9	2432.8	2093.9	2213.4	2275.7
55°	12419.5	5802.1	2064.5	2529.4	3321.8	3290.7	2802.8	2481.9	2118.5	2043.2	2049.7
57.5°	12797.7	5694.0	1995.7	2411.5	3207.2	3040.2	2788.1	2529.4	2103.7	2056.3	2072.6
60°	13321.6	5808.6	1967.9	2257.6	3028.7	2843.7	2789.7	2504.9	2000.6	1918.7	1920.4
62.5°	13820.9	5936.3	1966.2	2161.0	2809.4	2668.6	2752.1	2424.6	1948.2	1900.7	1918.7
65°	13984.6	5807.0	1887.6	2053.0	2562.2	2459.0	2683.3	2339.5	1908.9	1836.9	1833.6
67.5°	13765.2	5405.9	1728.8	1877.8	2278.9	2215.1	2593.3	2238.0	1846.7	1787.8	1778.0
70°	13113.6	4510.4	1532.4	1647.0	1956.4	1940.0	2450.8	2120.1	1763.2	1712.5	1669.9
72.5°	11360.2	3213.7	1291.7	1370.3	1593.0	1645.3	2254.4	1966.2	1645.3	1535.7	1470.2
75°	9330.2	2378.8	1060.9	1077.3	1209.9	1352.3	1984.2	1786.1	1506.2	1319.5	1268.8
77.5°	5713.7	1455.4	844.8	851.3	867.7	1078.9	1633.9	1584.8	1329.4	1100.2	1064.2
80°	1850.0	794.0	610.7	641.8	592.7	790.7	1263.9	1349.0	1141.1	920.1	880.8
82.5°	704.0	463.3	412.6	433.8	410.9	530.4	921.7	1080.5	934.8	756.4	615.6
85°	340.5	261.9	243.9	273.4	253.8	271.8	589.4	795.7	708.9	492.8	458.4
87.5°	121.1	116.2	93.3	126.1	108.1	96.6	180.1	401.1	468.2	338.9	302.9
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)