

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: P319267

Luminaire Tested: **GAN-SA3A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11655 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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

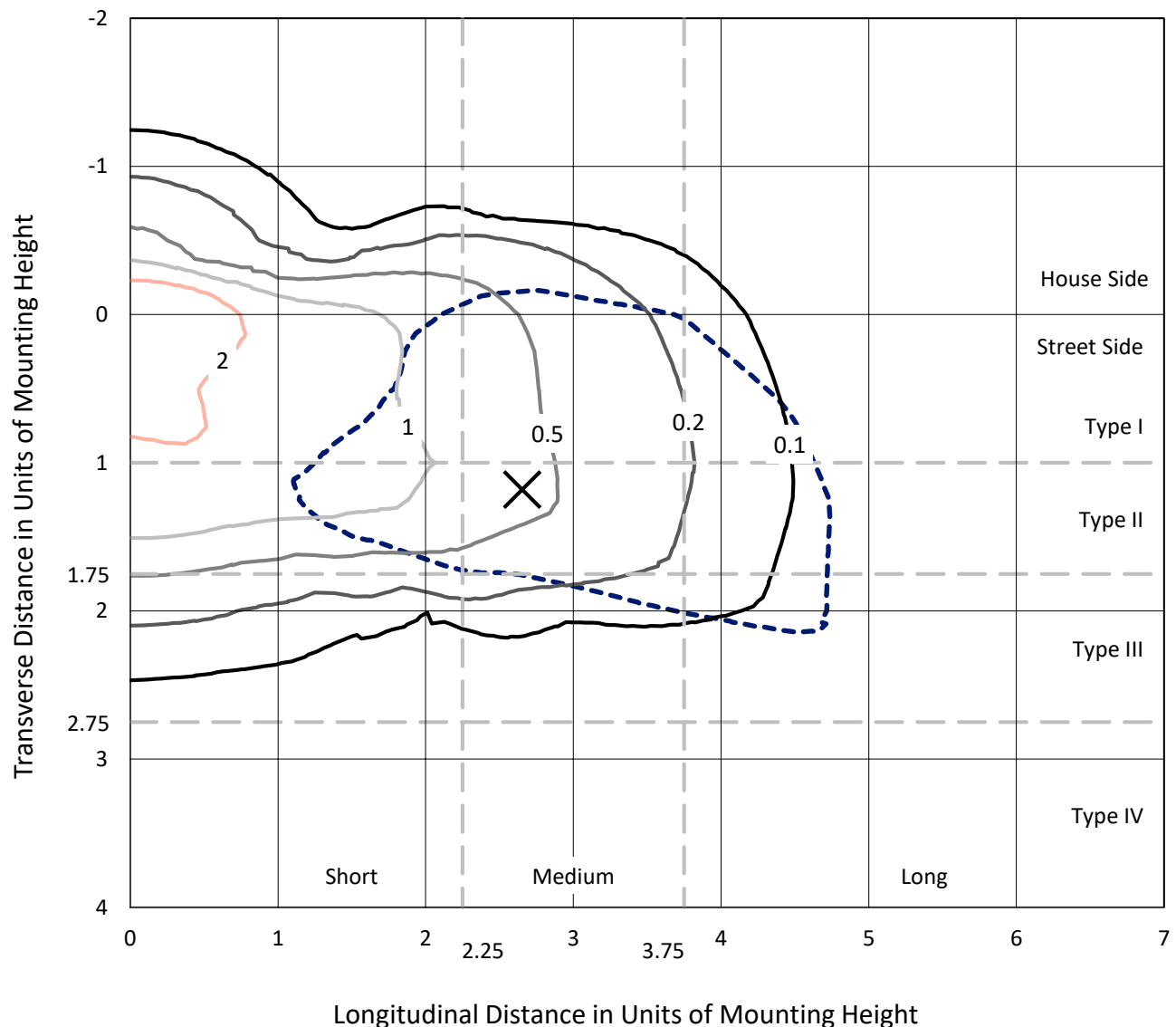


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Iso-Footcandle Lines of Horizontal Illumination

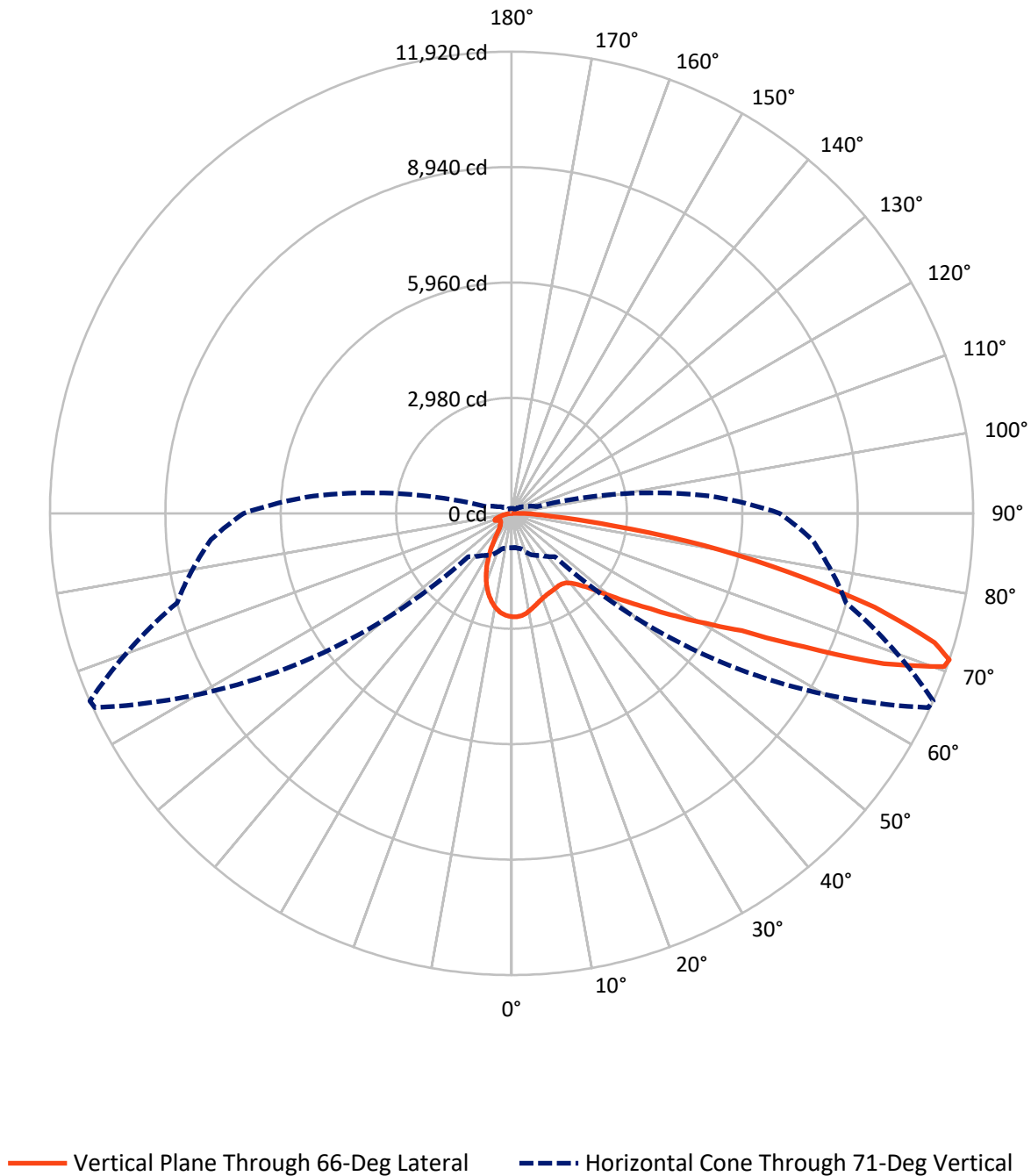
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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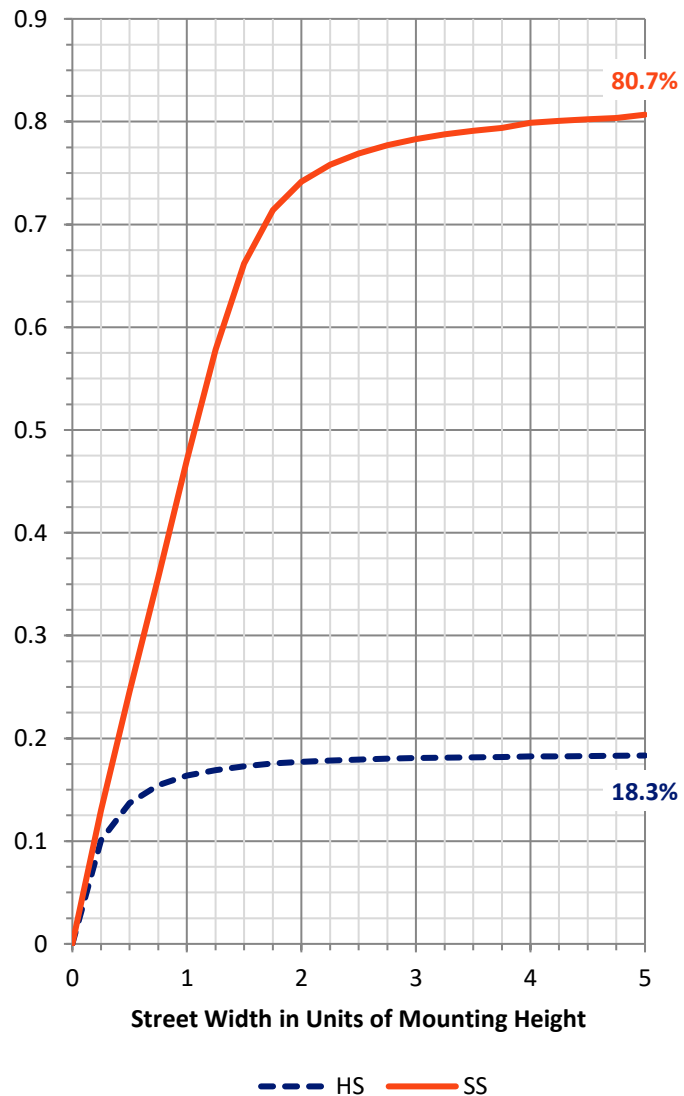
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2160.0	0.0	2160.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9495.0	0.0	9495.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	11655.0	0.0	11655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	2.0
10°-20°	563.7	4.8
20°-30°	757.2	6.5
30°-40°	996.0	8.5
40°-50°	1449.0	12.4
50°-60°	2263.4	19.4
60°-70°	2835.3	24.3
70°-80°	2162.7	18.6
80°-90°	392.7	3.4
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°	11655.0	100.0
0°-180°	11655.0	100.0

Coefficient of Utilization



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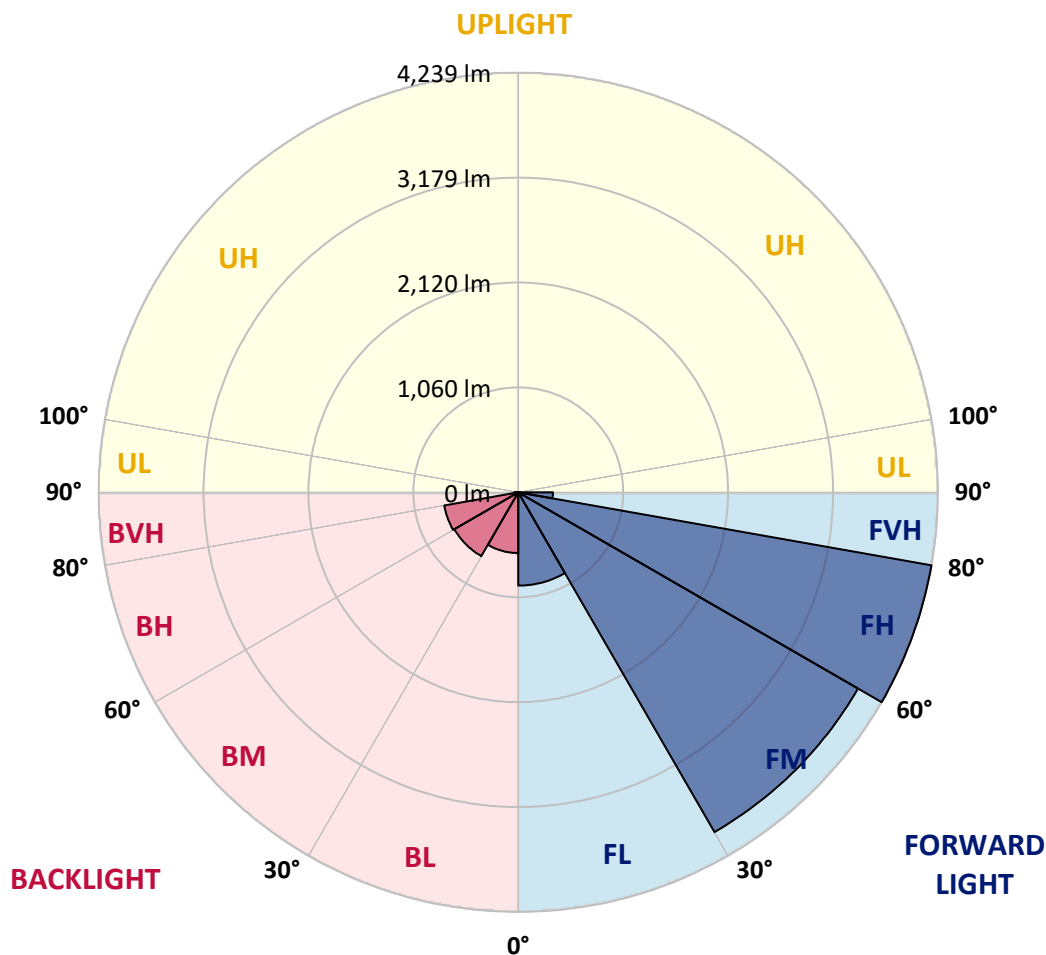
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	942.5	8.1			
FM	(30°-60°)	3963.3	34.0			
FH	(60°-80°)	4239.0	36.4			G2/5000
FVH	(80°-90°)	350.2	3.0			G3/500
BL	(0°-30°)	613.4	5.3	B2/1000		
BM	(30°-60°)	745.1	6.4	B1/1000		
BH	(60°-80°)	759.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	42.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9
2.5°	2620.4	2616.4	2628.5	2641.0	2645.8	2653.8	2665.9	2672.8	2672.3	2673.6	2669.5
5°	2446.6	2441.4	2465.5	2485.2	2523.1	2565.7	2617.6	2654.6	2655.4	2676.4	2682.0
7.5°	2282.0	2278.4	2306.2	2338.0	2381.8	2447.0	2531.1	2610.8	2615.6	2672.3	2692.1
10°	2150.0	2149.2	2176.2	2210.8	2261.9	2334.7	2431.3	2548.0	2555.3	2653.0	2693.7
12.5°	2047.0	2048.6	2072.0	2111.4	2165.3	2241.4	2346.0	2477.6	2489.3	2622.5	2684.4
15°	1971.0	1977.4	1996.3	2036.2	2089.3	2166.5	2274.0	2412.4	2430.1	2588.2	2679.2
17.5°	1927.5	1934.7	1948.0	1981.0	2030.9	2105.4	2207.2	2358.9	2375.0	2562.1	2679.6
20°	1914.6	1920.7	1928.3	1948.4	1990.7	2058.3	2154.5	2310.6	2327.9	2541.2	2683.6
22.5°	1940.0	1944.4	1945.2	1943.6	1969.4	2024.5	2116.2	2275.2	2293.7	2527.5	2686.4
25°	1994.3	2000.3	1995.9	1981.0	1972.6	2006.4	2096.5	2251.8	2270.4	2517.4	2680.8
27.5°	2076.0	2076.8	2073.2	2053.9	2014.0	2008.4	2090.5	2238.2	2255.9	2505.8	2669.1
30°	2187.1	2192.3	2185.8	2159.7	2094.5	2040.6	2097.7	2224.9	2241.0	2490.9	2650.2
32.5°	2317.0	2329.9	2329.5	2302.1	2208.8	2112.6	2127.5	2216.8	2229.3	2475.2	2627.3
35°	2451.8	2469.5	2502.5	2490.9	2375.4	2226.5	2184.6	2229.7	2238.2	2473.2	2611.2
37.5°	2591.9	2609.6	2677.6	2709.0	2573.8	2389.5	2274.8	2275.2	2279.2	2497.7	2610.0
40°	2738.3	2757.3	2859.5	2941.2	2830.9	2595.9	2420.0	2370.1	2365.7	2558.1	2633.7
42.5°	2943.6	2960.5	3083.2	3187.4	3116.2	2860.3	2620.8	2516.6	2507.4	2676.4	2709.8
45°	3203.1	3217.6	3348.0	3459.4	3422.8	3162.1	2873.1	2718.2	2716.6	2873.6	2863.9
47.5°	3511.8	3523.0	3640.1	3748.0	3761.2	3509.3	3190.2	3029.3	3003.1	3144.0	3102.5
50°	3833.3	3845.8	3925.4	4041.3	4139.9	3974.1	3598.3	3410.4	3375.3	3500.9	3440.5
52.5°	4046.1	4062.6	4131.9	4278.7	4565.6	4483.6	4080.8	3872.3	3819.2	3933.5	3887.2
55°	3951.2	3988.2	4094.0	4329.4	4906.1	5261.8	4675.9	4411.1	4351.2	4446.1	4418.8
57.5°	3519.4	3570.1	3714.6	4077.9	4954.0	5947.5	5575.7	5045.7	5003.5	4976.1	4988.6
60°	2730.3	2779.0	2958.1	3431.7	4620.4	6448.1	6929.8	5828.0	5766.8	5508.1	5519.3
62.5°	1932.3	1907.8	2030.5	2377.0	3754.4	6506.8	8470.6	6874.2	6673.0	6069.8	6020.3
65°	1473.6	1468.0	1523.1	1633.3	2274.0	5803.8	9388.4	8632.7	8318.4	6730.6	6613.9
67.5°	1210.8	1200.8	1255.1	1415.6	1464.3	3744.3	9408.6	10672.9	10364.3	7553.1	7300.4
70°	995.5	984.3	1035.0	1242.2	1353.3	1898.9	7918.5	11867.6	11851.1	8594.5	7818.7
71°	892.5	884.5	945.2	1175.4	1329.5	1582.6	6836.8	11870.8	11920.3	8947.0	7788.1
72.5°	726.7	729.6	793.9	1046.2	1311.8	1397.5	5024.8	11317.5	11422.2	9283.0	7510.0
75°	482.9	485.3	569.8	804.8	1272.0	1367.4	2761.7	9496.7	9689.0	9081.8	6852.9
77.5°	324.3	323.5	381.1	552.1	1108.2	1367.4	1619.3	7102.8	7314.1	7226.3	5283.1
80°	223.3	221.7	262.4	381.1	839.0	1383.9	1251.9	4977.7	5041.7	3902.5	2147.2
82.5°	136.8	138.0	171.4	269.2	571.0	1245.4	1181.9	2714.2	2644.6	1094.5	536.4
85°	78.5	78.1	109.5	182.3	366.6	1051.1	1152.5	1168.2	1071.6	329.6	194.0
87.5°	28.2	30.2	58.8	101.0	210.1	732.0	977.8	607.6	547.7	148.9	87.7
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°	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9	2669.9
2.5°	2666.7	2669.1	2666.3	2650.2	2636.5	2614.4	2601.9	2584.6	2579.4	2577.0	2583.4
5°	2676.8	2677.6	2653.8	2611.6	2564.1	2508.2	2467.9	2418.4	2395.1	2385.0	2391.5
7.5°	2686.0	2682.4	2630.5	2549.6	2461.9	2364.5	2278.0	2198.7	2152.4	2133.5	2135.1
10°	2687.2	2671.9	2588.6	2463.5	2327.5	2184.6	2051.8	1929.5	1852.3	1802.0	1817.2
12.5°	2674.8	2649.0	2527.1	2352.0	2163.3	1968.5	1789.1	1605.6	1495.3	1444.2	1445.8
15°	2665.1	2618.4	2451.4	2220.9	1967.3	1709.4	1464.3	1248.7	1131.2	1078.8	1054.3
17.5°	2657.1	2585.4	2363.7	2073.2	1736.0	1408.8	1114.3	921.9	857.5	842.2	835.8
20°	2645.8	2550.4	2265.9	1902.2	1472.4	1072.4	813.7	718.7	719.1	736.8	739.2
22.5°	2630.1	2510.6	2161.7	1710.2	1189.5	781.1	637.8	610.4	638.2	672.0	678.0
25°	2606.8	2463.5	2045.8	1498.1	907.0	600.4	544.9	543.6	577.4	612.9	618.1
27.5°	2573.8	2401.9	1917.0	1270.4	668.4	510.2	488.1	496.6	521.5	547.3	549.3
30°	2529.5	2330.3	1775.0	1030.1	523.9	454.3	451.9	459.5	474.8	492.9	494.6
32.5°	2480.8	2257.5	1623.3	797.6	448.7	424.1	426.5	430.2	437.4	444.7	446.3
35°	2436.5	2183.0	1468.0	606.0	412.9	404.4	402.8	402.0	402.8	400.4	400.8
37.5°	2408.0	2121.5	1306.2	482.5	392.3	387.1	382.3	376.2	369.4	365.4	366.2
40°	2397.5	2075.6	1142.4	416.9	375.4	371.8	362.6	349.7	341.6	339.2	339.2
42.5°	2425.7	2051.8	984.3	383.9	361.4	355.3	340.0	325.1	319.1	318.7	318.3
45°	2511.8	2061.5	833.8	365.8	348.5	336.8	316.7	304.2	300.2	301.0	300.6
47.5°	2666.3	2122.3	705.0	353.7	335.6	320.3	297.8	287.7	282.9	282.9	283.3
50°	2929.1	2264.3	602.4	343.7	324.7	305.0	284.1	271.6	265.2	264.8	264.8
52.5°	3311.8	2518.6	538.4	335.2	312.7	291.3	270.4	254.7	247.1	245.5	244.7
55°	3791.4	2883.2	520.7	329.6	296.6	276.4	253.9	238.2	229.8	226.1	225.7
57.5°	4327.8	3326.7	555.7	322.7	280.1	258.7	235.8	220.9	212.1	207.6	207.2
60°	4870.7	3810.7	698.6	313.1	266.4	239.4	217.3	203.6	194.8	189.9	189.1
62.5°	5414.3	4321.0	990.3	312.3	256.7	220.9	198.4	186.7	178.3	173.0	171.8
65°	6027.6	4879.5	1321.9	333.6	253.5	204.0	179.1	169.8	162.6	157.7	157.3
67.5°	6731.8	5510.1	1290.1	377.5	264.4	188.7	161.0	153.7	148.5	144.5	144.1
70°	7062.1	5411.5	802.0	408.4	279.7	173.8	143.7	138.4	134.4	131.6	130.4
71°	6923.7	5138.3	672.4	404.8	278.1	167.4	136.8	132.8	128.8	126.4	125.1
72.5°	6546.3	4686.0	560.9	376.6	260.0	155.7	128.0	123.9	120.3	117.5	116.7
75°	5874.3	4185.0	449.1	301.0	207.2	131.6	112.3	107.8	105.0	103.4	101.8
77.5°	4318.2	2986.6	347.3	237.8	152.5	107.4	95.8	92.6	89.7	87.3	86.1
80°	1654.3	1156.9	233.8	177.5	111.9	84.9	77.3	75.7	72.8	71.2	71.2
82.5°	445.5	345.7	124.7	107.4	74.8	62.0	59.2	58.3	55.9	52.7	53.1
85°	180.3	152.5	70.0	59.2	45.9	36.6	39.8	40.2	37.4	33.4	33.8
87.5°	79.3	64.8	39.0	26.2	20.1	14.1	18.1	18.1	16.5	13.7	12.5
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)