

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: P317602

Luminaire Tested: **GAN-SA8B-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317602
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-SA8B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37916 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

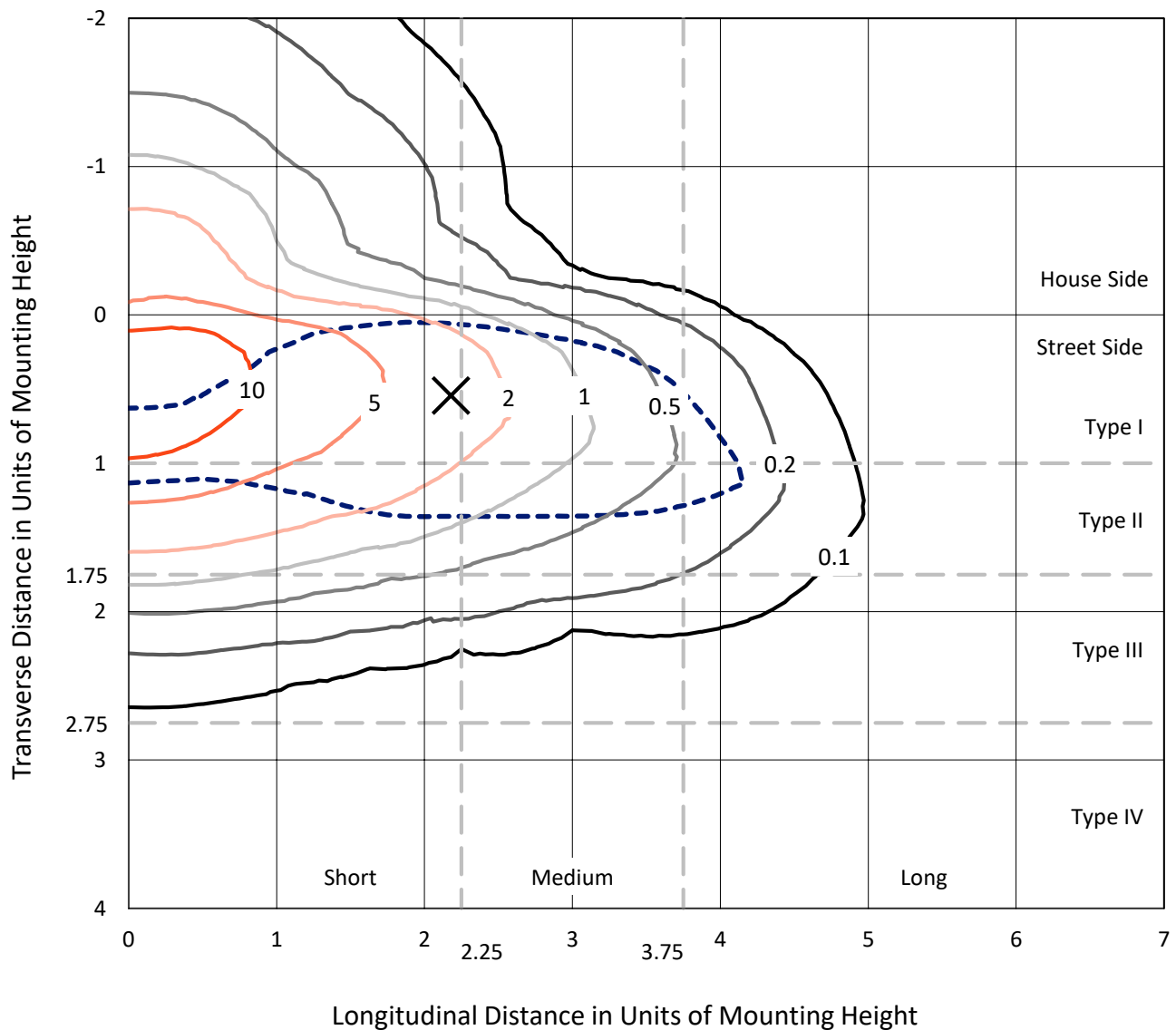


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Iso-Footcandle Lines of Horizontal Illumination

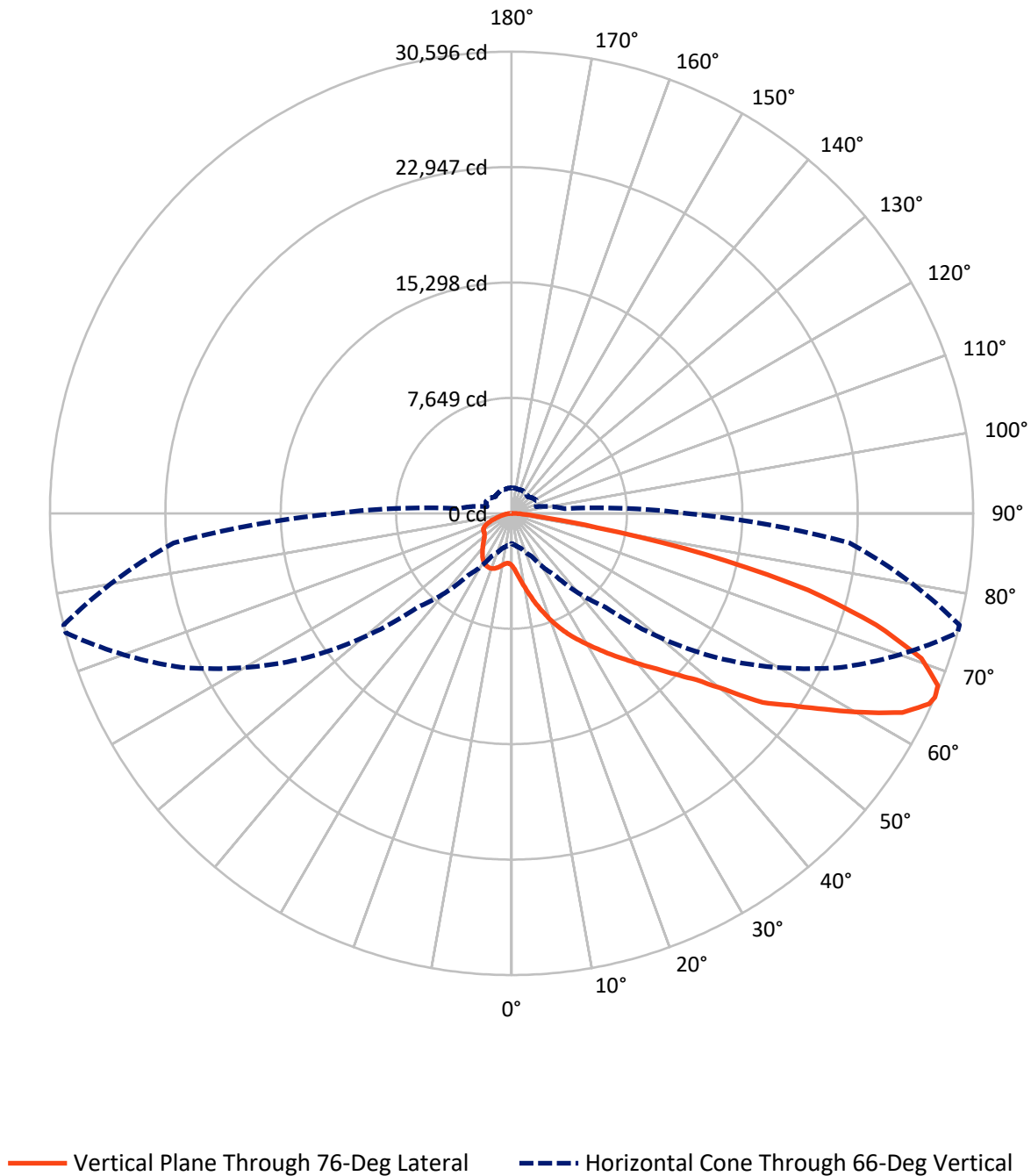
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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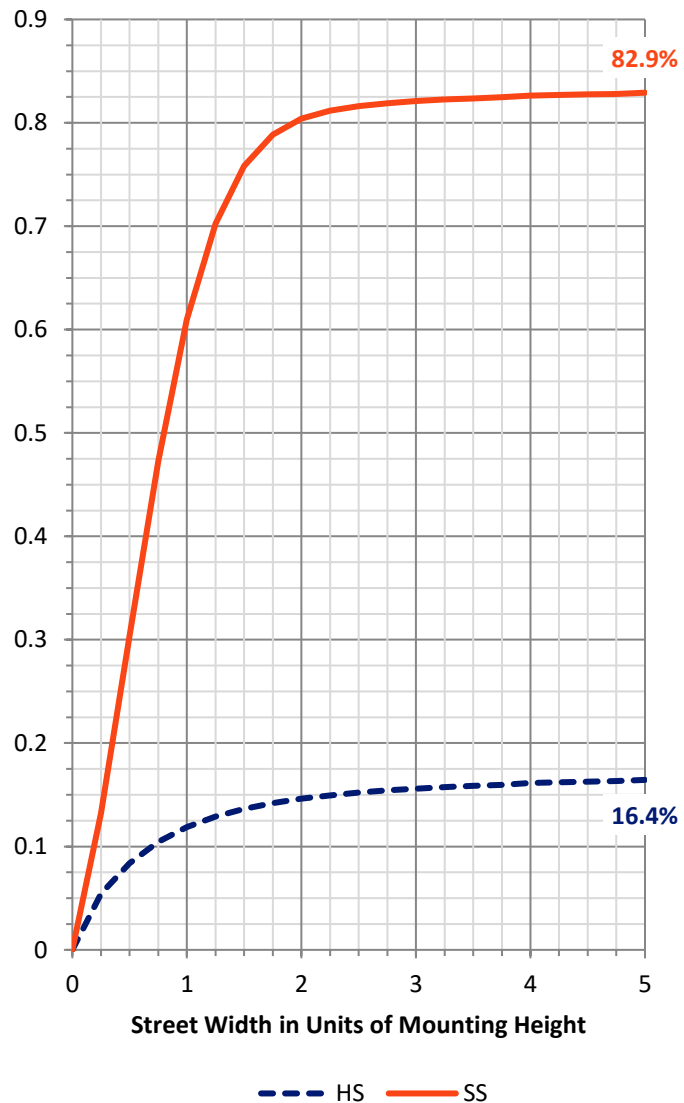
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6380.0	0.0	6380.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31536.0	0.0	31536.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	37916.0	0.0	37916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.1
10°-20°	1653.5	4.4
20°-30°	3213.1	8.5
30°-40°	5244.6	13.8
40°-50°	7165.4	18.9
50°-60°	8346.2	22.0
60°-70°	7482.5	19.7
70°-80°	3781.3	10.0
80°-90°	610.6	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°	37916.0	100.0
0°-180°	37916.0	100.0

Coefficient of Utilization



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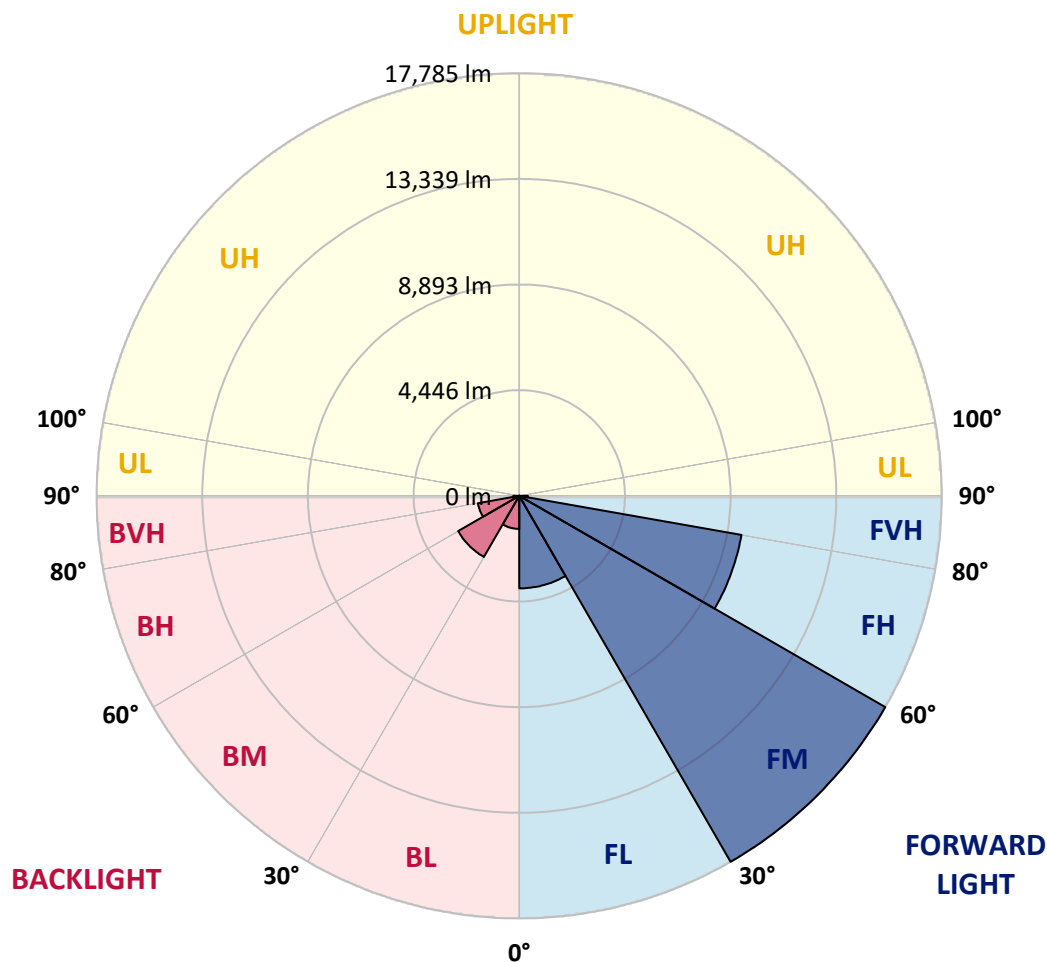
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3893.9	10.3			
FM	(30°-60°)	17785.2	46.9			
FH	(60°-80°)	9496.3	25.0			G4/12000
FVH	(80°-90°)	360.6	1.0			G3/500
BL	(0°-30°)	1391.5	3.7	B3/2500		
BM	(30°-60°)	2970.9	7.8	B3/5000		
BH	(60°-80°)	1767.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	250.0	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°	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6
2.5°	4596.6	4527.1	4520.7	4419.0	4395.8	4201.4	4058.6	3909.2	3739.3	3705.9	3572.0
5°	5904.4	5898.0	5809.2	5643.1	5513.1	5181.0	4852.8	4505.2	4124.2	4062.4	3761.2
7.5°	7080.9	7070.6	7002.4	6823.5	6635.6	6227.5	5759.0	5226.1	4608.2	4516.8	4017.4
10°	7974.2	7970.4	7947.2	7815.9	7656.3	7265.0	6747.5	6020.3	5170.7	5045.9	4337.9
12.5°	8664.2	8671.9	8687.4	8641.0	8565.1	8231.7	7701.4	6862.1	5770.5	5647.0	4694.4
15°	9131.4	9154.6	9234.4	9300.1	9340.0	9135.3	8621.7	7723.2	6442.5	6294.4	5089.6
17.5°	9367.0	9392.7	9530.5	9728.7	9911.5	9890.9	9482.9	8544.5	7087.4	6944.5	5514.4
20°	9570.4	9589.7	9744.2	9982.3	10305.4	10448.3	10219.1	9334.8	7794.0	7624.1	5964.9
22.5°	10159.9	10184.4	10230.7	10365.9	10651.6	10914.2	10803.5	10082.7	8441.5	8283.2	6392.3
25°	11297.8	11327.4	11227.0	11112.5	11166.5	11349.3	11369.9	10764.9	9098.0	8919.1	6851.8
27.5°	12668.7	12711.2	12540.0	12245.2	11987.8	11917.0	11892.5	11323.6	9724.8	9517.6	7306.2
30°	14011.2	14084.6	13861.9	13479.6	13007.2	12675.1	12429.3	11870.6	10342.7	10144.5	7734.8
32.5°	15322.9	15293.3	14970.2	14596.9	14043.4	13627.7	13033.0	12457.6	11037.8	10810.0	8160.9
35°	16221.4	16231.7	15931.8	15489.0	14961.2	14642.0	13841.3	13090.9	11747.0	11537.2	8644.9
37.5°	16986.0	16938.4	16598.5	16185.3	15731.0	15594.5	14787.4	13788.6	12515.5	12286.4	9159.8
40°	17240.8	17185.5	16962.8	16665.5	16301.2	16289.6	15831.4	14578.9	13384.4	13157.8	9740.3
42.5°	17086.4	17015.6	16924.2	16843.1	16731.1	16782.6	16812.2	15505.7	14339.5	14085.9	10412.2
45°	16516.1	16409.3	16473.7	16650.0	16893.3	17184.2	17697.8	16531.6	15409.2	15196.8	11201.3
47.5°	15639.6	15543.0	15743.8	16121.0	16782.6	17518.9	18535.8	17664.3	16686.1	16475.0	12325.0
50°	14406.4	14434.7	14721.8	15407.9	16408.0	17673.3	19568.1	19163.9	18542.2	18345.3	13858.1
52.5°	12382.9	12388.1	13196.4	14322.7	15743.8	17593.5	20140.9	21080.6	21076.7	20838.6	15317.8
55°	10503.6	10618.2	11257.9	12754.9	14667.7	17274.3	20541.2	22012.5	22741.1	22461.8	16678.3
57.5°	8668.0	8735.0	9341.3	10844.7	13132.1	16423.5	20951.9	23131.1	24659.0	24482.7	18369.7
60°	6580.2	6683.2	7310.0	8698.9	11167.8	14913.6	20990.5	24298.6	26951.5	26773.9	20258.1
62.5°	4271.0	4448.6	5035.6	6336.9	8791.6	12742.1	20094.6	25061.9	29124.3	29061.3	21934.0
65°	2454.7	2588.6	2996.6	4000.6	6065.3	10015.8	17964.3	24768.4	30461.7	30425.7	22560.9
66°	2005.5	2089.1	2401.9	3126.6	5004.7	8795.5	16726.0	24149.3	30594.3	30595.6	22488.8
67.5°	1603.9	1641.2	1781.5	2238.5	3693.0	6971.5	14513.3	22783.6	30429.6	30474.6	22024.1
70°	1327.1	1346.4	1390.2	1500.9	2015.8	4204.0	10301.5	19234.7	28775.5	28810.3	20210.4
72.5°	1190.7	1202.3	1219.0	1234.4	1422.4	2349.2	6291.9	15387.3	25229.3	25274.3	17446.8
75°	1078.7	1085.1	1082.5	1083.8	1193.2	1497.0	3251.5	11488.3	20399.7	20309.5	13365.1
77.5°	947.4	953.8	940.9	943.5	1055.5	1150.8	1618.0	8042.5	13766.7	13130.8	7530.2
80°	800.6	805.8	800.6	809.7	919.1	868.9	940.9	4524.5	6087.2	5757.7	2677.4
82.5°	605.0	626.9	642.3	678.4	756.9	617.9	629.4	1762.2	1853.6	1764.8	821.2
85°	265.2	323.1	484.0	518.7	568.9	370.7	413.2	718.3	754.3	731.1	298.6
87.5°	69.5	75.9	239.4	301.2	315.4	167.3	215.0	327.0	345.0	327.0	99.1
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°	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6	3462.6
2.5°	3501.2	3438.1	3324.9	3224.5	3148.5	3097.0	3045.5	3019.8	3004.3	2988.9	2991.5
5°	3613.2	3485.8	3291.4	3153.7	3076.4	3027.5	3001.8	2991.5	2985.0	2969.6	2969.6
7.5°	3781.8	3601.6	3333.9	3192.3	3131.8	3094.4	3079.0	3073.8	3066.1	3048.1	3050.7
10°	3994.2	3741.9	3422.7	3285.0	3229.6	3188.4	3166.5	3158.8	3144.6	3124.1	3126.6
12.5°	4243.9	3915.7	3539.8	3395.7	3328.7	3273.4	3237.3	3215.4	3191.0	3164.0	3165.2
15°	4516.8	4104.9	3666.0	3494.8	3403.4	3326.1	3268.2	3230.9	3192.3	3158.8	3157.5
17.5°	4793.6	4287.7	3762.5	3548.8	3425.3	3323.6	3245.0	3187.1	3139.5	3098.3	3094.4
20°	5092.2	4452.4	3816.6	3543.7	3384.1	3263.1	3158.8	3086.7	3033.9	2992.8	2986.3
22.5°	5396.0	4606.9	3825.6	3490.9	3292.7	3144.6	3035.2	2955.4	2901.4	2858.9	2843.4
25°	5674.0	4726.6	3788.2	3389.2	3165.2	3005.6	2898.8	2817.7	2773.9	2723.7	2708.3
27.5°	5927.6	4810.3	3713.6	3259.2	3022.4	2865.3	2764.9	2695.4	2647.8	2609.2	2596.3
30°	6155.4	4855.3	3591.3	3104.7	2875.6	2732.7	2647.8	2600.2	2559.0	2510.1	2501.0
32.5°	6371.7	4855.3	3434.3	2936.1	2730.2	2615.6	2565.4	2535.8	2489.5	2441.8	2429.0
35°	6587.9	4825.7	3248.9	2759.8	2596.3	2531.9	2529.4	2494.6	2423.8	2359.4	2342.7
37.5°	6815.8	4765.2	3040.4	2595.0	2486.9	2494.6	2516.5	2439.3	2338.9	2247.5	2223.0
40°	7073.2	4681.6	2824.1	2452.1	2395.5	2477.9	2481.7	2359.4	2163.8	2080.1	2058.2
42.5°	7375.7	4597.9	2623.3	2326.0	2323.4	2427.7	2416.1	2187.0	2069.8	2027.4	2015.8
45°	7773.4	4550.3	2432.8	2206.3	2266.8	2346.6	2304.1	2091.7	2042.8	2018.3	2008.0
47.5°	8400.3	4574.7	2257.8	2111.0	2210.1	2265.5	2095.6	2053.1	2018.3	1988.7	1978.4
50°	9185.5	4560.6	2116.2	2045.4	2145.8	2180.5	2001.6	2002.9	1984.9	1951.4	1936.0
52.5°	9776.3	4449.9	2024.8	2008.0	2089.1	2029.9	1942.4	1954.0	1945.0	1896.1	1879.3
55°	10346.6	4354.6	1978.4	1993.9	2047.9	1842.0	1872.9	1901.2	1892.2	1844.6	1836.8
57.5°	11055.8	4336.6	1950.1	1997.7	2013.2	1748.0	1806.0	1843.3	1836.8	1816.2	1812.4
60°	11924.7	4341.7	1924.4	2004.2	1974.6	1678.5	1742.9	1790.5	1794.4	1790.5	1787.9
62.5°	12402.2	4201.4	1860.0	1986.2	1906.4	1618.0	1677.2	1746.7	1748.0	1755.7	1754.5
65°	11996.8	3781.8	1740.3	1923.1	1791.8	1567.8	1620.6	1696.5	1677.2	1712.0	1712.0
66°	11602.9	3539.8	1681.1	1881.9	1742.9	1548.5	1602.6	1670.8	1646.3	1694.0	1694.0
67.5°	10798.4	3131.8	1574.3	1794.4	1673.4	1521.5	1582.0	1628.3	1594.8	1665.6	1660.5
70°	9328.4	2422.5	1359.3	1596.1	1558.8	1481.6	1553.7	1543.4	1494.4	1602.6	1582.0
72.5°	7864.8	1840.7	1091.6	1336.1	1385.0	1431.4	1513.8	1435.2	1373.4	1449.4	1404.3
75°	6102.6	1383.7	862.4	1038.8	1170.1	1352.9	1466.1	1310.4	1221.6	1213.8	1189.4
77.5°	3299.1	950.0	683.5	792.9	929.4	1255.0	1433.9	1176.5	1042.6	1011.7	992.4
80°	1306.5	617.9	496.9	601.1	650.0	1113.4	1356.7	1020.8	859.9	829.0	799.4
82.5°	539.3	365.6	320.5	402.9	423.5	952.5	1217.7	836.7	664.2	919.1	975.7
85°	231.7	200.8	190.5	208.5	239.4	668.1	969.3	638.5	717.0	639.7	508.4
87.5°	69.5	85.0	81.1	79.8	87.5	159.6	516.2	355.3	526.5	199.5	149.3
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)