

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: P317370

Luminaire Tested: **GAN-SA6C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36857 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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

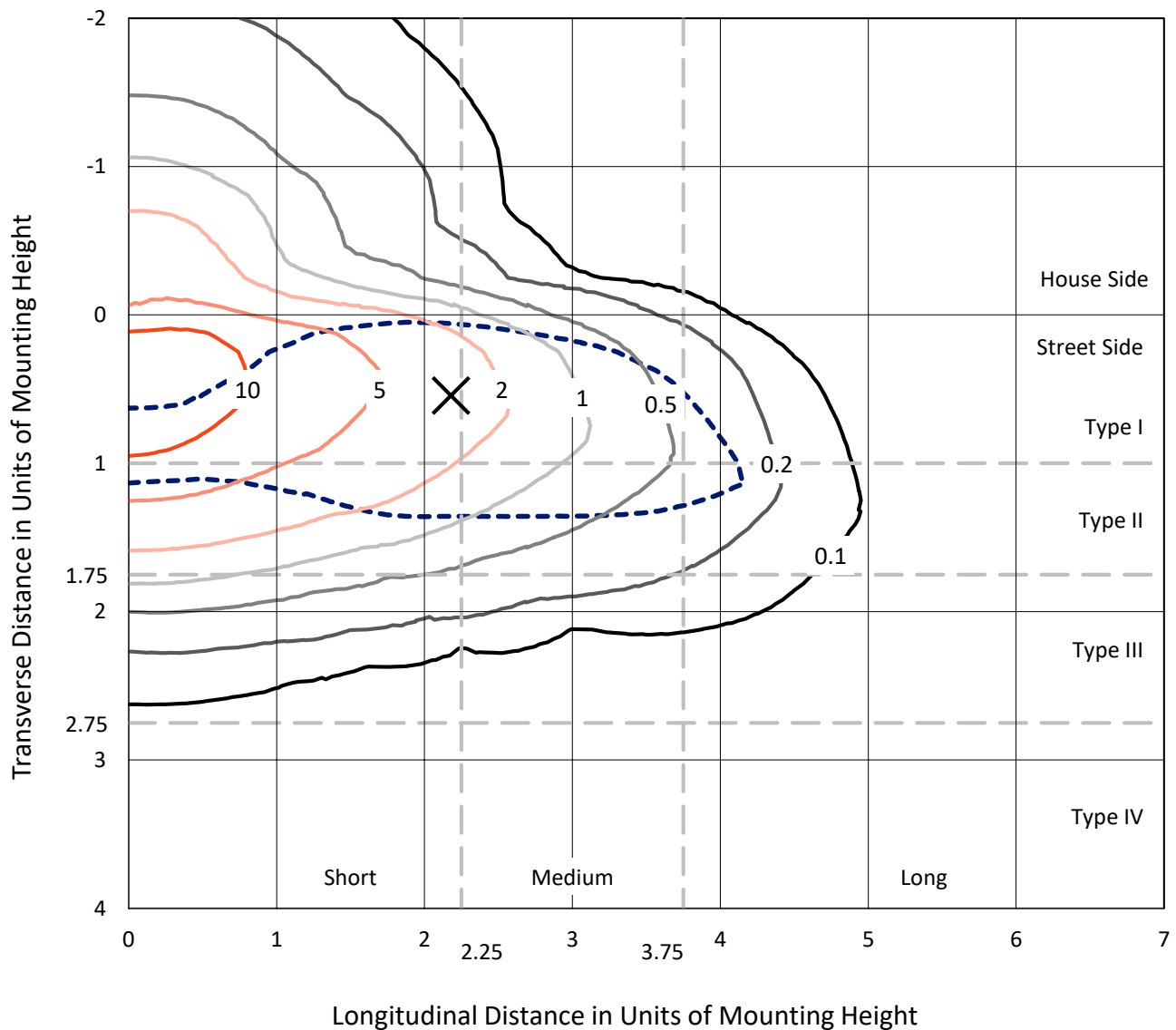


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Iso-Footcandle Lines of Horizontal Illumination

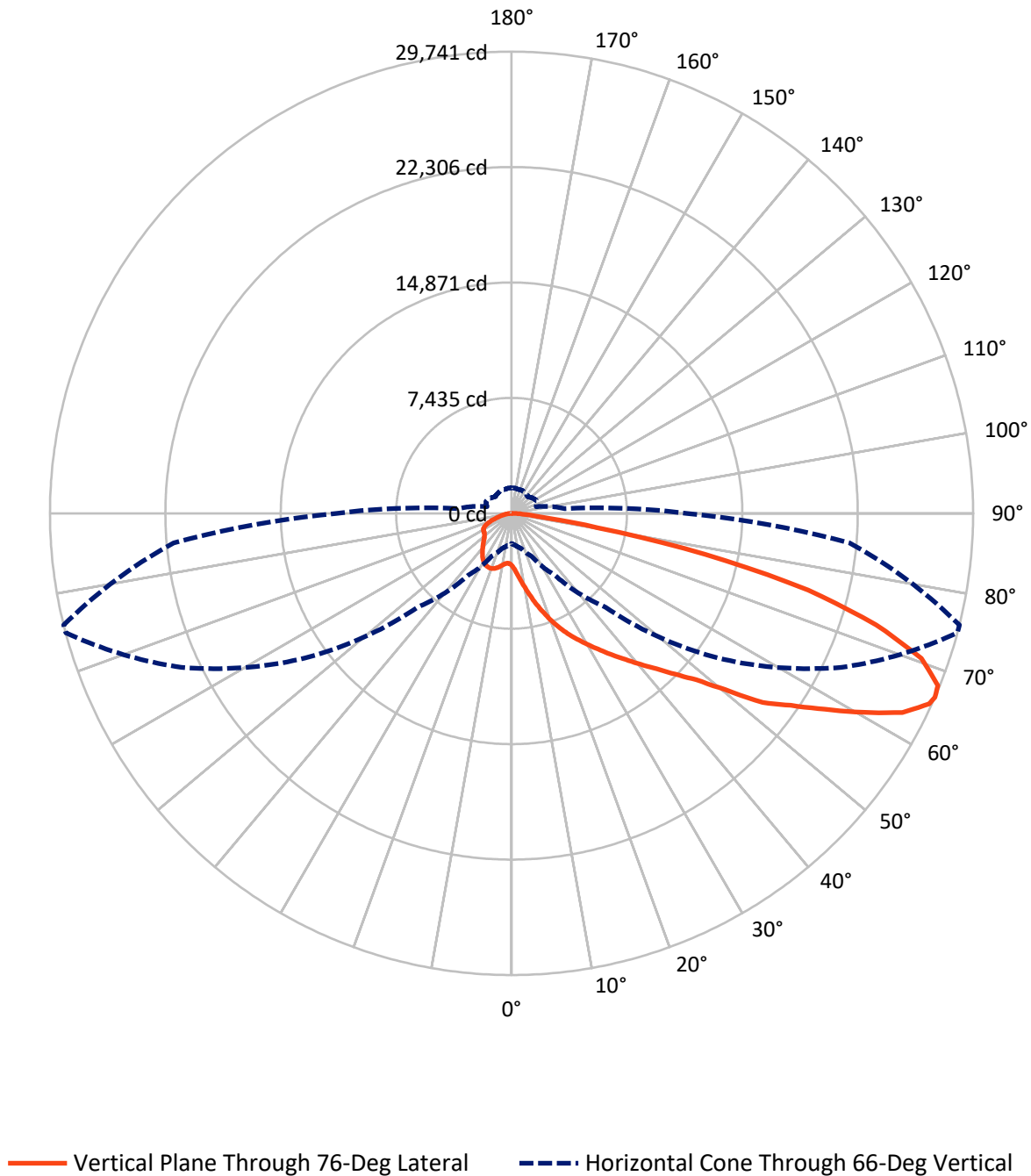
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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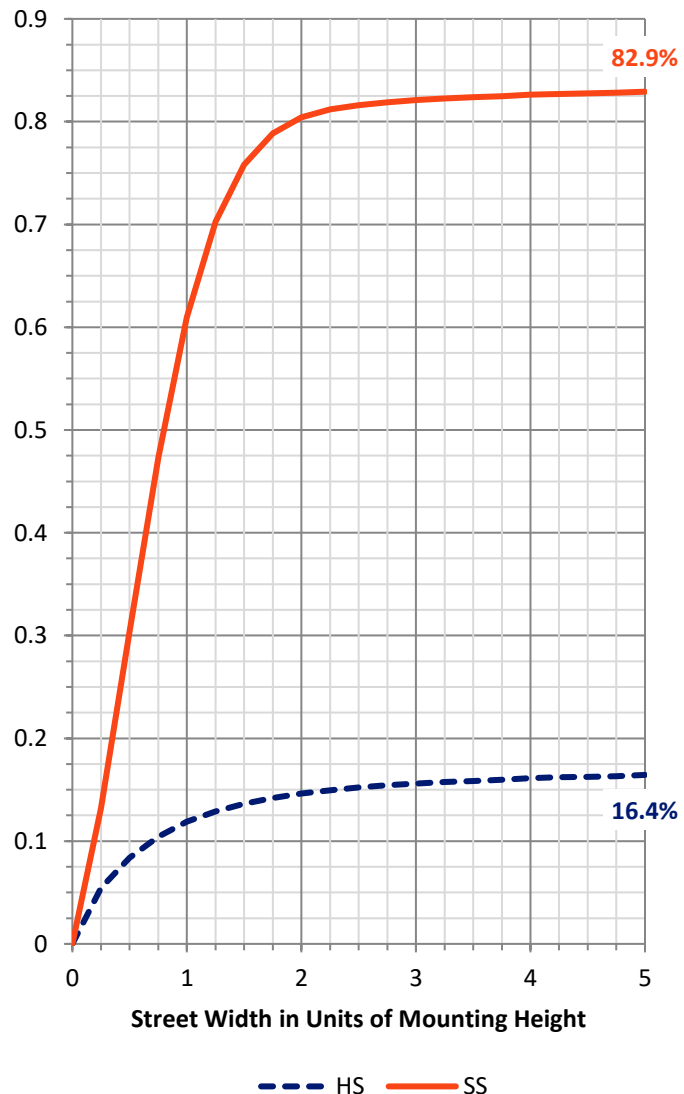
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6201.8	0.0	6201.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	30655.2	0.0	30655.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	36857.0	0.0	36857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	1.1
10°-20°	1607.3	4.4
20°-30°	3123.4	8.5
30°-40°	5098.1	13.8
40°-50°	6965.2	18.9
50°-60°	8113.1	22.0
60°-70°	7273.5	19.7
70°-80°	3675.7	10.0
80°-90°	593.6	1.6
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°	36857.0	100.0
0°-180°	36857.0	100.0

Coefficient of Utilization



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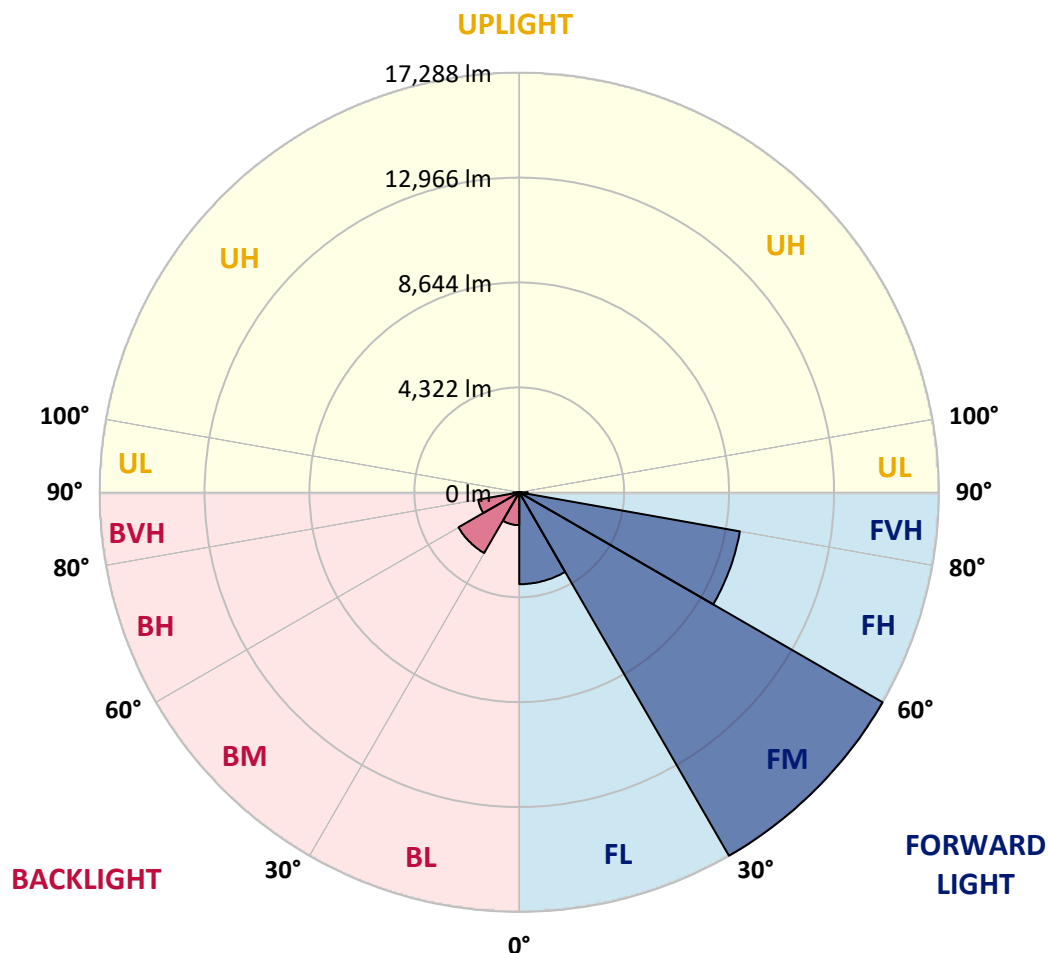
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3785.1	10.3			
FM	(30°-60°)	17288.5	46.9			
FH	(60°-80°)	9231.1	25.0			G4/12000
FVH	(80°-90°)	350.5	1.0			G3/500
BL	(0°-30°)	1352.6	3.7	B3/2500		
BM	(30°-60°)	2887.9	7.8	B3/5000		
BH	(60°-80°)	1718.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	243.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9
2.5°	4468.2	4400.7	4394.4	4295.6	4273.0	4084.1	3945.2	3800.1	3634.9	3602.4	3472.2
5°	5739.5	5733.2	5646.9	5485.5	5359.1	5036.3	4717.2	4379.4	4009.0	3949.0	3656.2
7.5°	6883.2	6873.1	6806.8	6632.9	6450.2	6053.6	5598.1	5080.1	4479.5	4390.7	3905.2
10°	7751.5	7747.8	7725.2	7597.6	7442.5	7062.1	6559.1	5852.1	5026.3	4904.9	4216.7
12.5°	8422.2	8429.7	8444.7	8399.7	8325.8	8001.8	7486.3	6670.4	5609.4	5489.3	4563.3
15°	8876.4	8898.9	8976.5	9040.3	9079.1	8880.2	8380.9	7507.5	6262.5	6118.6	4947.5
17.5°	9105.4	9130.4	9264.3	9457.0	9634.7	9614.6	9218.0	8305.8	6889.4	6750.5	5360.4
20°	9303.1	9321.8	9472.0	9703.5	10017.5	10156.4	9933.7	9074.1	7576.3	7411.2	5798.3
22.5°	9876.2	9899.9	9945.0	10076.4	10354.1	10609.4	10501.8	9801.1	8205.7	8051.8	6213.7
25°	10982.3	11011.0	10913.4	10802.1	10854.6	11032.3	11052.3	10464.2	8843.9	8669.9	6660.4
27.5°	12314.8	12356.1	12189.7	11903.2	11652.9	11584.1	11560.3	11007.3	9453.2	9251.8	7102.1
30°	13619.9	13691.2	13474.8	13103.1	12643.9	12321.1	12082.1	11539.1	10053.8	9861.1	7518.8
32.5°	14894.9	14866.2	14552.1	14189.2	13651.2	13247.0	12669.0	12109.6	10729.5	10508.0	7933.0
35°	15768.3	15778.3	15486.8	15056.3	14543.3	14233.0	13454.7	12725.3	11419.0	11215.0	8403.4
37.5°	16511.6	16465.3	16134.9	15733.3	15291.6	15159.0	14374.4	13403.4	12166.0	11943.2	8903.9
40°	16759.3	16705.5	16489.0	16200.0	15845.9	15834.6	15389.2	14171.7	13010.5	12790.3	9468.2
42.5°	16609.2	16540.3	16451.5	16372.7	16263.8	16313.9	16342.6	15072.6	13939.0	13692.5	10121.4
45°	16054.9	15951.0	16013.6	16185.0	16421.5	16704.3	17203.5	16069.9	14978.8	14772.3	10888.4
47.5°	15202.7	15108.9	15304.1	15670.7	16313.9	17029.6	18018.1	17171.0	16220.0	16014.8	11980.8
50°	14004.0	14031.6	14310.6	14977.5	15949.7	17179.7	19021.6	18628.7	18024.3	17832.9	13471.0
52.5°	12037.1	12042.1	12827.9	13922.7	15304.1	17102.2	19578.4	20491.8	20488.0	20256.6	14889.9
55°	10210.2	10321.6	10943.5	12398.7	14258.0	16791.8	19967.5	21397.7	22105.9	21834.4	16212.5
57.5°	8425.9	8491.0	9080.4	10541.8	12765.3	15964.8	20366.7	22485.0	23970.3	23798.9	17856.7
60°	6396.4	6496.5	7105.9	8456.0	10855.9	14497.0	20404.2	23619.9	26198.8	26026.1	19692.2
62.5°	4151.7	4324.3	4894.9	6159.9	8546.1	12386.2	19533.3	24361.9	28310.9	28249.6	21321.4
65°	2386.1	2516.3	2912.9	3888.9	5895.9	9736.0	17462.5	24076.6	29610.9	29575.9	21930.7
66°	1949.5	2030.8	2334.8	3039.3	4864.9	8549.8	16258.8	23474.8	29739.8	29741.1	21860.7
67.5°	1559.1	1595.3	1731.7	2175.9	3589.8	6776.8	14107.9	22147.2	29579.7	29623.5	21409.0
70°	1290.0	1308.8	1351.4	1459.0	1959.5	4086.6	10013.8	18697.5	27971.8	28005.6	19646.0
72.5°	1157.4	1168.7	1184.9	1200.0	1382.6	2283.5	6116.1	14957.5	24524.6	24568.4	16959.5
75°	1048.6	1054.8	1052.3	1053.6	1159.9	1455.2	3160.7	11167.4	19829.9	19742.3	12991.8
77.5°	920.9	927.2	914.7	917.2	1026.0	1118.6	1572.8	7817.8	13382.2	12764.1	7319.8
80°	778.3	783.3	778.3	787.0	893.4	844.6	914.7	4398.2	5917.2	5596.9	2602.6
82.5°	588.1	609.4	624.4	659.4	735.7	600.6	611.9	1713.0	1801.8	1715.5	798.3
85°	257.8	314.1	470.5	504.3	553.1	360.4	401.7	698.2	733.2	710.7	290.3
87.5°	67.6	73.8	232.7	292.8	306.6	162.7	209.0	317.8	335.3	317.8	96.3
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°	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9	3365.9
2.5°	3403.4	3342.1	3232.0	3134.4	3060.6	3010.5	2960.5	2935.4	2920.4	2905.4	2907.9
5°	3512.3	3388.4	3199.5	3065.6	2990.5	2943.0	2917.9	2907.9	2901.7	2886.6	2886.6
7.5°	3676.2	3501.0	3240.7	3103.1	3044.3	3008.0	2993.0	2988.0	2980.5	2963.0	2965.5
10°	3882.6	3637.4	3327.1	3193.2	3139.4	3099.4	3078.1	3070.6	3056.8	3036.8	3039.3
12.5°	4125.4	3806.3	3441.0	3300.8	3235.7	3181.9	3146.9	3125.6	3101.9	3075.6	3076.8
15°	4390.7	3990.3	3563.6	3397.2	3308.3	3233.2	3176.9	3140.6	3103.1	3070.6	3069.3
17.5°	4659.7	4167.9	3657.4	3449.7	3329.6	3230.7	3154.4	3098.1	3051.8	3011.8	3008.0
20°	4950.0	4328.1	3710.0	3444.7	3289.5	3171.9	3070.6	3000.5	2949.2	2909.2	2902.9
22.5°	5245.3	4478.2	3718.7	3393.4	3200.7	3056.8	2950.5	2872.9	2820.3	2779.0	2764.0
25°	5515.5	4594.6	3682.4	3294.6	3076.8	2921.7	2817.8	2739.0	2696.5	2647.7	2632.6
27.5°	5762.0	4675.9	3609.9	3168.2	2937.9	2785.3	2687.7	2620.1	2573.8	2536.3	2523.8
30°	5983.5	4719.7	3491.0	3018.0	2795.3	2656.4	2573.8	2527.5	2487.5	2439.9	2431.2
32.5°	6193.7	4719.7	3338.3	2854.1	2653.9	2542.5	2493.8	2465.0	2419.9	2373.6	2361.1
35°	6403.9	4691.0	3158.2	2682.7	2523.8	2461.2	2458.7	2424.9	2356.1	2293.6	2277.3
37.5°	6625.4	4632.1	2955.5	2522.5	2417.4	2424.9	2446.2	2371.1	2273.5	2184.7	2160.9
40°	6875.6	4550.8	2745.3	2383.6	2328.6	2408.7	2412.4	2293.6	2103.4	2022.0	2000.8
42.5°	7169.7	4469.5	2550.1	2261.0	2258.5	2359.9	2348.6	2125.9	2012.0	1970.7	1959.5
45°	7556.3	4423.2	2364.9	2144.7	2203.5	2281.0	2239.7	2033.3	1985.7	1962.0	1952.0
47.5°	8165.7	4447.0	2194.7	2052.1	2148.4	2202.2	2037.0	1995.8	1962.0	1933.2	1923.2
50°	8929.0	4433.2	2057.1	1988.2	2085.8	2119.6	1945.7	1947.0	1929.4	1896.9	1881.9
52.5°	9503.3	4325.6	1968.2	1952.0	2030.8	1973.2	1888.1	1899.4	1890.6	1843.1	1826.8
55°	10057.6	4233.0	1923.2	1938.2	1990.7	1790.5	1820.6	1848.1	1839.3	1793.0	1785.5
57.5°	10747.0	4215.5	1895.7	1941.9	1957.0	1699.2	1755.5	1791.8	1785.5	1765.5	1761.8
60°	11591.6	4220.5	1870.6	1948.2	1919.4	1631.6	1694.2	1740.5	1744.2	1740.5	1738.0
62.5°	12055.8	4084.1	1808.1	1930.7	1853.1	1572.8	1630.4	1698.0	1699.2	1706.7	1705.5
65°	11661.7	3676.2	1691.7	1869.4	1741.7	1524.0	1575.3	1649.2	1630.4	1664.2	1664.2
66°	11278.8	3441.0	1634.1	1829.3	1694.2	1505.3	1557.8	1624.1	1600.4	1646.7	1646.7
67.5°	10496.8	3044.3	1530.3	1744.2	1626.6	1479.0	1537.8	1582.8	1550.3	1619.1	1614.1
70°	9067.8	2354.9	1321.3	1551.6	1515.3	1440.2	1510.3	1500.3	1452.7	1557.8	1537.8
72.5°	7645.2	1789.3	1061.1	1298.8	1346.4	1391.4	1471.5	1395.1	1335.1	1408.9	1365.1
75°	5932.2	1345.1	838.3	1009.8	1137.4	1315.1	1425.2	1273.8	1187.4	1179.9	1156.2
77.5°	3207.0	923.4	664.4	770.8	903.4	1220.0	1393.9	1143.6	1013.5	983.5	964.7
80°	1270.0	600.6	483.0	584.3	631.9	1082.3	1318.8	992.2	835.8	805.8	777.0
82.5°	524.3	355.4	311.6	391.6	411.7	925.9	1183.7	813.3	645.6	893.4	948.5
85°	225.2	195.2	185.2	202.7	232.7	649.4	942.2	620.6	696.9	621.9	494.2
87.5°	67.6	82.6	78.8	77.6	85.1	155.2	501.8	345.3	511.8	193.9	145.1
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)