

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: P318830

Luminaire Tested: **GAN-SA6A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318830
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-SA6A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 20613 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

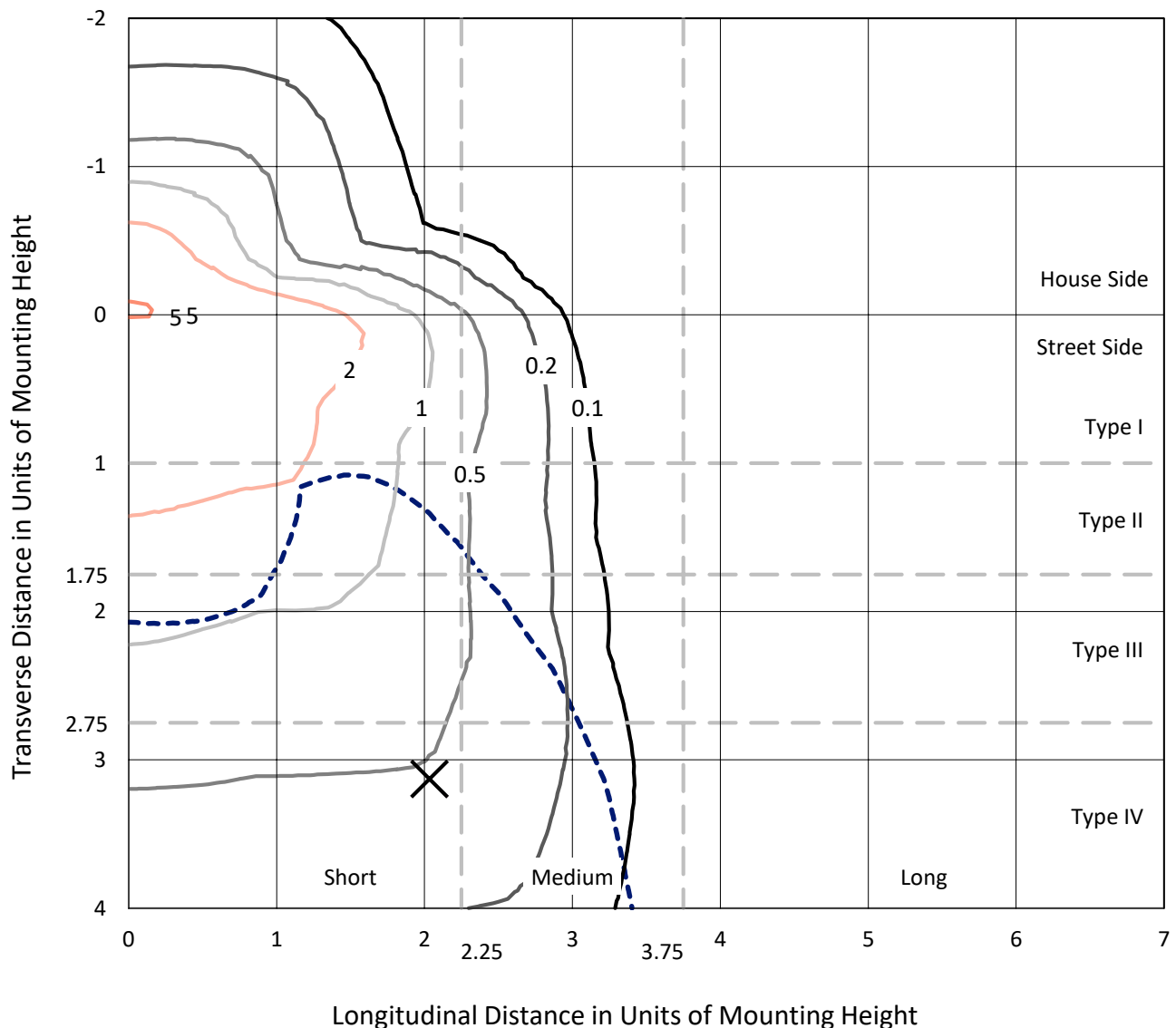
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

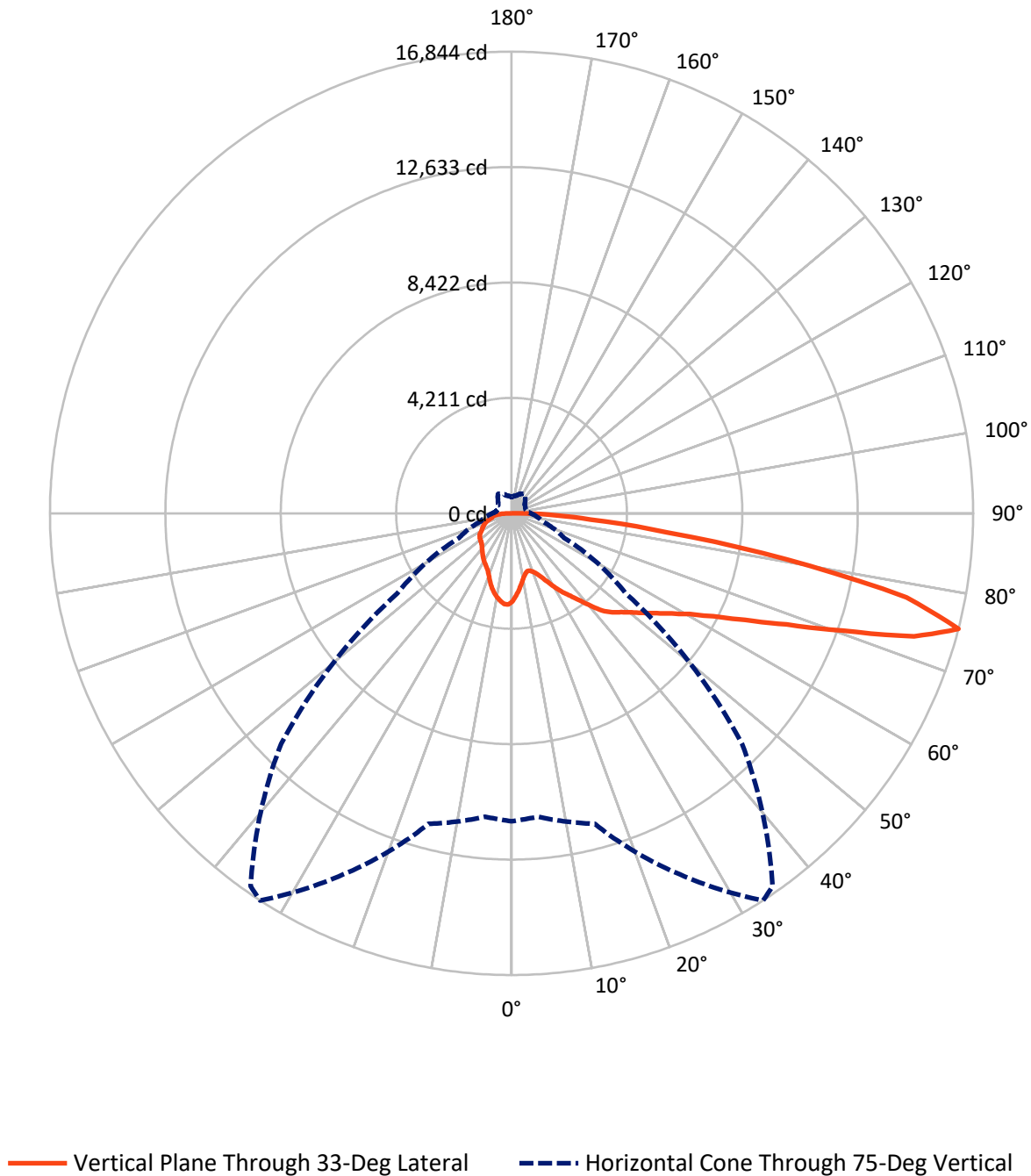
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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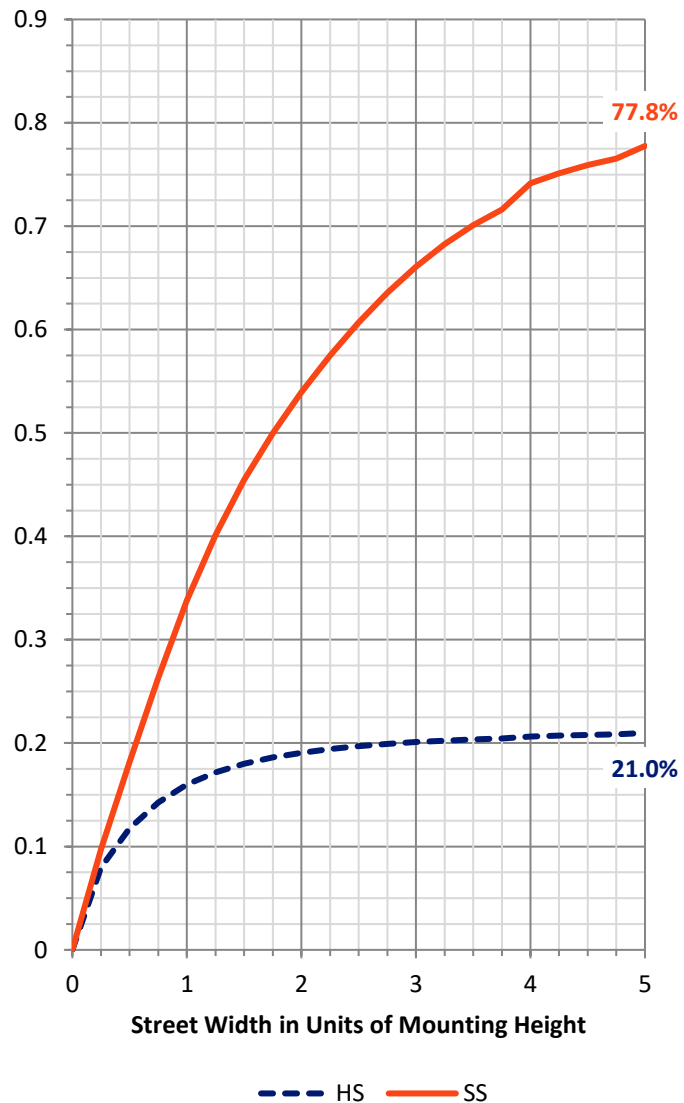
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4426.2	0.0	4426.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16186.9	0.0	16186.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	20613.0	0.0	20613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.4
10°-20°	789.2	3.8
20°-30°	1288.9	6.3
30°-40°	1919.4	9.3
40°-50°	2753.0	13.4
50°-60°	3779.4	18.3
60°-70°	4731.6	23.0
70°-80°	4280.5	20.8
80°-90°	779.7	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°	20613.0	100.0
0°-180°	20613.0	100.0

Coefficient of Utilization



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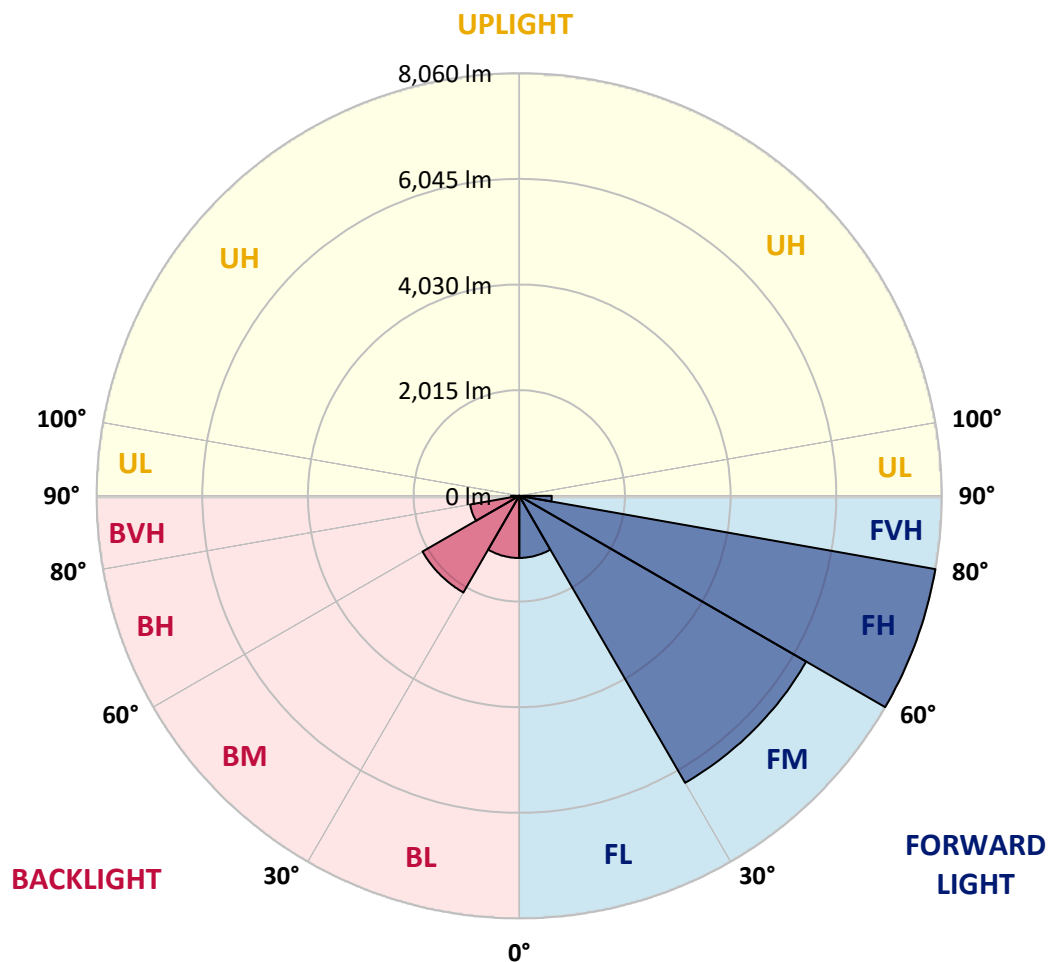
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.9	5.7			
FM	(30°-60°)	6321.6	30.7			
FH	(60°-80°)	8060.4	39.1			G4/12000
FVH	(80°-90°)	621.0	3.0			G4/750
BL	(0°-30°)	1185.5	5.8	B3/2500		
BM	(30°-60°)	2130.2	10.3	B2/2500		
BH	(60°-80°)	951.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	158.7	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°	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9
2.5°	2991.9	2980.5	3001.9	3004.8	3023.3	3030.4	3056.0	3095.9	3128.7	3166.4	3200.6
5°	2720.7	2712.8	2742.7	2764.1	2804.7	2821.8	2882.3	2967.0	3042.5	3127.9	3205.6
7.5°	2462.9	2458.6	2492.1	2540.5	2587.5	2611.0	2715.7	2838.9	2964.9	3103.0	3221.9
10°	2245.7	2244.3	2276.4	2324.1	2393.1	2419.5	2554.8	2717.1	2893.7	3083.8	3249.7
12.5°	2124.0	2129.0	2143.9	2183.8	2247.9	2274.2	2424.5	2615.3	2833.9	3077.4	3290.3
15°	2153.9	2161.7	2136.1	2134.7	2180.2	2200.9	2341.9	2542.7	2791.2	3088.1	3349.4
17.5°	2281.3	2282.8	2215.1	2172.4	2200.2	2210.8	2316.2	2501.4	2766.2	3112.3	3423.4
20°	2460.8	2457.2	2337.6	2266.4	2281.3	2284.2	2352.5	2502.1	2764.1	3154.3	3519.6
22.5°	2698.6	2672.2	2511.3	2414.5	2410.9	2406.7	2445.8	2554.8	2795.4	3222.6	3634.2
25°	3009.0	2984.1	2762.7	2630.2	2601.8	2591.1	2596.8	2667.3	2857.4	3296.0	3762.4
27.5°	3354.4	3310.9	3097.3	2910.1	2851.0	2836.0	2801.8	2826.0	2925.0	3366.5	3914.7
30°	3643.4	3620.0	3433.4	3211.2	3141.5	3120.1	3030.4	3004.0	3022.6	3462.6	4107.0
32.5°	3805.1	3789.4	3676.2	3496.8	3432.0	3402.1	3275.3	3222.6	3179.2	3614.3	4367.6
35°	4000.9	3990.9	3922.6	3792.3	3696.1	3664.8	3566.5	3511.7	3399.9	3822.9	4704.4
37.5°	4250.1	4239.4	4240.8	4135.5	4020.8	3991.6	3926.8	3869.2	3686.2	4097.0	5070.4
40°	4532.1	4511.4	4503.6	4498.6	4426.0	4409.6	4375.4	4297.1	4045.0	4424.5	5431.4
42.5°	4956.4	4883.1	4726.4	4785.5	4857.5	4848.9	4876.7	4764.2	4443.8	4811.9	5783.8
45°	5365.8	5245.5	4974.9	4987.8	5145.1	5192.8	5400.7	5321.0	4876.0	5236.3	6148.4
47.5°	5552.4	5461.3	5231.3	5232.0	5387.9	5486.9	5942.6	5885.6	5330.2	5718.3	6593.4
50°	5761.0	5669.9	5463.4	5541.0	5677.0	5782.4	6465.9	6436.7	5762.4	6245.9	7126.7
52.5°	5988.9	5834.4	5703.3	5842.2	6033.0	6155.5	6990.0	6910.2	6159.0	6777.1	7739.7
55°	5991.7	5949.7	6049.4	6151.2	6436.7	6587.0	7539.0	7328.2	6482.3	7299.0	8238.9
57.5°	6332.8	6264.4	6475.9	6522.9	6896.0	7065.5	8085.1	7692.0	6811.3	7699.2	8508.0
60°	6784.2	6725.8	6898.8	7022.7	7464.2	7690.6	8668.2	8065.9	7069.7	8001.1	8495.2
62.5°	7563.9	7497.7	7495.5	7669.3	8263.8	8527.2	9322.6	8432.5	7172.3	8060.9	8132.8
65°	8705.3	8599.9	8401.2	8483.8	9368.2	9630.9	10053.8	8698.1	7037.0	7740.5	7199.3
67.5°	9816.0	9812.5	9568.2	9737.7	10826.4	11037.1	10886.9	8724.5	6614.7	6624.7	5543.1
70°	10923.2	10937.5	10896.2	11485.7	12796.6	13015.9	11774.1	8370.6	5665.6	4784.1	3320.9
72.5°	11800.4	11796.9	12004.8	13525.0	15353.5	15304.3	12521.7	7298.3	4067.8	2582.5	1587.1
75°	11232.2	11108.4	11727.8	14534.6	16843.7	16603.8	11885.9	5091.0	2111.2	1175.6	854.4
77.5°	7326.1	7443.5	8352.8	12006.9	14733.3	14441.4	8720.2	2375.3	994.7	771.1	619.5
80°	2653.0	2776.9	3911.2	6801.3	10150.7	10103.0	4294.2	976.2	672.9	582.4	451.4
82.5°	912.8	958.4	1543.0	3020.4	5731.1	5944.7	1615.6	554.7	489.2	413.0	309.0
85°	358.2	410.1	705.6	1453.2	2890.8	2912.2	654.4	331.8	340.3	270.6	169.5
87.5°	136.0	165.2	337.5	675.0	1320.1	1212.6	234.3	158.1	193.7	160.9	80.5
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°	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9	3221.9
2.5°	3226.9	3241.9	3273.2	3294.6	3317.3	3323.7	3326.6	3332.3	3338.0	3335.9	3336.6
5°	3246.8	3276.0	3326.6	3348.0	3357.9	3346.5	3324.5	3306.7	3293.8	3286.7	3284.6
7.5°	3279.6	3320.9	3375.0	3371.5	3348.7	3298.1	3241.2	3198.4	3162.8	3150.0	3142.9
10°	3323.0	3371.5	3409.2	3368.6	3302.4	3214.8	3129.4	3063.1	3009.7	2989.1	2985.5
12.5°	3378.6	3427.7	3434.8	3348.7	3239.0	3119.4	3003.3	2915.8	2836.0	2810.4	2804.7
15°	3450.5	3496.8	3452.6	3313.8	3160.7	2999.8	2849.5	2730.6	2646.6	2615.3	2603.9
17.5°	3526.0	3570.1	3456.2	3256.1	3058.2	2858.1	2669.4	2547.6	2451.5	2415.2	2410.9
20°	3616.4	3636.3	3441.2	3173.5	2917.2	2674.4	2475.7	2361.1	2309.8	2284.2	2281.3
22.5°	3728.2	3706.8	3407.1	3061.7	2738.5	2462.2	2300.6	2247.2	2234.3	2228.6	2230.8
25°	3846.4	3780.9	3356.5	2915.8	2512.7	2250.0	2172.4	2187.4	2204.4	2202.3	2202.3
27.5°	3976.7	3856.3	3278.9	2722.1	2262.8	2076.3	2085.5	2140.4	2166.0	2165.3	2164.6
30°	4144.0	3941.8	3179.9	2489.3	2029.3	1953.8	2010.1	2077.0	2111.9	2110.5	2111.2
32.5°	4349.8	4035.8	3045.3	2229.4	1860.5	1863.4	1928.2	1994.4	2035.0	2031.4	2032.1
35°	4590.4	4141.2	2863.1	1973.0	1748.7	1791.5	1842.7	1889.0	1927.5	1922.5	1917.5
37.5°	4852.5	4244.4	2621.0	1743.8	1657.6	1724.5	1767.3	1775.1	1792.9	1780.1	1770.8
40°	5101.7	4323.4	2309.1	1555.8	1565.7	1667.6	1695.3	1664.0	1632.0	1627.7	1614.9
42.5°	5318.9	4349.8	1993.7	1405.5	1468.9	1607.8	1624.8	1559.3	1501.7	1474.6	1463.2
45°	5548.1	4359.0	1699.6	1279.5	1375.6	1554.4	1572.9	1485.3	1404.1	1345.7	1326.5
47.5°	5847.9	4426.0	1471.1	1186.2	1304.4	1518.8	1545.1	1426.2	1320.8	1237.5	1219.7
50°	6240.2	4558.4	1285.2	1115.0	1258.2	1495.3	1525.2	1368.5	1252.5	1152.1	1134.3
52.5°	6676.0	4680.2	1135.0	1057.4	1213.3	1454.0	1499.5	1327.2	1188.4	1073.0	1053.8
55°	6980.7	4586.9	1013.9	997.6	1154.9	1394.9	1463.9	1292.3	1096.5	996.1	979.0
57.5°	7039.1	4267.9	922.1	935.6	1084.4	1320.8	1409.1	1214.7	1046.7	962.7	944.9
60°	6879.6	3823.6	853.7	878.6	1008.9	1227.5	1306.6	1159.9	999.0	927.1	912.1
62.5°	6478.7	3368.6	803.2	827.4	938.5	1132.8	1242.5	1102.2	950.6	886.5	871.5
65°	5669.2	2828.2	754.7	781.8	872.9	1051.0	1184.8	1048.8	902.9	853.7	839.5
67.5°	4279.3	2118.3	709.2	733.4	814.6	979.8	1122.2	996.1	856.6	825.2	808.2
70°	2519.9	1326.5	657.2	682.8	753.3	905.7	1055.2	938.5	798.9	784.7	762.6
72.5°	1172.7	798.2	598.1	623.0	676.4	806.7	969.1	863.0	730.5	699.2	669.3
75°	699.9	583.9	528.3	550.4	588.1	701.3	860.8	786.1	665.7	624.4	593.1
77.5°	523.3	446.4	451.4	474.9	505.5	613.8	762.6	725.6	615.9	583.9	562.5
80°	376.7	338.9	368.1	393.8	425.8	558.2	730.5	670.7	556.8	514.1	494.1
82.5°	251.3	243.5	277.0	303.3	334.7	488.5	686.4	587.4	475.6	421.5	377.4
85°	138.8	146.7	186.6	197.9	225.0	343.9	562.5	472.1	358.2	288.4	275.6
87.5°	57.7	67.6	100.4	96.8	119.6	205.1	370.3	284.8	227.8	170.2	132.4
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)