

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: P318977

Luminaire Tested: **GAN-SA3D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318977
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-SA3D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19672 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

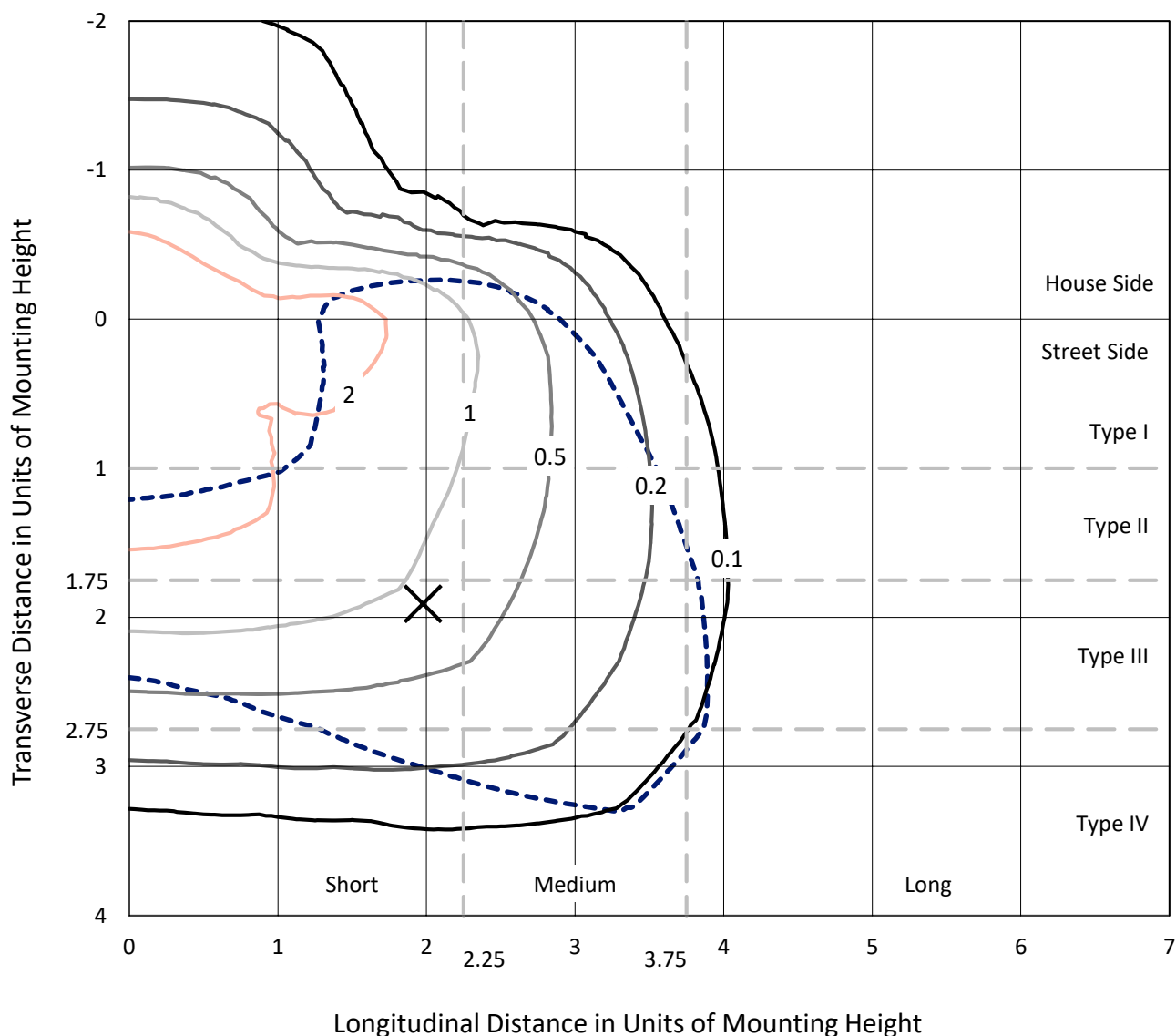
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

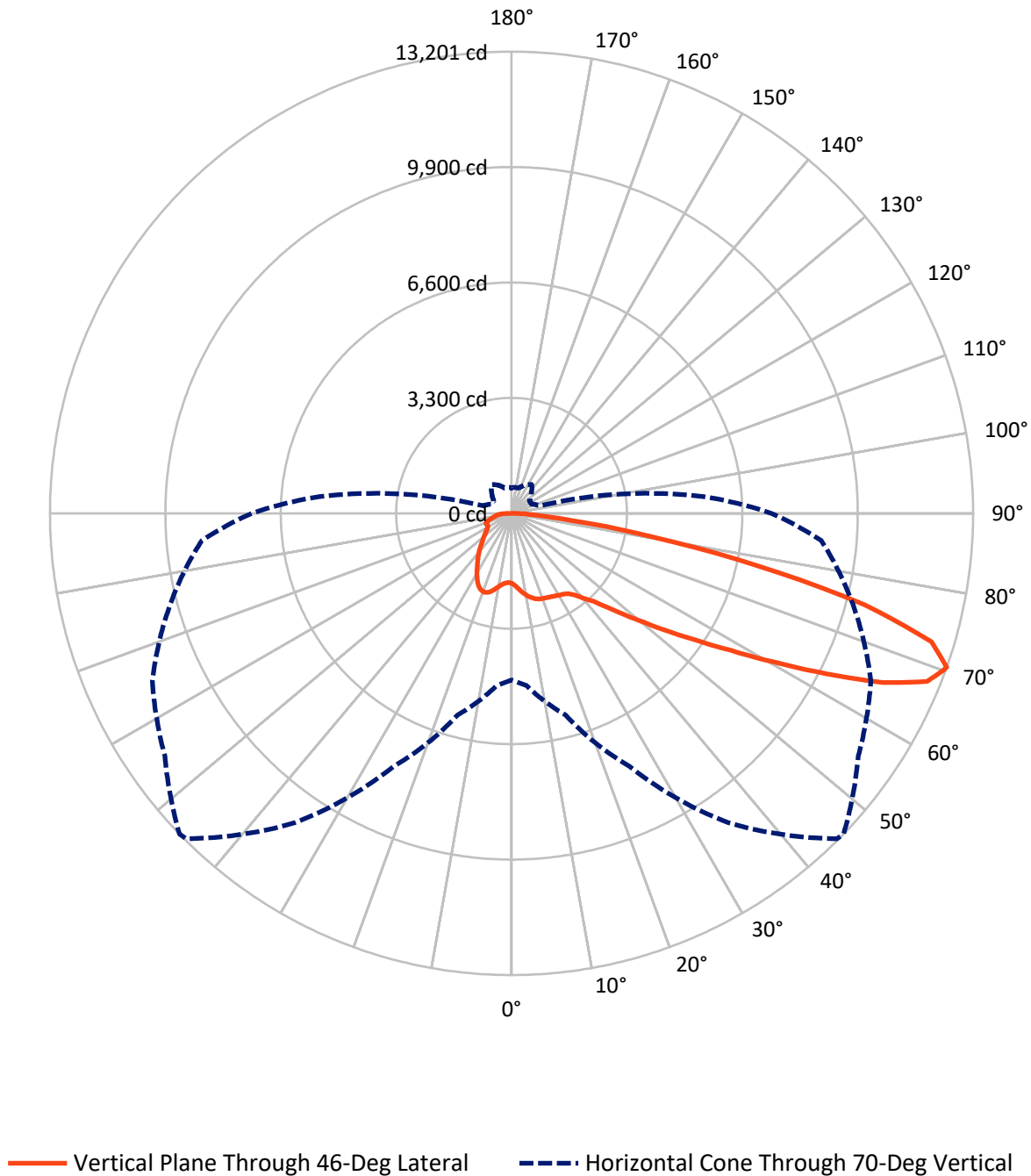
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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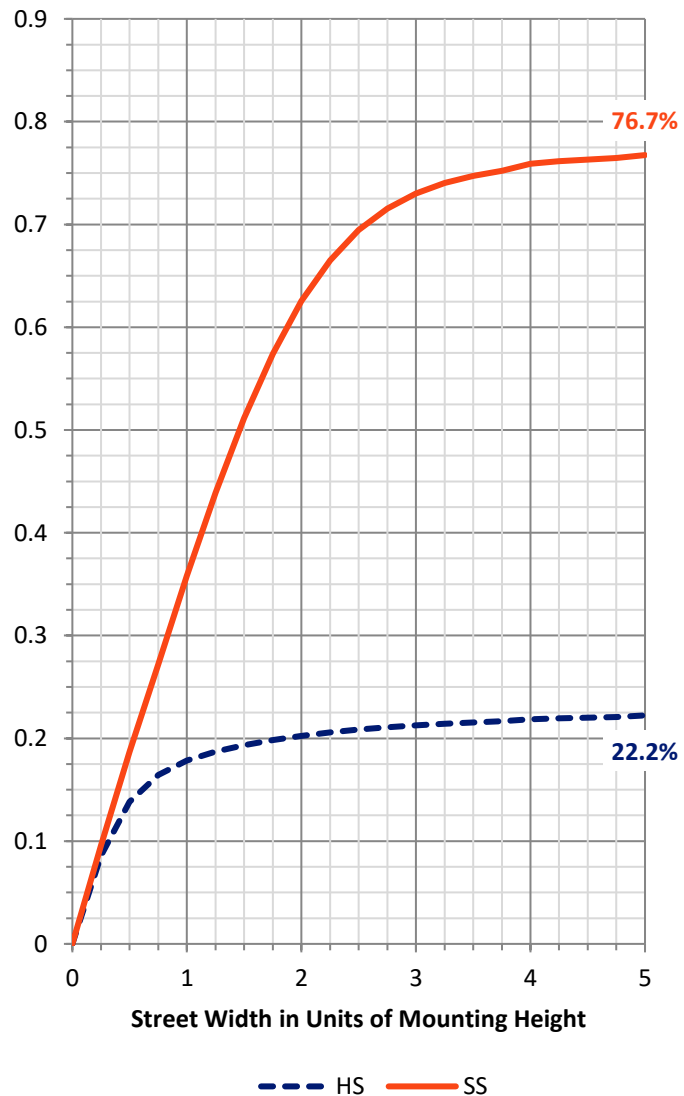
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4508.8	0.0	4508.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15163.2	0.0	15163.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	19672.0	0.0	19672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.0
10°-20°	680.7	3.5
20°-30°	1135.0	5.8
30°-40°	1610.6	8.2
40°-50°	2369.2	12.0
50°-60°	4012.2	20.4
60°-70°	5695.2	29.0
70°-80°	3459.9	17.6
80°-90°	504.9	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°	19672.0	100.0
0°-180°	19672.0	100.0

Coefficient of Utilization



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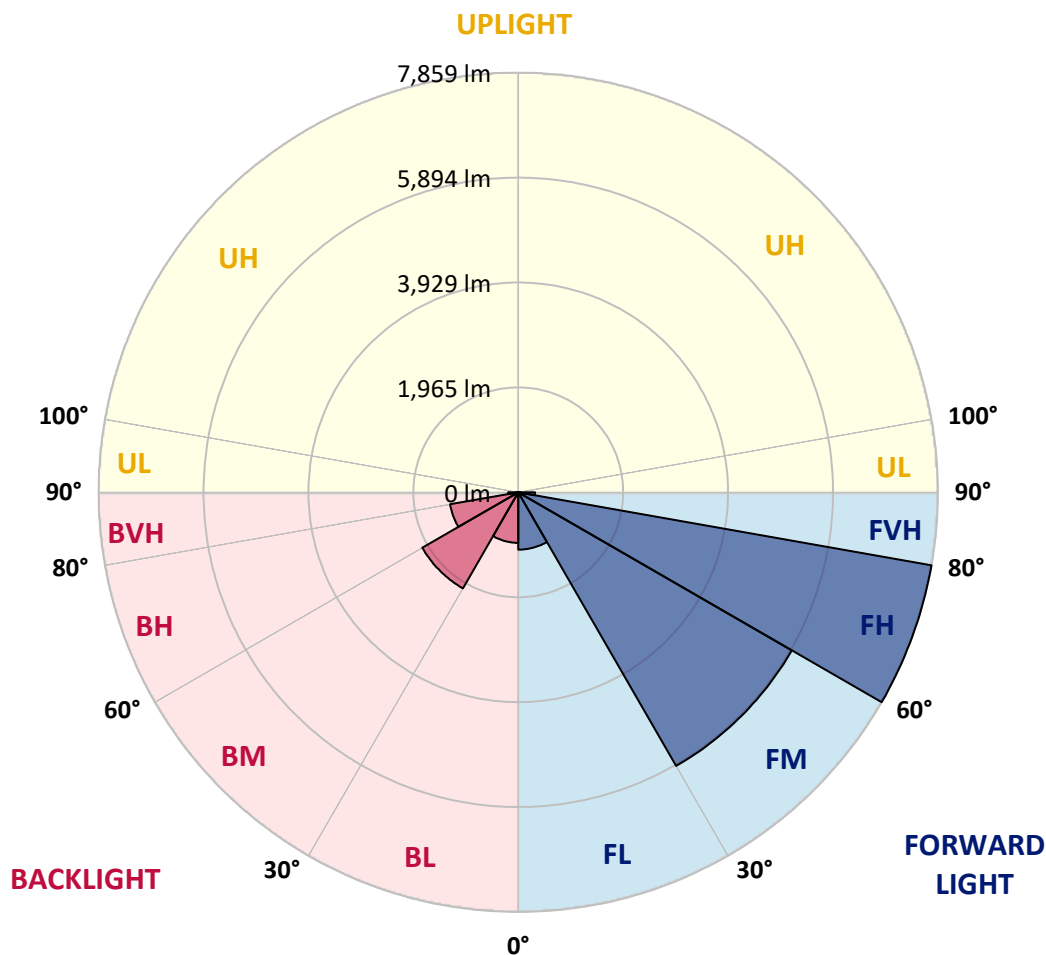
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.4	5.5			
FM	(30°-60°)	5916.5	30.1			
FH	(60°-80°)	7858.8	39.9			G4/12000
FVH	(80°-90°)	314.5	1.6			G3/500
BL	(0°-30°)	946.6	4.8	B2/1000		
BM	(30°-60°)	2075.5	10.6	B2/2500		
BH	(60°-80°)	1296.2	6.6	B3/2500		G3/2500
BVH	(80°-90°)	190.4	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°	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2
2.5°	2104.5	2105.8	2108.5	2101.8	2083.0	2077.6	2075.6	2056.0	2043.2	2024.4	2008.2
5°	2272.8	2274.2	2270.1	2251.3	2209.5	2178.6	2175.9	2131.4	2091.0	2048.0	2015.6
7.5°	2448.5	2450.5	2437.7	2402.1	2343.5	2289.6	2286.3	2225.7	2164.4	2099.1	2050.6
10°	2604.0	2596.0	2575.1	2525.3	2455.9	2389.9	2387.3	2324.0	2253.3	2174.5	2109.9
12.5°	2707.7	2701.0	2674.1	2613.5	2537.4	2476.8	2471.4	2412.8	2344.2	2258.0	2180.6
15°	2764.9	2769.6	2733.3	2664.6	2590.6	2539.4	2534.7	2493.0	2431.7	2344.8	2256.0
17.5°	2772.3	2776.4	2741.4	2673.4	2612.8	2577.8	2575.8	2548.2	2503.7	2420.2	2327.3
20°	2729.3	2731.9	2703.0	2647.1	2607.4	2596.6	2596.0	2583.8	2550.9	2476.8	2386.6
22.5°	2666.6	2668.7	2647.8	2607.4	2593.9	2610.8	2615.5	2610.8	2587.2	2517.9	2433.0
25°	2651.2	2649.8	2628.3	2587.2	2598.6	2634.3	2640.4	2642.4	2626.3	2565.7	2492.3
27.5°	2725.9	2721.2	2680.1	2614.1	2621.5	2664.6	2672.7	2692.2	2682.1	2628.9	2559.6
30°	2942.0	2933.9	2849.8	2716.5	2680.1	2702.3	2712.4	2743.4	2745.4	2701.0	2649.1
32.5°	3306.9	3296.8	3146.0	2907.7	2779.1	2740.7	2750.1	2796.6	2821.5	2787.2	2731.3
35°	3768.0	3756.6	3558.7	3232.8	2944.7	2814.1	2820.8	2857.8	2907.7	2859.2	2785.1
37.5°	4248.7	4221.1	4030.6	3615.2	3207.9	2970.9	2970.9	2975.7	2999.2	2898.2	2848.4
40°	4726.7	4699.1	4526.8	4064.9	3548.6	3218.0	3202.5	3098.2	3079.3	2992.5	2975.7
42.5°	5171.0	5163.0	5061.3	4573.2	3948.5	3461.1	3439.5	3262.4	3266.5	3212.6	3213.3
45°	5643.6	5643.6	5560.8	5086.2	4414.3	3851.5	3830.0	3569.4	3609.8	3584.9	3644.8
47.5°	6029.4	6041.5	6030.1	5620.8	4956.3	4347.7	4308.6	3994.9	4108.0	4193.5	4367.9
50°	6423.2	6442.1	6444.1	6207.1	5611.3	4937.4	4893.0	4559.8	4812.2	5057.3	5399.9
52.5°	6994.8	7037.2	6868.2	6792.2	6413.8	5637.6	5593.8	5286.2	5707.6	6051.6	6642.0
55°	7524.6	7487.6	7367.1	7414.2	7272.9	6434.7	6401.7	6131.7	6705.3	7152.3	7919.1
57.5°	7811.4	7808.7	7929.9	8131.9	8199.2	7417.6	7390.0	7127.4	7830.3	8166.2	9118.2
60°	8148.0	8152.8	8453.0	8911.5	9188.9	8641.5	8629.4	8430.1	8922.9	9112.8	10058.7
62.5°	8195.2	8280.0	8797.0	9586.1	10115.2	10071.5	10098.4	9603.6	9900.5	9868.1	10760.8
65°	7653.2	7765.0	8700.8	9790.0	11036.2	11635.4	11660.3	10783.7	10671.3	10513.8	11011.9
67.5°	6542.4	6708.0	7724.6	9346.4	11339.8	12791.3	12826.3	11698.6	11310.9	10732.6	10407.4
70°	4761.0	4944.8	5968.1	7982.4	10798.5	13160.9	13200.6	12103.2	11335.1	10109.8	8884.6
72.5°	2876.0	3020.1	3863.6	5876.6	9114.1	12487.7	12558.3	11590.2	10348.8	8563.4	6560.6
75°	1263.0	1357.2	1868.2	3386.3	6524.9	10332.0	10420.2	9920.6	8408.6	6223.3	3877.8
77.5°	537.9	564.8	766.1	1471.0	3688.6	7060.1	7181.3	7248.6	5704.9	3386.3	1638.6
80°	335.3	346.0	433.6	665.8	1726.1	3965.3	4095.9	4264.9	2832.9	1244.8	572.2
82.5°	204.0	216.1	288.1	402.6	898.8	1797.5	1860.1	1979.3	1099.4	537.9	296.2
85°	122.5	131.3	176.4	254.5	511.7	706.9	706.2	780.9	517.7	346.0	156.2
87.5°	58.6	65.3	94.3	132.0	257.8	265.3	248.4	281.4	314.4	226.9	78.8
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°	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2	2004.2
2.5°	2002.8	2000.2	1991.4	1984.7	1983.3	1979.3	1975.9	1977.9	1980.6	1981.3	1981.3
5°	2002.2	1994.8	1983.3	1978.6	1984.7	1992.7	2002.8	2016.3	2024.4	2030.4	2034.5
7.5°	2034.5	2020.3	2007.6	2004.9	2017.0	2038.5	2061.4	2089.7	2109.2	2122.7	2125.4
10°	2088.3	2070.8	2058.0	2060.7	2082.3	2113.3	2145.6	2181.9	2211.5	2229.7	2231.1
12.5°	2150.3	2133.5	2121.3	2132.8	2168.5	2206.2	2239.8	2271.5	2298.4	2316.6	2316.6
15°	2221.6	2209.5	2195.4	2221.6	2270.1	2303.8	2317.9	2333.4	2348.2	2361.7	2359.0
17.5°	2290.3	2278.9	2271.5	2302.4	2352.9	2368.4	2359.0	2347.5	2347.5	2354.9	2356.3
20°	2349.6	2339.5	2344.2	2374.5	2400.7	2384.6	2349.6	2313.2	2298.4	2302.4	2306.5
22.5°	2401.4	2396.7	2410.8	2425.0	2406.1	2349.6	2284.9	2235.8	2217.6	2216.3	2217.6
25°	2462.0	2461.3	2478.8	2453.2	2369.8	2265.4	2178.6	2130.8	2120.7	2128.7	2142.2
27.5°	2537.4	2544.8	2553.5	2460.0	2295.7	2138.2	2050.0	2017.0	2027.1	2046.6	2059.4
30°	2633.7	2653.9	2635.0	2443.1	2189.3	1992.7	1908.6	1899.2	1926.8	1954.4	1967.8
32.5°	2727.2	2758.9	2713.1	2399.4	2052.0	1838.6	1773.3	1770.6	1804.2	1831.2	1850.0
35°	2802.6	2865.2	2771.7	2312.5	1893.1	1696.5	1648.7	1630.6	1642.7	1674.3	1695.9
37.5°	2900.9	3005.3	2812.1	2179.9	1720.8	1579.4	1523.5	1481.8	1471.0	1483.8	1494.6
40°	3080.7	3218.7	2830.9	1994.8	1552.5	1462.2	1405.7	1344.4	1302.0	1271.0	1271.7
42.5°	3374.2	3496.7	2818.8	1769.9	1396.9	1347.8	1283.8	1213.2	1144.5	1074.5	1069.1
45°	3850.8	3910.1	2782.4	1531.6	1260.3	1228.0	1168.0	1097.4	1005.8	926.4	919.0
47.5°	4613.6	4482.3	2725.9	1323.6	1139.8	1126.3	1071.1	989.6	892.7	828.7	823.4
50°	5653.7	5308.4	2698.3	1157.9	1033.4	1037.4	992.3	906.2	814.6	767.5	762.1
52.5°	6897.9	6270.4	2751.5	1030.0	947.9	962.0	928.4	847.6	770.8	733.8	728.4
55°	8188.4	7266.8	2808.7	937.1	867.1	894.7	883.3	816.6	747.3	712.9	708.2
57.5°	9293.2	8010.7	2694.2	861.7	795.1	838.2	848.3	797.1	735.2	704.2	698.8
60°	9988.6	8310.3	2394.0	791.0	737.9	793.1	828.1	791.7	739.9	737.2	733.1
62.5°	10318.5	8284.0	1943.6	735.2	702.2	773.5	842.9	822.0	793.7	818.0	820.0
65°	10170.4	7888.2	1447.4	698.1	676.6	780.9	887.3	879.2	809.2	833.5	836.8
67.5°	9195.6	6943.6	1071.8	665.8	648.3	801.8	968.1	898.1	778.9	796.4	785.7
70°	7432.4	5505.0	826.7	629.5	619.4	799.1	1004.5	886.6	745.9	750.0	721.0
72.5°	5125.3	3753.9	672.6	595.8	577.6	728.4	978.9	858.4	718.3	687.4	649.0
75°	2787.2	2015.0	571.6	560.8	504.2	639.6	931.7	838.2	693.4	652.4	630.8
77.5°	1096.7	836.1	496.2	513.0	441.0	564.8	879.2	799.8	659.1	605.2	594.5
80°	447.7	426.8	411.3	443.7	379.0	494.1	815.9	754.7	618.0	561.5	539.9
82.5°	253.8	265.3	319.8	350.1	307.7	455.1	785.7	718.3	568.9	502.9	477.3
85°	129.9	155.5	222.8	251.1	226.2	387.1	723.7	628.8	456.4	385.1	387.1
87.5°	62.6	86.8	140.7	157.5	146.8	280.1	540.6	455.8	355.5	281.4	272.7
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)