

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: P318647

Luminaire Tested: **GAN-SA3C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18167 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

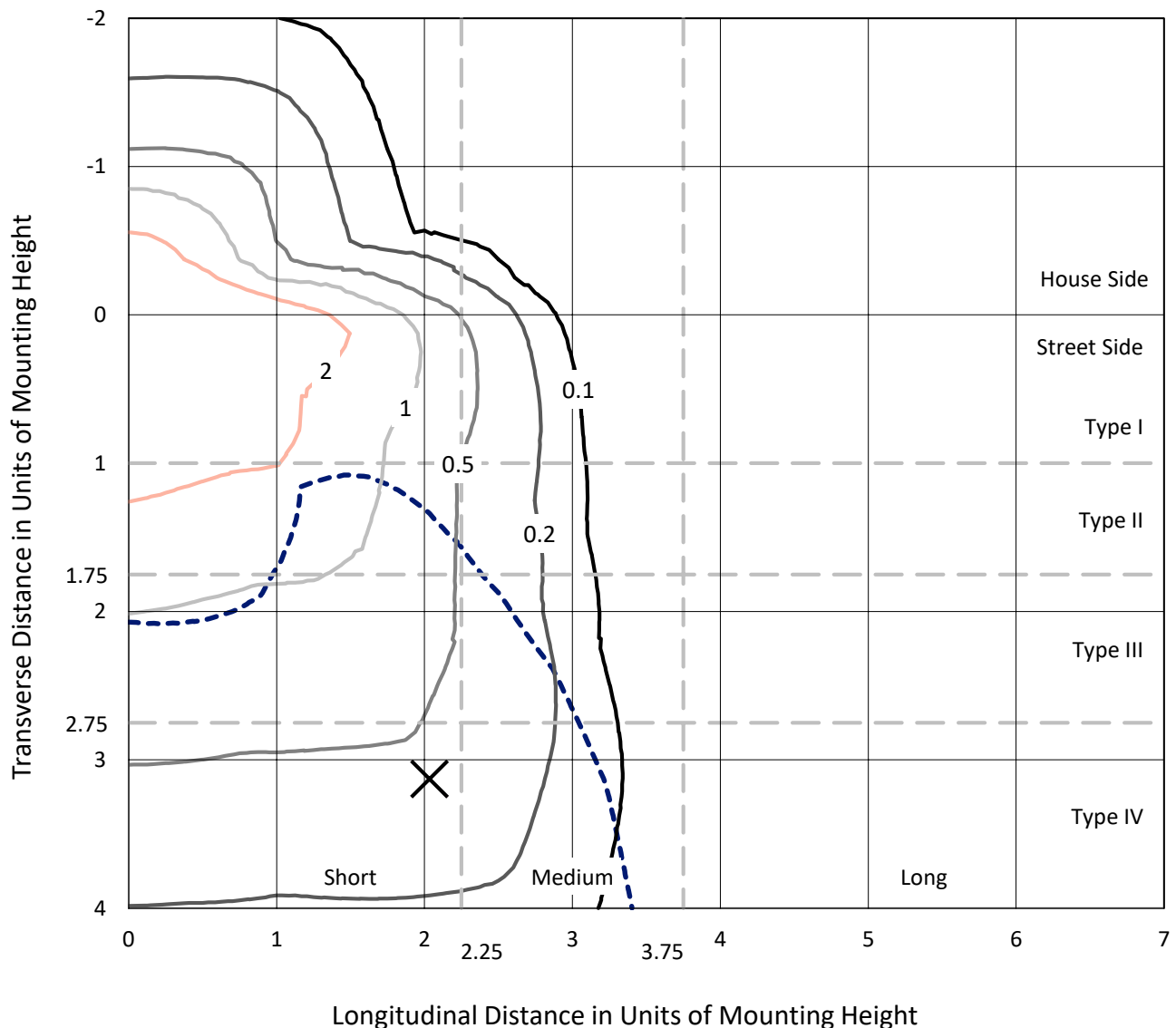
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

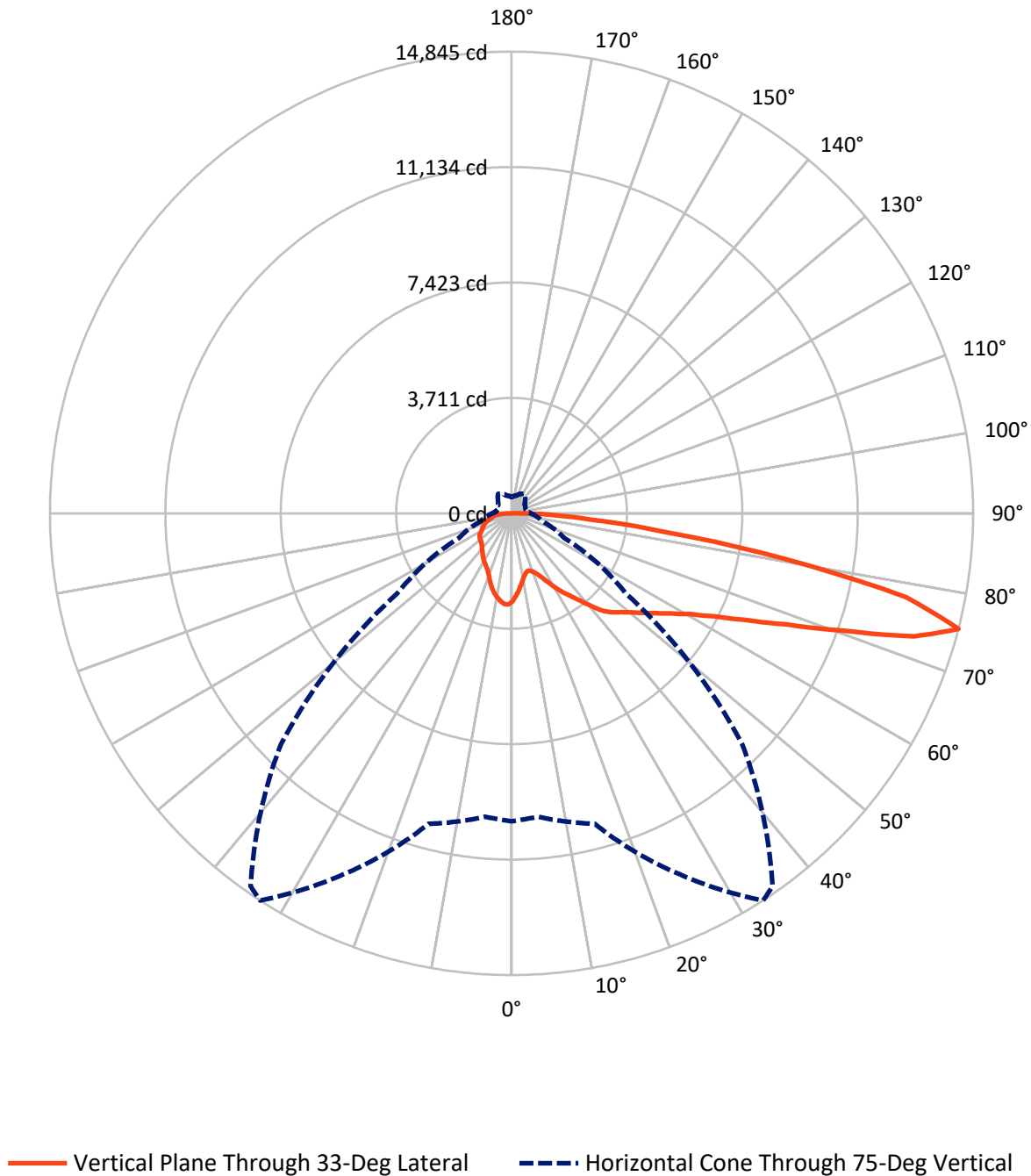
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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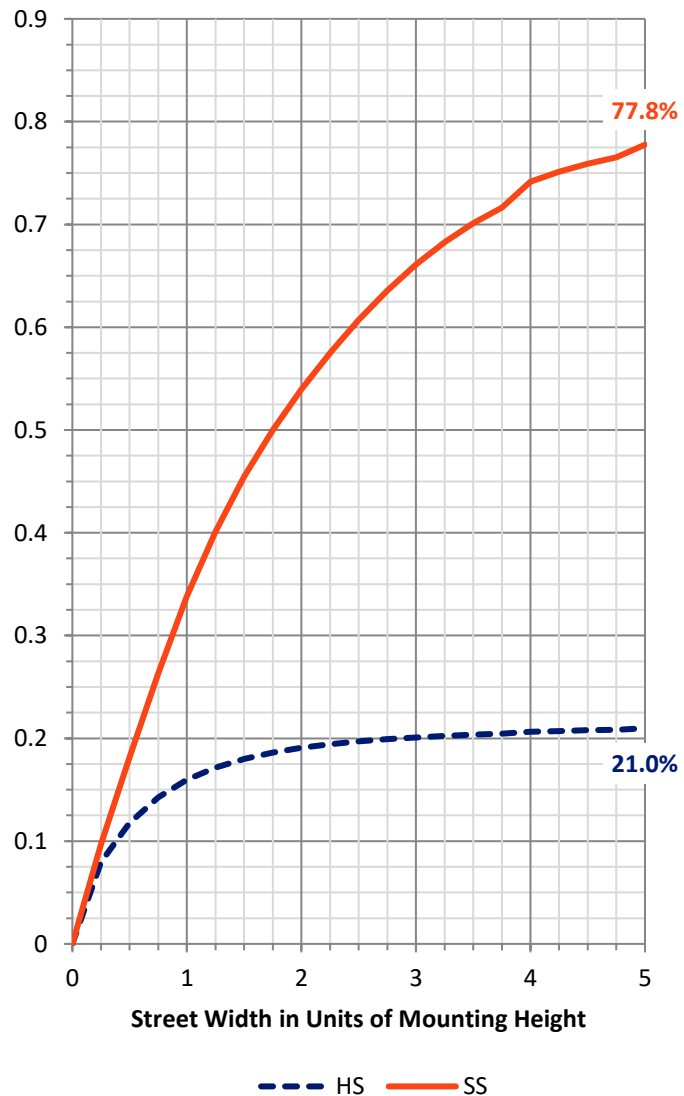
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3900.9	0.0	3900.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	14266.1	0.0	14266.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	18167.0	0.0	18167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.8	1.4
10°-20°	695.5	3.8
20°-30°	1135.9	6.3
30°-40°	1691.6	9.3
40°-50°	2426.3	13.4
50°-60°	3330.9	18.3
60°-70°	4170.2	23.0
70°-80°	3772.5	20.8
80°-90°	687.2	3.8
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°	18167.0	100.0
0°-180°	18167.0	100.0

Coefficient of Utilization



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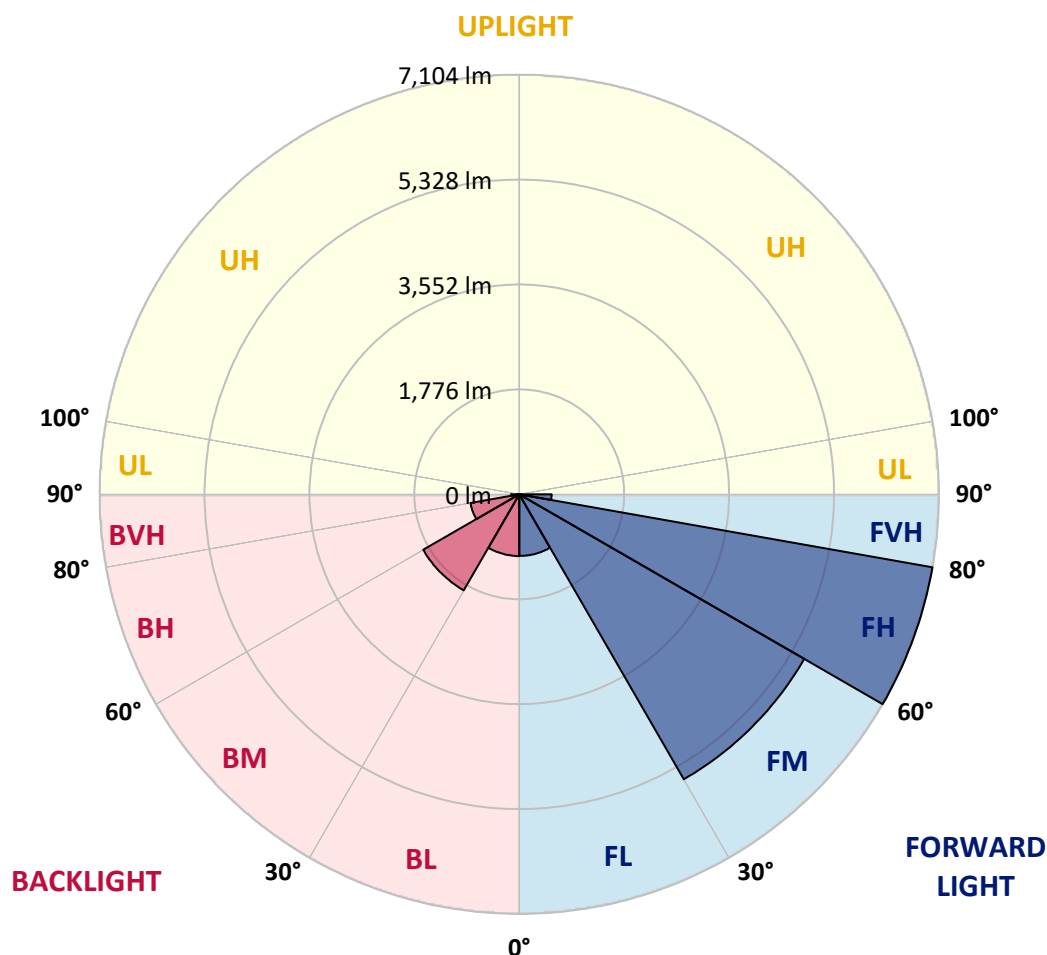
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.4	5.7			
FM	(30°-60°)	5571.4	30.7			
FH	(60°-80°)	7103.9	39.1			G3/7500
FVH	(80°-90°)	547.3	3.0			G4/750
BL	(0°-30°)	1044.9	5.8	B3/2500		
BM	(30°-60°)	1877.4	10.3	B2/2500		
BH	(60°-80°)	838.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	139.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6
2.5°	2636.9	2626.9	2645.7	2648.2	2664.5	2670.8	2693.4	2728.5	2757.4	2790.7	2820.8
5°	2397.8	2390.9	2417.3	2436.1	2471.9	2486.9	2540.3	2614.9	2681.5	2756.8	2825.2
7.5°	2170.6	2166.9	2196.4	2239.1	2280.5	2301.2	2393.4	2502.0	2613.1	2734.8	2839.6
10°	1979.3	1978.0	2006.2	2048.3	2109.2	2132.4	2251.6	2394.7	2550.3	2717.9	2864.1
12.5°	1871.9	1876.3	1889.5	1924.7	1981.1	2004.4	2136.8	2304.9	2497.6	2712.2	2899.8
15°	1898.3	1905.2	1882.6	1881.4	1921.5	1939.7	2064.0	2240.9	2459.9	2721.6	2951.9
17.5°	2010.6	2011.9	1952.3	1914.6	1939.1	1948.5	2041.4	2204.5	2438.0	2743.0	3017.2
20°	2168.8	2165.6	2060.2	1997.4	2010.6	2013.1	2073.4	2205.2	2436.1	2780.0	3101.9
22.5°	2378.4	2355.1	2213.3	2128.0	2124.8	2121.1	2155.6	2251.6	2463.7	2840.2	3202.9
25°	2652.0	2630.0	2434.8	2318.1	2293.0	2283.6	2288.6	2350.8	2518.3	2904.9	3315.9
27.5°	2956.3	2918.0	2729.8	2564.7	2512.7	2499.5	2469.4	2490.7	2577.9	2967.0	3450.2
30°	3211.1	3190.4	3026.0	2830.2	2768.7	2749.9	2670.8	2647.6	2663.9	3051.7	3619.6
32.5°	3353.6	3339.8	3240.0	3081.8	3024.7	2998.4	2886.7	2840.2	2802.0	3185.4	3849.3
35°	3526.1	3517.3	3457.1	3342.3	3257.5	3229.9	3143.3	3095.0	2996.5	3369.2	4146.1
37.5°	3745.8	3736.4	3737.6	3644.7	3543.7	3518.0	3460.9	3410.0	3248.8	3610.8	4468.7
40°	3994.3	3976.1	3969.2	3964.8	3900.8	3886.3	3856.2	3787.2	3565.0	3899.5	4786.9
42.5°	4368.3	4303.6	4165.6	4217.7	4281.1	4273.5	4298.0	4198.8	3916.5	4240.9	5097.5
45°	4729.1	4623.1	4384.6	4395.9	4534.6	4576.6	4759.9	4689.6	4297.4	4614.9	5418.8
47.5°	4893.5	4813.2	4610.5	4611.1	4748.6	4835.8	5237.4	5187.2	4697.7	5039.7	5811.0
50°	5077.4	4997.1	4815.1	4883.5	5003.4	5096.2	5698.7	5672.9	5078.7	5504.8	6281.0
52.5°	5278.2	5142.0	5026.6	5148.9	5317.1	5425.1	6160.5	6090.2	5428.2	5972.9	6821.3
55°	5280.7	5243.7	5331.6	5421.3	5672.9	5805.3	6644.4	6458.6	5713.1	6432.9	7261.2
57.5°	5581.3	5521.1	5707.4	5748.9	6077.7	6227.0	7125.7	6779.3	6003.0	6785.6	7498.4
60°	5979.2	5927.7	6080.2	6189.4	6578.5	6778.0	7639.6	7108.7	6230.8	7051.6	7487.1
62.5°	6666.3	6608.0	6606.1	6759.2	7283.2	7515.4	8216.3	7431.9	6321.2	7104.3	7167.7
65°	7672.3	7579.4	7404.3	7477.1	8256.5	8488.1	8860.8	7666.0	6201.9	6822.0	6345.0
67.5°	8651.2	8648.1	8432.8	8582.2	9541.7	9727.4	9595.0	7689.2	5829.8	5838.6	4885.4
70°	9627.0	9639.6	9603.2	10122.8	11278.1	11471.4	10376.9	7377.3	4993.3	4216.4	2926.8
72.5°	10400.2	10397.0	10580.3	11920.1	13531.6	13488.3	11035.9	6432.3	3585.1	2276.1	1398.8
75°	9899.4	9790.2	10336.2	12809.9	14845.0	14633.5	10475.5	4486.9	1860.6	1036.1	753.0
77.5°	6456.7	6560.3	7361.6	10582.2	12985.0	12727.7	7685.4	2093.5	876.7	679.6	546.0
80°	2338.2	2447.4	3447.1	5994.2	8946.2	8904.1	3784.7	860.4	593.0	513.3	397.9
82.5°	804.5	844.7	1359.9	2662.0	5051.0	5239.3	1423.9	488.9	431.1	364.0	272.4
85°	315.7	361.5	621.9	1280.8	2547.8	2566.6	576.7	292.4	300.0	238.5	149.4
87.5°	119.9	145.6	297.5	594.9	1163.5	1068.7	206.5	139.3	170.7	141.8	70.9
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°	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6	2839.6
2.5°	2844.0	2857.2	2884.8	2903.6	2923.7	2929.3	2931.9	2936.9	2941.9	2940.0	2940.6
5°	2861.6	2887.3	2931.9	2950.7	2959.5	2949.4	2930.0	2914.3	2903.0	2896.7	2894.8
7.5°	2890.4	2926.8	2974.5	2971.4	2951.3	2906.8	2856.5	2818.9	2787.5	2776.2	2769.9
10°	2928.7	2971.4	3004.6	2968.9	2910.5	2833.3	2758.0	2699.7	2652.6	2634.4	2631.3
12.5°	2977.7	3021.0	3027.2	2951.3	2854.7	2749.2	2647.0	2569.8	2499.5	2476.9	2471.9
15°	3041.0	3081.8	3042.9	2920.6	2785.6	2643.8	2511.4	2406.6	2332.6	2304.9	2294.9
17.5°	3107.6	3146.5	3046.1	2869.7	2695.3	2518.9	2352.6	2245.3	2160.6	2128.6	2124.8
20°	3187.3	3204.8	3032.9	2796.9	2571.0	2357.0	2181.9	2080.9	2035.7	2013.1	2010.6
22.5°	3285.8	3267.0	3002.8	2698.4	2413.5	2170.0	2027.6	1980.5	1969.2	1964.2	1966.1
25°	3390.0	3332.2	2958.2	2569.8	2214.6	1983.0	1914.6	1927.8	1942.9	1941.0	1941.0
27.5°	3504.8	3398.7	2889.8	2399.1	1994.3	1829.9	1838.1	1886.4	1909.0	1908.3	1907.7
30°	3652.3	3474.0	2802.6	2193.9	1788.5	1722.0	1771.5	1830.5	1861.3	1860.0	1860.6
32.5°	3833.6	3556.9	2684.0	1964.8	1639.8	1642.3	1699.4	1757.7	1793.5	1790.4	1791.0
35°	4045.7	3649.8	2523.3	1738.9	1541.2	1578.9	1624.1	1664.9	1698.7	1694.3	1690.0
37.5°	4276.7	3740.7	2310.0	1536.8	1460.9	1519.9	1557.5	1564.4	1580.1	1568.8	1560.7
40°	4496.3	3810.4	2035.1	1371.2	1380.0	1469.7	1494.2	1466.6	1438.3	1434.5	1423.3
42.5°	4687.7	3833.6	1757.1	1238.8	1294.6	1417.0	1432.0	1374.3	1323.5	1299.6	1289.6
45°	4889.8	3841.8	1497.9	1127.7	1212.4	1369.9	1386.2	1309.0	1237.5	1186.0	1169.1
47.5°	5154.0	3900.8	1296.5	1045.5	1149.6	1338.5	1361.8	1257.0	1164.1	1090.7	1075.0
50°	5499.7	4017.5	1132.7	982.7	1108.9	1317.8	1344.2	1206.1	1103.8	1015.4	999.7
52.5°	5883.8	4124.8	1000.3	931.9	1069.3	1281.4	1321.6	1169.7	1047.4	945.7	928.8
55°	6152.4	4042.6	893.6	879.2	1017.9	1229.3	1290.2	1139.0	966.4	877.9	862.9
57.5°	6203.8	3761.5	812.7	824.6	955.7	1164.1	1241.9	1070.6	922.5	848.4	832.7
60°	6063.3	3369.9	752.4	774.4	889.2	1081.9	1151.5	1022.3	880.4	817.1	803.9
62.5°	5710.0	2968.9	707.9	729.2	827.1	998.4	1095.1	971.4	837.8	781.3	768.1
65°	4996.4	2492.6	665.2	689.0	769.4	926.2	1044.2	924.4	795.7	752.4	739.9
67.5°	3771.5	1866.9	625.0	646.4	717.9	863.5	989.0	877.9	754.9	727.3	712.3
70°	2220.9	1169.1	579.2	601.8	663.9	798.2	930.0	827.1	704.1	691.5	672.1
72.5°	1033.6	703.5	527.1	549.1	596.2	711.0	854.1	760.6	643.9	616.2	589.9
75°	616.9	514.6	465.6	485.1	518.3	618.1	758.7	692.8	586.7	550.3	522.7
77.5°	461.2	393.5	397.9	418.6	445.6	540.9	672.1	639.5	542.8	514.6	495.8
80°	332.0	298.7	324.4	347.0	375.3	492.0	643.9	591.1	490.7	453.1	435.5
82.5°	221.5	214.6	244.1	267.3	294.9	430.5	604.9	517.7	419.2	371.5	332.6
85°	122.4	129.3	164.4	174.5	198.3	303.1	495.8	416.1	315.7	254.2	242.9
87.5°	50.8	59.6	88.5	85.3	105.4	180.7	326.3	251.0	200.8	150.0	116.7
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)