

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: P317936

Luminaire Tested: **GAN-SA2D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12899 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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



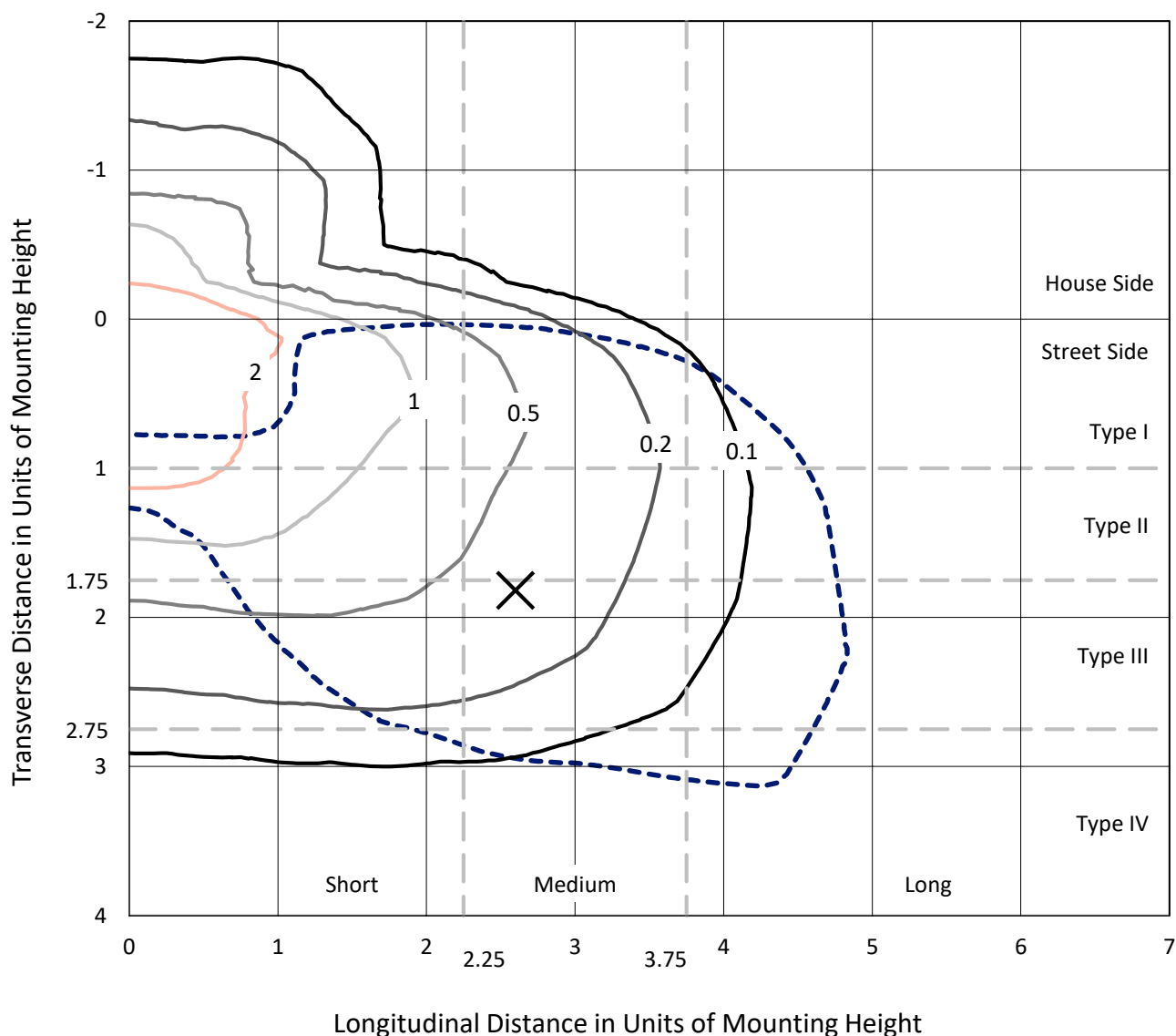
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

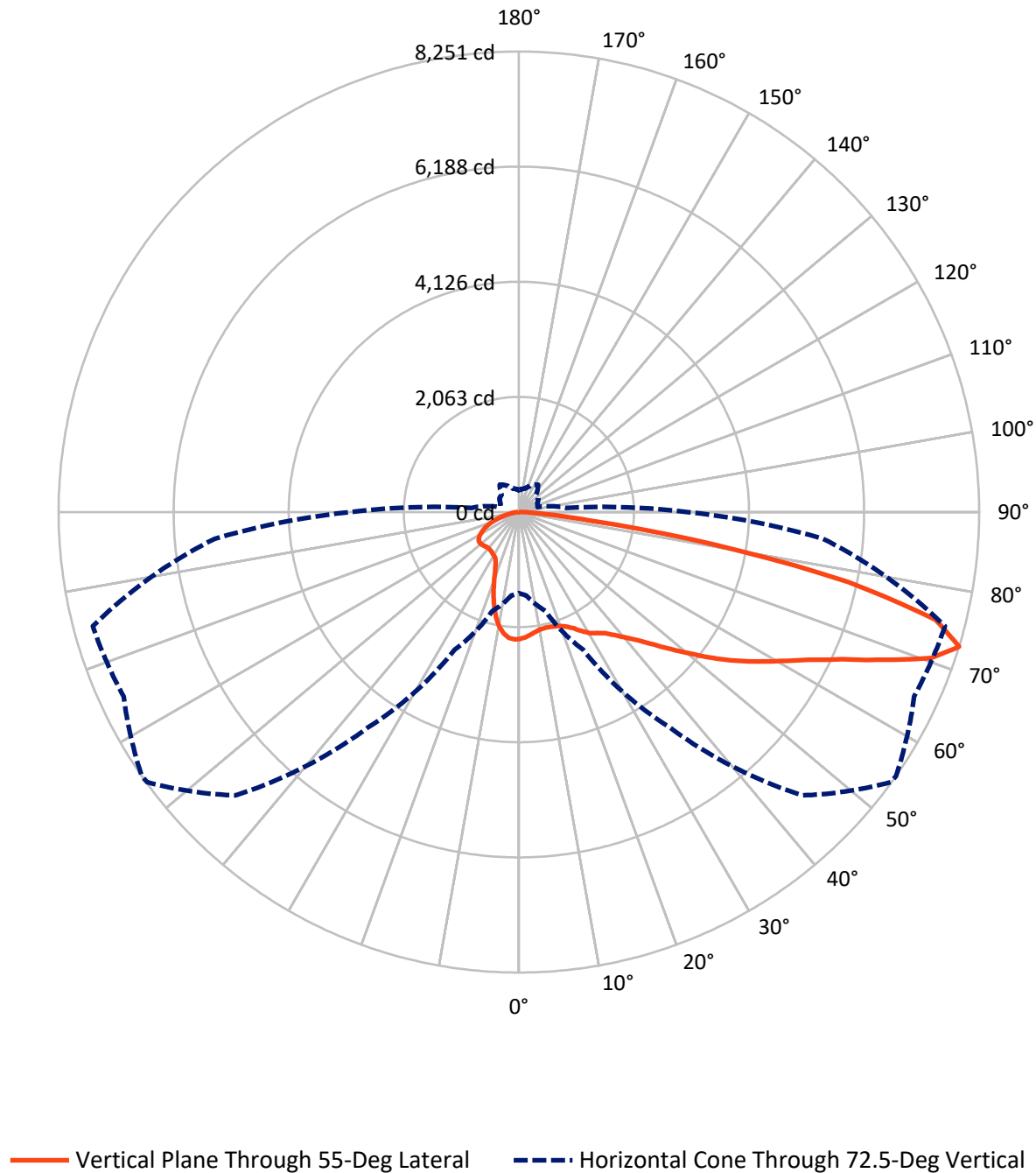
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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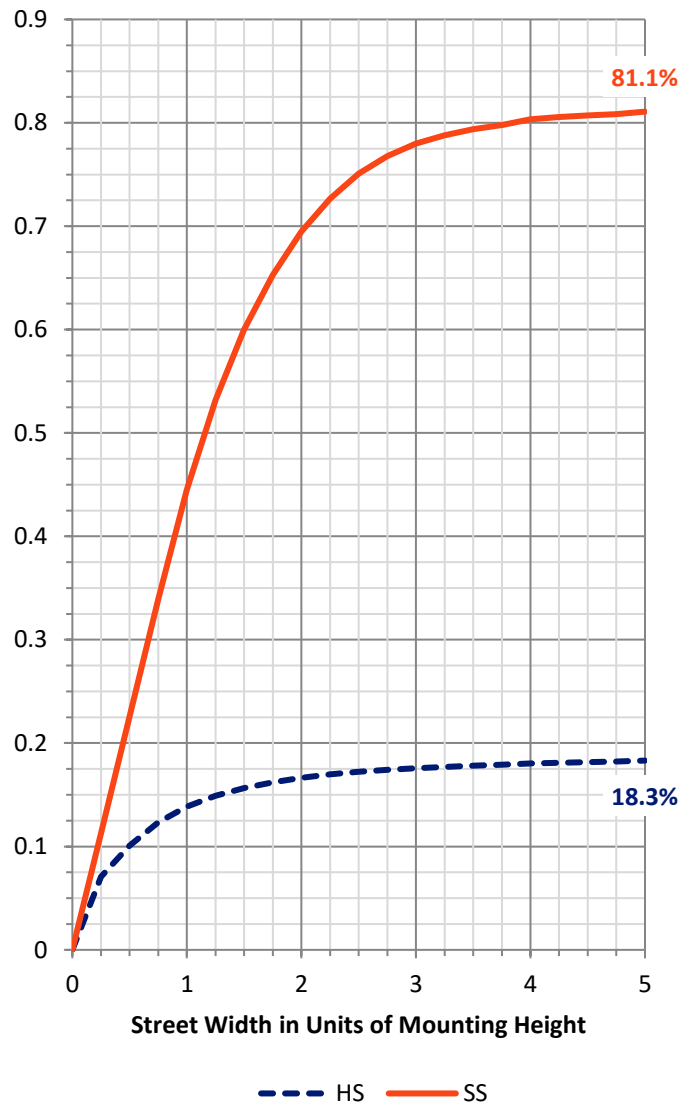
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.5	0.0	2397.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10501.5	0.0	10501.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	12899.0	0.0	12899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	1.6
10°-20°	548.1	4.2
20°-30°	903.7	7.0
30°-40°	1336.8	10.4
40°-50°	1865.9	14.5
50°-60°	2429.4	18.8
60°-70°	2985.7	23.1
70°-80°	2340.4	18.1
80°-90°	283.2	2.2
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°	12899.0	100.0
0°-180°	12899.0	100.0

Coefficient of Utilization



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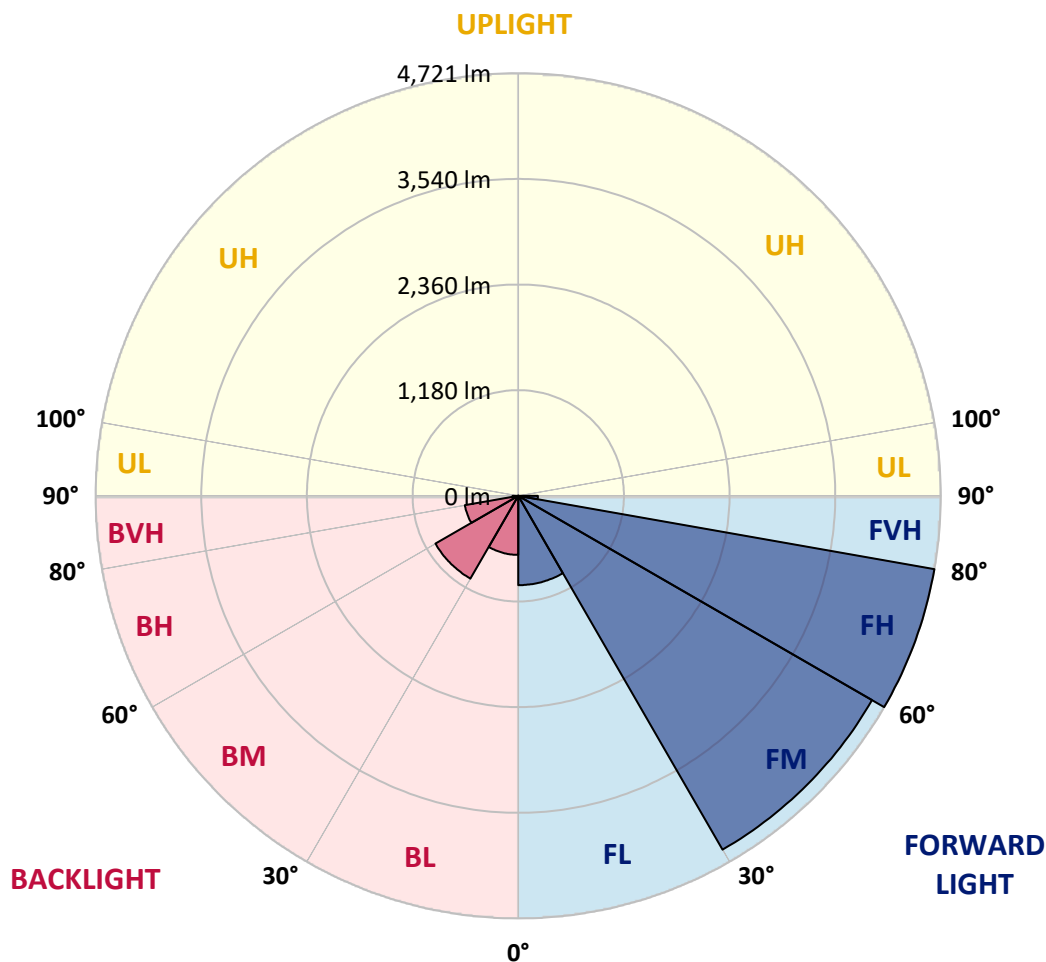
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.0	7.7			
FM	(30°-60°)	4563.9	35.4			
FH	(60°-80°)	4720.6	36.6			G2/5000
FVH	(80°-90°)	219.0	1.7			G2/225
BL	(0°-30°)	659.7	5.1	B2/1000		
BM	(30°-60°)	1068.1	8.3	B2/2500		
BH	(60°-80°)	605.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	64.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2201.0	2195.8	2202.3	2211.5	2221.5	2235.0	2242.9	2246.4	2259.9	2265.1	2276.4
5°	2099.1	2096.5	2107.4	2123.1	2145.3	2176.6	2201.9	2206.7	2242.4	2267.7	2290.8
7.5°	2025.0	2025.0	2037.7	2056.4	2081.2	2123.5	2159.2	2165.8	2226.3	2280.8	2323.5
10°	1966.2	1968.4	1983.2	2005.4	2034.6	2079.5	2127.0	2134.4	2222.0	2311.3	2379.2
12.5°	1927.0	1932.2	1945.7	1965.8	2001.9	2056.4	2116.5	2126.5	2231.1	2354.8	2446.3
15°	1951.8	1960.5	1961.9	1970.1	1990.2	2049.4	2122.6	2133.1	2250.7	2399.3	2522.6
17.5°	2060.8	2063.8	2050.3	2032.9	2023.3	2061.2	2140.9	2151.8	2274.2	2443.3	2595.8
20°	2226.3	2224.6	2195.4	2148.3	2099.5	2105.6	2171.0	2182.3	2306.0	2482.1	2669.0
22.5°	2435.4	2429.3	2384.5	2297.8	2214.5	2179.7	2223.7	2233.3	2354.0	2537.4	2747.4
25°	2689.0	2675.5	2616.2	2499.9	2377.5	2287.7	2303.0	2312.1	2423.7	2599.2	2819.3
27.5°	2956.5	2943.0	2867.6	2726.9	2564.0	2424.1	2412.3	2420.2	2503.0	2645.0	2872.4
30°	3236.2	3221.8	3153.0	2995.3	2761.8	2565.3	2514.3	2517.3	2558.7	2669.8	2916.0
32.5°	3517.2	3503.7	3426.6	3243.6	2976.5	2716.9	2587.9	2584.0	2592.3	2695.5	2965.2
35°	3802.2	3807.4	3717.2	3514.6	3214.4	2885.5	2675.1	2666.8	2648.5	2748.3	3034.9
37.5°	4107.1	4103.6	3986.9	3775.1	3463.2	3068.5	2800.1	2798.8	2735.6	2848.0	3144.3
40°	4311.0	4313.2	4242.2	4041.8	3714.6	3271.1	2960.4	2957.4	2874.6	2997.5	3287.6
42.5°	4390.8	4405.1	4423.4	4296.2	3977.7	3505.9	3151.7	3147.3	3068.5	3211.8	3456.2
45°	4396.4	4425.2	4538.4	4522.3	4244.4	3774.7	3396.1	3383.9	3327.3	3496.7	3657.5
47.5°	4347.6	4377.2	4565.5	4657.0	4482.7	4058.3	3681.9	3672.3	3623.5	3853.1	3875.3
50°	4240.9	4269.2	4509.7	4722.7	4678.7	4331.1	4011.3	3986.0	3959.9	4264.8	4124.6
52.5°	4040.9	4095.4	4435.2	4738.4	4795.9	4573.3	4357.6	4341.1	4355.5	4699.2	4374.2
55°	3567.3	3628.3	4243.1	4725.4	4882.6	4776.8	4704.0	4703.1	4777.6	5154.9	4642.1
57.5°	3302.0	3345.1	3851.8	4703.1	4985.5	4978.9	5046.9	5055.2	5200.2	5651.2	4922.7
60°	3152.1	3197.4	3653.6	4620.8	5144.9	5240.3	5396.7	5413.3	5629.8	6200.6	5260.4
62.5°	3015.8	3065.4	3530.7	4453.1	5332.7	5614.1	5815.9	5830.7	6084.7	6765.2	5586.7
65°	2782.7	2838.9	3350.8	4342.8	5503.5	6101.7	6348.7	6358.7	6607.0	7356.8	5836.3
67.5°	2453.3	2504.7	3011.4	4099.3	5629.8	6693.7	7057.1	7062.8	7125.1	7774.7	5964.0
70°	2068.6	2088.2	2527.8	3596.5	5480.4	7247.5	7833.5	7834.8	7597.3	8042.2	5943.1
72.5°	1453.4	1499.6	1835.1	2722.5	4709.7	7180.0	8236.5	8251.3	7816.9	7907.1	5468.2
75°	891.4	940.2	1151.1	1649.9	2987.9	5646.8	7610.0	7712.8	7405.2	7050.1	4467.0
77.5°	596.0	614.3	751.1	962.0	1353.6	3248.8	5850.7	6044.1	6151.8	5141.4	2856.7
80°	332.4	367.3	498.0	597.7	602.1	1290.9	3508.1	3553.4	3422.7	2047.2	881.4
82.5°	176.0	195.2	332.4	351.2	328.5	432.2	1307.5	1308.8	1093.5	549.0	261.8
85°	136.4	152.5	227.9	214.4	167.7	191.7	431.3	454.8	372.1	224.8	85.4
87.5°	68.0	84.5	154.7	135.9	65.8	54.9	154.2	164.7	146.8	88.0	30.9
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°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2280.8	2284.7	2289.5	2284.3	2282.5	2275.5	2263.8	2261.2	2255.1	2255.5	2259.0
5°	2300.8	2307.3	2304.7	2284.7	2260.7	2227.2	2192.3	2162.7	2143.1	2141.8	2140.5
7.5°	2339.2	2343.5	2323.0	2266.0	2198.9	2121.3	2048.1	1984.1	1945.3	1935.7	1933.5
10°	2399.3	2398.4	2342.2	2227.2	2093.4	1954.9	1837.3	1748.4	1696.5	1681.3	1677.4
12.5°	2466.4	2456.3	2348.7	2156.6	1944.4	1752.3	1603.3	1504.4	1450.4	1432.9	1428.6
15°	2535.6	2510.8	2332.6	2051.2	1761.4	1534.0	1377.6	1286.1	1256.9	1247.3	1245.6
17.5°	2600.1	2552.2	2286.4	1908.3	1552.8	1316.6	1194.6	1158.0	1165.0	1177.6	1178.1
20°	2663.3	2580.1	2212.4	1727.9	1332.7	1137.6	1096.2	1123.2	1156.3	1182.0	1185.5
22.5°	2725.6	2599.7	2117.0	1519.6	1135.8	1036.9	1066.1	1115.3	1153.2	1181.1	1185.9
25°	2777.9	2604.5	1985.4	1297.4	999.0	999.0	1051.7	1098.3	1135.8	1163.3	1168.1
27.5°	2797.0	2572.2	1799.8	1091.8	930.2	981.6	1031.7	1070.5	1102.3	1131.5	1136.7
30°	2804.5	2512.6	1585.4	926.7	901.9	962.8	1004.7	1037.8	1067.8	1095.3	1100.1
32.5°	2805.8	2440.7	1358.0	833.0	882.2	943.2	971.1	1000.3	1032.6	1043.4	1045.2
35°	2814.0	2355.7	1118.4	785.1	863.9	924.9	947.2	968.1	915.8	919.7	923.2
37.5°	2838.0	2271.6	918.0	758.1	852.2	915.4	941.9	866.1	825.2	815.6	814.3
40°	2882.9	2181.9	769.4	736.3	847.8	920.2	908.4	808.6	738.0	685.3	677.5
42.5°	2945.2	2085.2	674.4	721.9	850.9	943.2	861.8	753.3	636.1	602.1	597.7
45°	3015.3	1983.6	623.0	711.9	861.3	961.1	852.2	679.7	588.6	562.9	560.7
47.5°	3083.3	1859.5	596.4	707.5	875.7	946.7	811.7	657.0	565.9	552.4	553.7
50°	3161.3	1747.5	580.3	702.7	888.3	937.6	765.9	645.2	557.2	573.8	591.2
52.5°	3227.1	1631.6	565.9	693.2	893.1	921.5	754.2	647.4	557.2	589.0	605.6
55°	3305.0	1544.0	549.4	673.1	884.0	875.7	745.9	660.5	563.8	543.7	545.5
57.5°	3405.7	1515.3	531.1	641.8	853.5	809.1	742.0	673.1	559.8	547.2	551.6
60°	3545.1	1545.8	523.7	600.8	806.0	756.8	742.4	666.6	532.4	510.6	511.0
62.5°	3678.0	1579.8	523.2	575.1	747.6	710.2	732.4	645.2	518.5	505.8	510.6
65°	3721.6	1545.3	502.3	546.3	681.8	654.4	714.1	622.6	508.0	488.8	488.0
67.5°	3663.2	1438.6	460.1	499.7	606.5	589.5	690.1	595.6	491.4	475.8	473.1
70°	3489.8	1200.3	407.8	438.3	520.6	516.3	652.2	564.2	469.2	455.7	444.4
72.5°	3023.2	855.2	343.7	364.7	423.9	437.9	599.9	523.2	437.9	408.7	391.2
75°	2482.9	633.0	282.3	286.7	322.0	359.9	528.0	475.3	400.8	351.2	337.6
77.5°	1520.5	387.3	224.8	226.6	230.9	287.1	434.8	421.7	353.8	292.8	283.2
80°	492.3	211.3	162.5	170.8	157.7	210.4	336.3	359.0	303.7	244.9	234.4
82.5°	187.3	123.3	109.8	115.5	109.4	141.2	245.3	287.5	248.8	201.3	163.8
85°	90.6	69.7	64.9	72.8	67.5	72.3	156.8	211.7	188.6	131.1	122.0
87.5°	32.2	30.9	24.8	33.5	28.8	25.7	47.9	106.7	124.6	90.2	80.6
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)