

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: P318949

Luminaire Tested: **GAN-SA5A-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318949
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-SA5A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19343 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 162
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

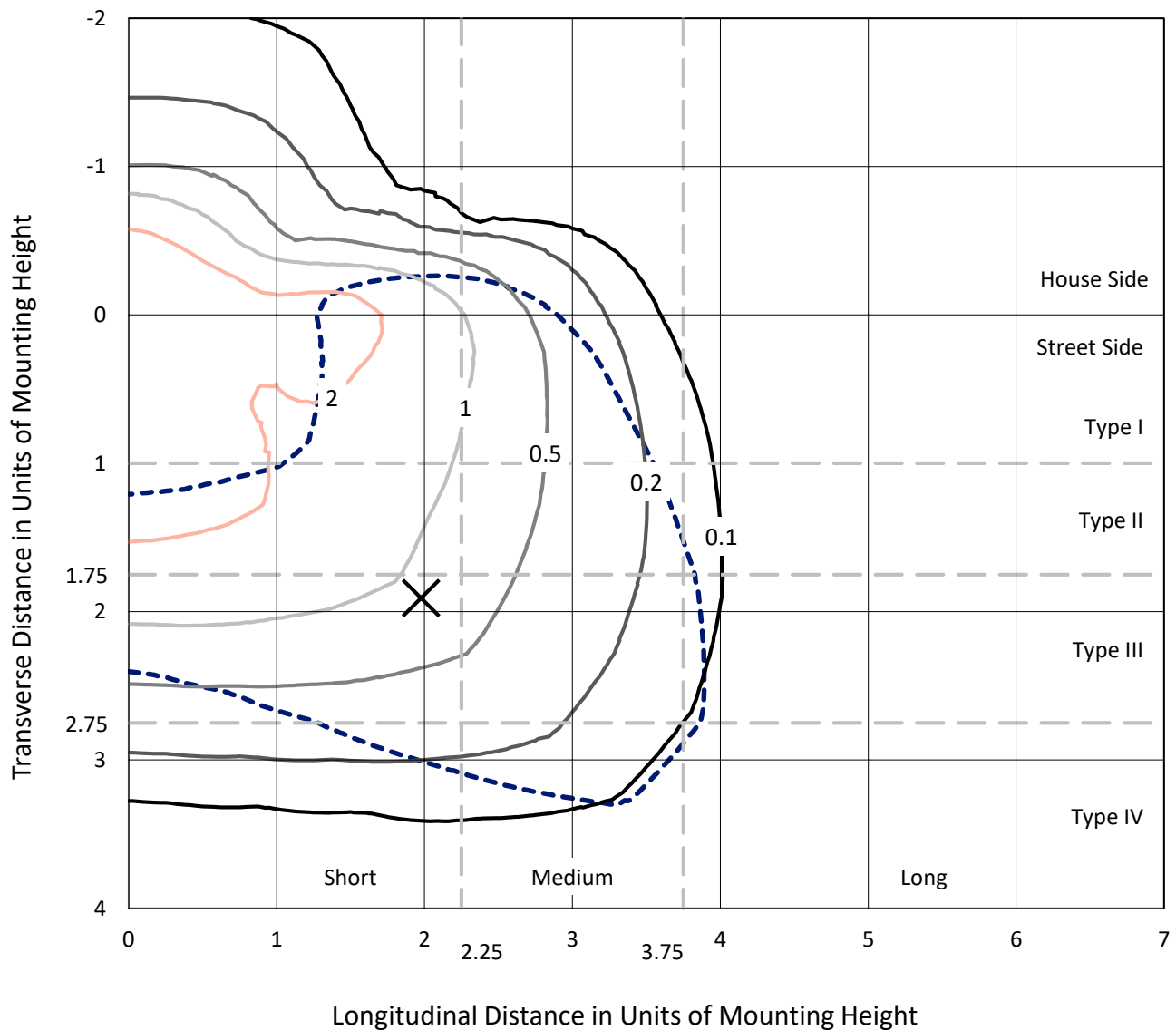


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Iso-Footcandle Lines of Horizontal Illumination

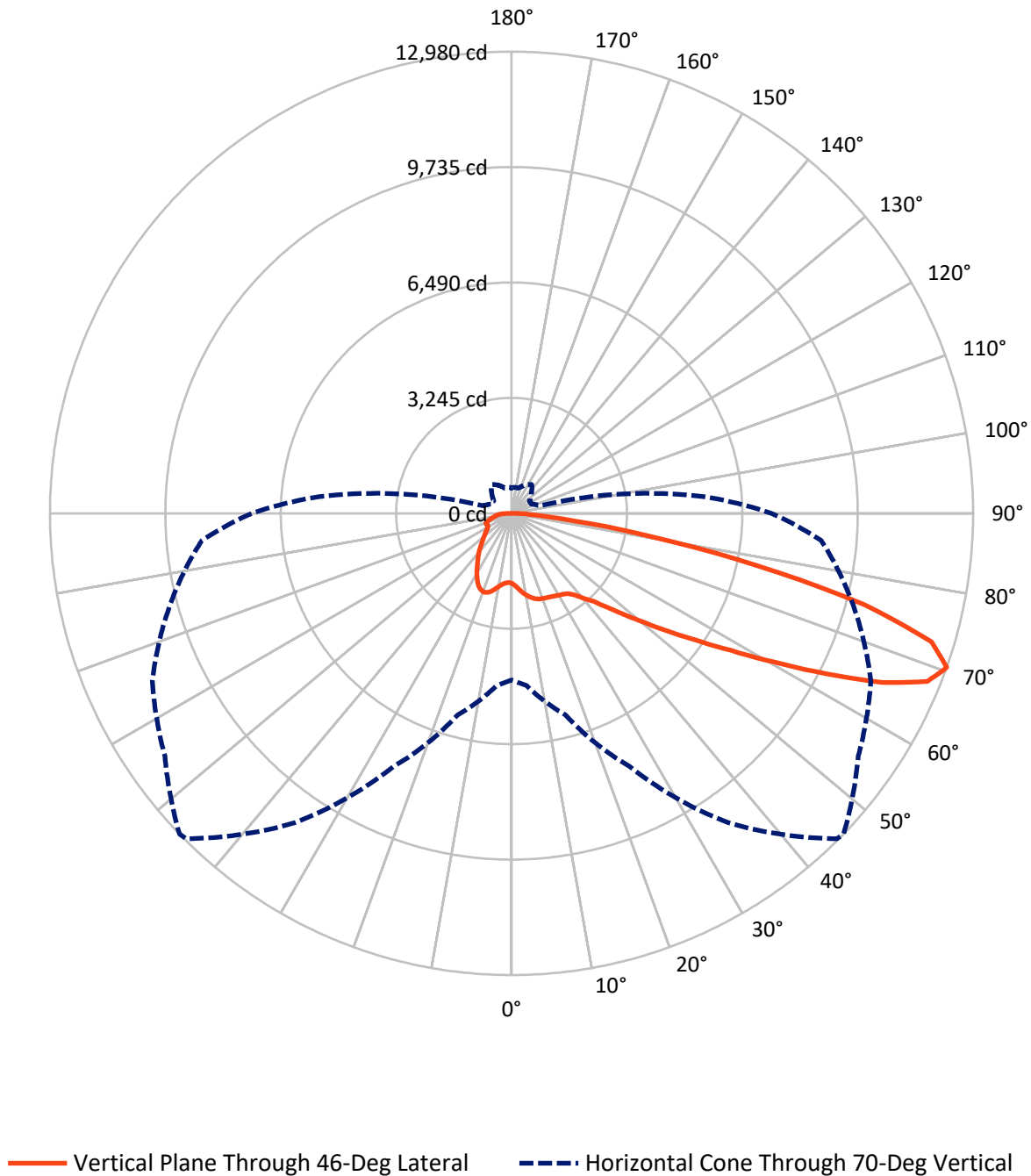
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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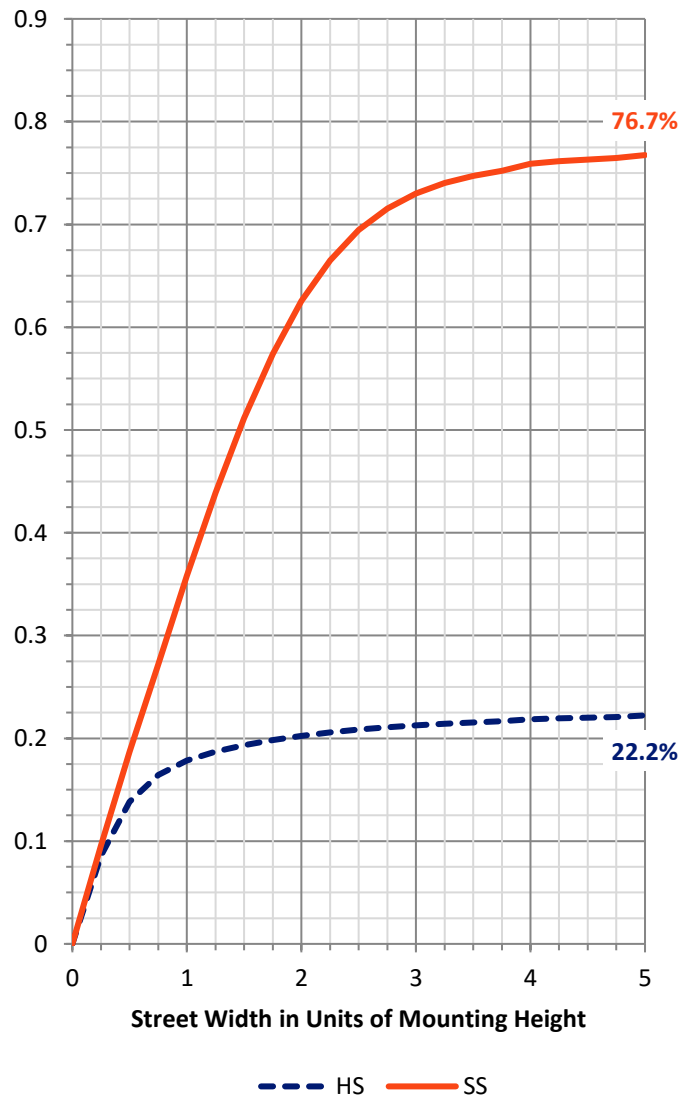
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4433.4	0.0	4433.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14909.6	0.0	14909.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	19343.0	0.0	19343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.0
10°-20°	669.3	3.5
20°-30°	1116.0	5.8
30°-40°	1583.7	8.2
40°-50°	2329.5	12.0
50°-60°	3945.1	20.4
60°-70°	5600.0	29.0
70°-80°	3402.0	17.6
80°-90°	496.5	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°	19343.0	100.0
0°-180°	19343.0	100.0

Coefficient of Utilization



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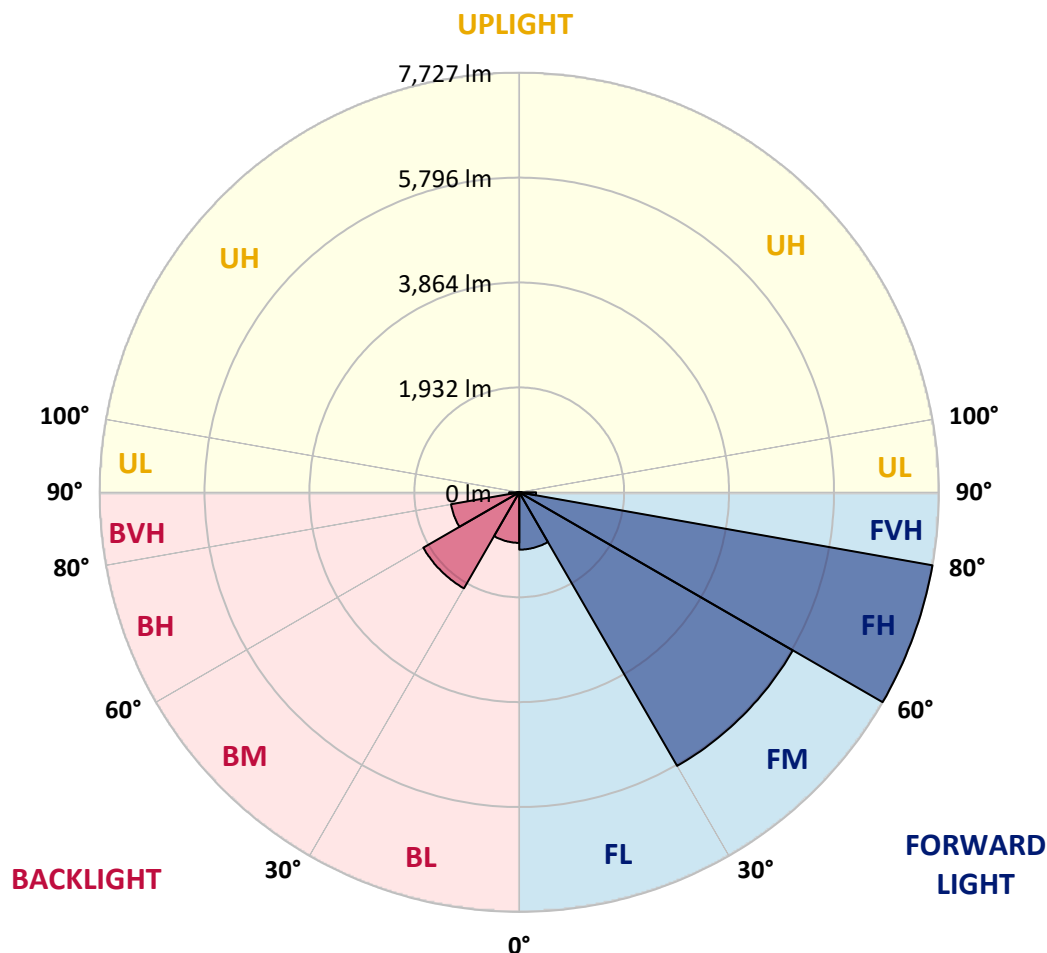
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.4	5.5			
FM	(30°-60°)	5817.5	30.1			
FH	(60°-80°)	7727.4	39.9			G4/12000
FVH	(80°-90°)	309.3	1.6			G3/500
BL	(0°-30°)	930.8	4.8	B2/1000		
BM	(30°-60°)	2040.8	10.6	B2/2500		
BH	(60°-80°)	1274.6	6.6	B3/2500		G3/2500
BVH	(80°-90°)	187.2	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	2069.3	2070.6	2073.3	2066.7	2048.1	2042.8	2040.8	2021.6	2009.1	1990.5	1974.6
5°	2234.8	2236.1	2232.1	2213.6	2172.6	2142.1	2139.5	2095.8	2056.1	2013.7	1981.9
7.5°	2407.6	2409.6	2397.0	2361.9	2304.3	2251.3	2248.0	2188.5	2128.2	2064.0	2016.3
10°	2560.5	2552.5	2532.0	2483.0	2414.9	2350.0	2347.3	2285.1	2215.6	2138.2	2074.6
12.5°	2662.4	2655.8	2629.3	2569.8	2495.0	2435.4	2430.1	2372.5	2305.0	2220.2	2144.1
15°	2718.7	2723.3	2687.6	2620.1	2547.2	2496.9	2492.3	2451.3	2391.0	2305.6	2218.2
17.5°	2726.0	2729.9	2695.5	2628.7	2569.1	2534.7	2532.7	2505.5	2461.9	2379.8	2288.4
20°	2683.6	2686.3	2657.8	2602.9	2563.8	2553.2	2552.5	2540.6	2508.2	2435.4	2346.7
22.5°	2622.0	2624.0	2603.5	2563.8	2550.6	2567.1	2571.7	2567.1	2543.9	2475.8	2392.3
25°	2606.8	2605.5	2584.3	2543.9	2555.2	2590.3	2596.2	2598.2	2582.3	2522.8	2450.6
27.5°	2680.3	2675.7	2635.3	2570.4	2577.7	2620.1	2628.0	2647.2	2637.3	2585.0	2516.8
30°	2892.8	2884.8	2802.1	2671.0	2635.3	2657.1	2667.1	2697.5	2699.5	2655.8	2604.8
32.5°	3251.6	3241.6	3093.4	2859.0	2732.6	2694.9	2704.1	2749.8	2774.3	2740.5	2685.6
35°	3705.0	3693.8	3499.2	3178.8	2895.4	2767.0	2773.6	2810.0	2859.0	2811.4	2738.6
37.5°	4177.7	4150.5	3963.2	3554.8	3154.3	2921.3	2921.3	2925.9	2949.1	2849.8	2800.8
40°	4647.7	4620.5	4451.1	3997.0	3489.2	3164.2	3149.0	3046.4	3027.8	2942.4	2925.9
42.5°	5084.6	5076.6	4976.7	4496.7	3882.4	3403.2	3382.0	3207.9	3211.9	3158.9	3159.6
45°	5549.3	5549.3	5467.8	5001.2	4340.5	3787.1	3765.9	3509.7	3549.5	3525.0	3583.9
47.5°	5928.6	5940.5	5929.2	5526.8	4873.4	4275.0	4236.6	3928.1	4039.3	4123.4	4294.8
50°	6315.8	6334.4	6336.3	6103.3	5517.5	4854.9	4811.2	4483.5	4731.7	4972.7	5309.6
52.5°	6877.8	6919.5	6753.4	6678.6	6306.6	5543.3	5500.3	5197.8	5612.1	5950.4	6531.0
55°	7398.8	7362.4	7243.9	7290.2	7151.2	6327.1	6294.6	6029.2	6593.2	7032.7	7786.7
57.5°	7680.8	7678.1	7797.3	7995.9	8062.1	7293.5	7266.4	7008.2	7699.3	8029.6	8965.7
60°	8011.8	8016.4	8311.6	8762.4	9035.2	8497.0	8485.1	8289.1	8773.7	8960.4	9890.4
62.5°	8058.1	8141.5	8649.9	9425.7	9946.0	9903.0	9929.5	9442.9	9734.9	9703.1	10580.9
65°	7525.2	7635.1	8555.2	9626.3	10851.6	11440.8	11465.3	10603.4	10492.8	10337.9	10827.8
67.5°	6433.0	6595.8	7595.4	9190.1	11150.2	12577.4	12611.8	11503.0	11121.7	10553.1	10233.3
70°	4681.4	4862.1	5868.3	7848.9	10617.9	12940.8	12979.8	11900.8	11145.5	9940.7	8736.0
72.5°	2827.9	2969.6	3799.0	5778.3	8961.7	12278.8	12348.3	11396.4	10175.7	8420.2	6450.9
75°	1241.8	1334.5	1837.0	3329.7	6415.8	10159.2	10245.9	9754.7	8268.0	6119.2	3812.9
77.5°	528.9	555.4	753.3	1446.4	3626.9	6942.0	7061.2	7127.4	5609.5	3329.7	1611.2
80°	329.7	340.3	426.3	654.7	1697.3	3899.0	4027.4	4193.6	2785.6	1224.0	562.7
82.5°	200.6	212.5	283.3	395.9	883.7	1767.4	1829.0	1946.2	1081.0	528.9	291.3
85°	120.5	129.1	173.4	250.2	503.1	695.1	694.4	767.9	509.1	340.3	153.6
87.5°	57.6	64.2	92.7	129.7	253.5	260.8	244.3	276.7	309.1	223.1	77.5
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°	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	1969.3	1966.7	1958.1	1951.5	1950.2	1946.2	1942.9	1944.9	1947.5	1948.2	1948.2
5°	1968.7	1961.4	1950.2	1945.5	1951.5	1959.4	1969.3	1982.6	1990.5	1996.5	2000.5
7.5°	2000.5	1986.6	1974.0	1971.3	1983.3	2004.4	2026.9	2054.7	2073.9	2087.2	2089.8
10°	2053.4	2036.2	2023.6	2026.3	2047.5	2077.9	2109.7	2145.4	2174.6	2192.4	2193.8
12.5°	2114.3	2097.8	2085.9	2097.1	2132.2	2169.3	2202.4	2233.5	2260.0	2277.8	2277.8
15°	2184.5	2172.6	2158.7	2184.5	2232.1	2265.2	2279.1	2294.4	2308.9	2322.2	2319.5
17.5°	2252.0	2240.8	2233.5	2263.9	2313.6	2328.8	2319.5	2308.3	2308.3	2315.6	2316.9
20°	2310.3	2300.3	2305.0	2334.8	2360.6	2344.7	2310.3	2274.5	2260.0	2263.9	2267.9
22.5°	2361.2	2356.6	2370.5	2384.4	2365.9	2310.3	2246.7	2198.4	2180.5	2179.2	2180.5
25°	2420.8	2420.1	2437.4	2412.2	2330.1	2227.5	2142.1	2095.1	2085.2	2093.1	2106.4
27.5°	2495.0	2502.2	2510.8	2418.8	2257.3	2102.4	2015.7	1983.3	1993.2	2012.4	2025.0
30°	2589.6	2609.5	2590.9	2402.3	2152.7	1959.4	1876.7	1867.4	1894.5	1921.7	1934.9
32.5°	2681.6	2712.7	2667.7	2359.2	2017.7	1807.8	1743.6	1741.0	1774.1	1800.5	1819.1
35°	2755.8	2817.3	2725.3	2273.9	1861.4	1668.2	1621.2	1603.3	1615.2	1646.3	1667.5
37.5°	2852.4	2955.0	2765.0	2143.4	1692.0	1553.0	1498.0	1457.0	1446.4	1459.0	1469.6
40°	3029.2	3164.9	2783.6	1961.4	1526.5	1437.8	1382.2	1321.9	1280.2	1249.8	1250.5
42.5°	3317.8	3438.3	2771.7	1740.3	1373.6	1325.3	1262.4	1192.9	1125.3	1056.5	1051.2
45°	3786.4	3844.7	2735.9	1506.0	1239.2	1207.4	1148.5	1079.0	989.0	910.9	903.6
47.5°	4536.5	4407.4	2680.3	1301.4	1120.7	1107.5	1053.2	973.1	877.8	814.9	809.6
50°	5559.2	5219.6	2653.2	1138.6	1016.1	1020.1	975.7	891.0	801.0	754.6	749.3
52.5°	6782.5	6165.6	2705.5	1012.8	932.0	945.9	912.9	833.4	758.0	721.5	716.2
55°	8051.5	7145.3	2761.7	921.5	852.6	879.8	868.5	803.0	734.8	701.0	696.4
57.5°	9137.8	7876.7	2649.2	847.3	781.8	824.1	834.1	783.8	722.9	692.4	687.1
60°	9821.6	8171.3	2354.0	777.8	725.5	779.8	814.2	778.5	727.5	724.9	720.9
62.5°	10146.0	8145.5	1911.1	722.9	690.4	760.6	828.8	808.3	780.5	804.3	806.3
65°	10000.3	7756.3	1423.2	686.5	665.3	767.9	872.5	864.5	795.7	819.5	822.8
67.5°	9041.8	6827.5	1053.9	654.7	637.5	788.4	951.9	883.1	765.9	783.1	772.5
70°	7308.1	5412.9	812.9	618.9	609.0	785.8	987.7	871.8	733.5	737.4	709.0
72.5°	5039.5	3691.1	661.3	585.8	568.0	716.2	962.5	844.0	706.3	675.9	638.1
75°	2740.5	1981.3	562.0	551.4	495.8	628.9	916.2	824.1	681.8	641.4	620.3
77.5°	1078.3	822.2	487.9	504.4	433.6	555.4	864.5	786.4	648.1	595.1	584.5
80°	440.2	419.7	404.5	436.2	372.7	485.9	802.3	742.1	607.7	552.1	530.9
82.5°	249.6	260.8	314.4	344.2	302.5	447.5	772.5	706.3	559.4	494.5	469.3
85°	127.8	152.9	219.1	246.9	222.4	380.6	711.6	618.3	448.8	378.6	380.6
87.5°	61.6	85.4	138.4	154.9	144.3	275.4	531.6	448.2	349.5	276.7	268.1
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)