

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: P318879

Luminaire Tested: **GAN-SA5B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318879
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-SA5B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 22833 lumens
Efficiency: N/A
Efficacy: 108.7 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): 210
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



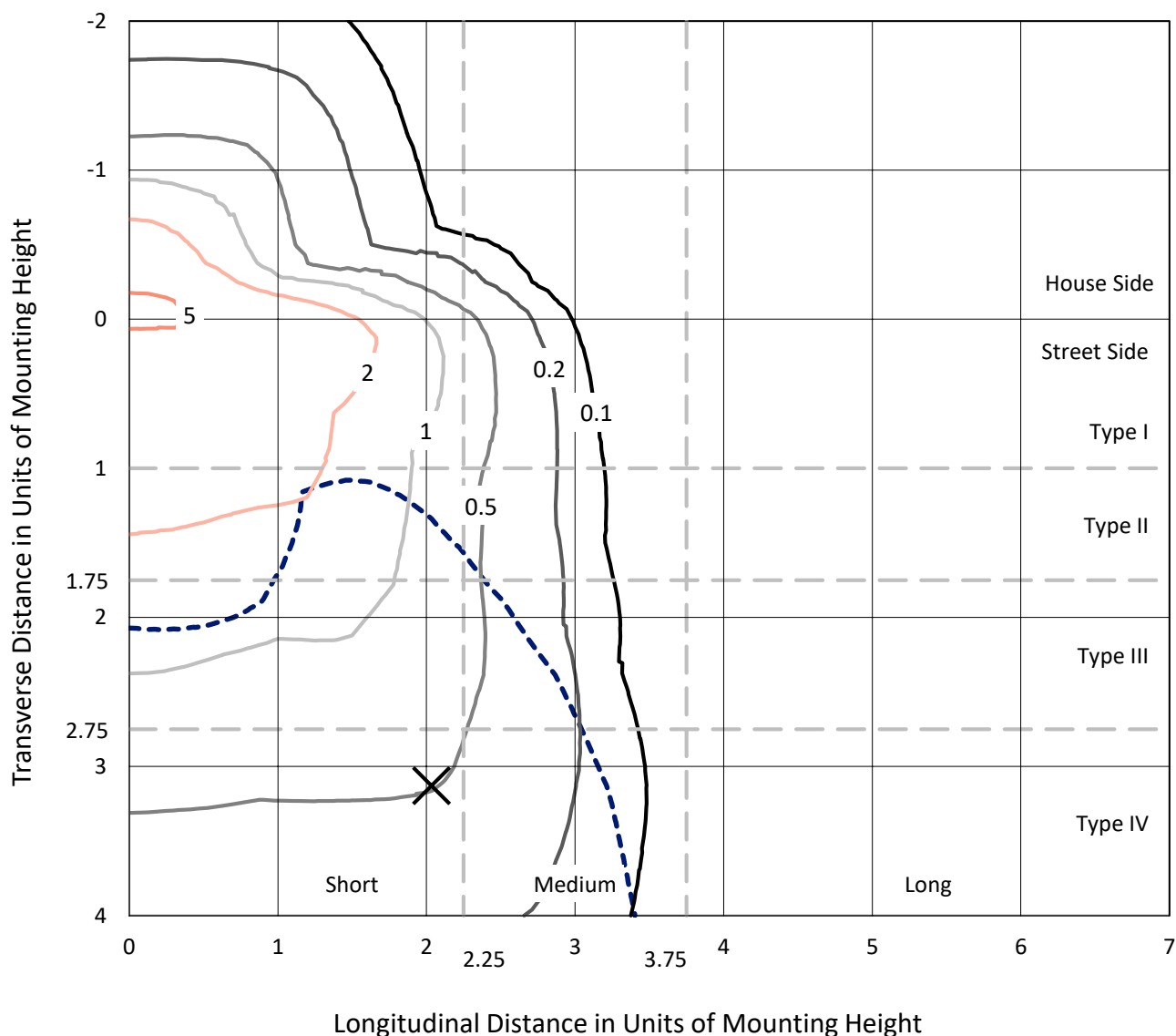
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

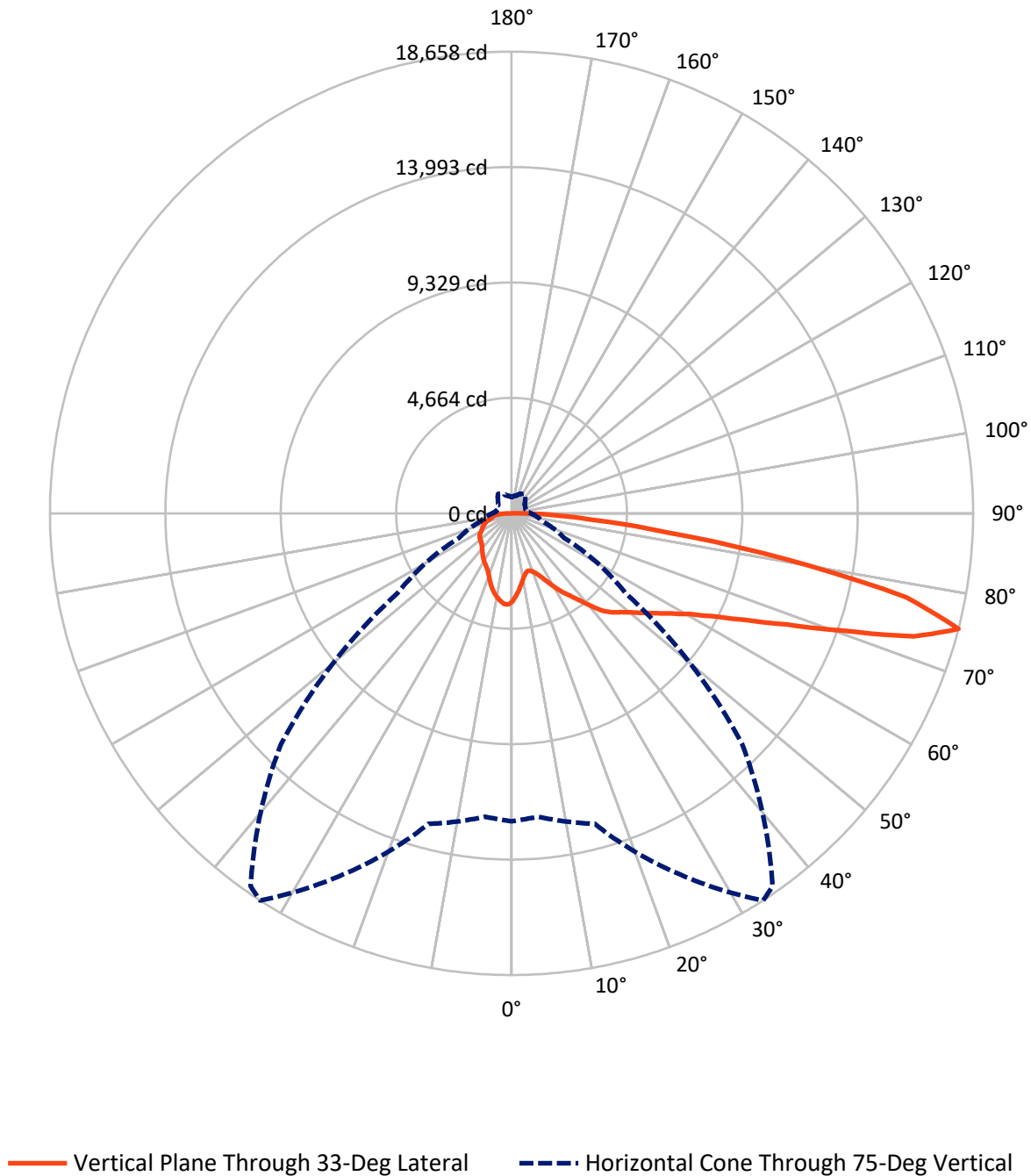


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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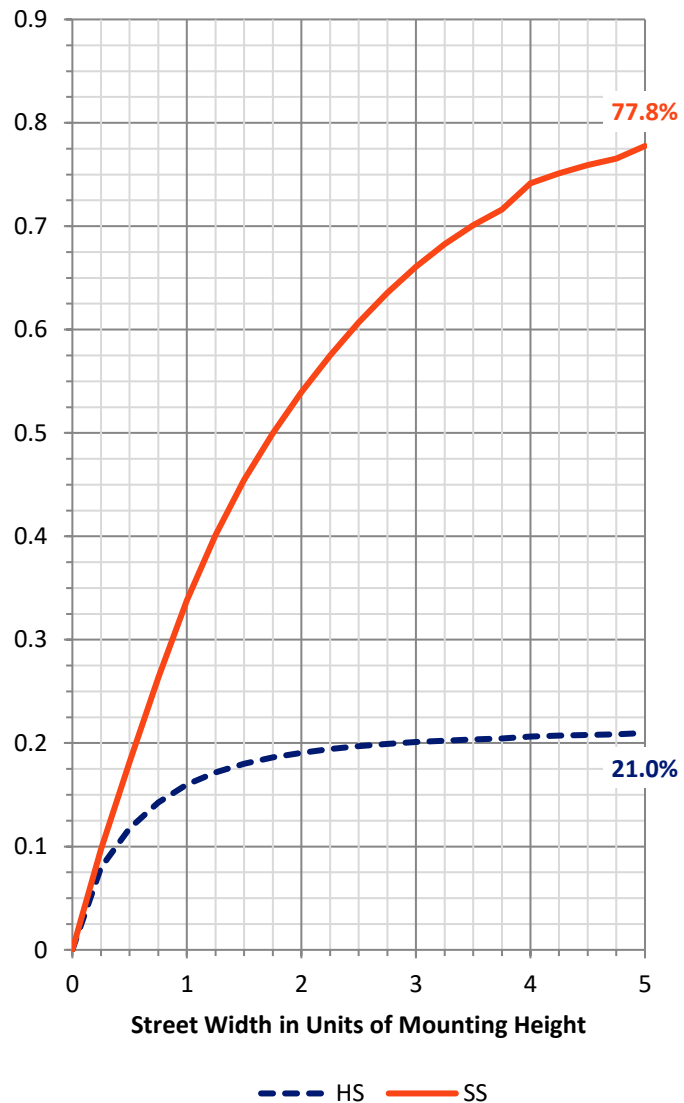
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4902.8	0.0	4902.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17930.2	0.0	17930.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	22833.0	0.0	22833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.4
10°-20°	874.2	3.8
20°-30°	1427.7	6.3
30°-40°	2126.1	9.3
40°-50°	3049.4	13.4
50°-60°	4186.4	18.3
60°-70°	5241.2	23.0
70°-80°	4741.5	20.8
80°-90°	863.7	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°	22833.0	100.0
0°-180°	22833.0	100.0

Coefficient of Utilization



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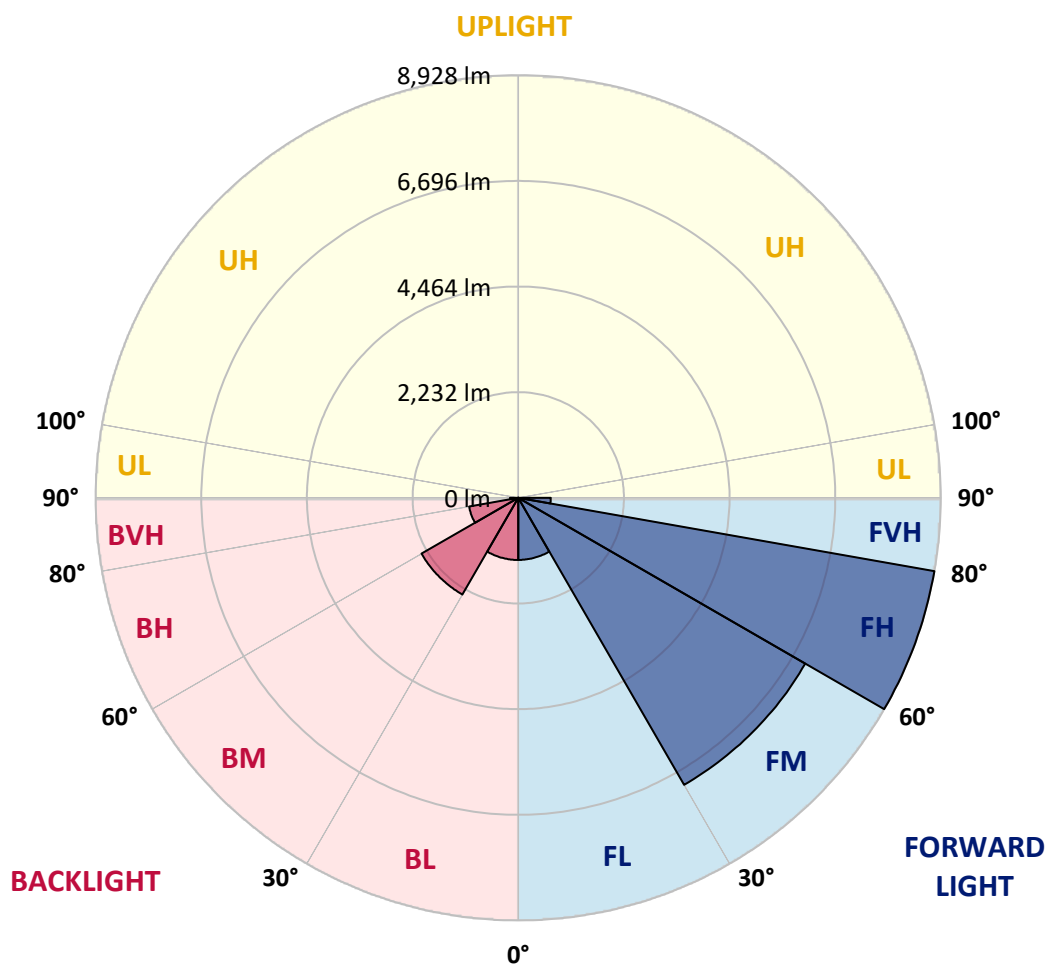
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1311.4	5.7			
FM	(30°-60°)	7002.4	30.7			
FH	(60°-80°)	8928.5	39.1			G4/12000
FVH	(80°-90°)	687.8	3.0			G4/750
BL	(0°-30°)	1313.2	5.8	B3/2500		
BM	(30°-60°)	2359.6	10.3	B2/2500		
BH	(60°-80°)	1054.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	175.8	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°	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9
2.5°	3314.2	3301.6	3325.2	3328.4	3348.9	3356.8	3385.2	3429.3	3465.6	3507.4	3545.3
5°	3013.7	3005.0	3038.1	3061.8	3106.7	3125.7	3192.7	3286.6	3370.2	3464.8	3550.8
7.5°	2728.2	2723.4	2760.5	2814.1	2866.2	2892.2	3008.2	3144.6	3284.2	3437.2	3568.9
10°	2487.6	2486.0	2521.5	2574.4	2650.9	2680.0	2829.9	3009.7	3205.3	3415.9	3599.7
12.5°	2352.7	2358.3	2374.8	2419.0	2490.0	2519.1	2685.6	2896.9	3139.1	3408.8	3644.6
15°	2385.9	2394.5	2366.1	2364.6	2415.0	2437.9	2594.1	2816.5	3091.8	3420.6	3710.1
17.5°	2527.0	2528.6	2453.7	2406.4	2437.1	2449.0	2565.7	2770.7	3064.1	3447.5	3792.1
20°	2725.8	2721.8	2589.3	2510.5	2527.0	2530.2	2605.9	2771.5	3061.8	3494.0	3898.6
22.5°	2989.2	2960.0	2781.8	2674.5	2670.6	2665.8	2709.2	2829.9	3096.5	3569.7	4025.6
25°	3333.1	3305.5	3060.2	2913.5	2882.0	2870.1	2876.4	2954.5	3165.1	3651.0	4167.6
27.5°	3715.6	3667.5	3430.9	3223.5	3158.0	3141.4	3103.6	3130.4	3240.0	3729.0	4336.3
30°	4035.8	4009.8	3803.2	3557.1	3479.8	3456.1	3356.8	3327.6	3348.1	3835.5	4549.3
32.5°	4214.9	4197.5	4072.1	3873.4	3801.6	3768.5	3628.1	3569.7	3521.6	4003.5	4838.0
35°	4431.8	4420.7	4345.0	4200.7	4094.2	4059.5	3950.7	3889.9	3766.1	4234.6	5211.0
37.5°	4707.8	4696.0	4697.6	4580.8	4453.9	4421.5	4349.8	4285.9	4083.2	4538.3	5616.4
40°	5020.2	4997.3	4988.6	4983.1	4902.6	4884.5	4846.6	4759.9	4480.7	4901.1	6016.3
42.5°	5490.2	5409.0	5235.5	5300.9	5380.6	5371.1	5401.9	5277.3	4922.4	5330.1	6406.7
45°	5943.7	5810.4	5510.7	5524.9	5699.2	5752.1	5982.4	5894.1	5401.1	5800.2	6810.5
47.5°	6150.4	6049.4	5794.7	5795.5	5968.2	6077.8	6582.6	6519.5	5904.3	6334.2	7303.5
50°	6381.5	6280.5	6051.8	6137.8	6288.4	6405.1	7162.3	7130.0	6383.1	6918.6	7894.2
52.5°	6633.9	6462.7	6317.6	6471.4	6682.8	6818.4	7742.8	7654.5	6822.4	7507.0	8573.3
55°	6637.0	6590.5	6700.9	6813.7	7130.0	7296.4	8350.9	8117.4	7180.4	8085.1	9126.2
57.5°	7014.8	6939.1	7173.3	7225.4	7638.7	7826.4	8955.8	8520.5	7544.8	8528.4	9424.3
60°	7514.9	7450.2	7641.8	7779.1	8268.1	8518.9	9601.8	8934.5	7831.1	8862.8	9410.1
62.5°	8378.5	8305.1	8302.8	8495.2	9153.8	9445.6	10326.6	9340.7	7944.7	8929.0	9008.7
65°	9642.8	9526.1	9306.0	9397.5	10377.1	10668.1	11136.6	9634.9	7794.8	8574.1	7974.7
67.5°	10873.2	10869.3	10598.7	10786.4	11992.4	12225.8	12059.4	9664.1	7327.1	7338.2	6140.1
70°	12099.6	12115.4	12069.7	12722.7	14174.7	14417.7	13042.2	9272.1	6275.8	5299.4	3678.6
72.5°	13071.3	13067.4	13297.7	14981.6	17007.0	16952.6	13870.3	8084.3	4505.9	2860.7	1758.0
75°	12441.9	12304.7	12990.9	16100.0	18657.8	18392.0	13166.0	5639.3	2338.5	1302.2	946.5
77.5°	8115.1	8245.2	9252.4	13300.1	16320.0	15996.7	9659.4	2631.1	1101.8	854.2	686.2
80°	2938.7	3076.0	4332.4	7533.8	11243.9	11191.0	4756.7	1081.3	745.3	645.2	500.0
82.5°	1011.1	1061.6	1709.1	3345.7	6348.4	6585.0	1789.6	614.4	541.8	457.5	342.3
85°	396.7	454.3	781.6	1609.8	3202.2	3225.8	724.8	367.5	377.0	299.7	187.7
87.5°	150.6	183.0	373.8	747.7	1462.3	1343.2	259.5	175.1	214.5	178.2	89.1
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°	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9
2.5°	3574.4	3591.0	3625.7	3649.4	3674.6	3681.7	3684.9	3691.2	3697.5	3695.1	3695.9
5°	3596.5	3628.9	3684.9	3708.5	3719.6	3707.0	3682.5	3662.8	3648.6	3640.7	3638.3
7.5°	3632.8	3678.6	3738.5	3734.6	3709.3	3653.3	3590.2	3542.9	3503.5	3489.3	3481.4
10°	3680.9	3734.6	3776.4	3731.4	3658.1	3561.0	3466.4	3393.0	3333.9	3311.0	3307.1
12.5°	3742.4	3796.9	3804.8	3709.3	3587.9	3455.4	3326.8	3229.8	3141.4	3113.0	3106.7
15°	3822.1	3873.4	3824.5	3670.7	3501.1	3322.8	3156.4	3024.7	2931.6	2896.9	2884.3
17.5°	3905.7	3954.6	3828.4	3606.8	3387.5	3165.9	2956.9	2822.0	2715.5	2675.3	2670.6
20°	4005.9	4028.0	3811.8	3515.3	3231.4	2962.4	2742.4	2615.4	2558.6	2530.2	2527.0
22.5°	4129.7	4106.0	3774.0	3391.5	3033.4	2727.4	2548.3	2489.2	2475.0	2468.7	2471.0
25°	4260.6	4188.1	3718.0	3229.8	2783.4	2492.3	2406.4	2422.9	2441.9	2439.5	2439.5
27.5°	4405.0	4271.7	3632.0	3015.2	2506.5	2299.9	2310.1	2370.9	2399.3	2398.5	2397.7
30°	4590.3	4366.3	3522.4	2757.3	2247.8	2164.2	2226.5	2300.7	2339.3	2337.7	2338.5
32.5°	4818.2	4470.4	3373.3	2469.5	2060.9	2064.1	2135.8	2209.2	2254.1	2250.2	2251.0
35°	5084.8	4587.2	3171.4	2185.5	1937.1	1984.4	2041.2	2092.5	2135.0	2129.5	2124.0
37.5°	5375.1	4701.5	2903.3	1931.6	1836.1	1910.3	1957.6	1966.3	1986.0	1971.8	1961.5
40°	5651.1	4789.1	2557.8	1723.3	1734.4	1847.2	1877.9	1843.2	1807.7	1803.0	1788.8
42.5°	5891.7	4818.2	2208.4	1556.9	1627.1	1780.9	1799.8	1727.3	1663.4	1633.4	1620.8
45°	6145.7	4828.5	1882.7	1417.3	1523.8	1721.8	1742.3	1645.3	1555.3	1490.7	1469.4
47.5°	6477.7	4902.6	1629.5	1314.0	1444.9	1682.3	1711.5	1579.8	1463.1	1370.8	1351.1
50°	6912.3	5049.3	1423.6	1235.1	1393.7	1656.3	1689.4	1515.9	1387.3	1276.1	1256.4
52.5°	7395.0	5184.2	1257.2	1171.2	1344.0	1610.6	1661.0	1470.2	1316.4	1188.6	1167.3
55°	7732.5	5080.9	1123.1	1105.0	1279.3	1545.1	1621.6	1431.5	1214.6	1103.4	1084.5
57.5°	7797.2	4727.5	1021.4	1036.4	1201.2	1463.1	1560.9	1345.5	1159.4	1066.3	1046.6
60°	7620.5	4235.4	945.7	973.3	1117.6	1359.7	1447.3	1284.8	1106.6	1026.9	1010.3
62.5°	7176.5	3731.4	889.7	916.5	1039.5	1254.8	1376.3	1220.9	1052.9	981.9	965.4
65°	6279.7	3132.8	836.0	866.0	967.0	1164.1	1312.4	1161.8	1000.1	945.7	929.9
67.5°	4740.2	2346.4	785.6	812.4	902.3	1085.3	1243.0	1103.4	948.8	914.1	895.2
70°	2791.3	1469.4	728.0	756.4	834.5	1003.2	1168.9	1039.5	884.9	869.2	844.7
72.5°	1299.0	884.1	662.5	690.1	749.3	893.6	1073.4	955.9	809.2	774.5	741.4
75°	775.3	646.7	585.2	609.7	651.5	776.9	953.6	870.7	737.4	691.7	657.0
77.5°	579.7	494.5	500.0	526.1	560.0	679.9	844.7	803.7	682.2	646.7	623.1
80°	417.2	375.4	407.8	436.2	471.7	618.4	809.2	743.0	616.8	569.5	547.4
82.5°	278.4	269.7	306.8	336.0	370.7	541.1	760.3	650.7	526.9	466.9	418.0
85°	153.8	162.5	206.6	219.3	249.2	380.9	623.1	522.9	396.7	319.4	305.2
87.5°	63.9	74.9	111.2	107.3	132.5	227.1	410.1	315.5	252.4	188.5	146.7
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)