

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: P319507

Luminaire Tested: **GAN-SA3A-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319507
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 11075 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

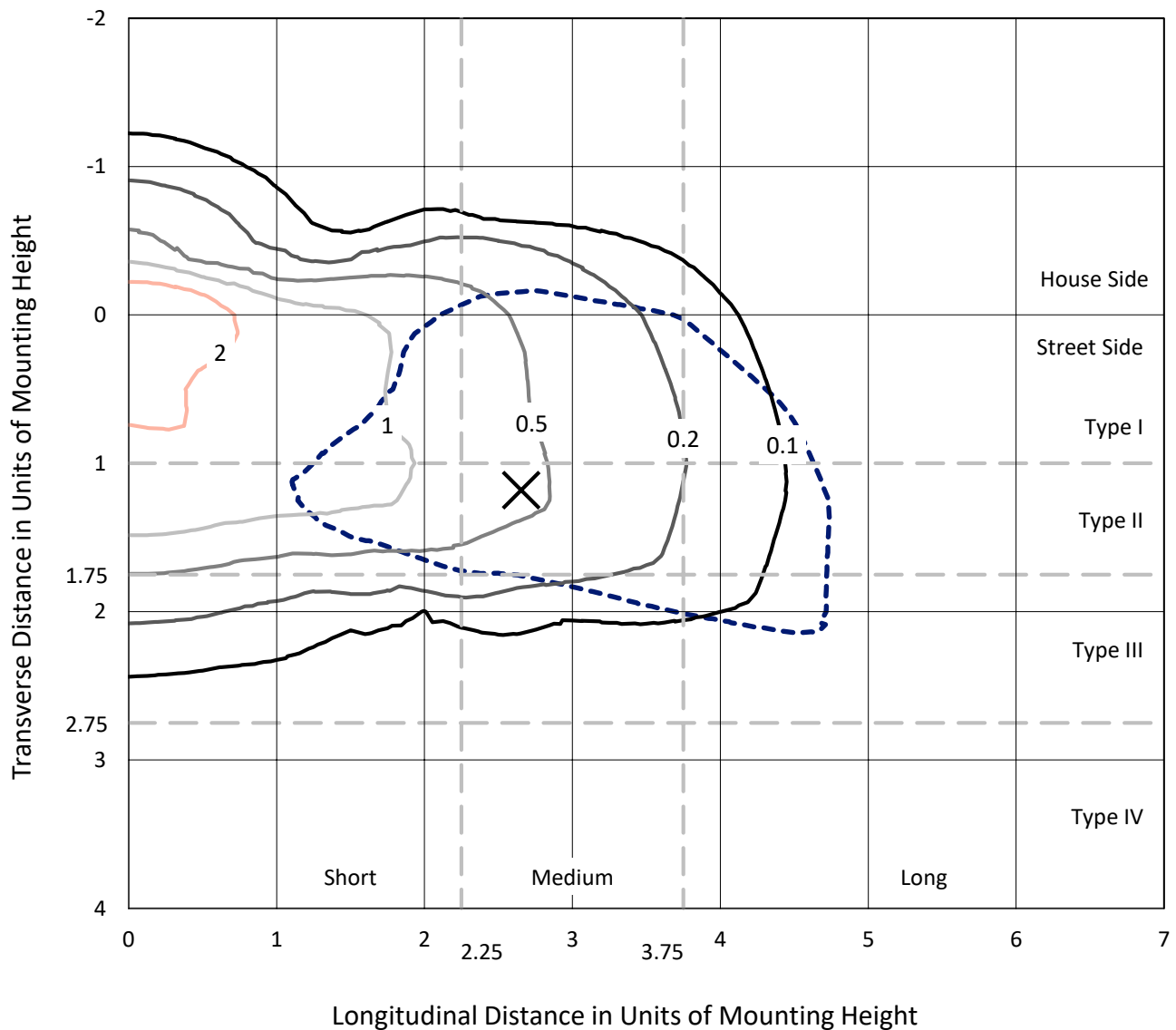
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

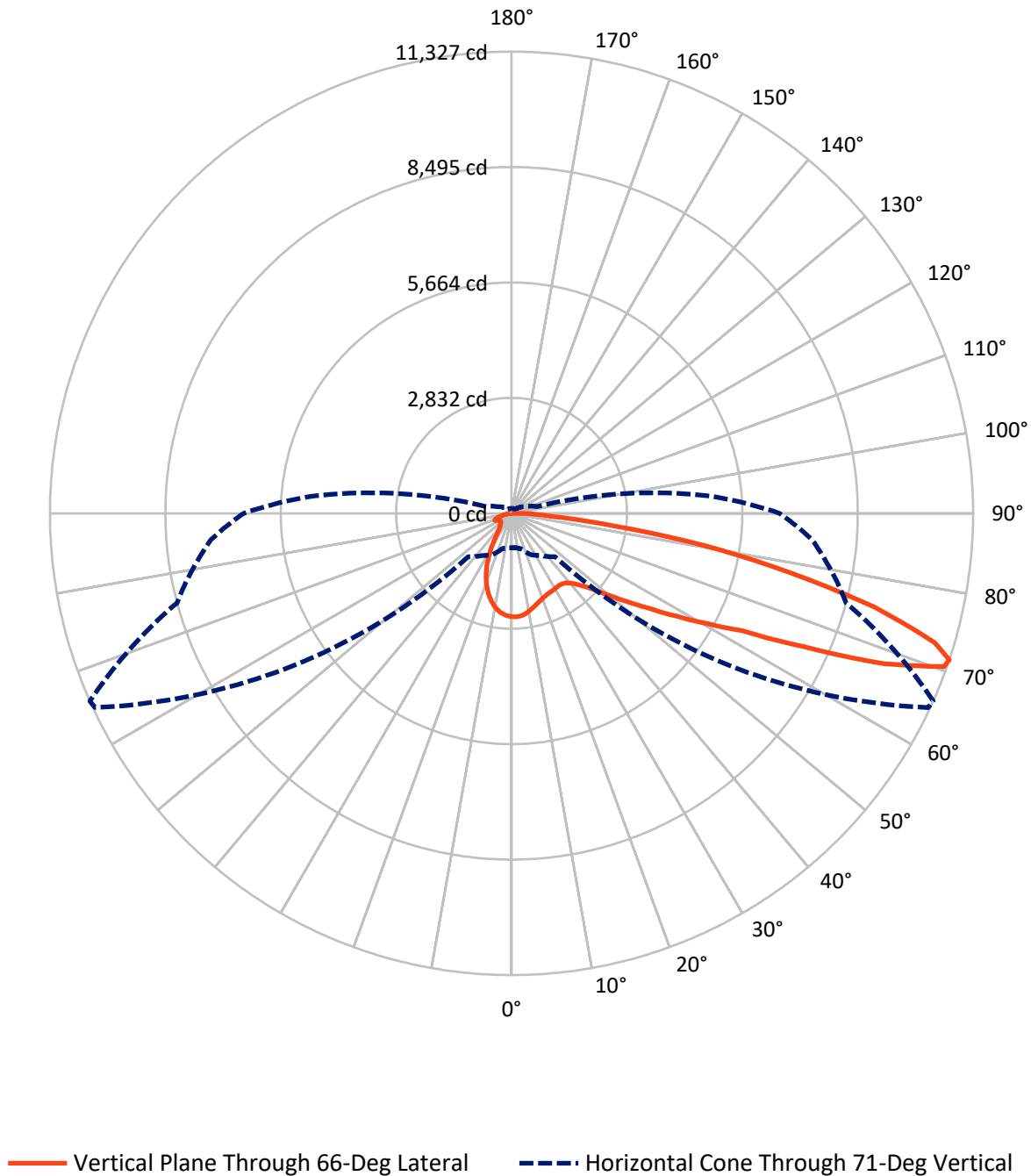
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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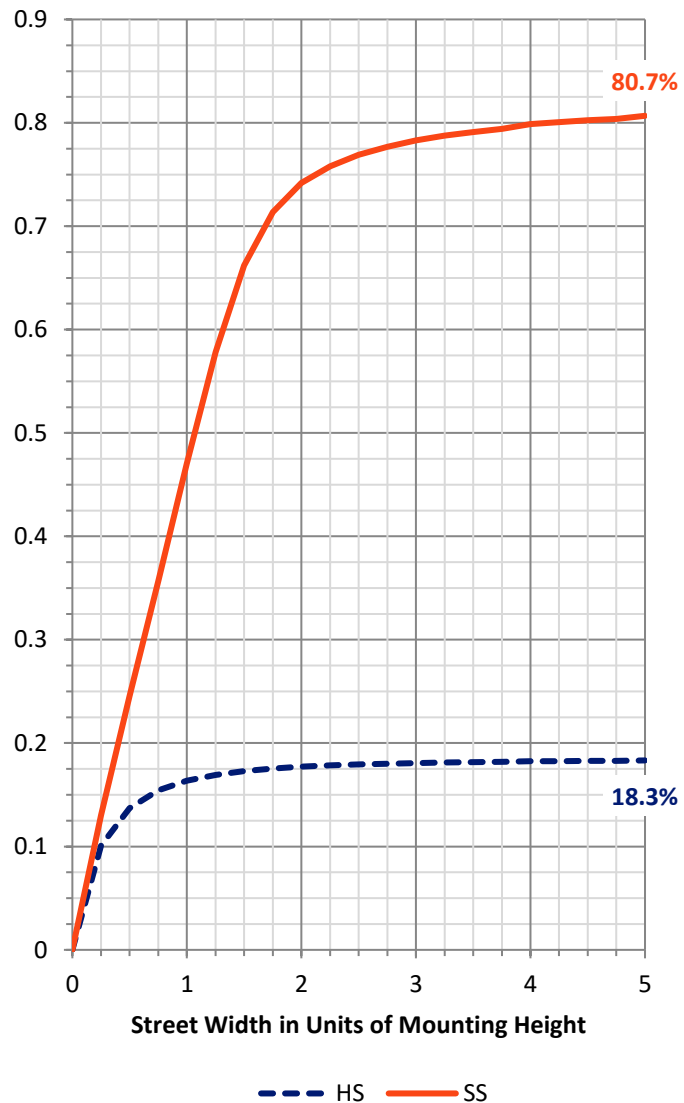
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2052.5	0.0	2052.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9022.5	0.0	9022.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	11075.0	0.0	11075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	2.0
10°-20°	535.6	4.8
20°-30°	719.5	6.5
30°-40°	946.5	8.5
40°-50°	1376.9	12.4
50°-60°	2150.8	19.4
60°-70°	2694.2	24.3
70°-80°	2055.1	18.6
80°-90°	373.2	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°	11075.0	100.0
0°-180°	11075.0	100.0

Coefficient of Utilization



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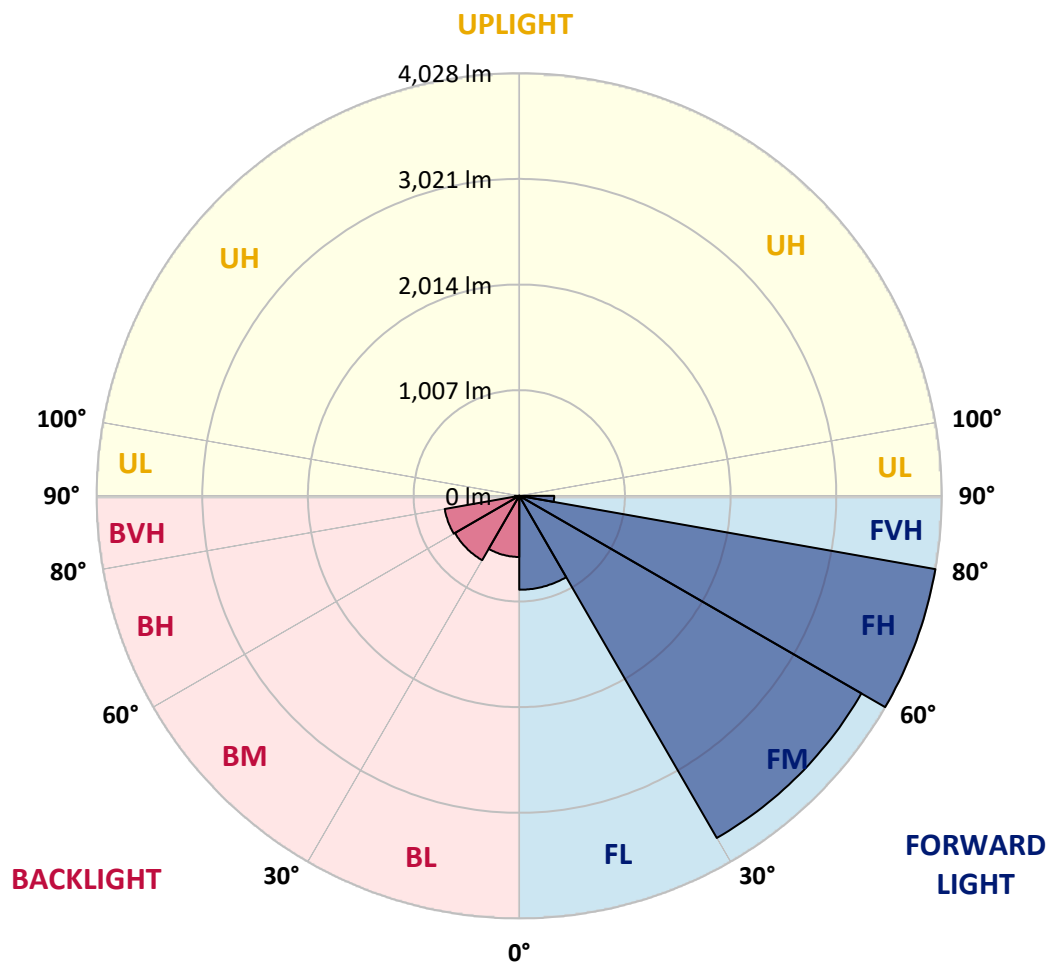
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	895.6	8.1			
FM	(30°-60°)	3766.1	34.0			
FH	(60°-80°)	4028.1	36.4			G2/5000
FVH	(80°-90°)	332.8	3.0			G3/500
BL	(0°-30°)	582.9	5.3	B2/1000		
BM	(30°-60°)	708.0	6.4	B1/1000		
BH	(60°-80°)	721.2	6.5	B2/1000		G2/1000
BVH	(80°-90°)	40.4	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°	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1
2.5°	2490.0	2486.2	2497.7	2509.5	2514.1	2521.8	2533.2	2539.7	2539.4	2540.5	2536.7
5°	2324.8	2319.9	2342.8	2361.6	2397.5	2438.0	2487.4	2522.5	2523.3	2543.2	2548.5
7.5°	2168.5	2165.0	2191.4	2221.6	2263.3	2325.2	2405.1	2480.9	2485.4	2539.4	2558.1
10°	2043.0	2042.3	2067.9	2100.8	2149.3	2218.5	2310.3	2421.2	2428.1	2521.0	2559.6
12.5°	1945.1	1946.7	1968.9	2006.3	2057.6	2129.8	2229.3	2354.3	2365.4	2491.9	2550.8
15°	1872.9	1879.0	1897.0	1934.8	1985.3	2058.7	2160.8	2292.3	2309.2	2459.4	2545.9
17.5°	1831.6	1838.5	1851.1	1882.4	1929.9	2000.6	2097.3	2241.5	2256.8	2434.6	2546.2
20°	1819.3	1825.1	1832.3	1851.5	1891.6	1955.9	2047.2	2195.6	2212.0	2414.7	2550.1
22.5°	1843.4	1847.6	1848.4	1846.9	1871.4	1923.7	2010.9	2162.0	2179.5	2401.7	2552.7
25°	1895.1	1900.8	1896.6	1882.4	1874.4	1906.5	1992.2	2139.8	2157.4	2392.1	2547.4
27.5°	1972.7	1973.4	1970.0	1951.6	1913.8	1908.4	1986.4	2126.8	2143.6	2381.1	2536.3
30°	2078.2	2083.2	2077.1	2052.2	1990.3	1939.0	1993.3	2114.2	2129.5	2366.9	2518.3
32.5°	2201.7	2214.0	2213.6	2187.6	2098.9	2007.5	2021.6	2106.5	2118.4	2352.0	2496.5
35°	2329.8	2346.6	2378.0	2366.9	2257.2	2115.7	2075.9	2118.7	2126.8	2350.1	2481.2
37.5°	2462.9	2479.7	2544.3	2574.2	2445.7	2270.6	2161.6	2162.0	2165.8	2373.4	2480.1
40°	2602.1	2620.0	2717.2	2794.8	2690.0	2466.7	2299.6	2252.2	2248.0	2430.8	2502.7
42.5°	2797.1	2813.1	2929.8	3028.8	2961.1	2717.9	2490.4	2391.4	2382.6	2543.2	2574.9
45°	3043.7	3057.5	3181.4	3287.3	3252.5	3004.7	2730.2	2583.0	2581.4	2730.6	2721.4
47.5°	3337.0	3347.7	3459.0	3561.5	3574.1	3334.7	3031.5	2878.5	2853.7	2987.5	2948.1
50°	3642.5	3654.4	3730.1	3840.2	3933.9	3776.4	3419.2	3240.6	3207.4	3326.7	3269.3
52.5°	3844.8	3860.5	3926.2	4065.8	4338.4	4260.4	3877.7	3679.6	3629.1	3737.7	3693.8
55°	3754.6	3789.7	3890.3	4114.0	4661.9	5000.0	4443.2	4191.6	4134.6	4224.9	4198.9
57.5°	3344.3	3392.4	3529.7	3875.0	4707.4	5651.5	5298.2	4794.6	4754.5	4728.5	4740.3
60°	2594.4	2640.7	2810.8	3260.9	4390.4	6127.2	6584.9	5538.0	5479.8	5234.0	5244.7
62.5°	1836.2	1812.8	1929.5	2258.7	3567.6	6183.0	8049.0	6532.1	6340.9	5767.8	5720.7
65°	1400.3	1394.9	1447.3	1552.1	2160.8	5515.0	8921.2	8203.1	7904.5	6395.6	6284.7
67.5°	1150.6	1141.0	1192.6	1345.2	1391.5	3558.0	8940.3	10141.8	9848.5	7177.2	6937.1
70°	946.0	935.3	983.5	1180.4	1285.9	1804.4	7524.4	11277.0	11261.4	8166.8	7429.6
71°	848.1	840.5	898.2	1116.9	1263.4	1503.9	6496.6	11280.1	11327.1	8501.8	7400.5
72.5°	690.6	693.2	754.4	994.2	1246.5	1328.0	4774.7	10754.3	10853.8	8821.0	7136.3
75°	458.9	461.1	541.4	764.8	1208.7	1299.3	2624.2	9024.1	9206.9	8629.9	6511.9
77.5°	308.2	307.4	362.1	524.6	1053.1	1299.3	1538.7	6749.3	6950.1	6866.7	5020.2
80°	212.2	210.7	249.3	362.1	797.3	1315.0	1189.6	4730.0	4790.8	3708.3	2040.4
82.5°	130.0	131.2	162.9	255.8	542.6	1183.5	1123.0	2579.1	2513.0	1040.1	509.7
85°	74.6	74.2	104.0	173.2	348.3	998.8	1095.1	1110.0	1018.3	313.2	184.3
87.5°	26.8	28.7	55.8	96.0	199.6	695.5	929.2	577.4	520.4	141.5	83.4
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°	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1	2537.1
2.5°	2534.0	2536.3	2533.6	2518.3	2505.3	2484.3	2472.4	2456.0	2451.0	2448.7	2454.9
5°	2543.6	2544.3	2521.8	2481.6	2436.5	2383.4	2345.1	2298.1	2275.9	2266.3	2272.5
7.5°	2552.4	2548.9	2499.6	2422.7	2339.4	2246.8	2164.6	2089.3	2045.3	2027.4	2028.9
10°	2553.5	2539.0	2459.8	2340.9	2211.7	2075.9	1949.7	1833.5	1760.1	1712.3	1726.8
12.5°	2541.7	2517.2	2401.3	2235.0	2055.7	1870.6	1700.0	1525.7	1420.9	1372.3	1373.9
15°	2532.5	2488.1	2329.4	2110.3	1869.4	1624.3	1391.5	1186.5	1074.9	1025.2	1001.8
17.5°	2524.8	2456.8	2246.1	1970.0	1649.6	1338.7	1058.8	876.0	814.8	800.3	794.2
20°	2514.1	2423.5	2153.2	1807.5	1399.1	1019.0	773.2	682.9	683.3	700.1	702.4
22.5°	2499.2	2385.6	2054.1	1625.1	1130.3	742.2	606.1	580.1	606.4	638.6	644.3
25°	2477.0	2340.9	1944.0	1423.6	861.9	570.5	517.7	516.6	548.7	582.4	587.3
27.5°	2445.7	2282.4	1821.6	1207.2	635.1	484.9	463.8	471.9	495.6	520.0	521.9
30°	2403.6	2214.3	1686.7	978.9	497.9	431.7	429.4	436.7	451.2	468.4	469.9
32.5°	2357.4	2145.1	1542.5	757.9	426.3	403.0	405.3	408.8	415.6	422.5	424.1
35°	2315.3	2074.4	1394.9	575.9	392.3	384.3	382.8	382.0	382.8	380.5	380.8
37.5°	2288.1	2015.9	1241.2	458.5	372.8	367.8	363.3	357.5	351.0	347.2	348.0
40°	2278.2	1972.3	1085.6	396.1	356.8	353.3	344.5	332.3	324.6	322.3	322.3
42.5°	2305.0	1949.7	935.3	364.8	343.4	337.6	323.1	309.0	303.2	302.8	302.5
45°	2386.8	1958.9	792.3	347.6	331.1	320.0	300.9	289.1	285.3	286.0	285.6
47.5°	2533.6	2016.7	669.9	336.1	318.9	304.4	283.0	273.4	268.8	268.8	269.2
50°	2783.3	2151.6	572.4	326.5	308.6	289.8	270.0	258.1	252.0	251.6	251.6
52.5°	3147.0	2393.3	511.6	318.5	297.1	276.8	257.0	242.0	234.8	233.2	232.5
55°	3602.8	2739.7	494.8	313.2	281.8	262.7	241.3	226.4	218.3	214.9	214.5
57.5°	4112.5	3161.1	528.1	306.7	266.1	245.9	224.1	209.9	201.5	197.3	196.9
60°	4628.3	3621.1	663.8	297.5	253.1	227.5	206.5	193.5	185.1	180.5	179.7
62.5°	5144.9	4106.0	941.0	296.7	244.0	209.9	188.5	177.4	169.4	164.4	163.3
65°	5727.6	4636.7	1256.1	317.0	240.9	193.9	170.2	161.4	154.5	149.9	149.5
67.5°	6396.8	5235.9	1225.9	358.7	251.2	179.3	153.0	146.1	141.1	137.3	136.9
70°	6710.7	5142.2	762.1	388.1	265.8	165.2	136.5	131.5	127.7	125.0	123.9
71°	6579.2	4882.6	639.0	384.7	264.2	159.1	130.0	126.2	122.4	120.1	118.9
72.5°	6220.5	4452.8	533.0	357.9	247.0	148.0	121.6	117.8	114.3	111.7	110.9
75°	5581.9	3976.7	426.7	286.0	196.9	125.0	106.7	102.5	99.8	98.3	96.7
77.5°	4103.3	2838.0	330.0	226.0	144.9	102.1	91.0	87.9	85.3	83.0	81.8
80°	1571.9	1099.3	222.2	168.6	106.3	80.7	73.4	71.9	69.2	67.7	67.7
82.5°	423.3	328.5	118.5	102.1	71.1	58.9	56.2	55.4	53.2	50.1	50.5
85°	171.3	144.9	66.5	56.2	43.6	34.8	37.9	38.2	35.6	31.7	32.1
87.5°	75.3	61.6	37.1	24.9	19.1	13.4	17.2	17.2	15.7	13.0	11.9
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)