

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: P319123

Luminaire Tested: **GAN-SA9B-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319123
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-SA9B-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50731 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

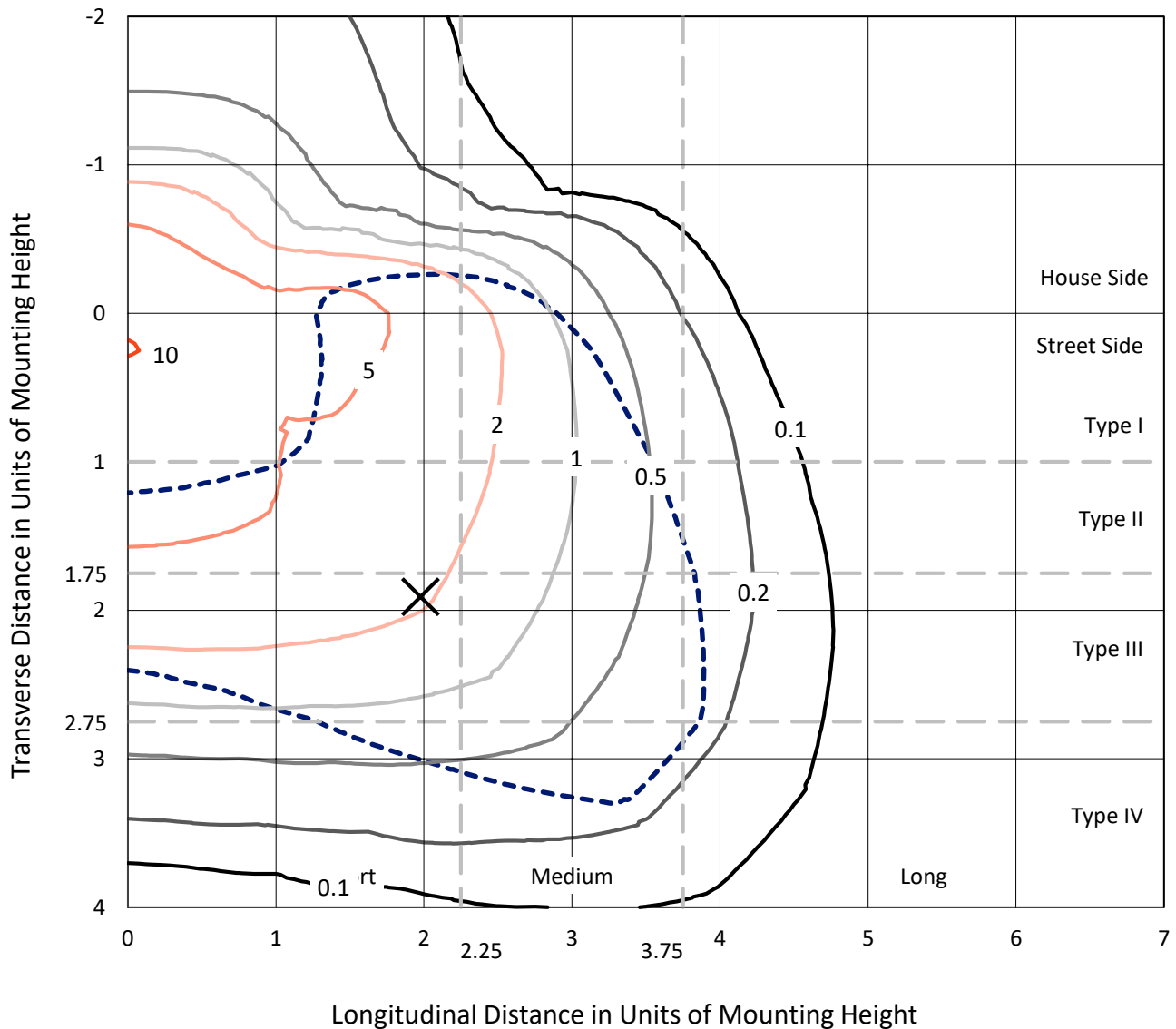
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

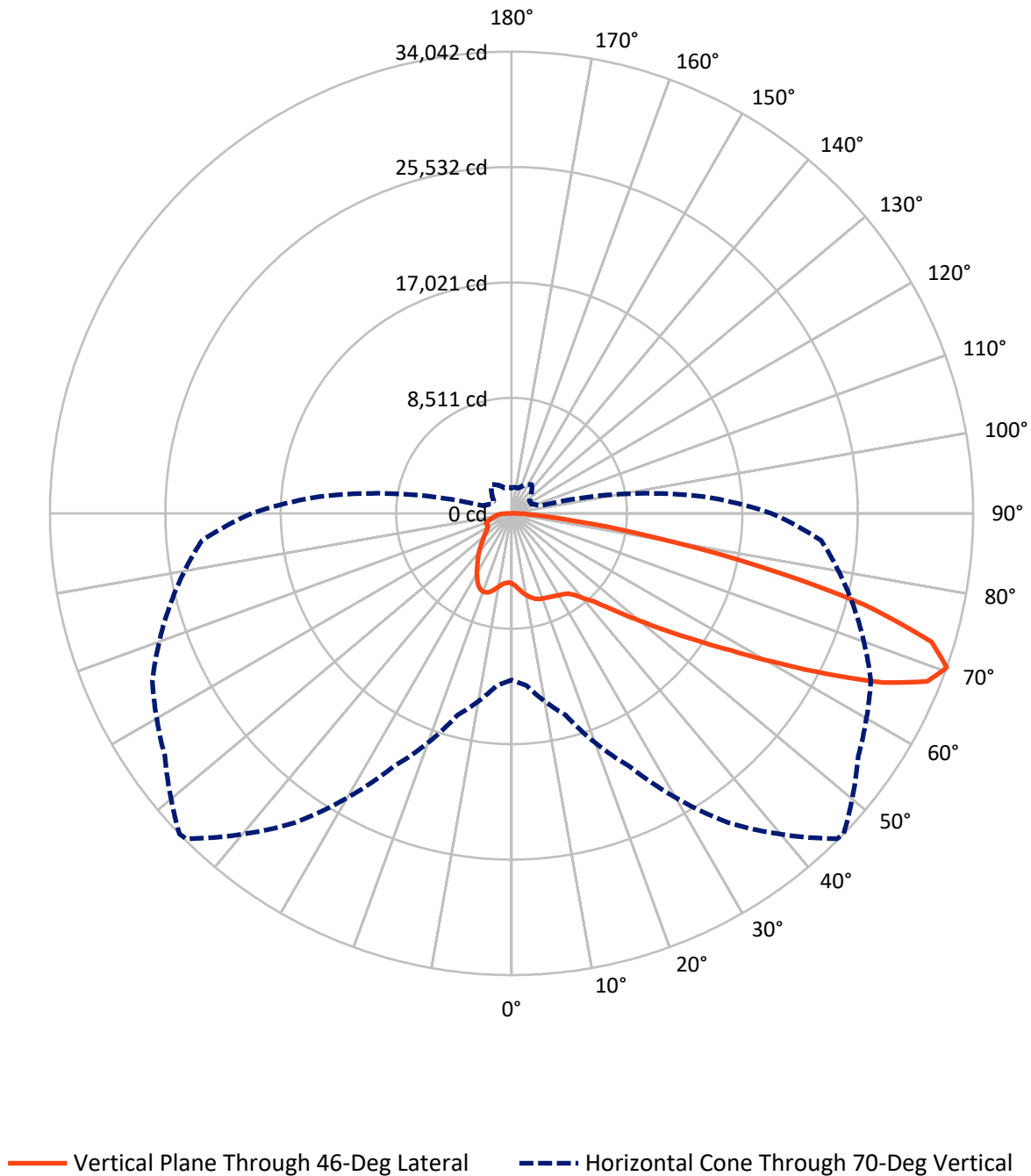
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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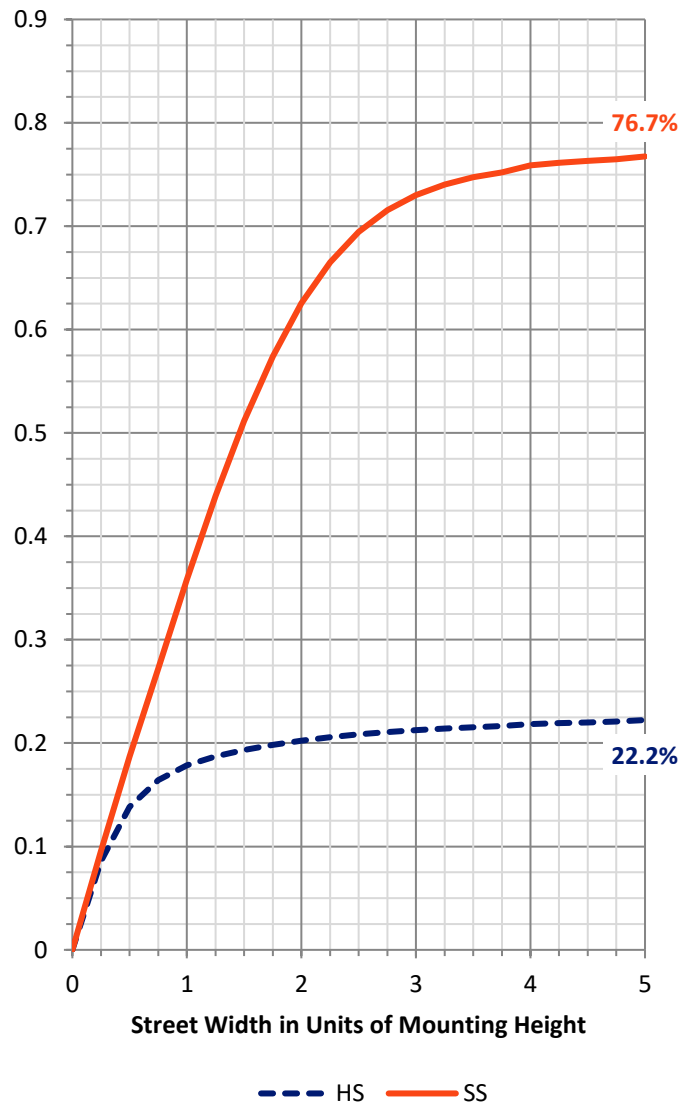
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11627.4	0.0	11627.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39103.6	0.0	39103.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	50731.0	0.0	50731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	1.0
10°-20°	1755.4	3.5
20°-30°	2927.0	5.8
30°-40°	4153.6	8.2
40°-50°	6109.7	12.0
50°-60°	10346.7	20.4
60°-70°	14687.0	29.0
70°-80°	8922.5	17.6
80°-90°	1302.1	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°	50731.0	100.0
0°-180°	50731.0	100.0

Coefficient of Utilization



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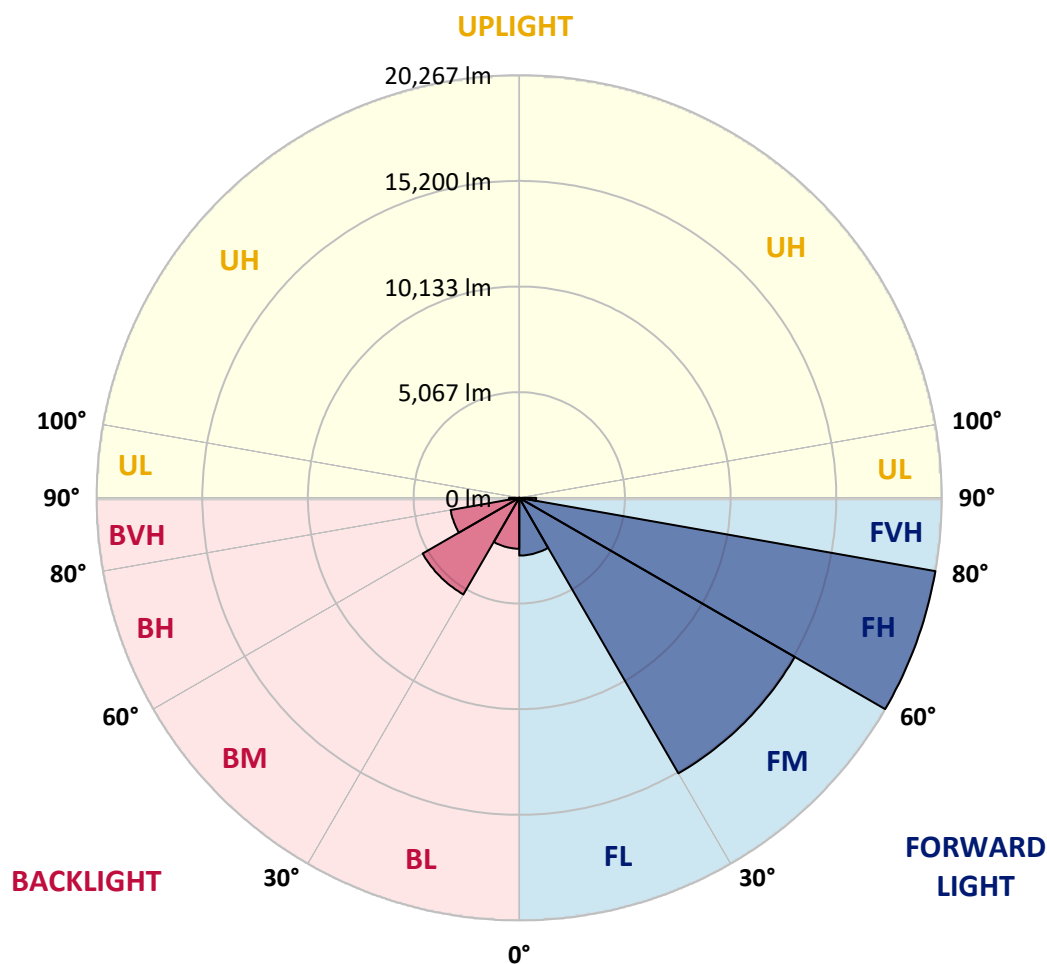
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2768.1	5.5			
FM	(30°-60°)	15257.6	30.1			
FH	(60°-80°)	20266.7	39.9			G5
FVH	(80°-90°)	811.1	1.6			G5
BL	(0°-30°)	2441.2	4.8	B3/2500		
BM	(30°-60°)	5352.4	10.6	B4/8500		
BH	(60°-80°)	3342.8	6.6	B4/5000		G4/5000
BVH	(80°-90°)	491.0	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5
2.5°	5427.2	5430.7	5437.6	5420.2	5371.6	5357.7	5352.5	5302.2	5269.2	5220.6	5178.9
5°	5861.2	5864.7	5854.3	5805.7	5698.0	5618.2	5611.2	5496.6	5392.5	5281.3	5198.0
7.5°	6314.3	6319.6	6286.6	6194.6	6043.5	5904.6	5895.9	5739.7	5581.7	5413.3	5288.3
10°	6715.4	6694.6	6640.7	6512.3	6333.4	6163.3	6156.4	5993.2	5810.9	5607.7	5441.1
12.5°	6982.8	6965.4	6896.0	6739.7	6543.5	6387.3	6373.4	6222.3	6045.2	5823.0	5623.4
15°	7130.3	7142.5	7048.7	6871.7	6680.7	6548.7	6536.6	6428.9	6270.9	6047.0	5817.8
17.5°	7149.4	7159.9	7069.6	6894.2	6738.0	6647.7	6642.5	6571.3	6456.7	6241.4	6001.8
20°	7038.3	7045.3	6970.6	6826.5	6724.1	6696.3	6694.6	6663.3	6578.2	6387.3	6154.6
22.5°	6876.9	6882.1	6828.2	6724.1	6689.4	6732.8	6744.9	6732.8	6672.0	6493.2	6274.4
25°	6836.9	6833.5	6777.9	6672.0	6701.5	6793.5	6809.2	6814.4	6772.7	6616.4	6427.2
27.5°	7029.6	7017.5	6911.6	6741.4	6760.5	6871.7	6892.5	6942.8	6916.8	6779.6	6600.8
30°	7586.9	7566.1	7349.1	7005.3	6911.6	6968.9	6994.9	7074.8	7080.0	6965.4	6831.7
32.5°	8527.9	8501.9	8113.0	7498.4	7166.8	7067.8	7092.1	7211.9	7276.2	7187.6	7043.5
35°	9717.2	9687.7	9177.2	8337.0	7593.9	7257.1	7274.4	7369.9	7498.4	7373.4	7182.4
37.5°	10956.8	10885.6	10394.3	9323.1	8272.7	7661.6	7661.6	7673.7	7734.5	7474.1	7345.6
40°	12189.5	12118.3	11673.8	10482.8	9151.2	8298.8	8258.8	7989.7	7941.1	7717.2	7673.7
42.5°	13335.3	13314.5	13052.3	11793.6	10182.5	8925.5	8870.0	8413.3	8423.8	8284.9	8286.6
45°	14554.1	14554.1	14340.5	13116.6	11383.9	9932.5	9876.9	9205.0	9309.2	9245.0	9399.5
47.5°	15548.9	15580.1	15550.6	14495.1	12781.5	11212.0	11111.3	10302.3	10593.9	10814.4	11264.1
50°	16564.5	16613.1	16618.4	16007.2	14470.7	12732.9	12618.3	11758.9	12409.9	13041.9	13925.6
52.5°	18038.5	18147.9	17712.1	17515.9	16540.2	14538.5	14425.6	13632.2	14719.0	15606.2	17128.8
55°	19404.9	19309.4	18998.6	19120.1	18755.5	16594.0	16509.0	15812.8	17292.0	18444.8	20422.2
57.5°	20144.5	20137.5	20450.0	20970.9	21144.5	19128.8	19057.6	18380.5	20193.1	21059.4	23514.3
60°	21012.5	21024.7	21799.0	22981.3	23696.6	22285.1	22253.9	21740.0	23010.8	23500.4	25939.7
62.5°	21134.1	21352.8	22686.2	24720.9	26085.5	25972.7	26042.1	24766.1	25531.7	25448.4	27750.5
65°	19736.5	20024.7	22437.9	25247.0	28460.6	30005.7	30070.0	27809.5	27519.6	27113.3	28398.1
67.5°	16871.8	17298.9	19920.5	24102.9	29243.6	32986.7	33077.0	30168.9	29168.9	27677.6	26839.0
70°	12278.0	12752.0	15390.9	20585.4	27847.7	33939.8	34042.3	31212.4	29231.4	26071.7	22911.9
72.5°	7416.8	7788.3	9963.7	15154.8	23503.9	32203.7	32386.0	29889.4	26688.0	22083.7	16918.7
75°	3257.0	3500.1	4817.8	8732.8	16826.7	26644.6	26872.0	25583.8	21684.4	16048.9	10000.2
77.5°	1387.2	1456.6	1975.7	3793.5	9512.3	18206.9	18519.4	18693.0	14712.1	8732.8	4225.8
80°	864.6	892.4	1118.1	1717.0	4451.5	10225.9	10562.7	10998.5	7305.7	3210.1	1475.7
82.5°	526.1	557.3	743.1	1038.2	2317.8	4635.5	4797.0	5104.3	2835.1	1387.2	763.9
85°	316.0	338.5	454.9	656.3	1319.5	1822.9	1821.2	2013.9	1335.1	892.4	402.8
87.5°	151.0	168.4	243.1	340.3	664.9	684.0	640.6	725.7	810.8	585.1	203.1
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°	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5	5168.5
2.5°	5165.0	5158.1	5135.5	5118.1	5114.7	5104.3	5095.6	5100.8	5107.7	5109.5	5109.5
5°	5163.3	5144.2	5114.7	5102.5	5118.1	5139.0	5165.0	5199.7	5220.6	5236.2	5246.6
7.5°	5246.6	5210.2	5177.2	5170.2	5201.5	5257.0	5316.1	5389.0	5439.3	5474.1	5481.0
10°	5385.5	5340.4	5307.4	5314.3	5369.9	5449.8	5533.1	5626.8	5703.2	5750.1	5753.6
12.5°	5545.2	5501.8	5470.6	5500.1	5592.1	5689.3	5776.1	5857.7	5927.2	5974.1	5974.1
15°	5729.3	5698.0	5661.6	5729.3	5854.3	5941.1	5977.5	6017.5	6055.7	6090.4	6083.4
17.5°	5906.4	5876.8	5857.7	5937.6	6067.8	6107.7	6083.4	6053.9	6053.9	6073.0	6076.5
20°	6059.1	6033.1	6045.2	6123.4	6191.1	6149.4	6059.1	5965.4	5927.2	5937.6	5948.0
22.5°	6192.8	6180.7	6217.1	6253.6	6205.0	6059.1	5892.5	5765.7	5718.9	5715.4	5718.9
25°	6349.1	6347.3	6392.5	6326.5	6111.2	5842.1	5618.2	5494.9	5468.8	5489.7	5524.4
27.5°	6543.5	6562.6	6585.2	6343.9	5920.2	5514.0	5286.6	5201.5	5227.5	5277.9	5310.9
30°	6791.8	6843.9	6795.3	6300.5	5645.9	5139.0	4922.0	4897.7	4968.8	5040.0	5074.7
32.5°	7033.1	7114.7	6996.7	6187.6	5291.8	4741.4	4573.0	4566.1	4652.9	4722.3	4770.9
35°	7227.6	7389.0	7147.7	5963.6	4882.0	4375.1	4251.8	4204.9	4236.2	4317.8	4373.3
37.5°	7481.0	7750.1	7251.9	5621.6	4437.6	4073.0	3928.9	3821.2	3793.5	3826.5	3854.2
40°	7944.6	8300.5	7300.5	5144.2	4003.5	3770.9	3625.1	3467.1	3357.7	3277.8	3279.6
42.5°	8701.5	9017.5	7269.2	4564.3	3602.5	3475.8	3310.8	3128.5	2951.4	2770.9	2757.0
45°	9930.7	10083.5	7175.5	3949.7	3250.1	3166.7	3012.2	2829.9	2593.8	2388.9	2369.8
47.5°	11897.8	11559.2	7029.6	3413.3	2939.3	2904.6	2762.2	2552.1	2302.1	2137.2	2123.3
50°	14580.1	13689.5	6958.5	2986.2	2665.0	2675.4	2559.1	2336.8	2100.7	1979.2	1965.3
52.5°	17788.5	16170.4	7095.6	2656.3	2444.5	2480.9	2394.1	2185.8	1987.9	1892.4	1878.5
55°	21116.7	18739.9	7243.2	2416.7	2236.2	2307.3	2277.8	2105.9	1927.1	1838.6	1826.4
57.5°	23965.7	20658.4	6948.0	2222.3	2050.4	2161.5	2187.5	2055.6	1895.9	1816.0	1802.1
60°	25759.1	21430.9	6173.7	2040.0	1902.8	2045.2	2135.5	2041.7	1908.0	1901.1	1890.7
62.5°	26609.9	21363.2	5012.2	1895.9	1810.8	1994.8	2173.7	2119.8	2046.9	2109.4	2114.6
65°	26227.9	20342.4	3732.7	1800.4	1744.8	2013.9	2288.2	2267.4	2086.8	2149.3	2158.0
67.5°	23714.0	17906.6	2763.9	1717.0	1671.9	2067.7	2496.6	2316.0	2008.7	2053.9	2026.1
70°	19167.0	14196.4	2132.0	1623.3	1597.3	2060.8	2590.3	2286.5	1923.6	1934.1	1859.4
72.5°	13217.3	9680.7	1734.4	1536.5	1489.6	1878.5	2524.4	2213.6	1852.5	1772.6	1673.6
75°	7187.6	5196.3	1474.0	1446.2	1300.4	1649.3	2402.8	2161.5	1788.2	1682.3	1626.8
77.5°	2828.2	2156.3	1279.5	1322.9	1137.2	1456.6	2267.4	2062.5	1699.7	1560.8	1533.0
80°	1154.5	1100.7	1060.8	1144.1	977.4	1274.3	2104.2	1946.2	1593.8	1447.9	1392.4
82.5°	654.5	684.0	824.7	902.8	793.4	1173.6	2026.1	1852.5	1467.0	1296.9	1230.9
85°	335.1	401.0	574.7	647.6	583.3	998.3	1866.4	1621.6	1177.1	993.1	998.3
87.5°	161.5	224.0	362.9	406.3	378.5	722.2	1394.1	1175.4	916.7	725.7	703.1
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)