

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: P318644

Luminaire Tested: **GAN-SA0B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47587 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

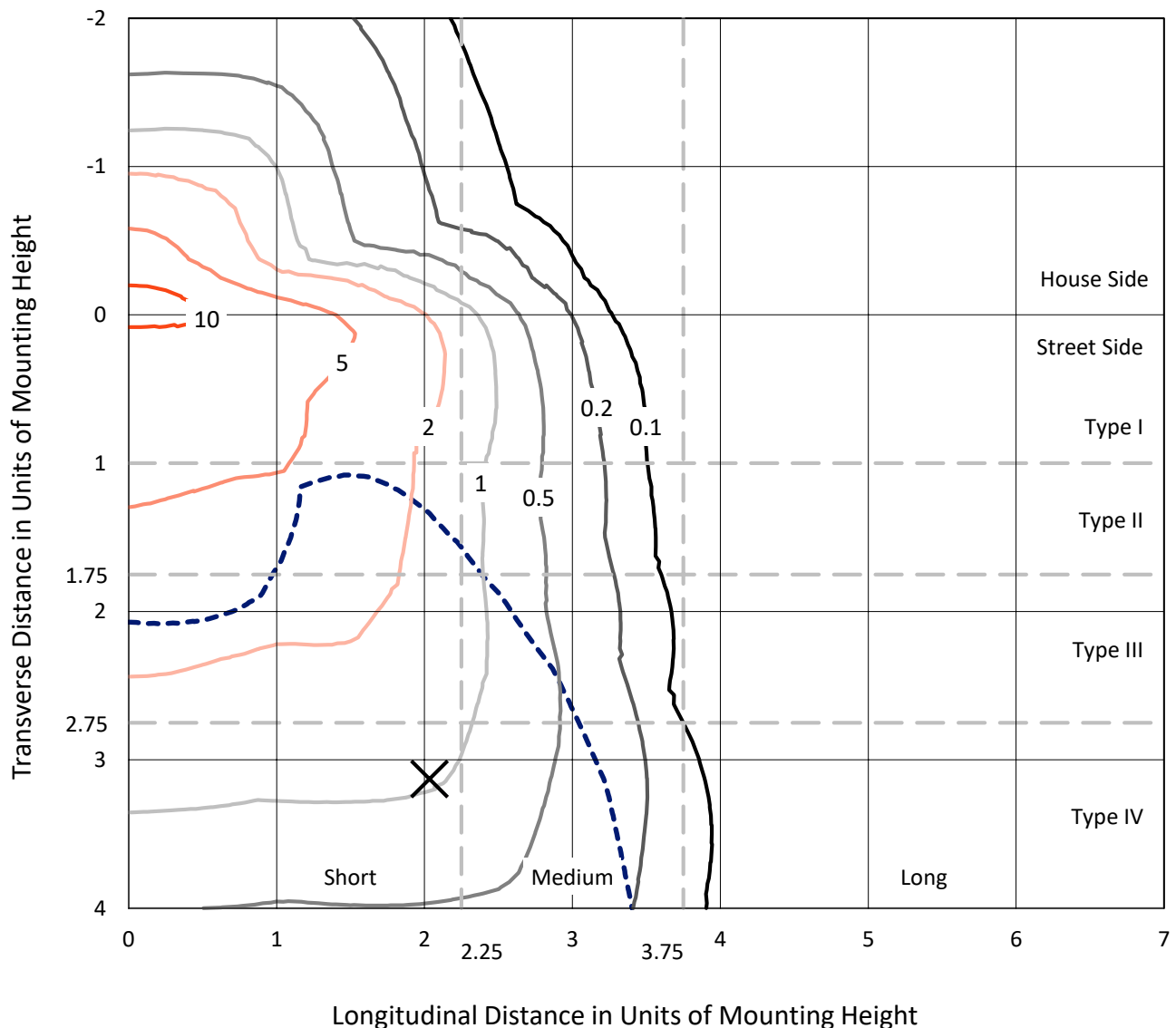
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

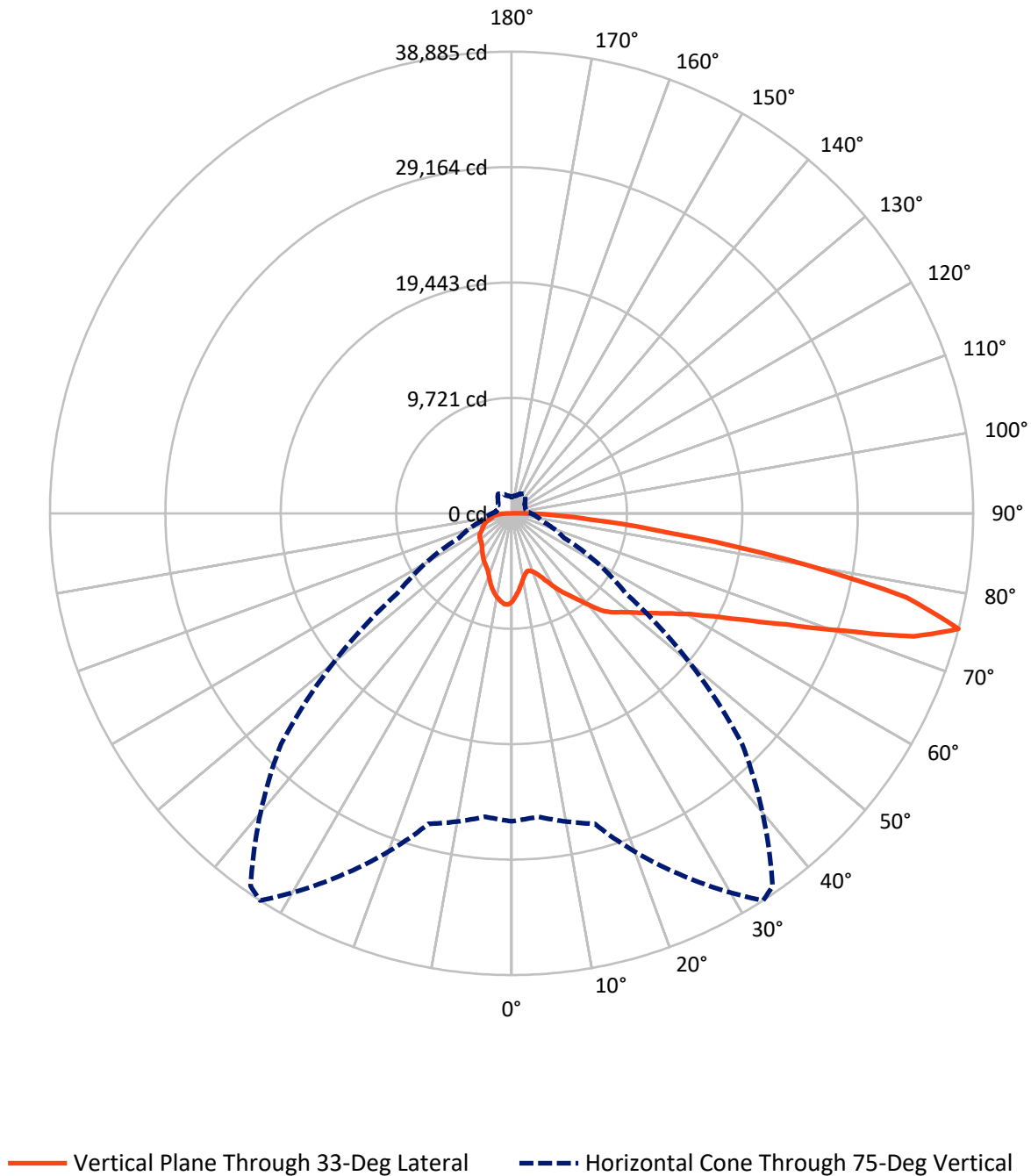
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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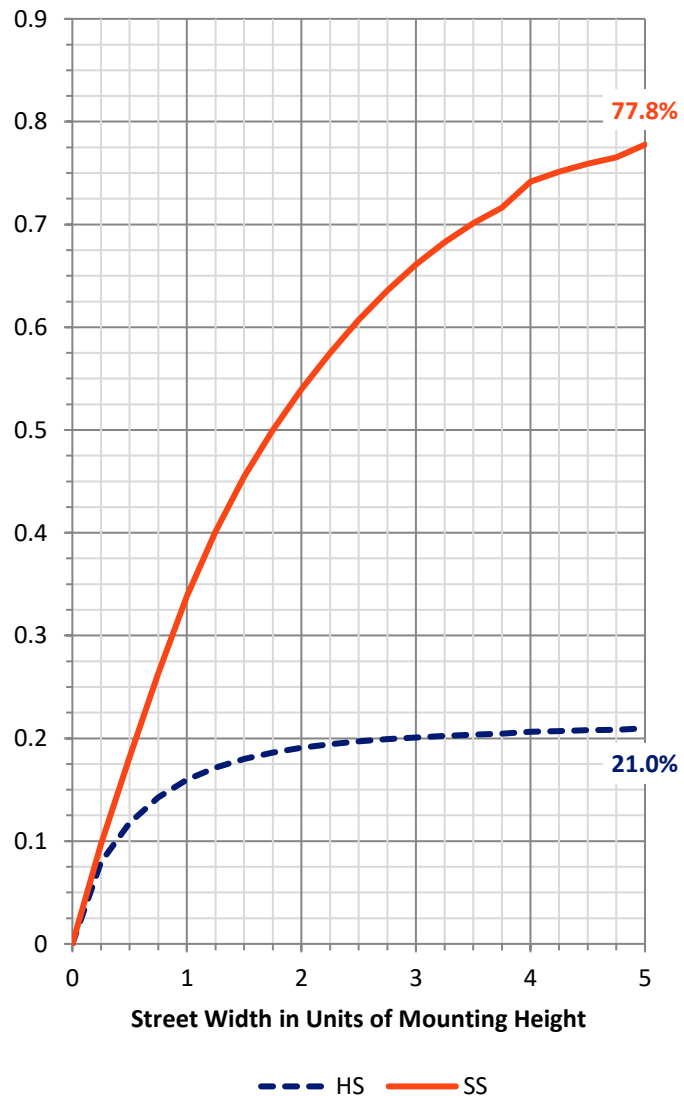
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10218.2	0.0	10218.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	37368.8	0.0	37368.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	47587.0	0.0	47587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.7	1.4
10°-20°	1821.9	3.8
20°-30°	2975.5	6.3
30°-40°	4431.1	9.3
40°-50°	6355.5	13.4
50°-60°	8725.1	18.3
60°-70°	10923.4	23.0
70°-80°	9881.9	20.8
80°-90°	1800.0	3.8
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°	47587.0	100.0
0°-180°	47587.0	100.0

Coefficient of Utilization



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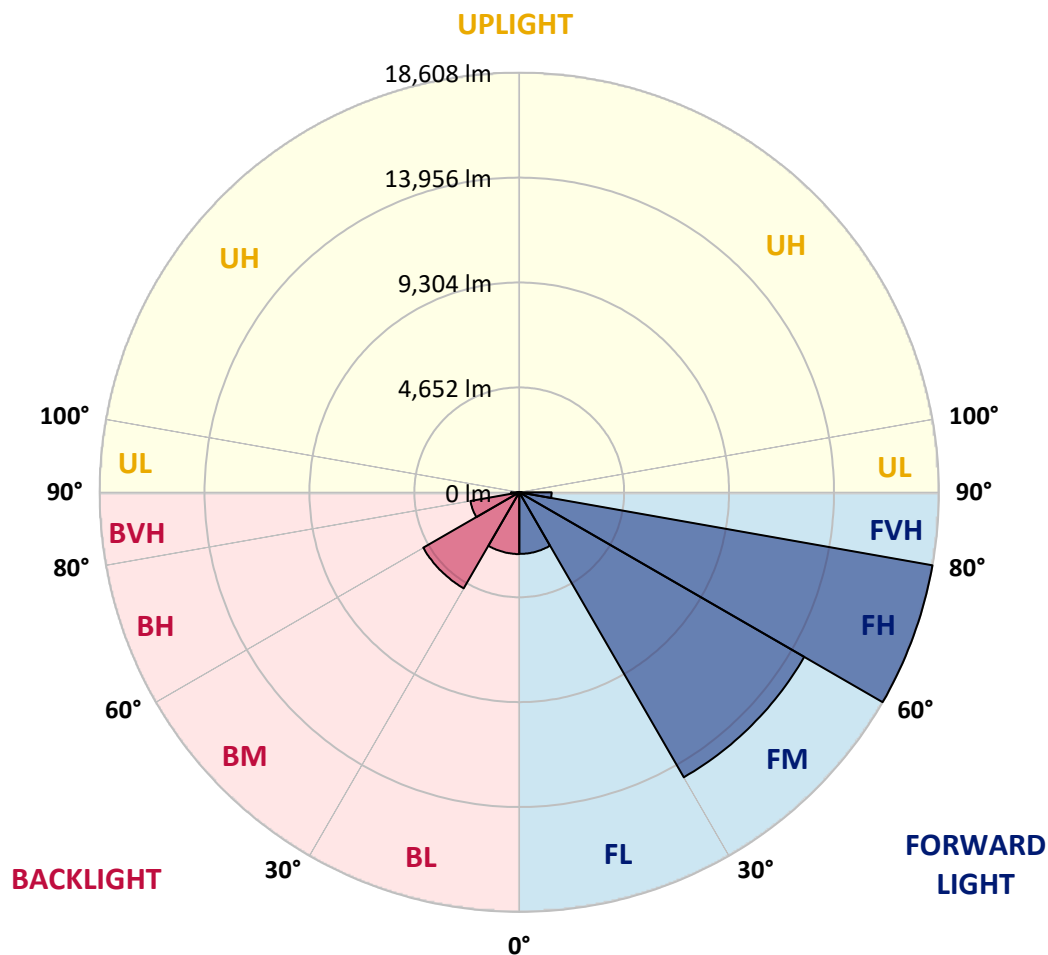
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2733.1	5.7			
FM	(30°-60°)	14593.9	30.7			
FH	(60°-80°)	18608.2	39.1			G5
FVH	(80°-90°)	1433.6	3.0			G5
BL	(0°-30°)	2736.9	5.8	B4/5000		
BM	(30°-60°)	4917.7	10.3	B3/5000		
BH	(60°-80°)	2197.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	366.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1
2.5°	6907.2	6880.9	6930.2	6936.8	6979.5	6995.9	7055.1	7147.2	7222.8	7309.9	7388.8
5°	6280.9	6262.8	6331.8	6381.2	6474.9	6514.3	6654.0	6849.6	7023.9	7221.1	7400.3
7.5°	5685.8	5676.0	5753.2	5865.0	5973.5	6027.7	6269.4	6553.8	6844.7	7163.6	7438.1
10°	5184.5	5181.2	5255.2	5365.3	5524.8	5585.6	5897.9	6272.7	6680.3	7119.2	7502.2
12.5°	4903.4	4914.9	4949.4	5041.5	5189.4	5250.2	5597.1	6037.6	6542.3	7104.4	7595.9
15°	4972.4	4990.5	4931.3	4928.1	5033.3	5080.9	5406.4	5869.9	6443.6	7129.1	7732.4
17.5°	5266.7	5270.0	5113.8	5015.2	5079.3	5103.9	5347.2	5774.6	6386.1	7185.0	7903.3
20°	5680.9	5672.7	5396.5	5232.2	5266.7	5273.3	5431.1	5776.3	6381.2	7282.0	8125.2
22.5°	6229.9	6169.1	5797.6	5574.1	5565.8	5556.0	5646.4	5897.9	6453.5	7439.8	8389.9
25°	6946.6	6889.1	6377.9	6072.1	6006.4	5981.7	5994.9	6157.6	6596.5	7609.1	8685.7
27.5°	7743.9	7643.6	7150.5	6718.1	6581.7	6547.2	6468.3	6524.2	6752.7	7771.8	9037.5
30°	8411.2	8357.0	7926.3	7413.5	7252.4	7203.1	6995.9	6935.1	6977.9	7993.7	9481.3
32.5°	8784.4	8748.2	8486.8	8072.6	7923.0	7854.0	7561.4	7439.8	7339.5	8343.8	10083.0
35°	9236.4	9213.4	9055.6	8754.8	8532.9	8460.5	8233.7	8107.1	7849.1	8825.5	10860.5
37.5°	9811.7	9787.1	9790.4	9547.1	9282.4	9215.0	9065.5	8932.3	8509.9	9458.3	11705.4
40°	10462.7	10415.0	10396.9	10385.4	10217.8	10179.9	10101.0	9920.2	9338.3	10214.5	12538.8
42.5°	11442.4	11273.1	10911.4	11047.9	11213.9	11194.2	11258.3	10998.5	10258.8	11108.7	13352.4
45°	12387.5	12109.7	11485.1	11514.7	11878.0	11988.1	12468.1	12284.0	11256.6	12088.4	14194.1
47.5°	12818.2	12607.8	12076.9	12078.5	12438.5	12667.0	13719.0	13587.5	12305.4	13201.2	15221.4
50°	13299.8	13089.4	12612.7	12791.9	13105.9	13349.2	14927.2	14859.8	13303.1	14419.3	16452.6
52.5°	13825.9	13469.2	13166.7	13487.2	13927.8	14210.5	16137.0	15952.9	14218.7	15645.5	17867.9
55°	13832.4	13735.4	13965.6	14200.6	14859.8	15206.6	17404.4	16917.8	14965.0	16850.4	19020.2
57.5°	14619.8	14462.0	14950.2	15058.7	15920.0	16311.3	18665.1	17757.8	15724.4	17774.2	19641.6
60°	15662.0	15527.2	15926.6	16212.6	17231.8	17754.5	20011.4	18620.8	16321.1	18471.2	19612.0
62.5°	17461.9	17309.0	17304.1	17705.2	19077.7	19685.9	21522.0	19467.3	16557.8	18609.3	18775.3
65°	20096.9	19853.6	19395.0	19585.7	21627.2	22233.8	23210.2	20080.4	16245.5	17869.6	16620.3
67.5°	22661.2	22653.0	22089.1	22480.4	24993.7	25480.3	25133.4	20141.3	15270.7	15293.8	12796.8
70°	25217.3	25250.1	25154.8	26515.9	29542.1	30048.3	27181.6	19324.3	13079.6	11044.6	7666.6
72.5°	27242.4	27234.2	27714.2	31223.6	35444.9	35331.5	28907.6	16848.8	9390.9	5962.0	3664.0
75°	25930.7	25644.6	27074.7	33554.5	38885.3	38331.4	27439.7	11753.0	4873.8	2713.9	1972.5
77.5°	16912.9	17184.1	19283.2	27719.1	34013.1	33339.2	20131.4	5483.7	2296.4	1780.2	1430.1
80°	6124.7	6410.8	9029.3	15701.4	23433.8	23323.6	9913.7	2253.6	1553.4	1344.6	1042.2
82.5°	2107.3	2212.5	3562.1	6972.9	13230.8	13723.9	3729.7	1280.5	1129.3	953.4	713.4
85°	826.8	946.8	1629.0	3355.0	6673.8	6723.1	1510.6	766.0	785.7	624.6	391.2
87.5°	314.0	381.4	779.2	1558.3	3047.6	2799.4	540.8	364.9	447.1	371.5	185.7
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°	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1	7438.1
2.5°	7449.6	7484.1	7556.5	7605.8	7658.4	7673.2	7679.8	7692.9	7706.1	7701.1	7702.8
5°	7495.6	7563.0	7679.8	7729.1	7752.1	7725.8	7674.8	7633.7	7604.1	7587.7	7582.8
7.5°	7571.3	7666.6	7791.5	7783.3	7730.7	7614.0	7482.5	7383.9	7301.7	7272.1	7255.7
10°	7671.5	7783.3	7870.4	7776.7	7623.9	7421.7	7224.4	7071.6	6948.3	6900.6	6892.4
12.5°	7799.7	7913.2	7929.6	7730.7	7477.6	7201.4	6933.5	6731.3	6547.2	6488.0	6474.9
15°	7965.8	8072.6	7970.7	7650.2	7296.7	6925.3	6578.4	6303.9	6109.9	6037.6	6011.3
17.5°	8140.0	8241.9	7978.9	7517.0	7060.0	6598.1	6162.5	5881.5	5659.5	5575.7	5565.8
20°	8348.8	8394.8	7944.4	7326.3	6734.6	6174.0	5715.4	5450.8	5332.4	5273.3	5266.7
22.5°	8606.8	8557.5	7865.5	7068.3	6322.0	5684.2	5311.1	5187.8	5158.2	5145.0	5150.0
25°	8879.7	8728.5	7748.8	6731.3	5800.9	5194.4	5015.2	5049.7	5089.1	5084.2	5084.2
27.5°	9180.5	8902.7	7569.6	6284.2	5223.9	4793.3	4814.6	4941.2	5000.4	4998.7	4997.1
30°	9566.8	9100.0	7341.1	5746.7	4684.8	4510.5	4640.4	4794.9	4875.5	4872.2	4873.8
32.5°	10041.9	9317.0	7030.5	5146.7	4295.2	4301.8	4451.4	4604.2	4697.9	4689.7	4691.4
35°	10597.5	9560.2	6609.6	4554.9	4037.1	4135.8	4254.1	4361.0	4449.7	4438.2	4426.7
37.5°	11202.4	9798.6	6050.8	4025.6	3826.7	3981.2	4079.9	4097.9	4139.0	4109.5	4088.1
40°	11777.7	9981.0	5330.8	3591.7	3614.7	3849.7	3913.8	3841.5	3767.5	3757.7	3728.1
42.5°	12279.1	10041.9	4602.6	3244.8	3391.1	3711.7	3751.1	3599.9	3466.7	3404.3	3378.0
45°	12808.4	10063.2	3923.7	2953.9	3175.8	3588.4	3631.1	3428.9	3241.5	3106.7	3062.4
47.5°	13500.4	10217.8	3396.1	2738.5	3011.4	3506.2	3567.0	3292.5	3049.2	2856.9	2815.8
50°	14406.1	10523.5	2967.0	2574.2	2904.6	3451.9	3521.0	3159.3	2891.4	2659.6	2618.5
52.5°	15412.1	10804.6	2620.2	2441.0	2801.0	3356.6	3461.8	3064.0	2743.5	2477.2	2432.8
55°	16115.6	10589.2	2340.7	2302.9	2666.2	3220.2	3379.6	2983.5	2531.4	2299.7	2260.2
57.5°	16250.4	9852.8	2128.7	2159.9	2503.5	3049.2	3253.0	2804.3	2416.4	2222.4	2181.3
60°	15882.2	8827.1	1970.9	2028.4	2329.2	2833.9	3016.3	2677.7	2306.2	2140.2	2105.7
62.5°	14956.8	7776.7	1854.2	1910.1	2166.5	2615.3	2868.4	2544.6	2194.4	2046.5	2012.0
65°	13087.8	6529.1	1742.4	1804.9	2015.3	2426.2	2735.3	2421.3	2084.3	1970.9	1938.0
67.5°	9879.1	4890.3	1637.2	1693.1	1880.5	2261.8	2590.6	2299.7	1977.5	1905.1	1865.7
70°	5817.3	3062.4	1517.2	1576.4	1739.1	2090.9	2436.1	2166.5	1844.3	1811.4	1760.5
72.5°	2707.3	1842.7	1380.8	1438.3	1561.6	1862.4	2237.2	1992.3	1686.5	1614.2	1545.2
75°	1615.8	1347.9	1219.7	1270.6	1357.8	1619.1	1987.3	1814.7	1536.9	1441.6	1369.3
77.5°	1208.2	1030.7	1042.2	1096.4	1167.1	1416.9	1760.5	1675.0	1421.9	1347.9	1298.6
80°	869.6	782.4	849.8	909.0	983.0	1288.7	1686.5	1548.4	1285.4	1186.8	1140.8
82.5°	580.3	562.2	639.4	700.3	772.6	1127.6	1584.6	1356.1	1098.0	973.1	871.2
85°	320.5	338.6	430.7	457.0	519.4	793.9	1298.6	1089.8	826.8	665.7	636.1
87.5°	133.1	156.2	231.8	223.6	276.2	473.4	854.8	657.5	526.0	392.9	305.7
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)