

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: P318870

Luminaire Tested: **GAN-SA6A-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318870
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-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 22282 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

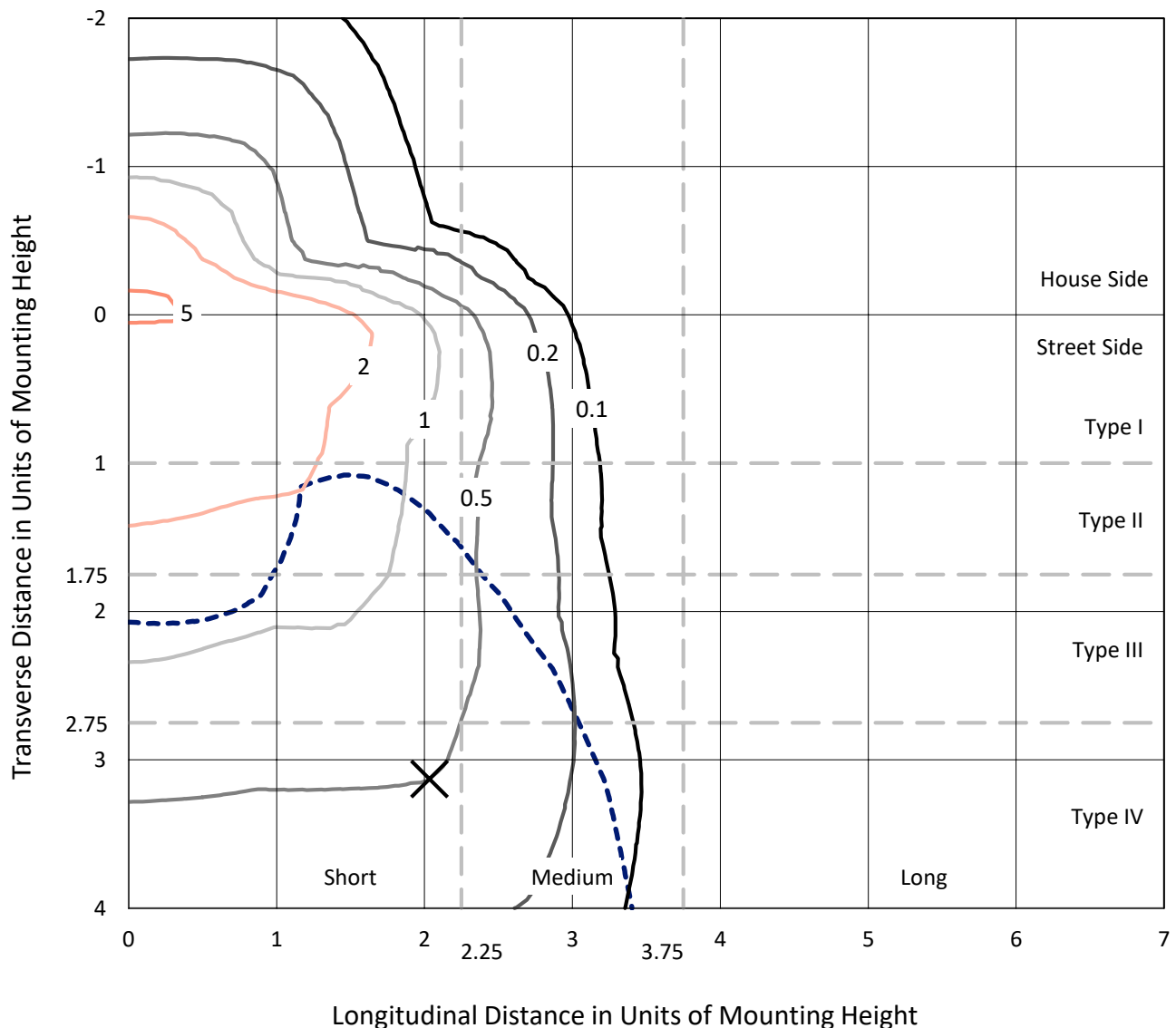
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

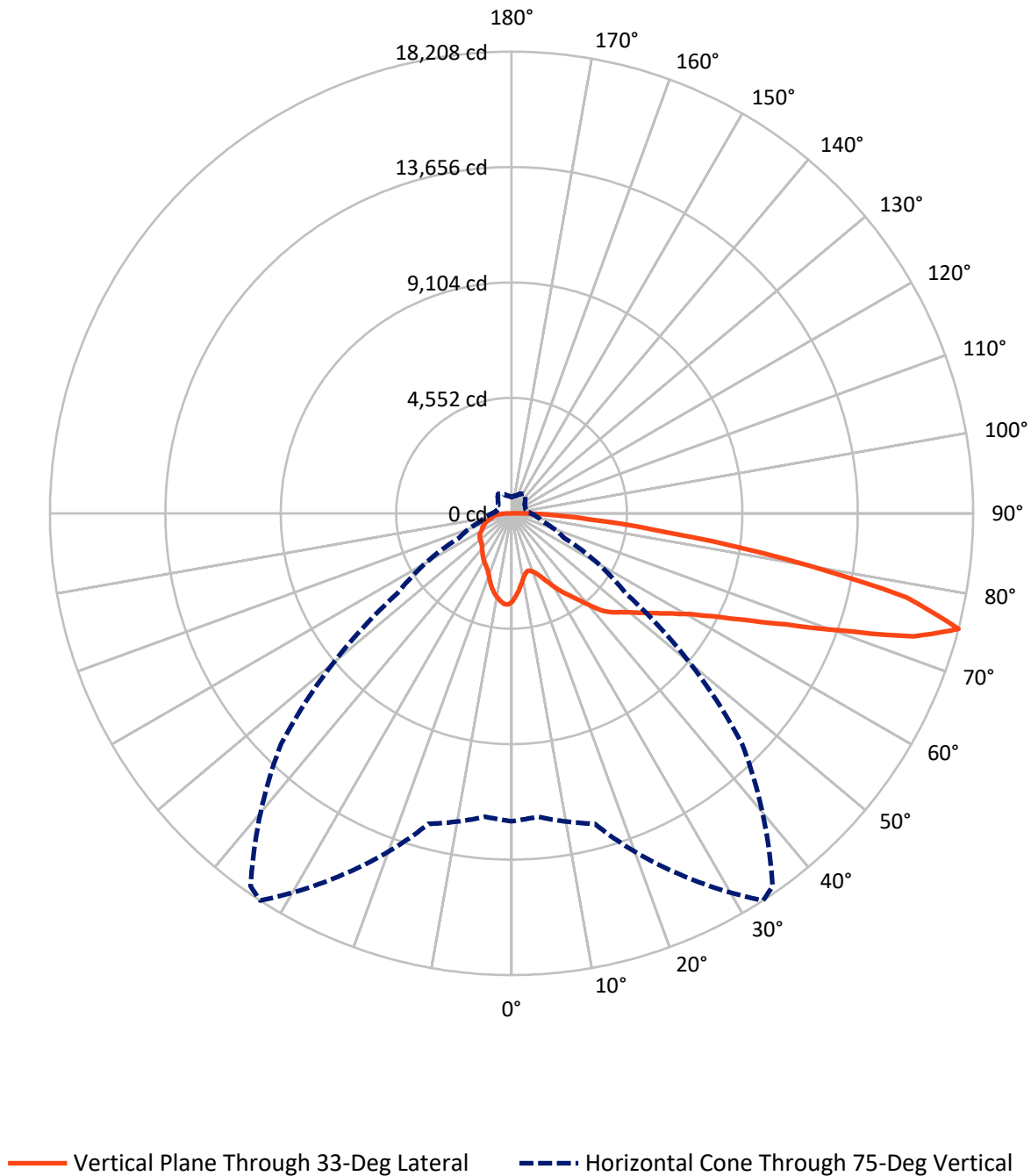
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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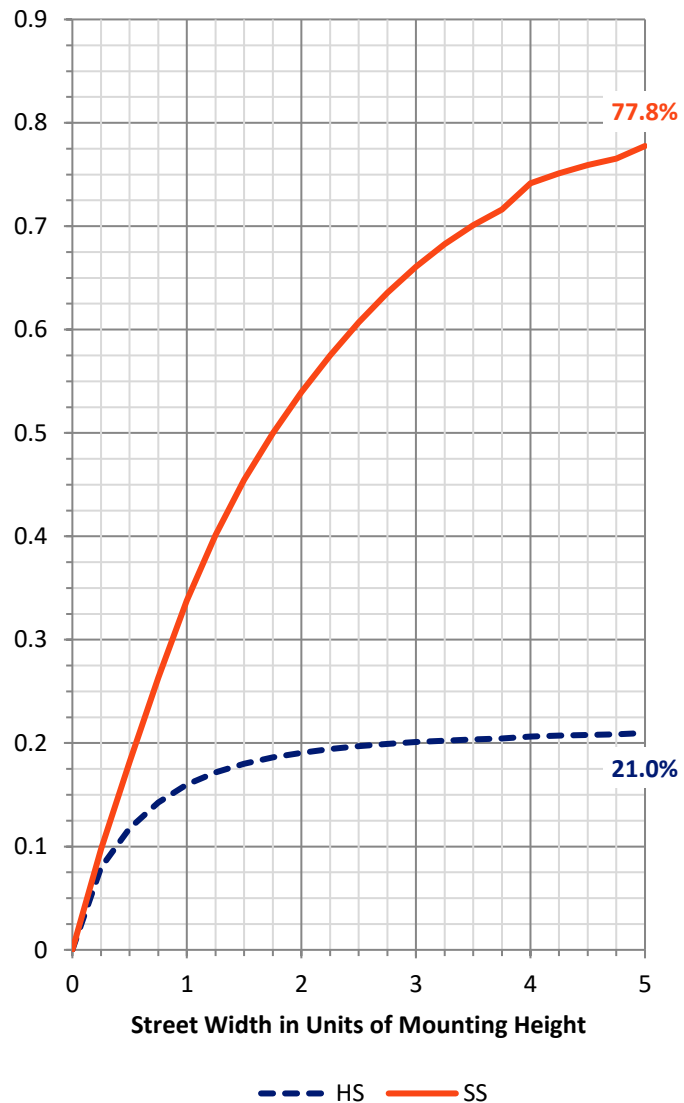
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4784.5	0.0	4784.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17497.5	0.0	17497.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	22282.0	0.0	22282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	1.4
10°-20°	853.1	3.8
20°-30°	1393.2	6.3
30°-40°	2074.8	9.3
40°-50°	2975.9	13.4
50°-60°	4085.4	18.3
60°-70°	5114.7	23.0
70°-80°	4627.1	20.8
80°-90°	842.8	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°	22282.0	100.0
0°-180°	22282.0	100.0

Coefficient of Utilization



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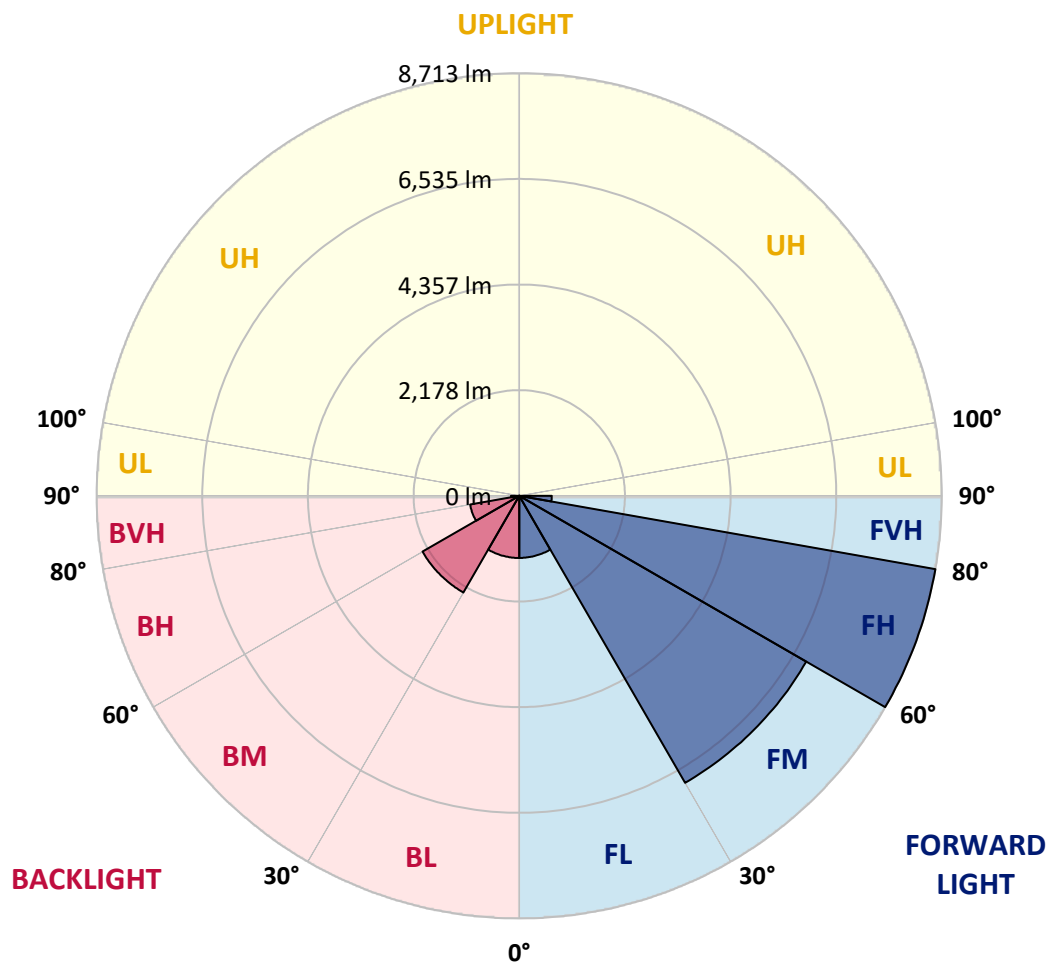
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.8	5.7			
FM	(30°-60°)	6833.4	30.7			
FH	(60°-80°)	8713.0	39.1			G4/12000
FVH	(80°-90°)	671.3	3.0			G4/750
BL	(0°-30°)	1281.5	5.8	B3/2500		
BM	(30°-60°)	2302.7	10.3	B2/2500		
BH	(60°-80°)	1028.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	171.6	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°	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8
2.5°	3234.2	3221.9	3245.0	3248.0	3268.1	3275.8	3303.5	3346.6	3382.0	3422.8	3459.7
5°	2940.9	2932.5	2964.8	2987.9	3031.8	3050.2	3115.7	3207.3	3288.8	3381.2	3465.1
7.5°	2662.3	2657.7	2693.9	2746.2	2797.0	2822.4	2935.6	3068.7	3204.9	3354.3	3482.8
10°	2427.6	2426.0	2460.7	2512.2	2586.9	2615.4	2761.6	2937.1	3128.0	3333.5	3512.8
12.5°	2296.0	2301.3	2317.5	2360.6	2429.9	2458.4	2620.8	2827.0	3063.3	3326.6	3556.7
15°	2328.3	2336.7	2309.0	2307.5	2356.8	2379.1	2531.5	2748.5	3017.1	3338.1	3620.6
17.5°	2466.1	2467.6	2394.5	2348.3	2378.3	2389.9	2503.8	2703.9	2990.2	3364.3	3700.6
20°	2660.0	2656.2	2526.9	2449.9	2466.1	2469.1	2543.0	2704.7	2987.9	3409.7	3804.5
22.5°	2917.1	2888.6	2714.7	2610.0	2606.1	2601.5	2643.9	2761.6	3021.8	3483.6	3928.4
25°	3252.7	3225.7	2986.4	2843.2	2812.4	2800.9	2807.0	2883.2	3088.7	3562.8	4067.0
27.5°	3626.0	3579.0	3348.1	3145.7	3081.8	3065.6	3028.7	3054.9	3161.8	3639.0	4231.7
30°	3938.5	3913.1	3711.4	3471.3	3395.8	3372.7	3275.8	3247.3	3267.3	3743.0	4439.5
32.5°	4113.2	4096.2	3973.9	3779.9	3709.9	3677.5	3540.5	3483.6	3436.6	3906.9	4721.2
35°	4324.8	4314.1	4240.2	4099.3	3995.4	3961.5	3855.3	3796.1	3675.2	4132.4	5085.3
37.5°	4594.2	4582.7	4584.2	4470.3	4346.4	4314.8	4244.8	4182.4	3984.6	4428.7	5480.9
40°	4899.0	4876.7	4868.2	4862.8	4784.3	4766.6	4729.7	4645.0	4372.6	4782.8	5871.1
42.5°	5357.7	5278.5	5109.1	5173.0	5250.8	5241.5	5271.5	5149.9	4803.6	5201.5	6252.1
45°	5800.3	5670.2	5377.8	5391.6	5561.7	5613.3	5838.0	5751.8	5270.8	5660.2	6646.2
47.5°	6002.0	5903.4	5654.8	5655.6	5824.2	5931.2	6423.7	6362.2	5761.8	6181.3	7127.2
50°	6227.5	6129.0	5905.8	5989.6	6136.7	6250.6	6989.5	6957.9	6229.0	6751.6	7703.7
52.5°	6473.8	6306.8	6165.1	6315.2	6521.5	6653.9	7555.9	7469.7	6657.7	7325.8	8366.4
55°	6476.9	6431.4	6539.2	6649.3	6957.9	7120.3	8149.4	7921.5	7007.2	7890.0	8906.0
57.5°	6845.5	6771.6	7000.2	7051.0	7454.3	7637.5	8739.7	8314.9	7362.8	8322.5	9196.9
60°	7333.5	7270.4	7457.4	7591.4	8068.6	8313.3	9370.1	8718.9	7642.2	8648.9	9183.1
62.5°	8176.3	8104.7	8102.4	8290.2	8932.9	9217.7	10077.4	9115.3	7753.0	8713.5	8791.3
65°	9410.1	9296.2	9081.5	9170.7	10126.7	10410.7	10867.9	9402.4	7606.7	8367.2	7782.2
67.5°	10610.8	10607.0	10343.0	10526.1	11703.0	11930.8	11768.4	9430.9	7150.3	7161.1	5992.0
70°	11807.7	11823.1	11778.4	12415.7	13832.7	14069.7	12727.4	9048.4	6124.3	5171.5	3589.8
72.5°	12755.9	12752.1	12976.8	14620.1	16596.6	16543.5	13535.6	7889.2	4397.2	2791.6	1715.6
75°	12141.7	12007.8	12677.4	15711.5	18207.5	17948.2	12848.3	5503.2	2282.1	1270.7	923.6
77.5°	7919.2	8046.2	9029.1	12979.1	15926.2	15610.6	9426.3	2567.7	1075.2	833.6	669.6
80°	2867.8	3001.8	4227.9	7352.0	10972.6	10921.0	4641.9	1055.2	727.3	629.6	488.0
82.5°	986.7	1036.0	1667.9	3265.0	6195.2	6426.1	1746.4	599.6	528.8	446.4	334.0
85°	387.1	443.3	762.8	1570.9	3124.9	3148.0	707.3	358.7	367.9	292.5	183.2
87.5°	147.0	178.6	364.8	729.7	1427.0	1310.8	253.2	170.9	209.4	173.9	87.0
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°	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8
2.5°	3488.2	3504.4	3538.2	3561.3	3585.9	3592.9	3595.9	3602.1	3608.3	3606.0	3606.7
5°	3509.7	3541.3	3595.9	3619.0	3629.8	3617.5	3593.6	3574.4	3560.5	3552.8	3550.5
7.5°	3545.1	3589.8	3648.3	3644.4	3619.8	3565.2	3503.6	3457.4	3418.9	3405.1	3397.4
10°	3592.1	3644.4	3685.2	3641.4	3569.8	3475.1	3382.7	3311.2	3253.4	3231.1	3227.3
12.5°	3652.1	3705.2	3712.9	3619.8	3501.3	3372.0	3246.5	3151.8	3065.6	3037.9	3031.8
15°	3729.9	3779.9	3732.2	3582.1	3416.6	3242.7	3080.3	2951.7	2860.9	2827.0	2814.7
17.5°	3811.5	3859.2	3736.0	3519.7	3305.8	3089.5	2885.5	2753.9	2650.0	2610.8	2606.1
20°	3909.2	3930.8	3719.9	3430.5	3153.4	2890.9	2676.2	2552.3	2496.8	2469.1	2466.1
22.5°	4030.0	4007.0	3682.9	3309.6	2960.2	2661.6	2486.8	2429.1	2415.3	2409.1	2411.4
25°	4157.8	4087.0	3628.3	3151.8	2716.2	2432.2	2348.3	2364.5	2382.9	2380.6	2380.6
27.5°	4298.7	4168.6	3544.4	2942.5	2446.0	2244.4	2254.4	2313.7	2341.4	2340.6	2339.8
30°	4479.5	4260.9	3437.4	2690.8	2193.6	2112.0	2172.8	2245.2	2282.9	2281.3	2282.1
32.5°	4702.0	4362.5	3291.9	2409.9	2011.2	2014.3	2084.3	2155.9	2199.7	2195.9	2196.7
35°	4962.1	4476.5	3094.9	2132.8	1890.3	1936.5	1991.9	2042.0	2083.5	2078.1	2072.7
37.5°	5245.4	4588.1	2833.2	1884.9	1791.8	1864.2	1910.3	1918.8	1938.1	1924.2	1914.2
40°	5514.8	4673.5	2496.1	1681.8	1692.5	1802.6	1832.6	1798.7	1764.1	1759.5	1745.6
42.5°	5749.5	4702.0	2155.1	1519.3	1587.8	1737.9	1756.4	1685.6	1623.3	1594.0	1581.7
45°	5997.3	4712.0	1837.2	1383.1	1487.0	1680.2	1700.2	1605.6	1517.8	1454.7	1433.9
47.5°	6321.4	4784.3	1590.2	1282.3	1410.1	1641.7	1670.2	1541.7	1427.8	1337.7	1318.5
50°	6745.5	4927.5	1389.3	1205.3	1360.0	1616.3	1648.7	1479.3	1353.9	1245.3	1226.1
52.5°	7216.5	5059.1	1226.9	1143.0	1311.5	1571.7	1620.9	1434.7	1284.6	1159.9	1139.1
55°	7545.9	4958.3	1096.0	1078.3	1248.4	1507.8	1582.5	1397.0	1185.3	1076.8	1058.3
57.5°	7609.1	4613.5	996.7	1011.4	1172.2	1427.8	1523.2	1313.1	1131.4	1040.6	1021.4
60°	7436.6	4133.2	922.8	949.8	1090.6	1326.9	1412.4	1253.8	1079.9	1002.1	986.0
62.5°	7003.3	3641.4	868.2	894.4	1014.4	1224.6	1343.1	1191.5	1027.5	958.3	942.1
65°	6128.2	3057.2	815.9	845.1	943.6	1136.0	1280.7	1133.7	976.0	922.8	907.5
67.5°	4625.8	2289.8	766.6	792.8	880.5	1059.1	1213.0	1076.8	925.9	892.1	873.6
70°	2723.9	1433.9	710.4	738.1	814.3	979.0	1140.7	1014.4	863.6	848.2	824.3
72.5°	1267.7	862.8	646.5	673.5	731.2	872.0	1047.5	932.9	789.7	755.8	723.5
75°	756.6	631.1	571.1	595.0	635.8	758.1	930.5	849.7	719.7	675.0	641.1
77.5°	565.7	482.6	488.0	513.4	546.5	663.5	824.3	784.3	665.8	631.1	608.0
80°	407.2	366.4	397.9	425.6	460.3	603.4	789.7	725.0	601.9	555.7	534.2
82.5°	271.7	263.2	299.4	327.9	361.7	528.0	742.0	635.0	514.1	455.7	407.9
85°	150.1	158.6	201.7	214.0	243.2	371.8	608.0	510.3	387.1	311.7	297.9
87.5°	62.3	73.1	108.5	104.7	129.3	221.7	400.2	307.9	246.3	184.0	143.2
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)