

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: P320094

Luminaire Tested: **GAN-SA0C-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66523 lumens
Efficiency: N/A
Efficacy: 119.2 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

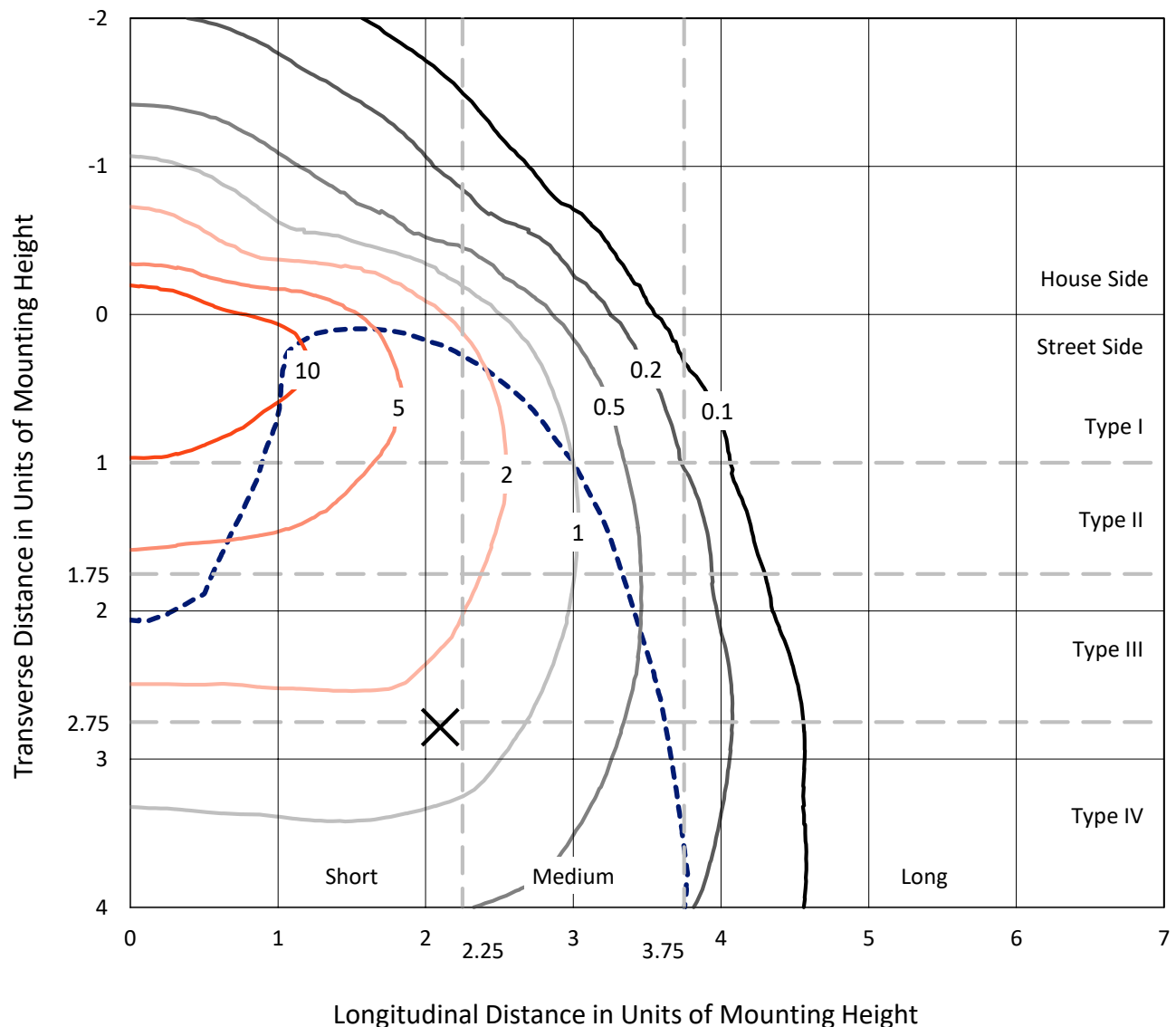


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Iso-Footcandle Lines of Horizontal Illumination

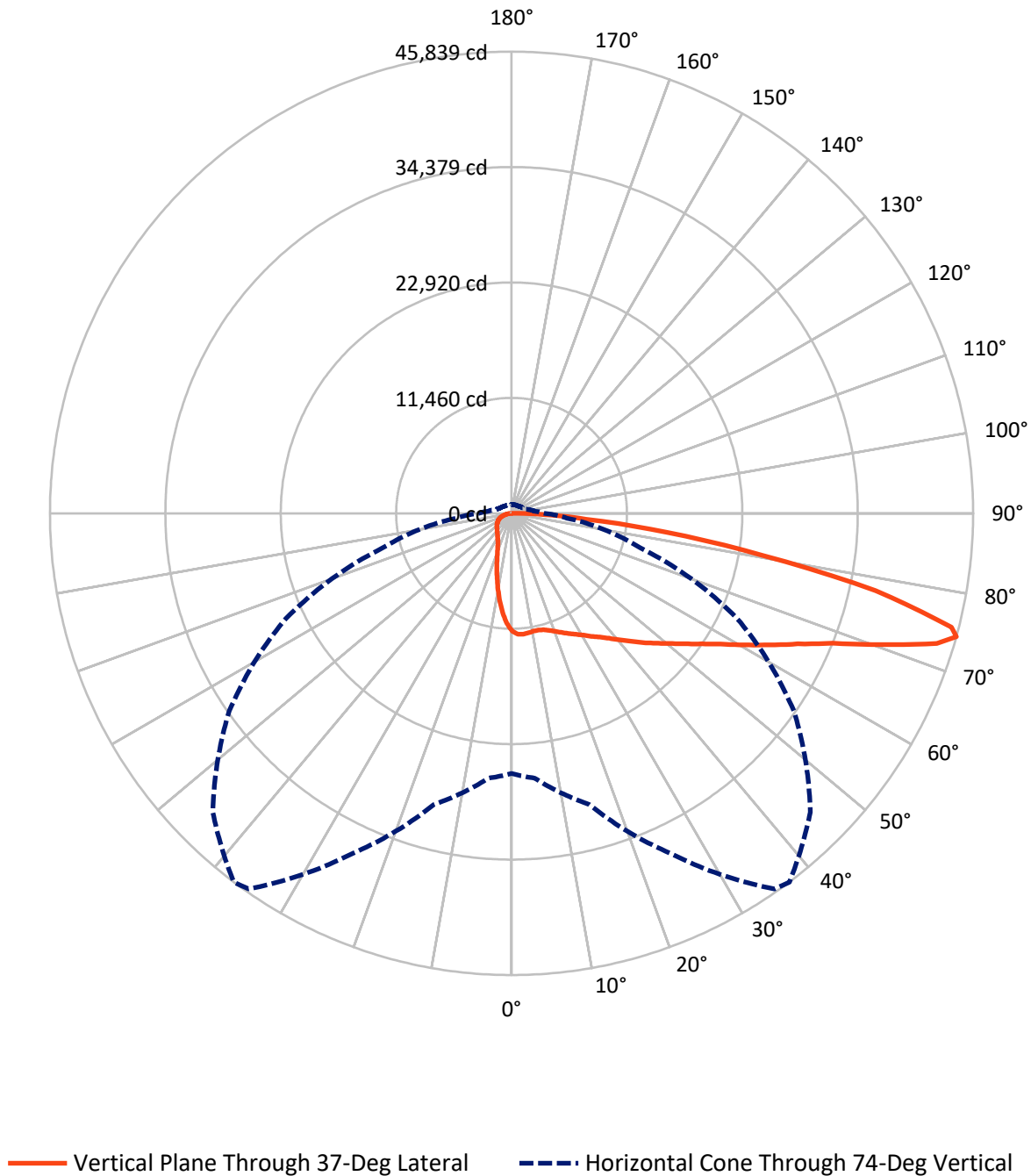
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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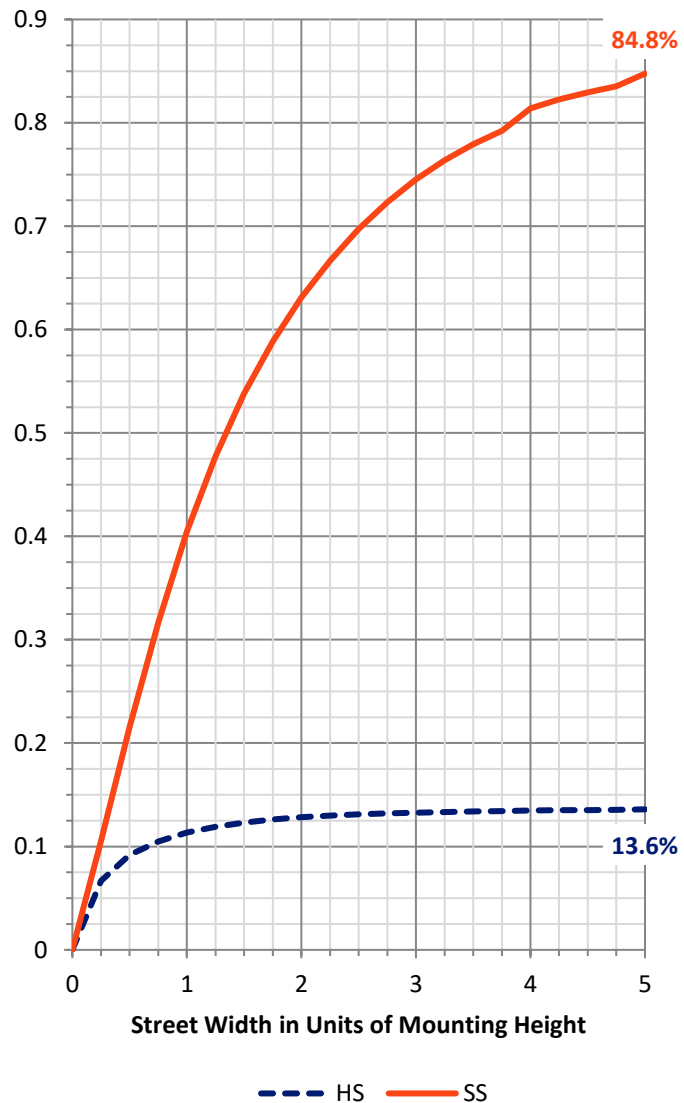
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9153.1	0.0	9153.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	57369.9	0.0	57369.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	66523.0	0.0	66523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.2	1.6
10°-20°	2645.7	4.0
20°-30°	4076.6	6.1
30°-40°	5927.9	8.9
40°-50°	8724.9	13.1
50°-60°	12252.5	18.4
60°-70°	15507.9	23.3
70°-80°	13655.3	20.5
80°-90°	2700.0	4.1
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°	66523.0	100.0
0°-180°	66523.0	100.0

Coefficient of Utilization



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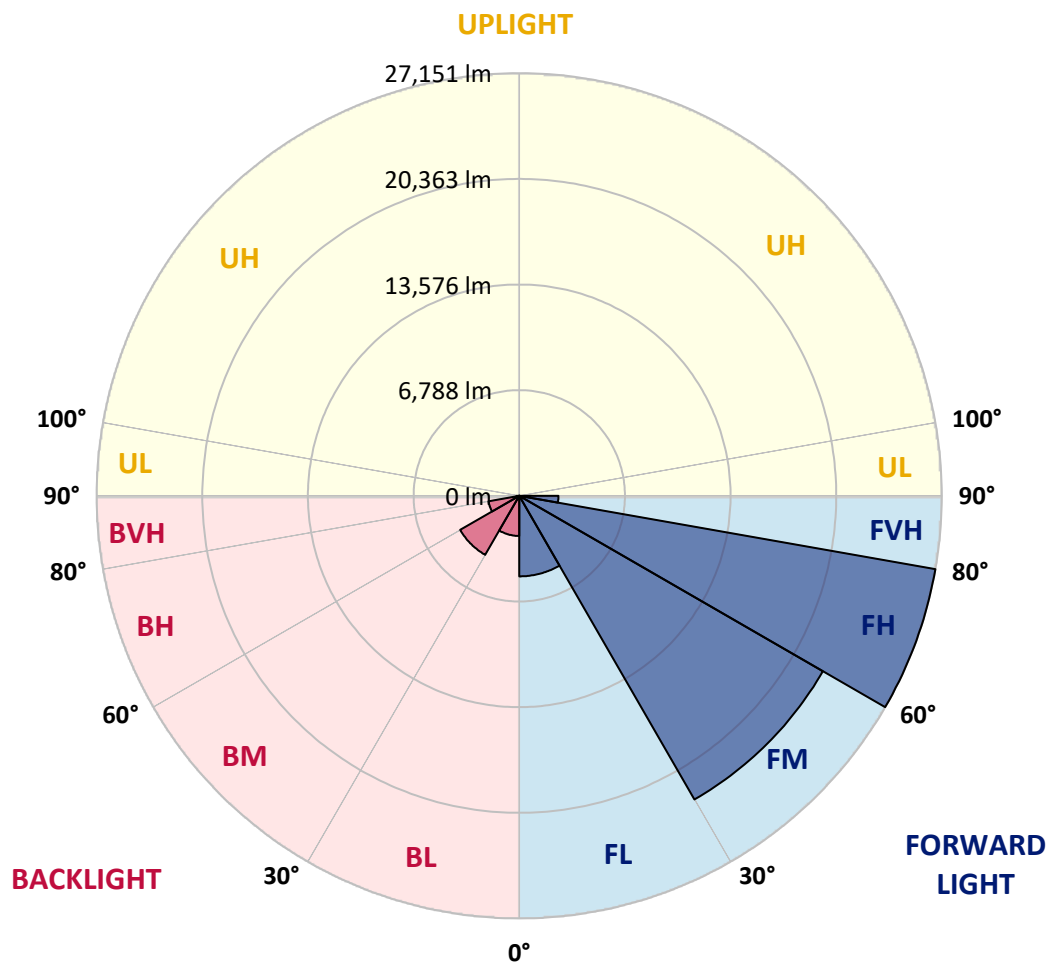
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5176.3	7.8			
FM	(30°-60°)	22525.2	33.9			
FH	(60°-80°)	27151.3	40.8			G5
FVH	(80°-90°)	2517.1	3.8			G5
BL	(0°-30°)	2578.2	3.9	B4/5000		
BM	(30°-60°)	4380.1	6.6	B3/5000		
BH	(60°-80°)	2012.0	3.0	B3/2500		G3/2500
BVH	(80°-90°)	182.8	0.3			G2/225
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°	37°	45°	55°	65°	75°	85°
0°	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1
2.5°	12121.8	12124.1	12121.8	12103.0	12058.5	12021.0	11990.6	11946.0	11847.6	11772.6	11660.2
5°	12236.6	12222.6	12213.2	12178.0	12107.7	12065.6	12007.0	11922.6	11760.9	11611.0	11428.2
7.5°	12182.7	12166.3	12145.2	12103.0	12023.4	11988.2	11906.2	11796.1	11601.6	11404.8	11142.3
10°	12016.3	12011.7	12002.3	11992.9	11925.0	11896.8	11821.9	11704.7	11512.5	11273.5	10966.6
12.5°	11831.2	11842.9	11880.4	11929.6	11899.2	11885.1	11838.3	11758.6	11561.8	11304.0	10933.8
15°	11714.1	11746.9	11847.6	11976.5	12002.3	11997.6	11985.9	11934.3	11725.8	11439.9	11008.7
17.5°	11674.2	11728.1	11920.3	12133.5	12208.5	12224.9	12229.6	12140.5	11908.6	11606.3	11086.1
20°	11746.9	11814.8	12096.0	12388.9	12508.4	12517.8	12496.7	12342.1	12082.0	11749.2	11128.2
22.5°	11967.1	12028.1	12379.6	12710.0	12845.9	12859.9	12796.7	12562.3	12264.7	11917.9	11186.8
25°	12391.3	12466.3	12817.8	13148.2	13218.5	13220.8	13129.4	12838.8	12503.8	12154.6	11313.4
27.5°	12944.3	13019.3	13335.6	13659.0	13621.5	13600.4	13476.2	13185.6	12815.4	12480.3	11538.3
30°	13560.6	13642.6	13942.5	14172.2	14083.1	14040.9	13940.2	13565.3	13248.9	12925.5	11882.8
32.5°	14197.9	14272.9	14535.4	14692.4	14579.9	14561.2	14408.8	14066.7	13813.6	13605.1	12440.5
35°	14851.7	14905.6	15163.4	15252.4	15102.5	15097.8	15055.6	14741.6	14582.2	14680.7	13251.3
37.5°	15519.6	15533.6	15753.9	15758.6	15714.0	15732.8	15777.3	15580.5	15625.0	15932.0	14305.7
40°	16114.7	16152.2	16311.6	16360.8	16438.1	16503.7	16726.3	16597.5	16941.9	17485.6	15618.0
42.5°	16555.3	16627.9	16883.3	17009.9	17260.6	17363.7	17677.7	17797.2	18490.8	19306.3	17178.6
45°	16927.9	17040.3	17450.4	17710.5	18134.7	18315.1	18765.0	19165.7	20241.3	21281.7	18821.2
47.5°	17330.9	17473.9	17987.0	18483.8	19060.3	19264.1	20081.9	20681.8	22108.9	23268.8	20370.1
50°	17923.8	18033.9	18535.4	19315.7	20035.1	20297.5	21429.3	22289.3	24006.9	25162.2	21712.8
52.5°	18750.9	18708.8	19132.9	20227.2	21192.6	21516.0	22868.1	23999.9	25930.8	26875.1	22847.0
55°	19582.8	19512.5	19810.1	21180.9	22542.4	22882.1	24452.1	25717.5	27760.9	28417.0	23716.4
57.5°	20508.4	20374.8	20625.6	22256.5	24079.6	24484.9	26226.0	27542.9	29560.5	29663.6	24269.4
60°	21462.1	21281.7	21562.9	23589.8	26031.5	26509.5	28302.2	29323.8	31257.0	30661.8	24447.5
62.5°	22296.3	22169.8	22603.3	25077.8	28231.9	28756.8	30340.8	31217.2	32930.1	31076.6	23805.4
65°	23025.1	23046.2	23796.0	26750.9	30685.3	31245.3	32679.4	33551.1	34247.1	30830.6	22303.4
67.5°	23894.4	24014.0	25293.4	28953.6	33773.7	34387.7	36081.9	36095.9	34982.9	29387.1	19346.1
70°	25162.2	25408.2	27353.1	32009.2	38165.0	39008.6	40316.2	37590.9	33949.5	25473.8	15222.0
72.5°	26286.9	26746.2	29544.1	35505.4	43517.1	44156.8	42793.0	36728.6	29630.8	19090.7	9483.3
74°	25830.0	26399.4	29942.5	37227.7	45532.3	45839.3	41956.5	34211.9	24705.2	13220.8	5511.4
75°	24845.8	25464.4	29361.3	37211.3	45276.9	45105.8	39936.5	31336.7	20346.7	9016.9	3667.2
77.5°	20051.5	20705.2	24740.4	31892.1	37124.6	36962.9	30678.2	21021.6	8911.5	2957.2	1862.9
80°	11657.8	12156.9	15357.9	20253.0	25033.3	25326.2	20175.7	10401.8	3505.5	1661.4	1263.0
82.5°	5178.7	5523.1	7418.8	10338.6	15107.1	15484.4	10565.9	5450.5	2165.2	1010.0	759.2
85°	3397.8	3653.2	4503.8	4923.2	7193.9	7451.6	5171.6	4243.7	1429.4	555.4	557.7
87.5°	2444.0	2690.1	3346.2	2922.1	3301.7	3125.9	2814.3	3927.3	574.1	316.3	187.5
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°	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1	11721.1
2.5°	11611.0	11573.5	11489.1	11329.8	11240.7	11165.7	11041.5	10968.9	10936.1	10933.8	10947.8
5°	11322.7	11236.0	11018.1	10751.0	10537.7	10343.2	10101.9	9956.6	9853.5	9792.6	9809.0
7.5°	10987.6	10851.7	10509.6	10083.1	9741.0	9363.8	8991.2	8768.6	8595.2	8466.3	8489.7
10°	10758.0	10570.5	10071.4	9457.5	8888.1	8339.7	7826.6	7519.6	7275.9	7088.4	7102.5
12.5°	10680.7	10427.6	9736.3	8916.2	8117.1	7367.3	6697.1	6226.1	5975.4	5762.1	5778.5
15°	10692.4	10352.6	9455.1	8428.8	7423.5	6479.2	5666.1	5115.4	4775.6	4628.0	4630.3
17.5°	10701.8	10265.9	9159.9	7906.2	6736.9	5649.7	4766.2	4208.5	3887.5	3751.6	3753.9
20°	10671.3	10125.3	8794.3	7306.4	6019.9	4888.1	4032.8	3559.4	3315.7	3210.3	3210.3
22.5°	10631.5	9958.9	8381.9	6704.1	5312.2	4227.3	3507.9	3147.0	3006.4	2936.1	2933.8
25°	10650.2	9834.8	7960.1	6085.5	4660.8	3700.0	3158.7	2919.7	2826.0	2781.5	2779.1
27.5°	10751.0	9776.2	7571.1	5469.2	4091.4	3304.0	2924.4	2755.7	2694.8	2666.7	2666.7
30°	10933.8	9776.2	7165.8	4944.3	3618.0	3011.1	2744.0	2629.2	2587.0	2568.2	2568.2
32.5°	11252.4	9830.1	6774.4	4424.1	3240.8	2781.5	2594.0	2516.7	2483.9	2474.5	2474.5
35°	11800.8	10012.8	6392.5	3932.0	2936.1	2594.0	2451.1	2406.6	2383.1	2380.8	2387.8
37.5°	12571.7	10385.4	6034.0	3568.8	2720.5	2441.7	2331.6	2296.4	2282.4	2294.1	2303.4
40°	13541.8	10891.6	5708.2	3240.8	2556.5	2319.8	2221.4	2198.0	2191.0	2207.4	2221.4
42.5°	14713.5	11575.8	5441.1	3004.1	2430.0	2216.7	2127.7	2099.6	2092.6	2111.3	2130.0
45°	15981.2	12311.6	5253.6	2828.3	2331.6	2139.4	2045.7	2015.2	2001.2	2010.5	2031.6
47.5°	17134.1	13007.6	5178.7	2704.1	2237.8	2073.8	1973.0	1935.6	1912.1	1907.4	1923.8
50°	18106.5	13525.4	5213.8	2629.2	2162.8	2001.2	1902.7	1860.6	1825.4	1804.3	1816.0
52.5°	18814.2	13851.1	5246.6	2596.4	2104.3	1921.5	1825.4	1785.6	1738.7	1703.6	1703.6
55°	19327.4	13926.1	5174.0	2570.6	2059.7	1834.8	1738.7	1701.2	1654.4	1614.5	1609.8
57.5°	19528.9	13715.2	4904.5	2533.1	2029.3	1752.8	1647.3	1619.2	1579.4	1532.5	1530.2
60°	19257.1	13063.8	4384.3	2453.4	1989.4	1684.8	1555.9	1537.2	1518.4	1473.9	1471.6
62.5°	18165.1	11634.4	3711.8	2291.7	1909.8	1612.2	1471.6	1481.0	1483.3	1452.8	1448.1
65°	16185.0	9670.7	3055.6	2080.8	1790.3	1525.5	1384.9	1429.4	1455.2	1450.5	1443.5
67.5°	13307.5	7526.6	2589.3	1858.2	1633.3	1406.0	1291.1	1342.7	1363.8	1380.2	1375.5
70°	9876.9	5307.5	2141.8	1623.9	1443.5	1265.4	1169.3	1195.1	1181.0	1199.8	1206.8
72.5°	5506.7	3184.5	1745.7	1389.6	1246.6	1101.3	1033.4	1028.7	998.2	998.2	998.2
74°	3304.0	2336.3	1534.8	1244.3	1127.1	993.6	935.0	913.9	885.8	888.1	885.8
75°	2657.3	2008.2	1408.3	1148.2	1042.8	930.3	871.7	843.6	822.5	822.5	820.1
77.5°	1677.8	1525.5	1134.1	913.9	834.2	766.3	726.4	688.9	688.9	686.6	684.2
80°	1267.7	1213.8	883.4	691.3	639.7	588.2	562.4	546.0	546.0	553.0	550.7
82.5°	869.4	913.9	621.0	482.7	456.9	419.4	414.8	417.1	410.1	400.7	398.4
85°	635.0	686.6	419.4	304.6	278.9	255.4	274.2	283.5	271.8	250.7	241.4
87.5°	243.7	449.9	225.0	126.5	117.2	100.8	117.2	121.9	131.2	103.1	105.4
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)