

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: P318974

Luminaire Tested: **GAN-SA0C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58140 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

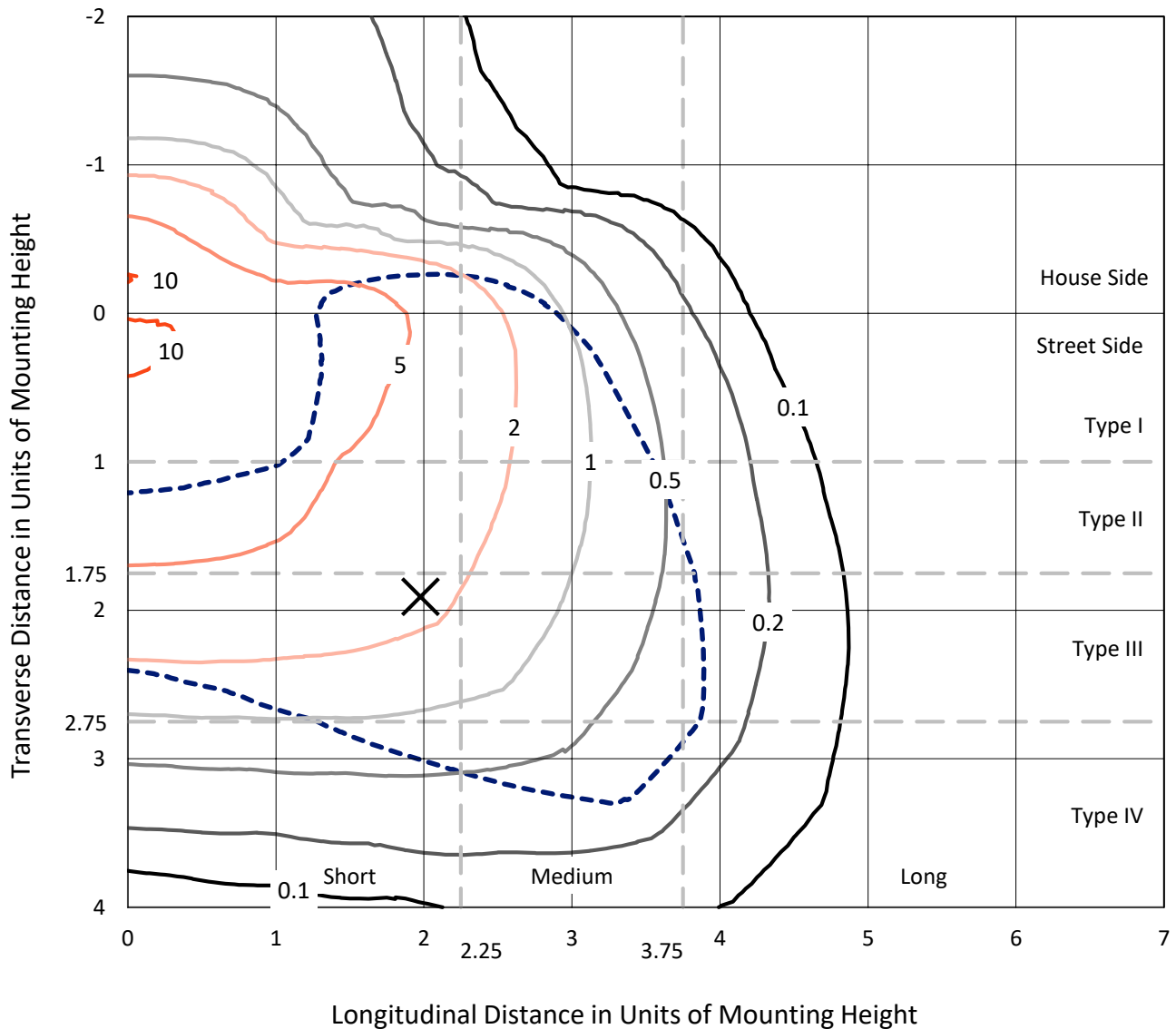
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

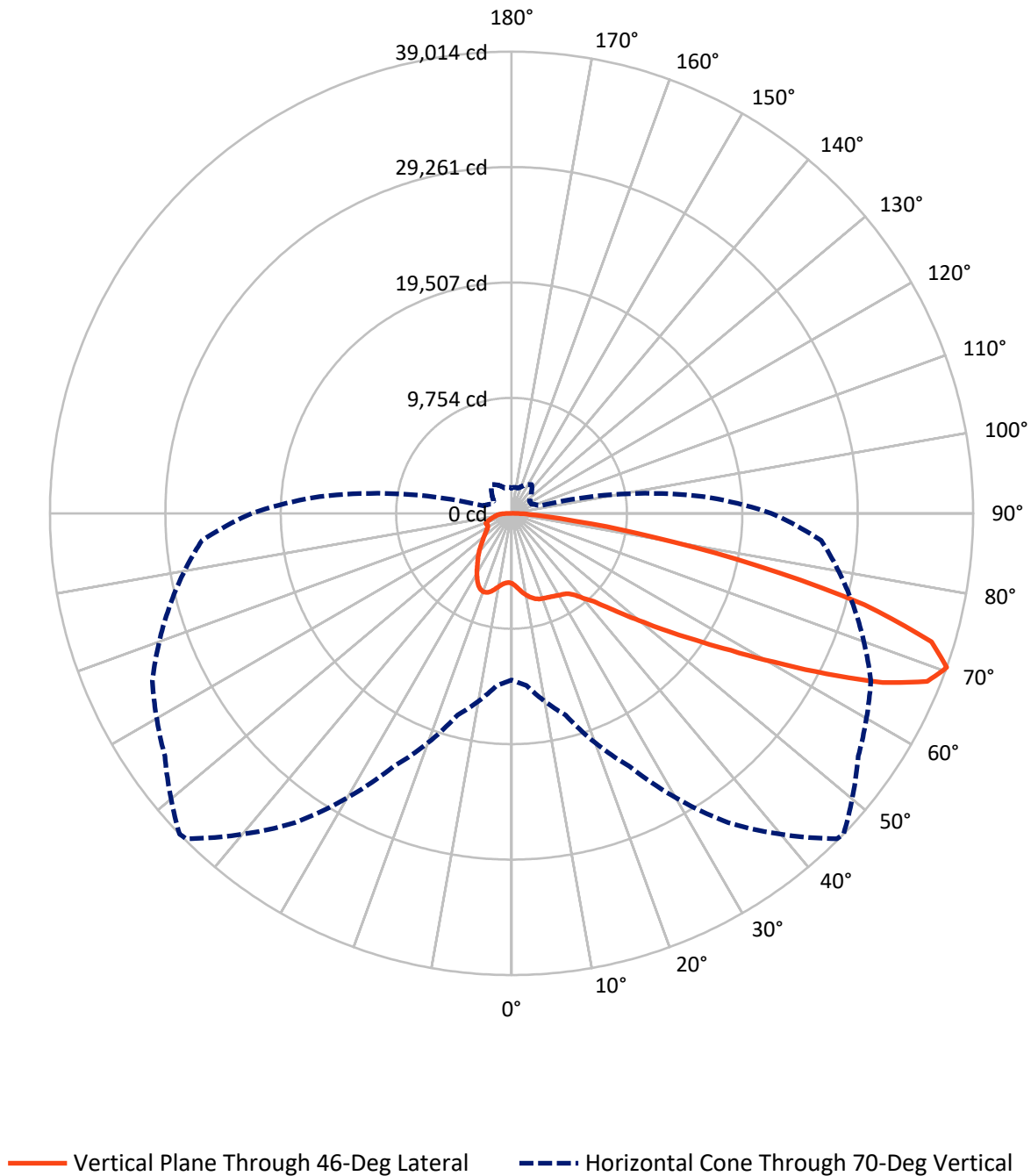
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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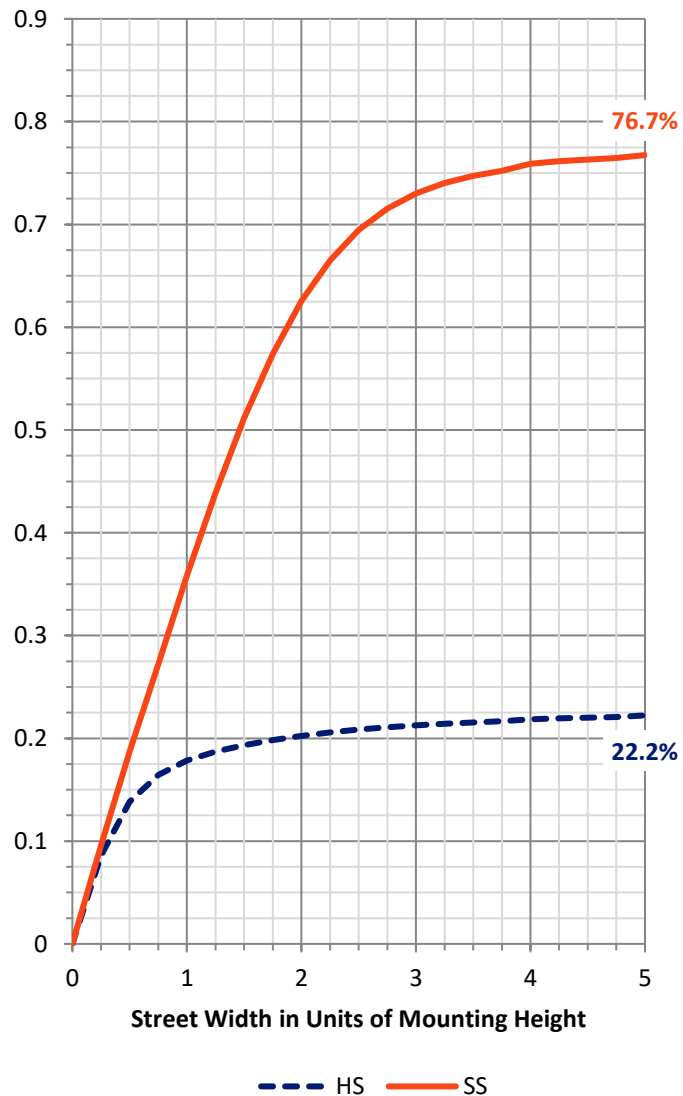
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13325.5	0.0	13325.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	44814.5	0.0	44814.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	58140.0	0.0	58140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.8	1.0
10°-20°	2011.8	3.5
20°-30°	3354.5	5.8
30°-40°	4760.2	8.2
40°-50°	7002.0	12.0
50°-60°	11857.8	20.4
60°-70°	16832.0	29.0
70°-80°	10225.6	17.6
80°-90°	1492.3	2.6
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°	58140.0	100.0
0°-180°	58140.0	100.0

Coefficient of Utilization



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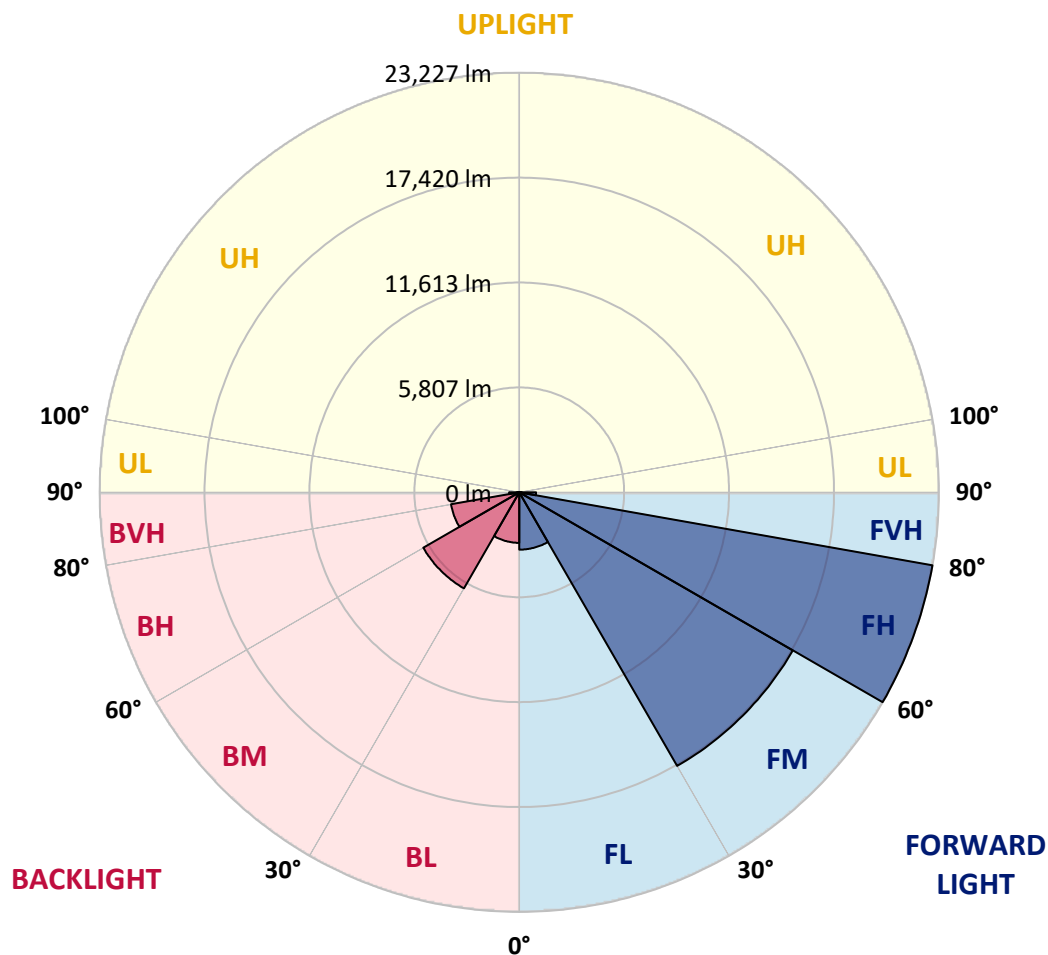
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3172.4	5.5			
FM	(30°-60°)	17485.9	30.1			
FH	(60°-80°)	23226.6	39.9			G5
FVH	(80°-90°)	929.6	1.6			G5
BL	(0°-30°)	2797.7	4.8	B4/5000		
BM	(30°-60°)	6134.1	10.6	B4/8500		
BH	(60°-80°)	3831.0	6.6	B4/5000		G4/5000
BVH	(80°-90°)	562.7	1.0			G4/750
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°	35°	45°	46°	55°	65°	75°	85°
0°	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3
2.5°	6219.8	6223.8	6231.7	6211.8	6156.1	6140.2	6134.2	6076.5	6038.7	5983.0	5935.3
5°	6717.2	6721.2	6709.3	6653.5	6530.2	6438.7	6430.7	6299.4	6180.0	6052.7	5957.2
7.5°	7236.5	7242.5	7204.7	7099.2	6926.1	6767.0	6757.0	6577.9	6396.9	6203.9	6060.6
10°	7696.1	7672.3	7610.6	7463.4	7258.4	7063.4	7055.5	6868.4	6659.5	6426.7	6235.7
12.5°	8002.6	7982.7	7903.1	7724.0	7499.2	7320.1	7304.2	7131.1	6928.1	6673.4	6444.6
15°	8171.7	8185.6	8078.2	7875.2	7656.4	7505.1	7491.2	7367.8	7186.8	6930.1	6667.5
17.5°	8193.6	8205.5	8102.0	7901.1	7722.0	7618.5	7612.6	7531.0	7399.7	7153.0	6878.4
20°	8066.2	8074.2	7988.6	7823.5	7706.1	7674.3	7672.3	7636.5	7539.0	7320.1	7053.5
22.5°	7881.2	7887.2	7825.5	7706.1	7666.3	7716.0	7730.0	7716.0	7646.4	7441.5	7190.8
25°	7835.4	7831.4	7767.8	7646.4	7680.2	7785.7	7803.6	7809.6	7761.8	7582.7	7365.9
27.5°	8056.3	8042.4	7921.0	7726.0	7747.9	7875.2	7899.1	7956.8	7927.0	7769.8	7564.8
30°	8695.0	8671.1	8422.4	8028.4	7921.0	7986.6	8016.5	8108.0	8114.0	7982.7	7829.5
32.5°	9773.4	9743.5	9297.9	8593.5	8213.5	8100.1	8127.9	8265.2	8338.8	8237.3	8072.2
35°	11136.3	11102.5	10517.5	9554.5	8702.9	8316.9	8336.8	8446.3	8593.5	8450.2	8231.4
37.5°	12557.0	12475.4	11912.3	10684.7	9480.9	8780.5	8780.5	8794.5	8864.1	8565.6	8418.4
40°	13969.7	13888.1	13378.7	12013.8	10487.7	9510.8	9465.0	9156.6	9100.9	8844.2	8794.5
42.5°	15282.9	15259.0	14958.5	13516.0	11669.6	10229.0	10165.4	9642.1	9654.0	9494.8	9496.8
45°	16679.6	16679.6	16434.9	15032.2	13046.4	11383.1	11319.4	10549.4	10668.8	10595.1	10772.2
47.5°	17819.7	17855.5	17821.7	16612.0	14648.1	12849.5	12734.1	11806.9	12141.1	12393.8	12909.2
50°	18983.7	19039.4	19045.4	18345.0	16584.1	14592.4	14461.1	13476.2	14222.4	14946.6	15959.4
52.5°	20673.0	20798.3	20298.9	20074.1	18955.8	16661.7	16532.4	15623.1	16868.7	17885.4	19630.4
55°	22238.8	22129.4	21773.3	21912.5	21494.7	19017.5	18920.0	18122.2	19817.4	21138.5	23404.8
57.5°	23086.5	23078.5	23436.6	24033.6	24232.5	21922.5	21840.9	21064.9	23142.2	24135.0	26948.5
60°	24081.3	24095.2	24982.6	26337.6	27157.4	25539.8	25503.9	24915.0	26371.4	26932.5	29728.1
62.5°	24220.6	24471.3	25999.4	28331.3	29895.2	29765.9	29845.5	28383.0	29260.5	29165.0	31803.3
65°	22618.9	22949.2	25714.8	28934.2	32617.1	34387.9	34461.6	31871.0	31538.7	31073.1	32545.5
67.5°	19335.9	19825.3	22829.8	27623.0	33514.5	37804.2	37907.7	34575.0	33428.9	31719.7	30758.7
70°	14071.1	14614.3	17638.7	23591.8	31914.7	38896.6	39014.0	35770.8	33500.5	29879.3	26258.0
72.5°	8500.0	8925.8	11418.9	17368.1	26936.5	36906.9	37115.8	34254.6	30585.6	25308.9	19389.6
75°	3732.7	4011.2	5521.4	10008.2	19284.1	30535.9	30796.5	29320.2	24851.3	18392.8	11460.7
77.5°	1589.8	1669.4	2264.3	4347.5	10901.5	20866.0	21224.1	21423.1	16860.7	10008.2	4842.9
80°	990.9	1022.7	1281.4	1967.8	5101.6	11719.3	12105.3	12604.7	8372.6	3678.9	1691.2
82.5°	602.9	638.7	851.6	1189.8	2656.2	5312.5	5497.5	5849.7	3249.2	1589.8	875.5
85°	362.1	388.0	521.3	752.1	1512.2	2089.2	2087.2	2308.0	1530.1	1022.7	461.6
87.5°	173.1	193.0	278.6	390.0	762.1	783.9	734.2	831.7	929.2	670.5	232.8
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°	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3	5923.3
2.5°	5919.3	5911.4	5885.5	5865.6	5861.6	5849.7	5839.8	5845.7	5853.7	5855.7	5855.7
5°	5917.4	5895.5	5861.6	5847.7	5865.6	5889.5	5919.3	5959.1	5983.0	6000.9	6012.9
7.5°	6012.9	5971.1	5933.3	5925.3	5961.1	6024.8	6092.5	6176.0	6233.7	6273.5	6281.5
10°	6172.0	6120.3	6082.5	6090.5	6154.1	6245.7	6341.2	6448.6	6536.2	6589.9	6593.9
12.5°	6355.1	6305.3	6269.5	6303.4	6408.8	6520.2	6619.7	6713.2	6792.8	6846.5	6846.5
15°	6566.0	6530.2	6488.4	6566.0	6709.3	6808.7	6850.5	6896.3	6940.1	6979.9	6971.9
17.5°	6768.9	6735.1	6713.2	6804.8	6954.0	6999.8	6971.9	6938.1	6938.1	6960.0	6963.9
20°	6944.0	6914.2	6928.1	7017.7	7095.3	7047.5	6944.0	6836.6	6792.8	6804.8	6816.7
22.5°	7097.2	7083.3	7125.1	7166.9	7111.2	6944.0	6753.0	6607.8	6554.1	6550.1	6554.1
25°	7276.3	7274.3	7326.1	7250.5	7003.7	6695.3	6438.7	6297.4	6267.5	6291.4	6331.2
27.5°	7499.2	7521.1	7546.9	7270.4	6784.9	6319.3	6058.6	5961.1	5991.0	6048.7	6086.5
30°	7783.7	7843.4	7787.7	7220.6	6470.5	5889.5	5640.8	5612.9	5694.5	5776.1	5815.9
32.5°	8060.3	8153.8	8018.5	7091.3	6064.6	5433.9	5240.9	5232.9	5332.4	5412.0	5467.7
35°	8283.1	8468.2	8191.6	6834.6	5595.0	5014.0	4872.8	4819.0	4854.9	4948.4	5012.0
37.5°	8573.6	8882.0	8311.0	6442.6	5085.7	4667.8	4502.7	4379.3	4347.5	4385.3	4417.1
40°	9104.9	9512.7	8366.7	5895.5	4588.2	4321.6	4154.5	3973.4	3848.1	3756.5	3758.5
42.5°	9972.4	10334.5	8330.9	5230.9	4128.6	3983.4	3794.4	3585.4	3382.5	3175.6	3159.6
45°	11381.1	11556.2	8223.4	4526.6	3724.7	3629.2	3452.1	3243.2	2972.6	2737.8	2715.9
47.5°	13635.4	13247.4	8056.3	3911.7	3368.6	3328.8	3165.6	2924.9	2638.3	2449.3	2433.4
50°	16709.5	15688.8	7974.7	3422.3	3054.2	3066.1	2932.8	2678.1	2407.5	2268.3	2252.3
52.5°	20386.4	18532.0	8131.9	3044.2	2801.5	2843.3	2743.8	2505.0	2278.2	2168.8	2152.9
55°	24200.7	21476.8	8301.0	2769.7	2562.7	2644.3	2610.5	2413.5	2208.6	2107.1	2093.2
57.5°	27465.8	23675.4	7962.8	2546.8	2349.8	2477.2	2507.0	2355.8	2172.7	2081.2	2065.3
60°	29521.1	24560.8	7075.4	2337.9	2180.7	2343.9	2447.3	2339.9	2186.7	2178.7	2166.8
62.5°	30496.1	24483.2	5744.3	2172.7	2075.3	2286.2	2491.1	2429.4	2345.9	2417.5	2423.5
65°	30058.4	23313.3	4277.8	2063.3	1999.6	2308.0	2622.4	2598.5	2391.6	2463.2	2473.2
67.5°	27177.3	20521.7	3167.6	1967.8	1916.1	2369.7	2861.2	2654.3	2302.1	2353.8	2322.0
70°	21966.3	16269.8	2443.3	1860.4	1830.5	2361.8	2968.6	2620.4	2204.6	2216.5	2131.0
72.5°	15147.6	11094.6	1987.7	1760.9	1707.2	2152.9	2893.0	2536.9	2123.0	2031.5	1918.1
75°	8237.3	5955.2	1689.3	1657.4	1490.3	1890.2	2753.7	2477.2	2049.4	1928.0	1864.3
77.5°	3241.2	2471.2	1466.4	1516.1	1303.3	1669.4	2598.5	2363.8	1947.9	1788.7	1756.9
80°	1323.1	1261.5	1215.7	1311.2	1120.2	1460.4	2411.5	2230.5	1826.5	1659.4	1595.7
82.5°	750.1	783.9	945.1	1034.6	909.3	1345.0	2322.0	2123.0	1681.3	1486.3	1410.7
85°	384.0	459.6	658.6	742.2	668.5	1144.1	2138.9	1858.4	1349.0	1138.1	1144.1
87.5°	185.0	256.7	415.8	465.6	433.8	827.7	1597.7	1347.0	1050.6	831.7	805.8
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)