

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: P319746

Luminaire Tested: **GAN-SA2A-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9536 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

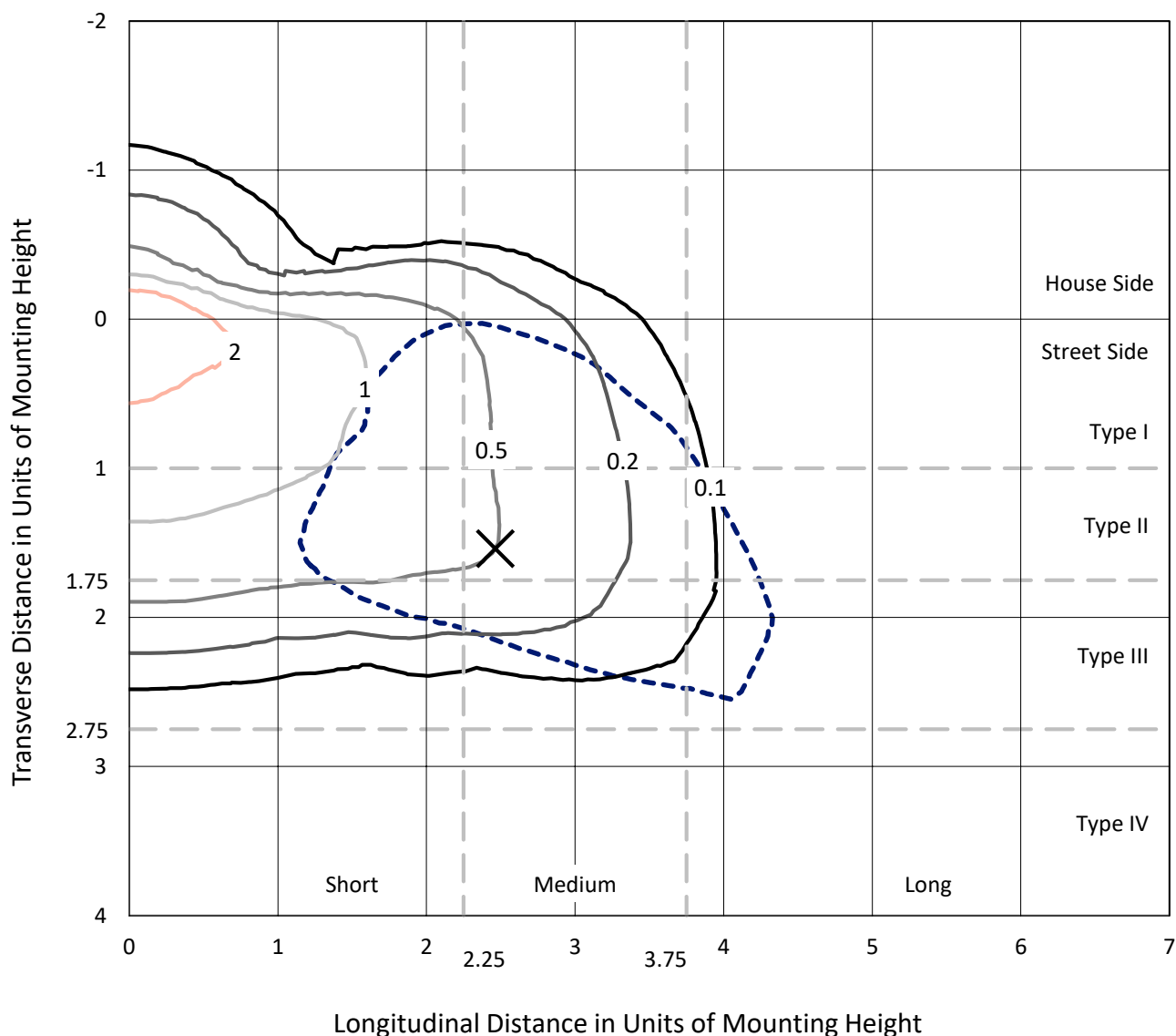
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

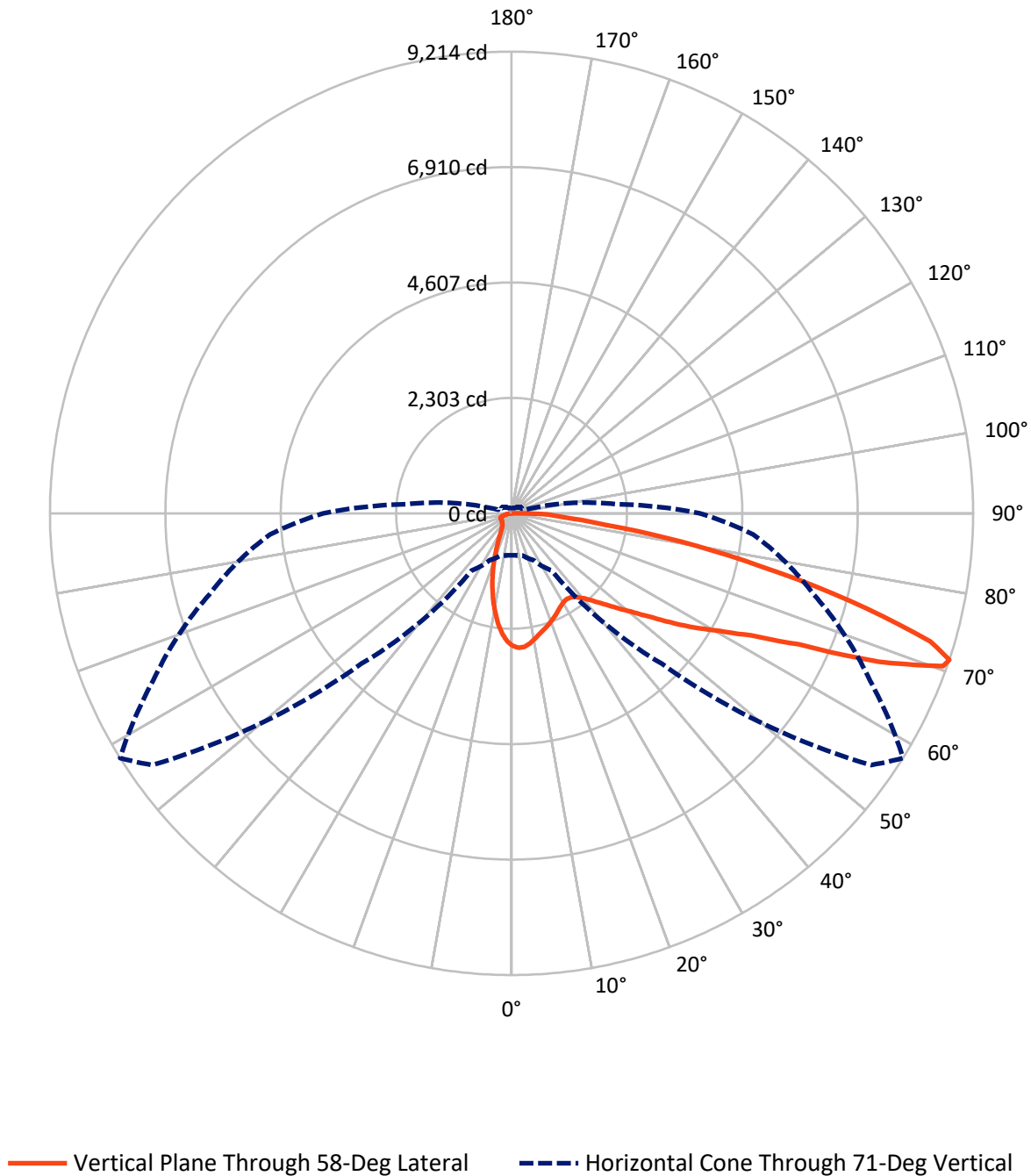
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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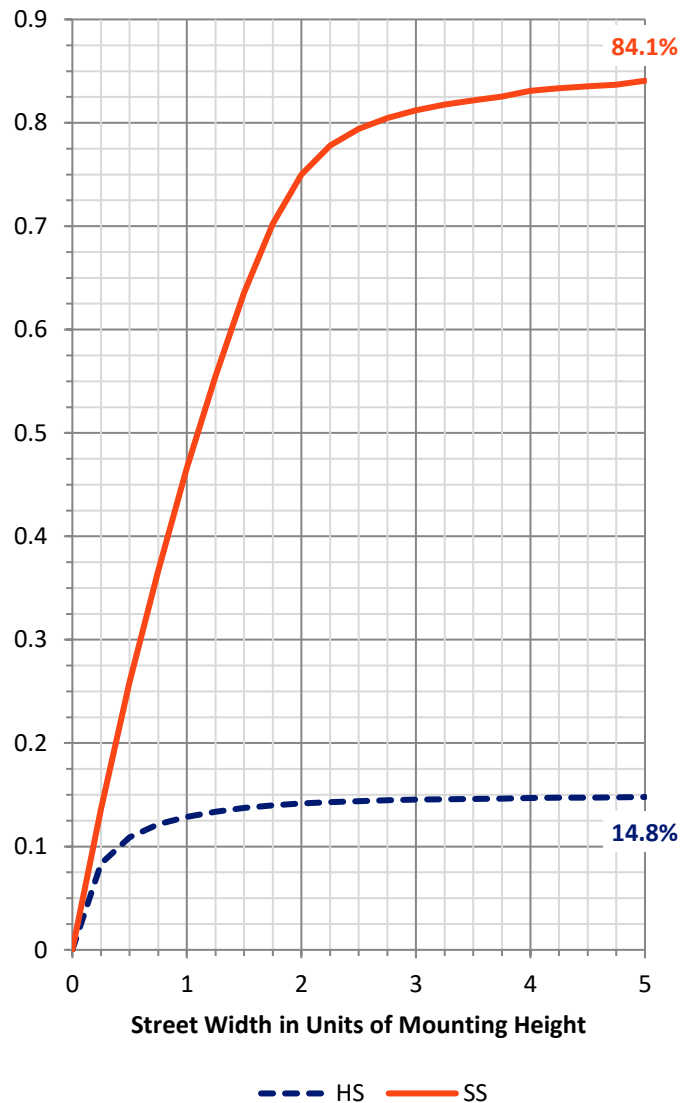
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.7	0.0	1425.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8110.3	0.0	8110.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	9536.0	0.0	9536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	2.4
10°-20°	506.8	5.3
20°-30°	644.1	6.8
30°-40°	820.5	8.6
40°-50°	1163.5	12.2
50°-60°	1800.6	18.9
60°-70°	2451.3	25.7
70°-80°	1635.3	17.1
80°-90°	285.9	3.0
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°	9536.0	100.0
0°-180°	9536.0	100.0

Coefficient of Utilization



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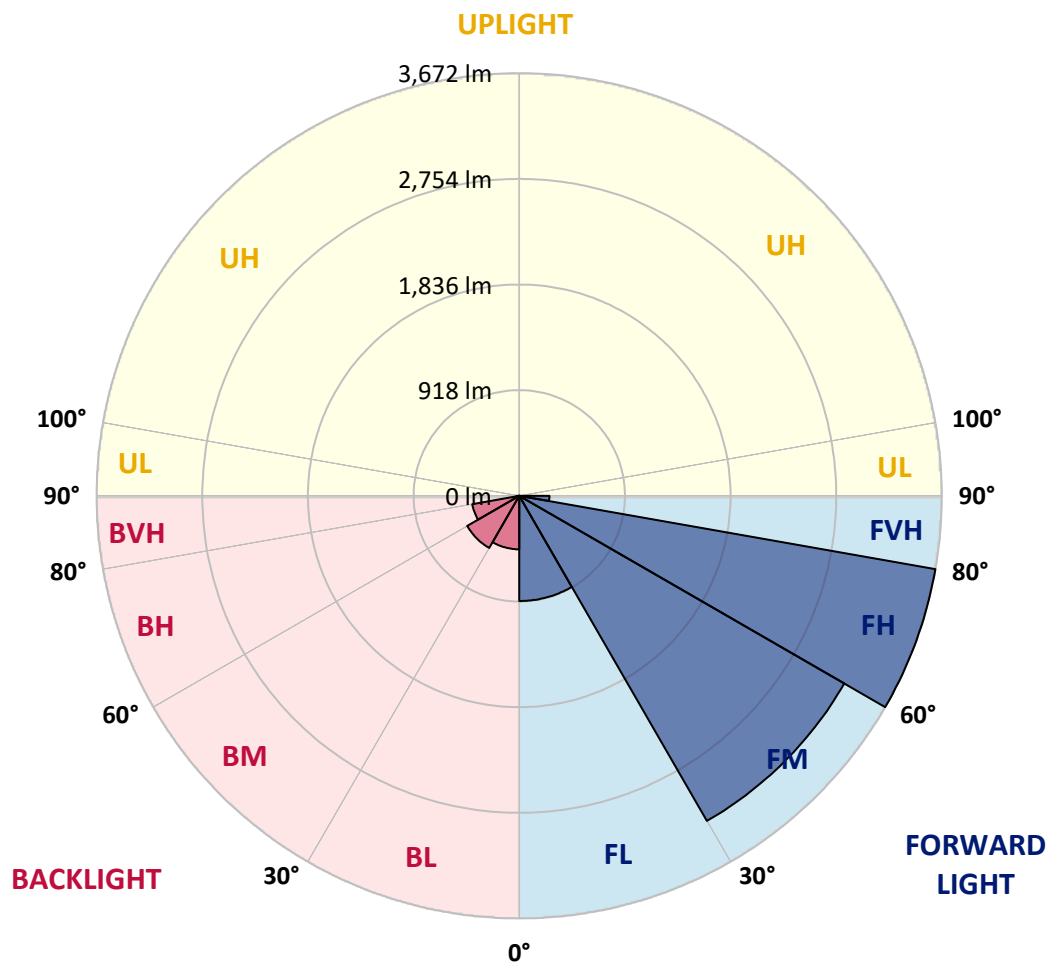
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.2	9.6			
FM	(30°-60°)	3261.8	34.2			
FH	(60°-80°)	3672.2	38.5			G2/5000
FVH	(80°-90°)	262.2	2.7			G3/500
BL	(0°-30°)	464.7	4.9	B1/500		
BM	(30°-60°)	522.8	5.5	B1/1000		
BH	(60°-80°)	414.4	4.3	B1/500		G1/500
BVH	(80°-90°)	23.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1
2.5°	2712.2	2708.5	2709.9	2707.2	2700.9	2694.6	2685.3	2687.0	2674.0	2654.7	2630.8
5°	2661.0	2659.7	2669.7	2675.3	2680.0	2676.3	2673.7	2677.0	2658.1	2631.5	2590.0
7.5°	2553.8	2539.1	2551.8	2570.7	2588.6	2602.2	2620.2	2622.5	2610.6	2582.7	2528.2
10°	2401.3	2387.3	2405.9	2435.5	2471.4	2503.9	2540.1	2546.8	2549.1	2523.9	2457.8
12.5°	2243.2	2232.5	2251.1	2292.7	2352.1	2402.3	2460.1	2470.0	2490.6	2473.7	2392.6
15°	2101.7	2097.7	2120.3	2161.1	2229.5	2306.3	2389.7	2407.9	2442.8	2437.2	2341.8
17.5°	1979.4	1978.4	1995.7	2038.5	2114.3	2211.3	2319.6	2350.5	2402.3	2408.9	2300.0
20°	1888.4	1886.4	1898.4	1929.9	2008.0	2117.9	2243.8	2286.4	2361.1	2384.3	2256.8
22.5°	1839.6	1839.2	1839.6	1854.5	1918.3	2020.6	2170.1	2221.9	2320.9	2364.7	2209.0
25°	1831.3	1830.3	1823.0	1821.3	1857.5	1939.2	2097.0	2154.1	2282.7	2351.1	2163.4
27.5°	1852.9	1854.2	1844.6	1828.9	1836.3	1885.8	2033.6	2094.7	2252.1	2348.5	2131.9
30°	1897.7	1897.0	1888.7	1872.5	1858.2	1865.8	1988.4	2049.5	2231.5	2360.1	2110.3
32.5°	1947.2	1950.9	1949.2	1940.2	1919.0	1888.4	1974.8	2034.6	2225.6	2388.0	2101.0
35°	2006.7	2010.6	2022.6	2029.6	2004.7	1955.5	2004.0	2055.8	2242.8	2440.5	2115.9
37.5°	2063.1	2073.4	2107.0	2136.5	2115.3	2060.5	2081.7	2118.6	2296.3	2523.2	2156.1
40°	2128.2	2137.2	2192.0	2254.8	2251.5	2194.7	2207.0	2231.5	2390.7	2641.8	2228.9
42.5°	2192.3	2210.3	2289.7	2378.7	2404.3	2354.1	2373.7	2386.7	2523.5	2798.9	2355.8
45°	2277.7	2297.0	2407.3	2514.6	2574.3	2546.1	2577.3	2582.3	2690.6	3012.8	2540.1
47.5°	2406.9	2428.9	2557.4	2670.0	2761.4	2764.3	2815.8	2813.8	2899.2	3257.6	2772.3
50°	2608.2	2639.8	2745.1	2850.4	2961.3	3023.1	3091.9	3082.2	3149.3	3518.4	3039.7
52.5°	2872.0	2886.6	2964.7	3042.4	3180.2	3318.7	3417.4	3408.8	3433.0	3786.4	3343.3
55°	3145.4	3156.3	3188.5	3231.1	3416.4	3642.3	3850.9	3837.3	3775.8	4064.8	3643.3
57.5°	3391.2	3413.4	3435.7	3453.3	3654.2	3980.4	4294.3	4295.3	4147.9	4365.1	3953.2
60°	3429.4	3449.0	3596.1	3735.0	4061.2	4431.5	4769.0	4759.1	4532.8	4691.0	4298.7
62.5°	3031.4	3075.6	3321.4	3690.8	4453.1	5256.6	5374.6	5362.3	4993.2	5092.6	4700.9
65°	2172.4	2222.6	2519.2	3074.3	4263.1	6165.8	6467.4	6302.0	5621.0	5586.5	5171.9
67.5°	1253.3	1265.2	1393.8	1839.6	3246.0	6213.3	8134.6	7903.1	6596.0	6146.9	5402.5
70°	926.8	926.4	957.0	1132.0	1756.5	5071.0	8927.5	9135.1	7622.4	6331.2	5076.6
71°	838.1	839.1	873.3	1030.4	1391.1	4244.5	8759.1	9213.5	7892.8	6240.2	4840.8
72.5°	716.8	720.2	767.7	924.1	1170.2	2927.1	8033.6	8743.1	8021.0	6015.7	4471.7
75°	543.8	551.4	617.2	778.9	1069.6	1484.5	5896.1	6981.6	7125.5	5308.1	3322.7
77.5°	388.0	396.6	471.0	655.0	1016.8	1118.8	3948.5	5092.6	5243.7	3401.8	1498.8
80°	245.1	255.4	311.6	521.2	955.3	1062.3	2481.3	3423.0	2859.4	1088.5	381.3
82.5°	143.8	151.8	193.3	340.5	780.3	1023.1	1459.9	1897.4	1112.8	328.9	173.4
85°	83.4	87.0	120.6	216.9	566.7	965.6	1072.6	1060.6	483.0	160.8	82.0
87.5°	38.9	43.2	71.4	113.3	314.6	699.9	847.7	732.4	300.3	75.4	38.5
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°	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1	2642.1
2.5°	2619.2	2613.5	2590.0	2569.0	2547.1	2518.5	2487.0	2483.0	2463.7	2467.4	2460.7
5°	2567.4	2553.1	2496.3	2444.8	2384.0	2329.5	2270.4	2243.2	2204.0	2201.3	2191.3
7.5°	2493.3	2466.7	2378.7	2281.0	2183.4	2090.4	1998.4	1937.9	1876.1	1849.9	1847.6
10°	2409.9	2364.7	2235.2	2090.7	1949.9	1814.0	1682.5	1585.1	1497.4	1455.9	1454.3
12.5°	2330.9	2264.1	2086.4	1889.7	1697.1	1521.0	1340.7	1212.8	1102.8	1065.9	1050.3
15°	2263.8	2169.8	1941.6	1690.1	1456.2	1211.8	1006.5	872.0	770.3	735.1	728.5
17.5°	2198.7	2077.7	1793.1	1488.5	1205.8	937.1	731.4	631.5	577.3	563.0	562.7
20°	2133.9	1983.1	1637.9	1282.2	963.6	700.9	562.4	517.5	499.3	497.6	494.9
22.5°	2060.5	1882.8	1474.9	1075.2	752.0	551.1	478.0	460.1	457.7	463.7	463.7
25°	1991.7	1783.1	1309.4	872.6	585.0	459.7	426.8	423.2	429.5	440.1	441.1
27.5°	1927.6	1687.1	1148.0	692.6	468.7	404.9	391.3	395.6	406.9	419.2	419.5
30°	1874.8	1596.4	991.2	545.8	396.0	364.1	361.7	370.4	382.7	392.3	394.6
32.5°	1833.9	1519.0	839.7	438.8	348.5	333.5	335.5	342.8	350.4	355.8	359.4
35°	1815.0	1452.6	699.9	370.0	318.2	309.9	312.6	316.6	319.9	323.9	326.9
37.5°	1818.3	1401.1	575.0	327.2	298.0	293.6	293.6	293.6	293.6	295.6	296.0
40°	1849.2	1371.5	473.3	300.0	284.3	279.7	276.0	272.7	270.1	271.4	270.7
42.5°	1928.3	1368.9	398.9	282.7	273.4	265.7	258.4	253.8	250.5	251.8	252.5
45°	2062.5	1402.1	348.8	270.4	263.1	251.5	242.2	237.2	234.8	239.2	239.8
47.5°	2236.2	1474.5	318.2	261.4	253.4	238.2	228.2	223.6	224.2	230.5	232.2
50°	2460.1	1592.1	303.6	255.8	246.8	226.9	216.6	212.6	214.6	223.6	225.5
52.5°	2705.9	1761.5	305.3	254.1	242.5	218.6	207.6	203.0	206.3	214.6	216.2
55°	2989.6	1965.1	332.8	256.4	236.2	213.3	200.3	192.3	195.0	202.6	204.0
57.5°	3304.8	2198.3	388.3	255.8	228.2	208.3	192.7	180.7	182.7	187.3	188.7
60°	3633.0	2480.0	474.3	257.8	224.5	202.3	182.4	167.4	166.8	170.7	171.4
62.5°	4026.9	2805.9	572.7	259.1	226.9	194.7	168.7	154.1	152.1	153.1	153.8
65°	4432.9	3041.7	535.8	253.8	234.2	188.3	156.8	141.2	137.5	136.9	137.2
67.5°	4445.5	2788.9	375.7	243.2	237.2	185.0	147.8	130.2	124.2	121.9	121.6
70°	3986.7	2265.8	292.6	231.9	225.2	179.7	139.5	121.2	112.3	108.6	108.3
71°	3762.9	2085.7	277.4	226.2	216.2	174.4	135.9	117.3	108.0	104.0	103.3
72.5°	3411.8	1869.8	258.8	217.2	199.0	160.8	128.9	111.6	102.0	97.3	96.3
75°	2448.5	1222.7	222.2	193.7	164.8	128.2	112.9	100.3	92.0	86.4	85.7
77.5°	943.4	486.6	168.1	161.1	126.2	100.3	93.0	86.7	80.7	75.1	74.7
80°	291.6	217.6	122.6	121.2	91.3	74.7	72.4	70.8	68.4	62.4	61.1
82.5°	155.8	124.9	84.4	78.4	59.8	49.8	52.5	53.1	53.5	47.2	46.5
85°	74.4	66.1	47.5	44.5	34.9	27.9	32.2	34.9	35.2	28.9	26.9
87.5°	35.5	34.5	22.3	16.9	13.0	9.3	11.3	14.0	15.3	11.0	9.6
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)