

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: P317373

Luminaire Tested: **GAN-SA9C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55092 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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



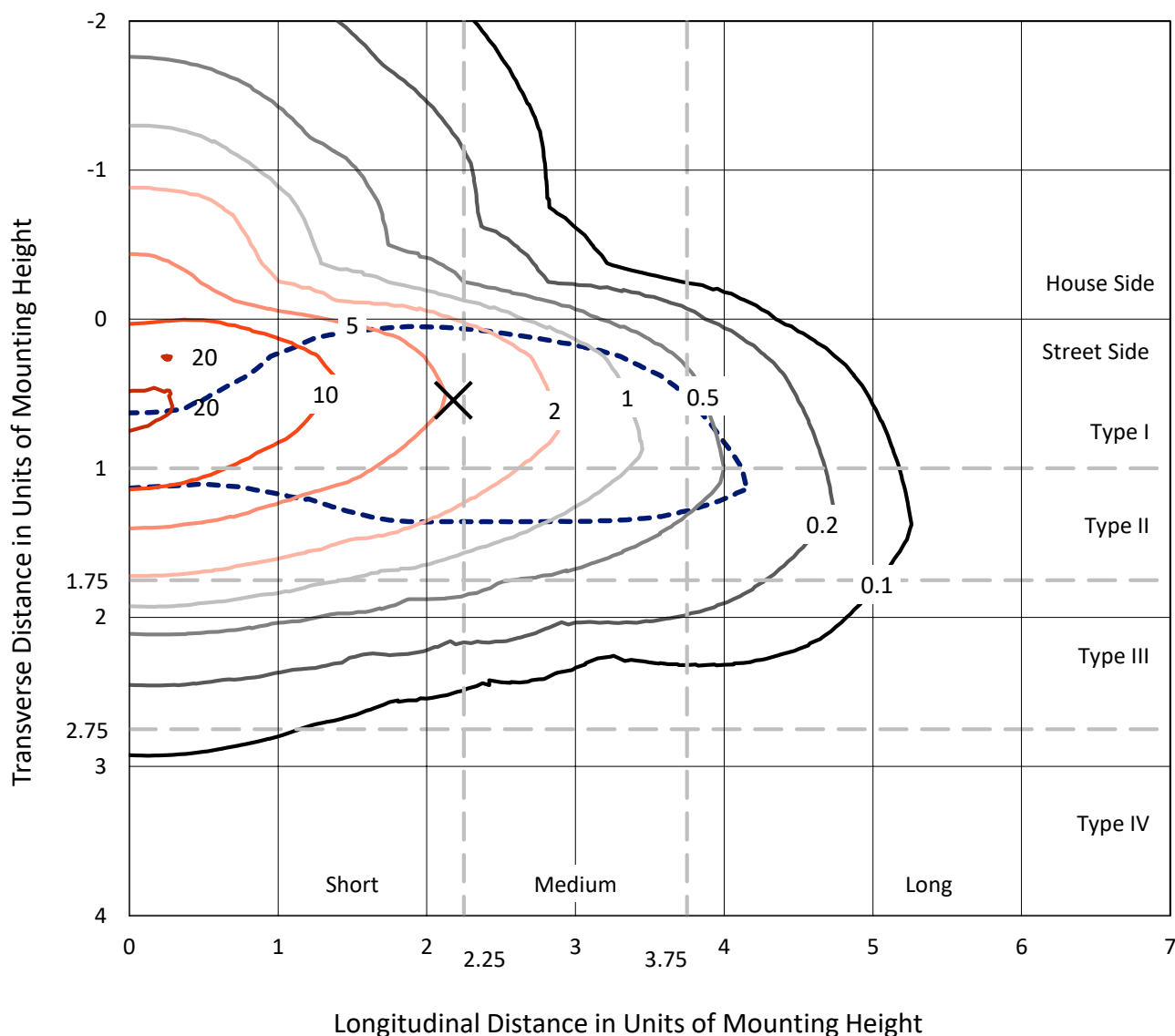
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

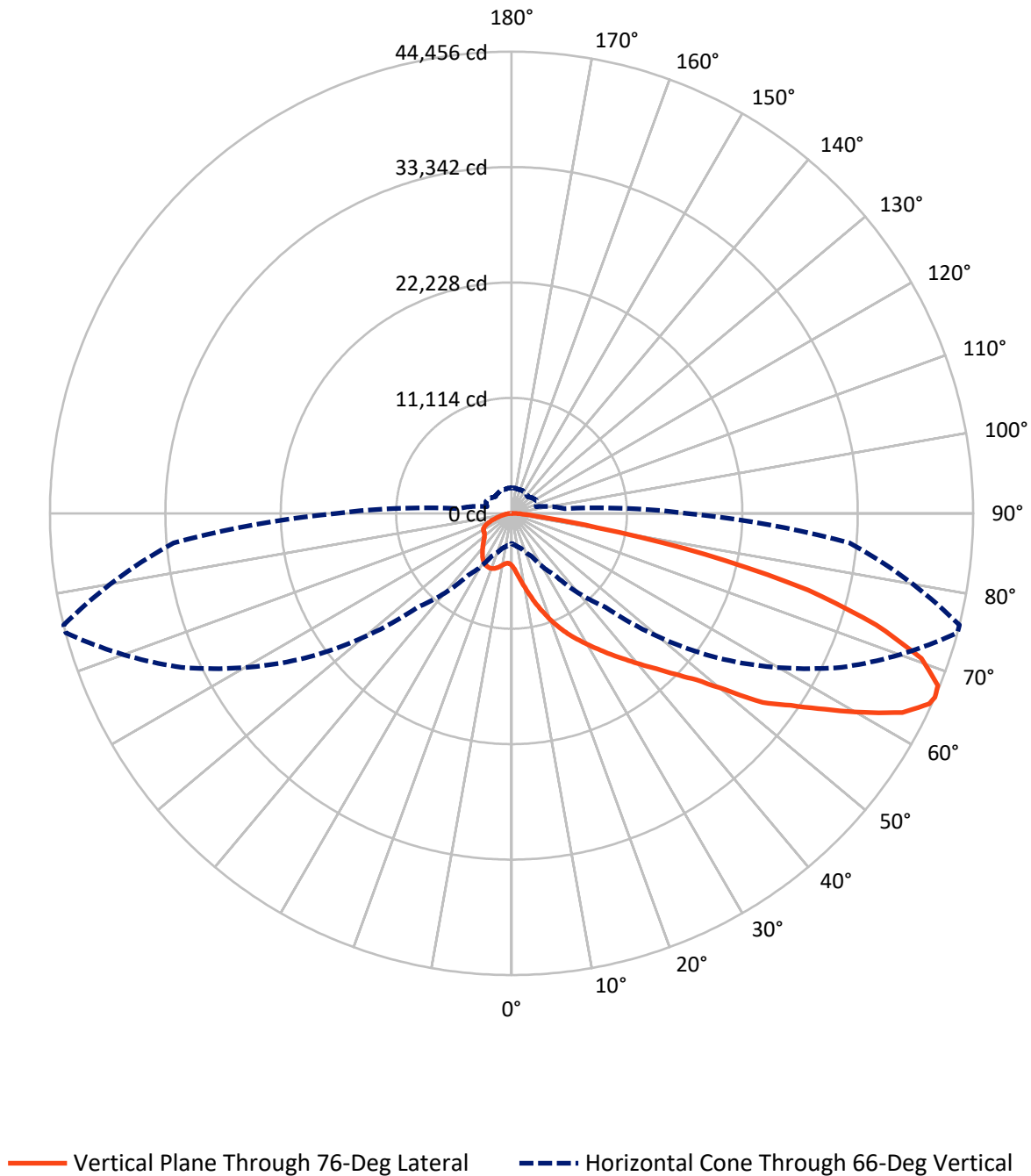


Based on 25 foot mounting height. Maximum calculated value = 21.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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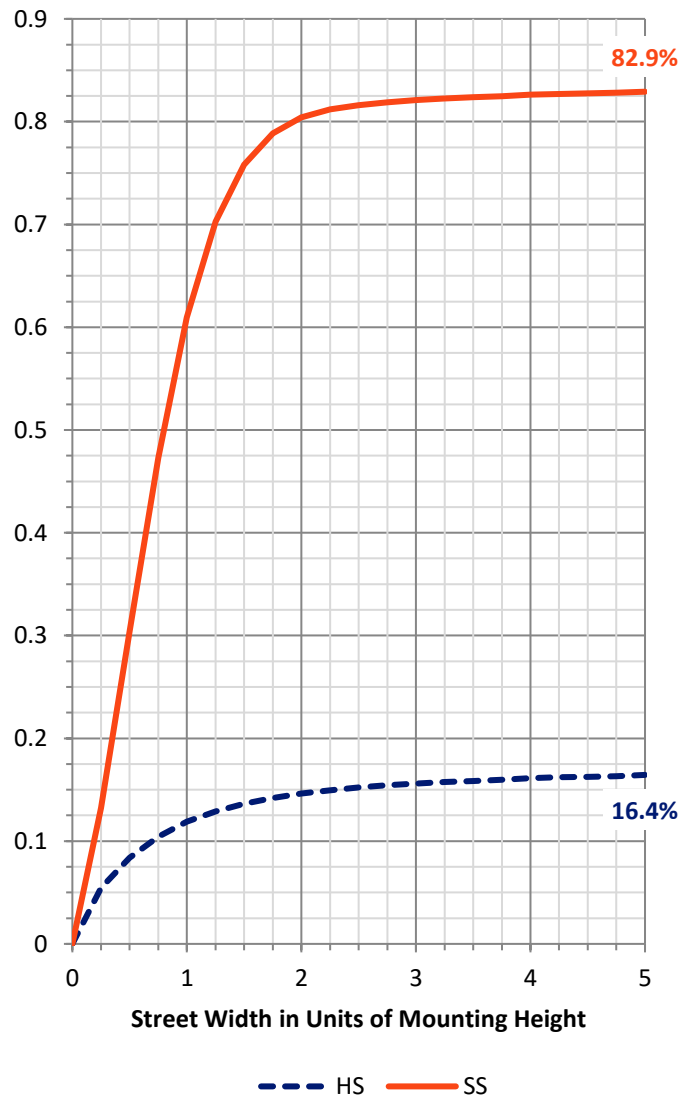
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9270.1	0.0	9270.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	45821.9	0.0	45821.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	55092.0	0.0	55092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.4	1.1
10°-20°	2402.5	4.4
20°-30°	4668.7	8.5
30°-40°	7620.4	13.8
40°-50°	10411.3	18.9
50°-60°	12127.0	22.0
60°-70°	10872.1	19.7
70°-80°	5494.3	10.0
80°-90°	887.3	1.6
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°	55092.0	100.0
0°-180°	55092.0	100.0

Coefficient of Utilization



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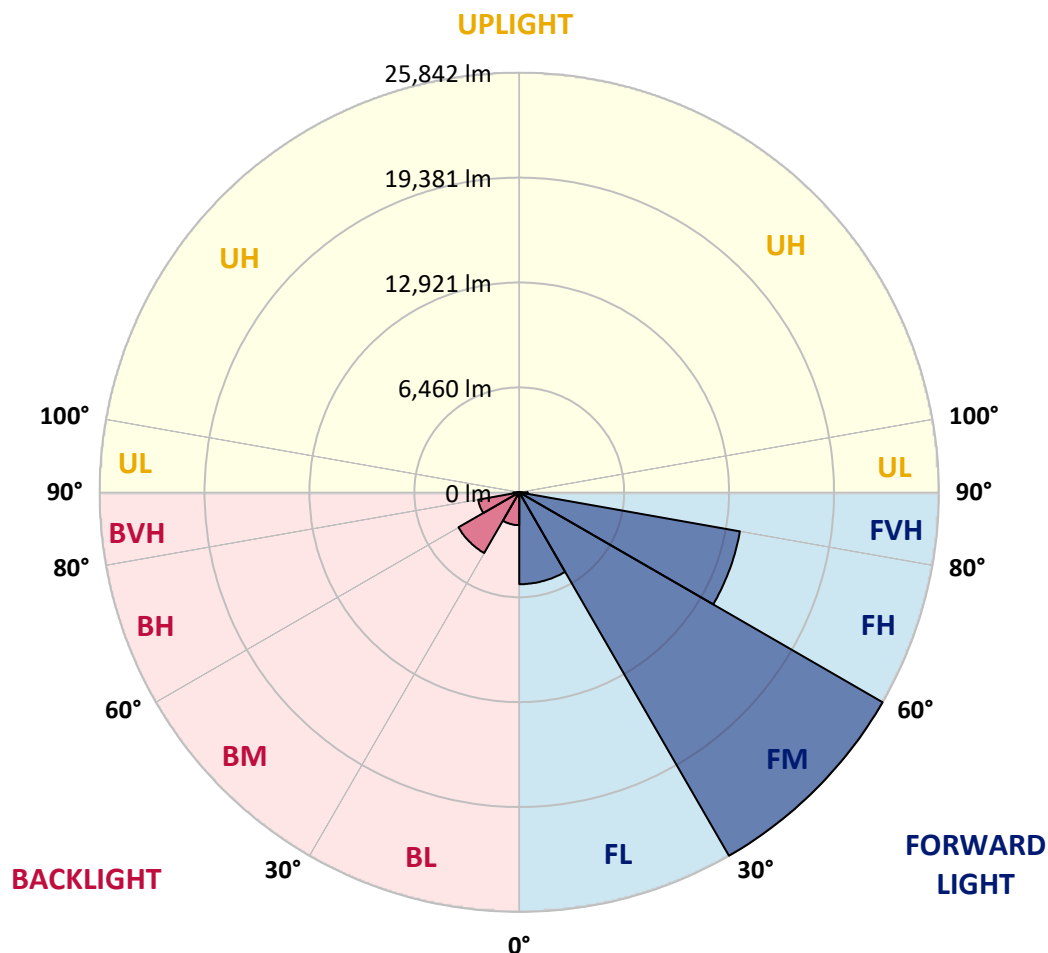
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5657.8	10.3			
FM	(30°-60°)	25842.0	46.9			
FH	(60°-80°)	13798.2	25.0			G5
FVH	(80°-90°)	524.0	1.0			G4/750
BL	(0°-30°)	2021.8	3.7	B3/2500		
BM	(30°-60°)	4316.7	7.8	B3/5000		
BH	(60°-80°)	2568.2	4.7	B4/5000		G4/5000
BVH	(80°-90°)	363.3	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1
2.5°	6678.9	6577.9	6568.5	6420.8	6387.1	6104.7	5897.1	5680.1	5433.3	5384.6	5190.1
5°	8579.1	8569.8	8440.7	8199.5	8010.6	7528.0	7051.1	6546.1	5992.5	5902.7	5465.1
7.5°	10288.6	10273.6	10174.5	9914.5	9641.5	9048.6	8367.8	7593.5	6695.7	6562.9	5837.2
10°	11586.6	11581.0	11547.3	11356.5	11124.6	10556.0	9804.2	8747.5	7513.0	7331.6	6303.0
12.5°	12589.1	12600.3	12622.7	12555.4	12445.1	11960.7	11190.1	9970.6	8384.6	8205.1	6821.0
15°	13268.0	13301.7	13417.6	13513.0	13571.0	13273.6	12527.4	11221.9	9360.9	9145.8	7395.2
17.5°	13610.3	13647.7	13847.8	14135.8	14401.4	14371.5	13778.6	12415.1	10297.9	10090.3	8012.4
20°	13905.8	13933.8	14158.3	14504.3	14973.7	15181.3	14848.4	13563.5	11324.7	11077.9	8667.0
22.5°	14762.4	14797.9	14865.2	15061.6	15476.8	15858.4	15697.5	14650.2	12265.5	12035.5	9288.0
25°	16415.7	16458.8	16312.9	16146.4	16225.0	16490.6	16520.5	15641.4	13219.4	12959.4	9955.7
27.5°	18407.6	18469.3	18220.6	17792.3	17418.2	17315.4	17279.8	16453.1	14130.2	13829.1	10615.9
30°	20358.4	20465.0	20141.4	19585.9	18899.5	18417.0	18059.7	17248.0	15028.0	14739.9	11238.7
32.5°	22264.2	22221.2	21751.7	21209.4	20405.1	19801.0	18936.9	18100.9	16037.9	15706.9	11857.8
35°	23569.7	23584.6	23148.9	22505.5	21738.6	21274.8	20111.5	19021.1	17068.5	16763.6	12561.0
37.5°	24680.7	24611.4	24117.7	23517.3	22857.1	22658.8	21486.2	20034.8	18185.1	17852.1	13309.1
40°	25051.0	24970.5	24647.0	24214.9	23685.6	23668.8	23003.0	21183.2	19447.5	19118.3	14152.7
42.5°	24826.5	24723.7	24590.9	24473.0	24310.3	24385.1	24428.2	22529.8	20835.3	20466.8	15129.0
45°	23998.0	23842.8	23936.3	24192.5	24546.0	24968.7	25714.9	24020.4	22389.5	22080.9	16275.5
47.5°	22724.3	22584.0	22875.8	23423.8	24385.1	25455.0	26932.5	25666.3	24244.9	23938.1	17908.2
50°	20932.5	20973.7	21390.8	22387.6	23840.9	25679.4	28432.5	27845.2	26941.9	26655.7	20135.8
52.5°	17992.4	17999.9	19174.4	20811.0	22875.8	25563.4	29264.8	30630.1	30624.5	30278.5	22256.7
55°	15261.8	15428.2	16357.8	18532.9	21312.2	25099.6	29846.5	31984.2	33042.8	32637.0	24233.6
57.5°	12594.7	12691.9	13572.9	15757.4	19080.9	23863.3	30443.1	33609.5	35829.6	35573.4	26691.2
60°	9561.0	9710.7	10621.5	12639.6	16226.8	21669.4	30499.2	35305.9	39160.6	38902.5	29435.0
62.5°	6205.7	6463.8	7316.7	9207.6	12774.2	18514.2	29197.5	36415.0	42317.7	42226.1	31870.1
65°	3566.7	3761.2	4354.1	5812.9	8812.9	14552.9	26102.1	35988.6	44261.0	44208.6	32781.0
66°	2913.9	3035.5	3490.0	4543.0	7271.8	12779.8	24302.8	35088.9	44453.6	44455.5	32676.2
67.5°	2330.4	2384.6	2588.5	3252.5	5365.9	10129.6	21087.8	33104.5	44214.2	44279.7	32001.1
70°	1928.3	1956.3	2019.9	2180.8	2928.9	6108.4	14968.1	27948.1	41810.8	41861.3	29365.8
72.5°	1730.0	1746.9	1771.2	1793.6	2066.7	3413.3	9142.1	22357.7	36658.1	36723.6	25350.2
75°	1567.3	1576.7	1572.9	1574.8	1733.8	2175.2	4724.4	16692.5	29640.7	29509.8	19419.5
77.5°	1376.6	1385.9	1367.2	1370.9	1533.7	1672.1	2351.0	11685.7	20003.0	19079.1	10941.3
80°	1163.3	1170.8	1163.3	1176.4	1335.4	1262.5	1367.2	6574.2	8844.7	8365.9	3890.3
82.5°	879.0	910.8	933.3	985.7	1099.7	897.8	914.6	2560.5	2693.3	2564.2	1193.3
85°	385.3	469.4	703.2	753.7	826.7	538.7	600.4	1043.6	1096.0	1062.3	433.9
87.5°	101.0	110.3	347.9	437.7	458.2	243.1	312.3	475.1	501.2	475.1	144.0
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°	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1	5031.1
2.5°	5087.3	4995.6	4831.0	4685.1	4574.8	4500.0	4425.2	4387.8	4365.3	4342.9	4346.6
5°	5250.0	5064.8	4782.4	4582.3	4470.0	4399.0	4361.6	4346.6	4337.3	4314.8	4314.8
7.5°	5495.0	5233.1	4844.1	4638.4	4550.5	4496.2	4473.8	4466.3	4455.1	4428.9	4432.6
10°	5803.6	5437.0	4973.2	4773.0	4692.6	4632.8	4601.0	4589.7	4569.2	4539.2	4543.0
12.5°	6166.4	5689.5	5143.4	4933.9	4836.6	4756.2	4703.8	4672.0	4636.5	4597.2	4599.1
15°	6562.9	5964.4	5326.7	5077.9	4945.1	4832.9	4748.7	4694.5	4638.4	4589.7	4587.9
17.5°	6965.0	6230.0	5466.9	5156.5	4976.9	4829.1	4715.1	4630.9	4561.7	4501.8	4496.2
20°	7399.0	6469.4	5545.5	5149.0	4917.1	4741.2	4589.7	4485.0	4408.3	4348.5	4339.1
22.5°	7840.4	6693.9	5558.6	5072.3	4784.3	4569.2	4410.2	4294.2	4215.7	4154.0	4131.5
25°	8244.3	6867.8	5504.3	4924.5	4599.1	4367.2	4211.9	4094.1	4030.5	3957.6	3935.1
27.5°	8612.8	6989.4	5395.9	4735.6	4391.5	4163.3	4017.4	3916.4	3847.2	3791.1	3772.4
30°	8943.8	7054.8	5218.2	4511.2	4178.3	3970.7	3847.2	3778.0	3718.2	3647.1	3634.0
32.5°	9258.0	7054.8	4990.0	4266.2	3966.9	3800.5	3727.5	3684.5	3617.2	3548.0	3529.3
35°	9572.3	7011.8	4720.7	4010.0	3772.4	3678.9	3675.2	3624.7	3521.8	3428.3	3404.0
37.5°	9903.3	6923.9	4417.7	3770.6	3613.4	3624.7	3656.5	3544.2	3398.4	3265.6	3230.0
40°	10277.4	6802.3	4103.5	3562.9	3480.7	3600.4	3606.0	3428.3	3144.0	3022.4	2990.6
42.5°	10716.9	6680.8	3811.7	3379.7	3375.9	3527.4	3510.6	3177.7	3007.5	2945.7	2928.9
45°	11294.8	6611.6	3534.9	3205.7	3293.6	3409.6	3347.9	3039.3	2968.2	2932.7	2917.7
47.5°	12205.7	6647.1	3280.5	3067.3	3211.3	3291.8	3044.9	2983.1	2932.7	2889.6	2874.7
50°	13346.6	6626.5	3074.8	2971.9	3117.8	3168.3	2908.3	2910.2	2884.0	2835.4	2813.0
52.5°	14205.0	6465.7	2942.0	2917.7	3035.5	2949.5	2822.3	2839.1	2826.0	2755.0	2730.7
55°	15033.6	6327.3	2874.7	2897.1	2975.7	2676.4	2721.3	2762.5	2749.4	2680.2	2668.9
57.5°	16064.1	6301.1	2833.5	2902.7	2925.2	2539.9	2624.0	2678.3	2668.9	2639.0	2633.4
60°	17326.6	6308.6	2796.1	2912.1	2869.1	2438.9	2532.4	2601.6	2607.2	2601.6	2597.9
62.5°	18020.5	6104.7	2702.6	2885.9	2769.9	2351.0	2437.0	2538.0	2539.9	2551.1	2549.2
65°	17431.3	5495.0	2528.7	2794.2	2603.5	2278.0	2354.7	2465.1	2437.0	2487.5	2487.5
66°	16859.0	5143.4	2442.6	2734.4	2532.4	2250.0	2328.5	2427.7	2392.1	2461.3	2461.3
67.5°	15690.1	4550.5	2287.4	2607.2	2431.4	2210.7	2298.6	2365.9	2317.3	2420.2	2412.7
70°	13554.2	3519.9	1975.1	2319.2	2264.9	2152.7	2257.5	2242.5	2171.4	2328.5	2298.6
72.5°	11427.6	2674.5	1586.0	1941.4	2012.5	2079.8	2199.5	2085.4	1995.6	2106.0	2040.5
75°	8867.2	2010.6	1253.1	1509.3	1700.1	1965.7	2130.3	1904.0	1774.9	1763.7	1728.2
77.5°	4793.6	1380.3	993.1	1152.1	1350.4	1823.6	2083.5	1709.5	1515.0	1470.1	1442.0
80°	1898.4	897.8	721.9	873.4	944.5	1617.8	1971.3	1483.2	1249.4	1204.5	1161.5
82.5°	783.7	531.2	465.7	585.4	615.3	1384.0	1769.3	1215.7	965.1	1335.4	1417.7
85°	336.7	291.8	276.8	303.0	347.9	970.7	1408.3	927.7	1041.8	929.5	738.8
87.5°	101.0	123.4	117.8	116.0	127.2	231.9	750.0	516.2	765.0	289.9	217.0
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)