

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: P319143

Luminaire Tested: **GAN-SA9D-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319143
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-SA9D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68881 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

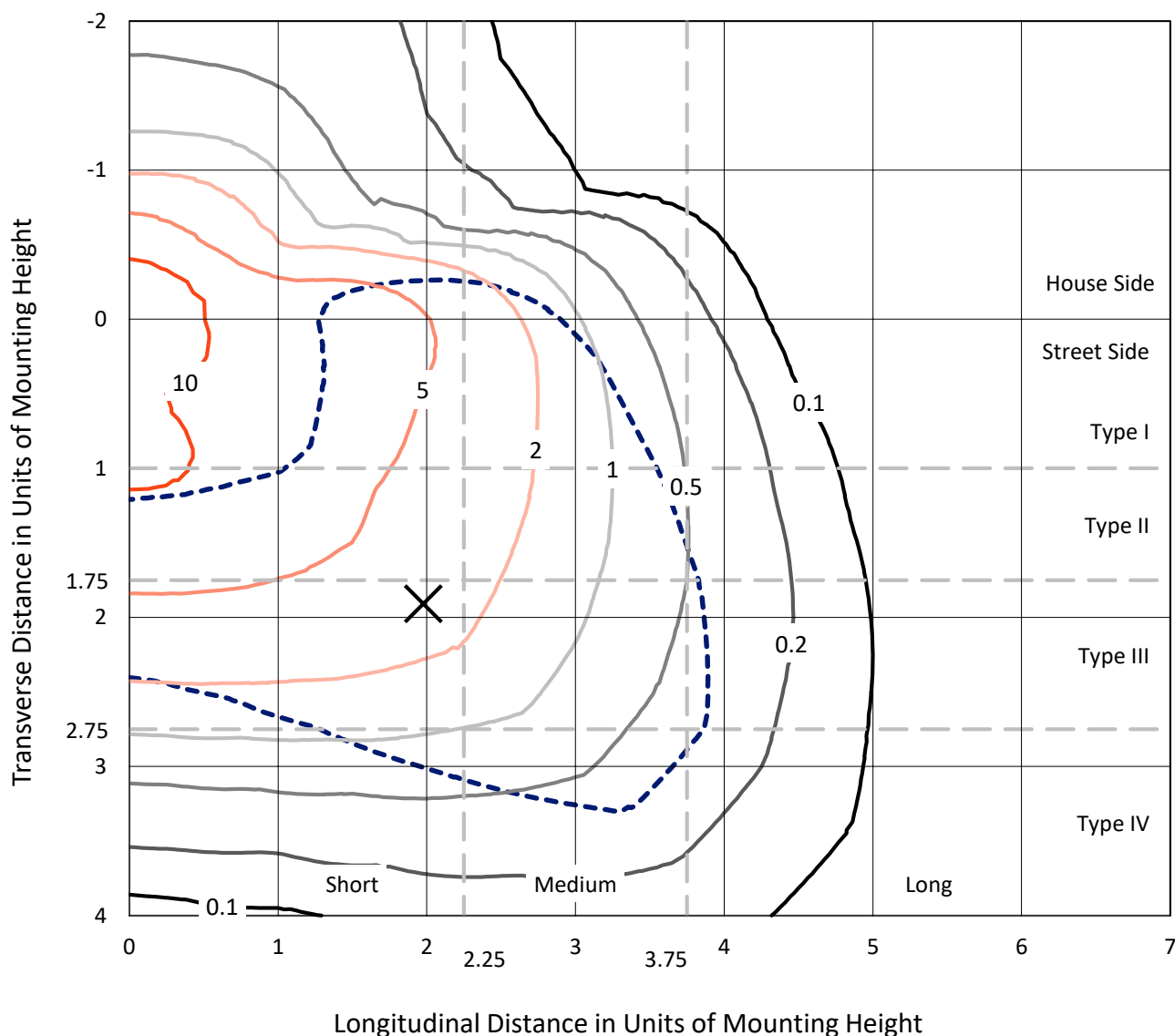
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

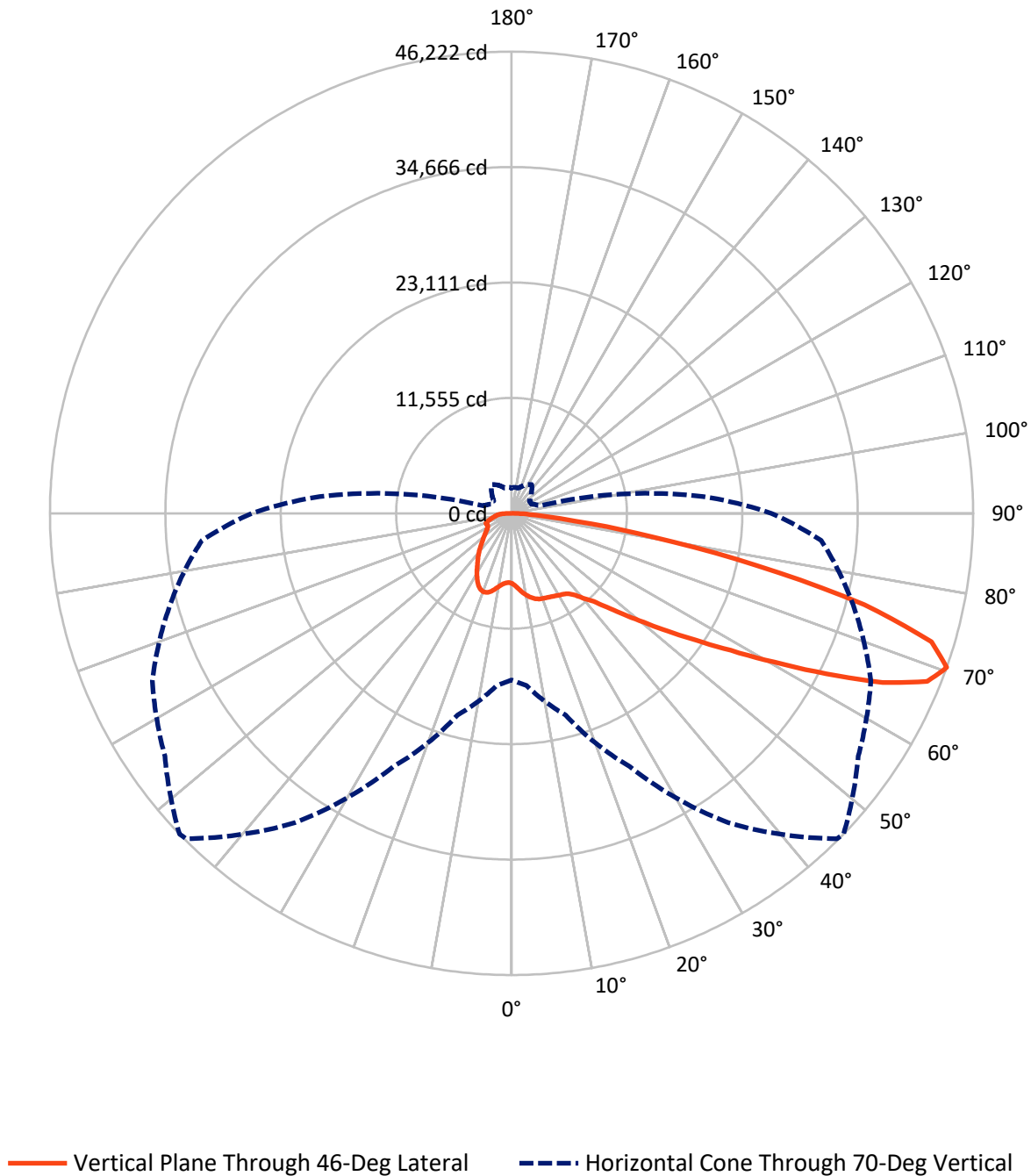
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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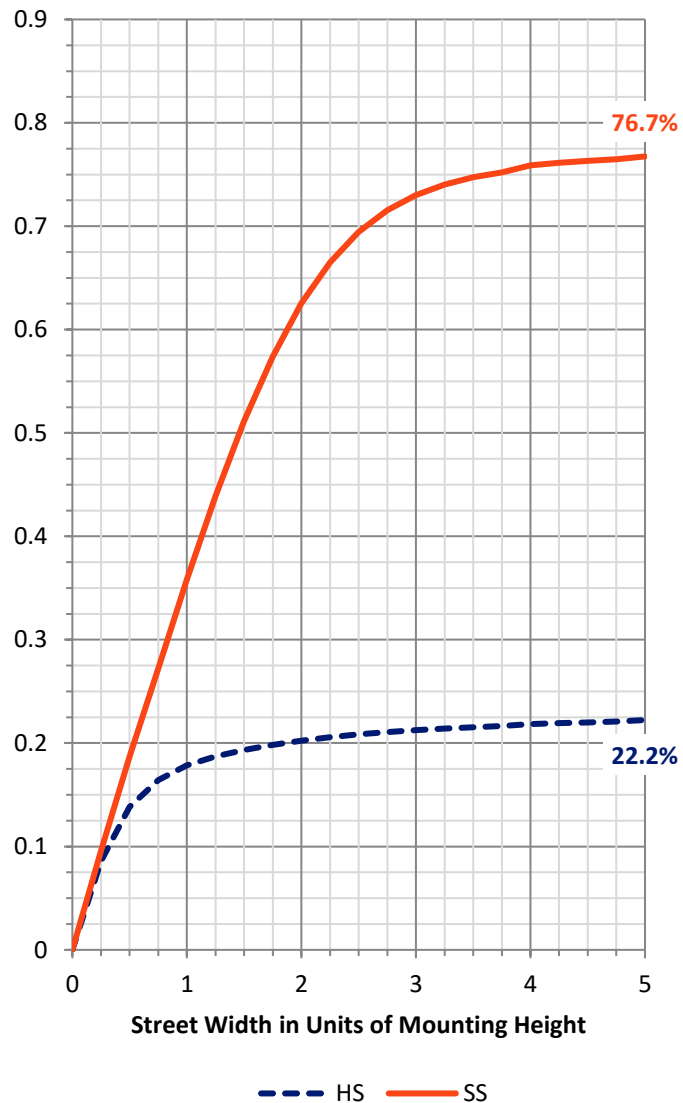
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15787.3	0.0	15787.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	53093.7	0.0	53093.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	68881.0	0.0	68881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.4	1.0
10°-20°	2383.5	3.5
20°-30°	3974.2	5.8
30°-40°	5639.6	8.2
40°-50°	8295.6	12.0
50°-60°	14048.5	20.4
60°-70°	19941.6	29.0
70°-80°	12114.7	17.6
80°-90°	1768.0	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°	68881.0	100.0
0°-180°	68881.0	100.0

Coefficient of Utilization



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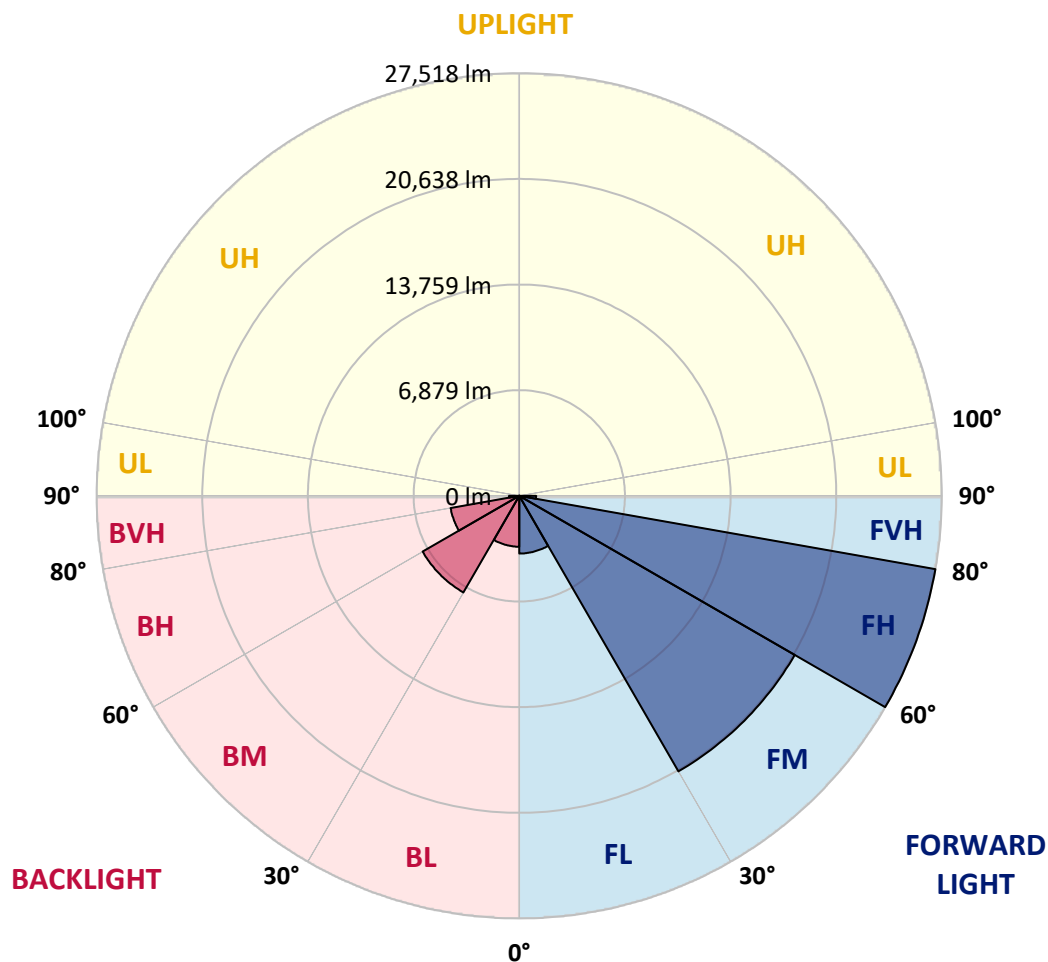
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3758.5	5.5			
FM	(30°-60°)	20716.3	30.1			
FH	(60°-80°)	27517.6	39.9			G5
FVH	(80°-90°)	1101.3	1.6			G5
BL	(0°-30°)	3314.6	4.8	B4/5000		
BM	(30°-60°)	7267.3	10.6	B4/8500		
BH	(60°-80°)	4538.7	6.6	B4/5000		G4/5000
BVH	(80°-90°)	666.7	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°	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6
2.5°	7368.9	7373.6	7383.0	7359.4	7293.4	7274.6	7267.5	7199.1	7154.3	7088.3	7031.8
5°	7958.2	7962.9	7948.8	7882.7	7736.6	7628.2	7618.7	7463.2	7321.7	7170.8	7057.7
7.5°	8573.4	8580.5	8535.7	8410.8	8205.7	8017.1	8005.3	7793.2	7578.7	7350.0	7180.3
10°	9118.0	9089.7	9016.6	8842.2	8599.4	8368.3	8358.9	8137.3	7889.8	7614.0	7387.7
12.5°	9481.0	9457.4	9363.1	9151.0	8884.6	8672.4	8653.6	8448.5	8208.1	7906.3	7635.2
15°	9681.4	9697.9	9570.6	9330.1	9070.8	8891.7	8875.2	8729.0	8514.5	8210.4	7899.2
17.5°	9707.3	9721.4	9598.8	9360.8	9148.6	9026.0	9019.0	8922.3	8766.7	8474.4	8149.1
20°	9556.4	9565.8	9464.5	9268.8	9129.7	9092.0	9089.7	9047.2	8931.7	8672.4	8356.6
22.5°	9337.2	9344.3	9271.2	9129.7	9082.6	9141.5	9158.0	9141.5	9059.0	8816.2	8519.2
25°	9283.0	9278.3	9202.8	9059.0	9099.1	9224.0	9245.3	9252.3	9195.8	8983.6	8726.7
27.5°	9544.6	9528.1	9384.3	9153.3	9179.3	9330.1	9358.4	9426.8	9391.4	9205.2	8962.4
30°	10301.3	10273.0	9978.4	9511.6	9384.3	9462.1	9497.5	9605.9	9613.0	9457.4	9275.9
32.5°	11579.0	11543.6	11015.6	10181.1	9730.9	9596.5	9629.5	9792.1	9879.4	9759.1	9563.5
35°	13193.7	13153.6	12460.6	11319.7	10310.7	9853.4	9877.0	10006.7	10181.1	10011.4	9752.1
37.5°	14876.8	14780.2	14113.0	12658.6	11232.4	10402.7	10402.7	10419.2	10501.7	10148.1	9973.7
40°	16550.5	16453.8	15850.4	14233.3	12425.2	11267.8	11213.6	10848.2	10782.2	10478.1	10419.2
42.5°	18106.3	18078.0	17722.0	16013.0	13825.5	12118.8	12043.3	11423.4	11437.5	11248.9	11251.3
45°	19761.1	19761.1	19471.1	17809.3	15456.7	13486.0	13410.6	12498.3	12639.7	12552.5	12762.3
47.5°	21111.8	21154.2	21114.2	19680.9	17354.3	15223.3	15086.6	13988.1	14384.1	14683.5	15294.0
50°	22490.8	22556.8	22563.9	21734.1	19647.9	17288.3	17132.7	15965.9	16849.8	17707.9	18907.8
52.5°	24492.2	24640.7	24049.0	23782.6	22457.8	19739.9	19586.6	18509.4	19985.0	21189.6	23256.9
55°	26347.3	26217.7	25795.7	25960.7	25465.7	22530.9	22415.4	21470.1	23478.5	25043.8	27728.7
57.5°	27351.5	27342.1	27766.4	28473.6	28709.3	25972.5	25875.9	24956.5	27417.5	28593.8	31927.0
60°	28530.2	28546.7	29598.0	31203.3	32174.5	30258.1	30215.6	29517.9	31243.4	31908.2	35220.1
62.5°	28695.2	28992.2	30802.6	33565.3	35418.1	35264.9	35359.2	33626.6	34666.2	34553.0	37678.8
65°	26797.6	27188.9	30465.5	34279.6	38642.9	40740.9	40828.1	37758.9	37365.3	36813.7	38558.0
67.5°	22908.1	23487.9	27047.4	32726.1	39706.0	44788.3	44910.9	40962.5	39604.7	37579.8	36441.2
70°	16670.7	17314.2	20897.3	27950.3	37810.8	46082.5	46221.6	42379.2	39689.5	35399.3	31109.0
72.5°	10070.3	10574.8	13528.4	20576.7	31912.9	43725.2	43972.7	40583.0	36236.1	29984.6	22971.7
75°	4422.3	4752.3	6541.5	11857.1	22846.8	36177.2	36486.0	34736.9	29442.4	21790.7	13577.9
77.5°	1883.5	1977.8	2682.6	5150.7	12915.5	24720.8	25145.1	25380.8	19975.6	11857.1	5737.6
80°	1173.9	1211.6	1518.1	2331.4	6044.1	13884.4	14341.7	14933.4	9919.4	4358.6	2003.7
82.5°	714.3	756.7	1008.9	1409.7	3147.0	6293.9	6513.2	6930.4	3849.4	1883.5	1037.2
85°	429.0	459.7	617.6	891.1	1791.5	2475.1	2472.8	2734.4	1812.7	1211.6	546.9
87.5°	205.1	228.7	330.0	462.0	902.8	928.8	869.8	985.3	1100.9	794.4	275.8
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°	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6	7017.6
2.5°	7012.9	7003.5	6972.8	6949.3	6944.5	6930.4	6918.6	6925.7	6935.1	6937.5	6937.5
5°	7010.6	6984.6	6944.5	6928.0	6949.3	6977.6	7012.9	7060.1	7088.3	7109.6	7123.7
7.5°	7123.7	7074.2	7029.4	7020.0	7062.4	7137.8	7218.0	7317.0	7385.4	7432.5	7441.9
10°	7312.3	7251.0	7206.2	7215.6	7291.1	7399.5	7512.7	7639.9	7743.7	7807.3	7812.0
12.5°	7529.2	7470.2	7427.8	7467.9	7592.8	7724.8	7842.7	7953.5	8047.8	8111.4	8111.4
15°	7779.0	7736.6	7687.1	7779.0	7948.8	8066.6	8116.1	8170.3	8222.2	8269.3	8259.9
17.5°	8019.5	7979.4	7953.5	8061.9	8238.7	8292.9	8259.9	8219.8	8219.8	8245.8	8250.5
20°	8226.9	8191.6	8208.1	8314.1	8406.1	8349.5	8226.9	8099.6	8047.8	8061.9	8076.0
22.5°	8408.4	8391.9	8441.4	8490.9	8424.9	8226.9	8000.6	7828.5	7764.9	7760.2	7764.9
25°	8620.6	8618.2	8679.5	8589.9	8297.6	7932.3	7628.2	7460.8	7425.4	7453.7	7500.9
27.5°	8884.6	8910.5	8941.2	8613.5	8038.3	7486.7	7177.9	7062.4	7097.8	7166.1	7210.9
30°	9221.7	9292.4	9226.4	8554.6	7665.9	6977.6	6682.9	6649.9	6746.5	6843.2	6890.3
32.5°	9549.3	9660.1	9499.8	8401.3	7185.0	6437.7	6209.1	6199.6	6317.5	6411.8	6477.8
35°	9813.4	10032.6	9704.9	8097.3	6628.7	5940.3	5773.0	5709.3	5751.8	5862.6	5938.0
37.5°	10157.5	10522.9	9846.4	7632.9	6025.2	5530.2	5334.5	5188.4	5150.7	5195.4	5233.2
40°	10786.9	11270.2	9912.4	6984.6	5435.9	5120.0	4922.0	4707.5	4559.0	4450.5	4452.9
42.5°	11814.7	12243.7	9869.9	6197.3	4891.4	4719.3	4495.3	4247.8	4007.4	3762.2	3743.4
45°	13483.6	13691.1	9742.6	5362.8	4412.8	4299.7	4089.9	3842.4	3521.8	3243.6	3217.7
47.5°	16154.4	15694.8	9544.6	4634.4	3990.9	3943.7	3750.4	3465.2	3125.8	2901.8	2883.0
50°	19796.4	18587.2	9448.0	4054.5	3618.4	3632.6	3474.6	3172.9	2852.3	2687.3	2668.4
52.5°	24152.7	21955.7	9634.2	3606.6	3319.1	3368.6	3250.7	2967.8	2699.1	2569.4	2550.6
55°	28671.6	25444.5	9834.6	3281.3	3036.2	3132.8	3092.8	2859.4	2616.6	2496.4	2479.9
57.5°	32539.9	28049.3	9433.8	3017.3	2783.9	2934.8	2970.2	2791.0	2574.2	2465.7	2446.9
60°	34975.0	29098.3	8382.5	2769.8	2583.6	2776.9	2899.5	2772.2	2590.7	2581.2	2567.1
62.5°	36130.0	29006.3	6805.5	2574.2	2458.6	2708.5	2951.3	2878.2	2779.2	2864.1	2871.2
65°	35611.4	27620.3	5068.2	2444.5	2369.1	2734.4	3106.9	3078.6	2833.5	2918.3	2930.1
67.5°	32198.1	24313.0	3752.8	2331.4	2270.1	2807.5	3389.8	3144.6	2727.4	2788.7	2750.9
70°	26024.4	19275.5	2894.7	2204.1	2168.7	2798.1	3517.1	3104.5	2611.9	2626.0	2524.6
72.5°	17946.0	13144.2	2354.9	2086.2	2022.5	2550.6	3427.5	3005.5	2515.2	2406.8	2272.4
75°	9759.1	7055.3	2001.3	1963.6	1765.6	2239.4	3262.5	2934.8	2428.0	2284.2	2208.8
77.5°	3840.0	2927.7	1737.3	1796.2	1544.0	1977.8	3078.6	2800.4	2307.8	2119.2	2081.5
80°	1567.6	1494.5	1440.3	1553.4	1327.1	1730.2	2857.0	2642.5	2164.0	1966.0	1890.5
82.5°	888.7	928.8	1119.7	1225.8	1077.3	1593.5	2750.9	2515.2	1991.9	1760.9	1671.3
85°	455.0	544.5	780.3	879.3	792.0	1355.4	2534.1	2201.7	1598.2	1348.4	1355.4
87.5°	219.2	304.1	492.7	551.6	513.9	980.6	1892.9	1595.9	1244.6	985.3	954.7
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)