

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: P317924

Luminaire Tested: **GAN-SA0B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45956 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

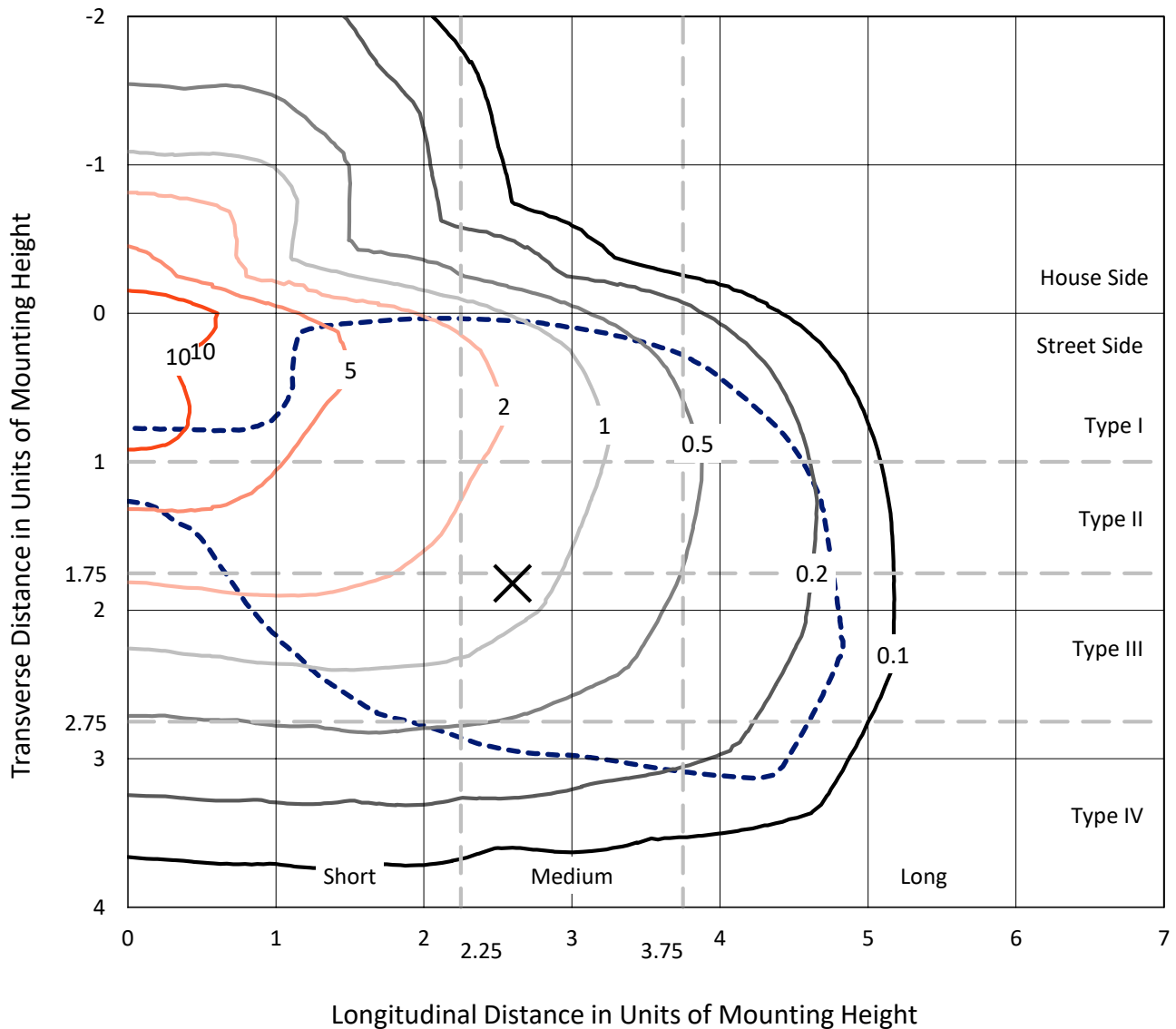


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Iso-Footcandle Lines of Horizontal Illumination

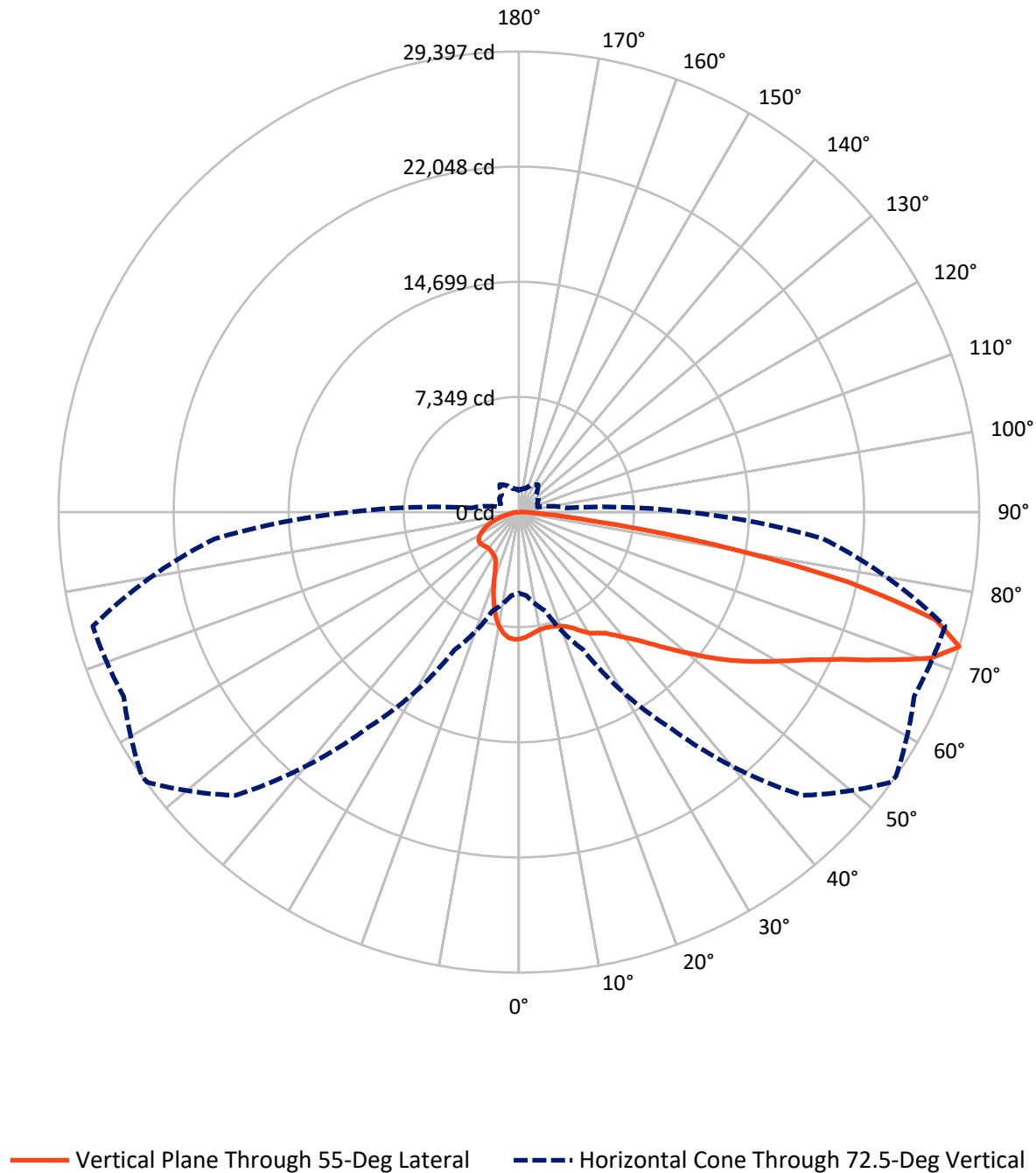
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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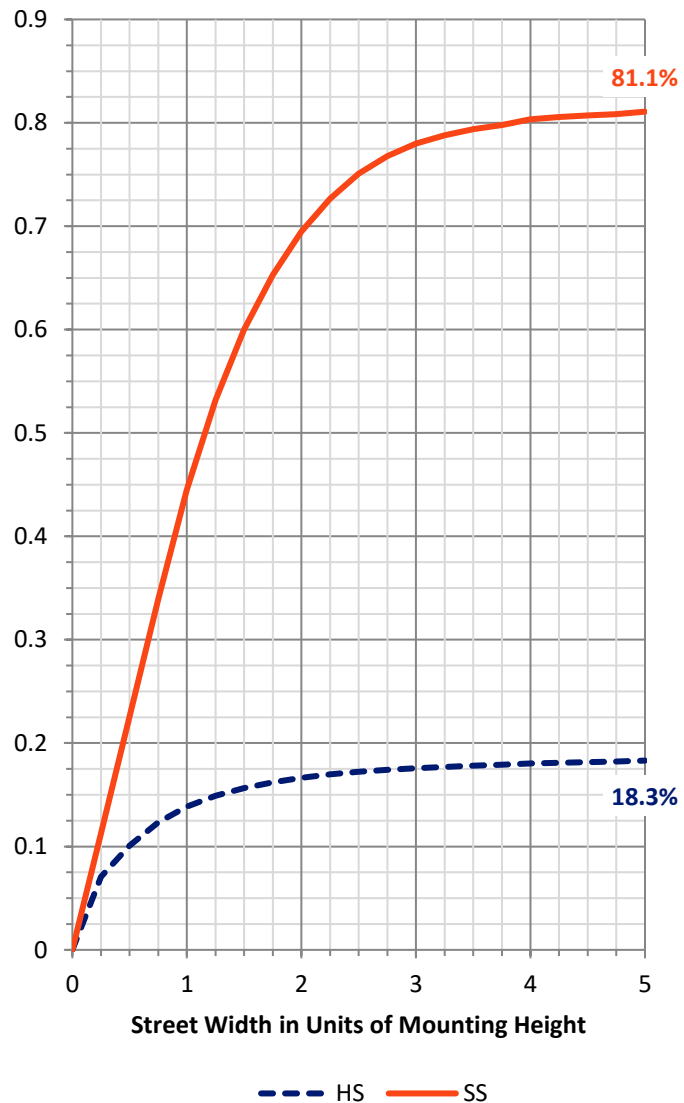
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8541.7	0.0	8541.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37414.3	0.0	37414.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	45956.0	0.0	45956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.5	1.6
10°-20°	1952.8	4.2
20°-30°	3219.6	7.0
30°-40°	4762.6	10.4
40°-50°	6647.6	14.5
50°-60°	8655.4	18.8
60°-70°	10637.2	23.1
70°-80°	8338.3	18.1
80°-90°	1009.1	2.2
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°	45956.0	100.0
0°-180°	45956.0	100.0

Coefficient of Utilization



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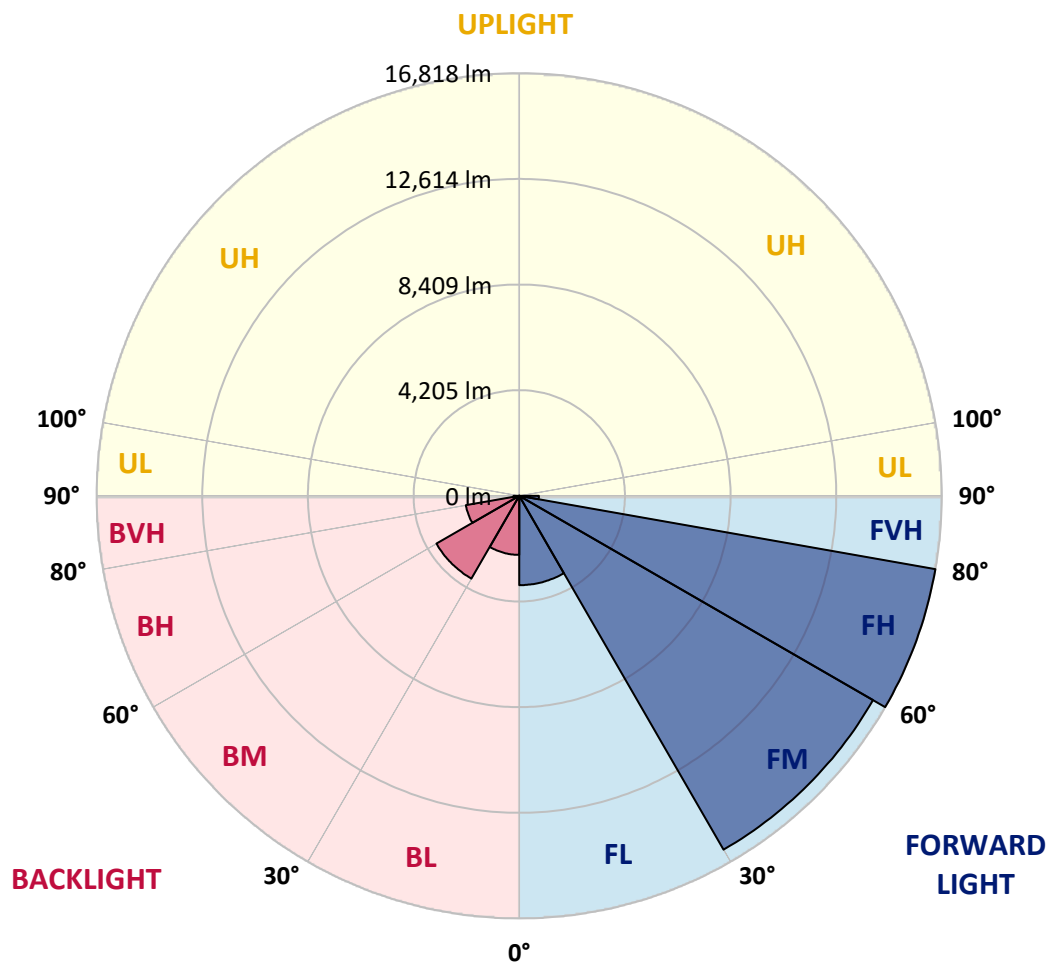
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3555.7	7.7			
FM	(30°-60°)	16260.1	35.4			
FH	(60°-80°)	16818.3	36.6			G5
FVH	(80°-90°)	780.1	1.7			G5
BL	(0°-30°)	2350.2	5.1	B3/2500		
BM	(30°-60°)	3805.5	8.3	B3/5000		
BH	(60°-80°)	2157.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	228.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6
2.5°	7841.8	7823.1	7846.4	7879.0	7914.7	7962.8	7990.8	8003.2	8051.3	8069.9	8110.3
5°	7478.6	7469.2	7508.0	7563.9	7643.1	7754.8	7844.9	7862.0	7989.2	8079.3	8161.5
7.5°	7214.7	7214.7	7259.7	7326.4	7414.9	7565.5	7692.8	7716.0	7931.8	8125.8	8277.9
10°	7005.1	7012.9	7065.7	7144.8	7248.8	7408.7	7577.9	7604.3	7916.3	8234.5	8476.6
12.5°	6865.4	6884.1	6932.2	7003.6	7132.4	7326.4	7540.6	7576.3	7948.9	8389.7	8715.7
15°	6953.9	6985.0	6989.6	7019.1	7090.5	7301.6	7562.4	7599.6	8018.7	8548.0	8987.3
17.5°	7342.0	7352.8	7304.7	7242.6	7208.5	7343.5	7627.6	7666.4	8102.5	8704.8	9248.1
20°	7931.8	7925.6	7821.6	7654.0	7480.1	7501.8	7734.7	7775.0	8215.9	8843.0	9508.8
22.5°	8676.9	8655.1	8495.3	8186.4	7889.9	7765.7	7922.5	7956.6	8386.6	9040.1	9788.2
25°	9580.3	9532.1	9321.0	8906.6	8470.4	8150.7	8205.0	8237.6	8635.0	9260.5	10044.4
27.5°	10533.3	10485.2	10216.7	9715.3	9134.8	8636.5	8594.6	8622.5	8917.5	9423.5	10233.7
30°	11529.8	11478.6	11233.4	10671.5	9839.5	9139.4	8957.8	8968.7	9116.1	9512.0	10389.0
32.5°	12531.0	12482.9	12208.1	11556.2	10604.7	9679.6	9220.1	9206.2	9235.7	9603.5	10564.4
35°	13546.2	13564.8	13243.5	12521.7	11452.2	10280.3	9530.6	9501.1	9435.9	9791.4	10812.7
37.5°	14632.7	14620.3	14204.3	13449.9	12338.5	10932.2	9976.1	9971.4	9746.3	10146.8	11202.3
40°	15359.1	15366.9	15113.9	14399.9	13234.2	11654.0	10547.3	10536.4	10241.5	10679.2	11713.0
42.5°	15643.2	15694.4	15759.6	15306.4	14171.7	12490.6	11228.7	11213.2	10932.2	11442.9	12313.7
45°	15663.4	15765.8	16169.4	16112.0	15121.6	13448.4	12099.5	12056.0	11854.2	12458.1	13030.8
47.5°	15489.5	15595.1	16265.6	16591.6	15970.7	14458.9	13117.7	13083.6	12909.7	13727.8	13806.9
50°	15109.2	15210.1	16066.9	16826.0	16669.2	15430.5	14291.2	14201.2	14108.1	15194.6	14694.8
52.5°	14396.8	14590.8	15801.5	16881.9	17086.7	16293.6	15525.2	15466.2	15517.5	16742.2	15584.2
55°	12709.5	12926.8	15117.0	16835.3	17395.6	17018.4	16759.2	16756.1	17021.6	18365.8	16538.8
57.5°	11764.2	11917.9	13723.1	16756.1	17762.0	17738.7	17980.8	18010.3	18527.2	20133.7	17538.4
60°	11230.3	11391.7	13016.8	16462.8	18330.1	18670.0	19227.2	19286.2	20057.7	22091.1	18741.4
62.5°	10744.4	10921.4	12579.1	15865.2	18999.1	20001.8	20720.5	20773.2	21678.2	24102.7	19904.0
65°	9914.0	10114.2	11938.1	15472.4	19607.5	21738.7	22618.8	22654.5	23539.3	26210.6	20793.4
67.5°	8740.5	8923.7	10728.9	14604.8	20057.7	23848.2	25142.7	25162.9	25384.9	27699.2	21248.2
70°	7369.9	7439.8	9005.9	12813.5	19525.3	25821.0	27908.8	27913.4	27067.5	28652.3	21173.7
72.5°	5178.2	5342.7	6537.9	9699.8	16779.4	25580.4	29344.6	29397.3	27849.8	28171.1	19481.8
75°	3175.8	3349.7	4100.9	5878.2	10645.1	20118.2	27112.5	27478.8	26382.9	25117.9	15914.8
77.5°	2123.4	2188.6	2676.0	3427.3	4822.7	11574.8	20844.7	21533.8	21917.2	18317.7	10177.9
80°	1184.3	1308.5	1774.2	2129.6	2145.2	4599.2	12498.4	12659.8	12194.2	7293.8	3140.1
82.5°	627.1	695.4	1184.3	1251.1	1170.4	1539.8	4658.2	4662.8	3896.1	1955.8	932.9
85°	485.8	543.3	811.8	763.7	597.6	683.0	1536.7	1620.5	1325.6	800.9	304.2
87.5°	242.1	301.1	551.0	484.3	234.4	195.6	549.5	586.7	523.1	313.5	110.2
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°	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6	8105.6
2.5°	8125.8	8139.8	8156.9	8138.2	8132.0	8107.2	8065.3	8056.0	8034.2	8035.8	8048.2
5°	8197.2	8220.5	8211.2	8139.8	8054.4	7934.9	7810.7	7705.2	7635.3	7630.7	7626.0
7.5°	8333.8	8349.3	8276.4	8073.1	7834.0	7557.7	7296.9	7068.8	6930.6	6896.5	6888.7
10°	8548.0	8544.9	8344.7	7934.9	7458.4	6964.8	6545.7	6229.0	6044.3	5990.0	5976.0
12.5°	8787.1	8751.4	8368.0	7683.4	6927.5	6243.0	5712.1	5359.8	5167.3	5105.2	5089.7
15°	9033.9	8945.4	8310.5	7307.8	6275.6	5465.3	4908.1	4582.1	4478.1	4444.0	4437.8
17.5°	9263.6	9092.9	8146.0	6798.7	5532.1	4690.8	4256.2	4125.8	4150.6	4195.6	4197.2
20°	9488.7	9192.2	7882.1	6156.1	4748.2	4052.8	3905.4	4001.6	4119.6	4211.2	4223.6
22.5°	9710.6	9262.0	7542.2	5414.1	4046.6	3694.3	3798.3	3973.7	4108.7	4208.0	4225.1
25°	9896.9	9279.1	7073.4	4622.5	3559.2	3559.2	3747.0	3913.1	4046.6	4144.4	4161.5
27.5°	9965.2	9164.3	6412.2	3889.8	3314.0	3497.1	3675.6	3813.8	3927.1	4031.1	4049.7
30°	9991.6	8951.6	5648.5	3301.6	3213.1	3430.4	3579.4	3697.4	3804.5	3902.3	3919.3
32.5°	9996.2	8695.5	4838.2	2967.8	3143.2	3360.5	3459.9	3563.9	3678.7	3717.5	3723.8
35°	10025.7	8392.8	3984.5	2797.1	3078.0	3295.3	3374.5	3449.0	3262.7	3276.7	3289.1
37.5°	10111.1	8093.2	3270.5	2700.8	3036.1	3261.2	3355.9	3085.8	2939.9	2905.7	2901.1
40°	10271.0	7773.5	2741.2	2623.2	3020.6	3278.3	3236.4	2880.9	2629.4	2441.6	2413.7
42.5°	10493.0	7428.9	2402.8	2572.0	3031.5	3360.5	3070.3	2683.8	2266.2	2145.2	2129.6
45°	10742.9	7067.2	2219.7	2536.3	3068.7	3424.2	3036.1	2421.5	2097.0	2005.5	1997.7
47.5°	10985.0	6624.8	2125.0	2520.8	3119.9	3373.0	2891.8	2340.7	2016.3	1968.2	1972.9
50°	11262.8	6225.9	2067.5	2503.7	3165.0	3340.4	2728.8	2298.8	1985.3	2044.3	2106.4
52.5°	11497.2	5813.0	2016.3	2469.6	3182.0	3282.9	2686.9	2306.6	1985.3	2098.6	2157.6
55°	11775.1	5501.0	1957.3	2398.2	3149.4	3119.9	2657.4	2353.2	2008.6	1937.2	1943.4
57.5°	12133.6	5398.6	1892.1	2286.4	3040.8	2882.5	2643.4	2398.2	1994.6	1949.6	1965.1
60°	12630.3	5507.2	1865.8	2140.5	2871.6	2696.2	2645.0	2374.9	1896.8	1819.2	1820.7
62.5°	13103.8	5628.3	1864.2	2048.9	2663.6	2530.1	2609.3	2298.8	1847.1	1802.1	1819.2
65°	13259.0	5505.7	1789.7	1946.5	2429.2	2331.4	2544.1	2218.1	1809.9	1741.6	1738.5
67.5°	13051.0	5125.4	1639.1	1780.4	2160.7	2100.1	2458.7	2121.9	1750.9	1695.0	1685.7
70°	12433.2	4276.3	1452.9	1561.5	1854.9	1839.4	2323.7	2010.1	1671.7	1623.6	1583.3
72.5°	10770.8	3047.0	1224.7	1299.2	1510.3	1560.0	2137.4	1864.2	1560.0	1456.0	1393.9
75°	8846.1	2255.4	1005.8	1021.4	1147.1	1282.1	1881.3	1693.5	1428.0	1251.1	1203.0
77.5°	5417.2	1379.9	800.9	807.2	822.7	1022.9	1549.1	1502.5	1260.4	1043.1	1008.9
80°	1754.0	752.8	579.0	608.5	561.9	749.7	1198.3	1279.0	1081.9	872.3	835.1
82.5°	667.5	439.3	391.2	411.3	389.6	502.9	873.9	1024.5	886.3	717.1	583.6
85°	322.9	248.4	231.3	259.2	240.6	257.7	558.8	754.4	672.1	467.2	434.6
87.5°	114.9	110.2	88.5	119.5	102.4	91.6	170.7	380.3	443.9	321.3	287.2
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)