

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: P317914

Luminaire Tested: **GAN-SA0A-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317914
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-SA0A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37477 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

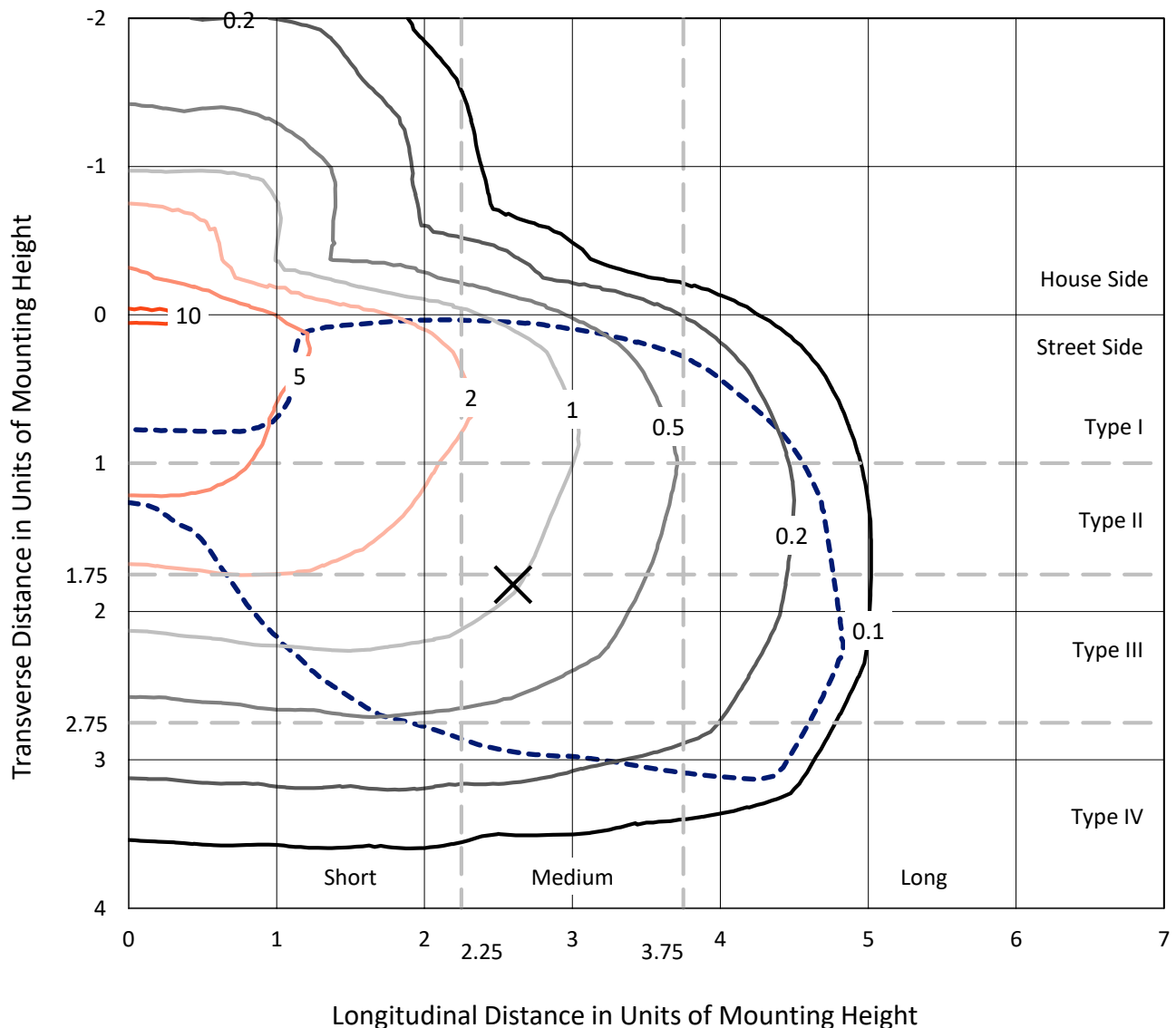
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

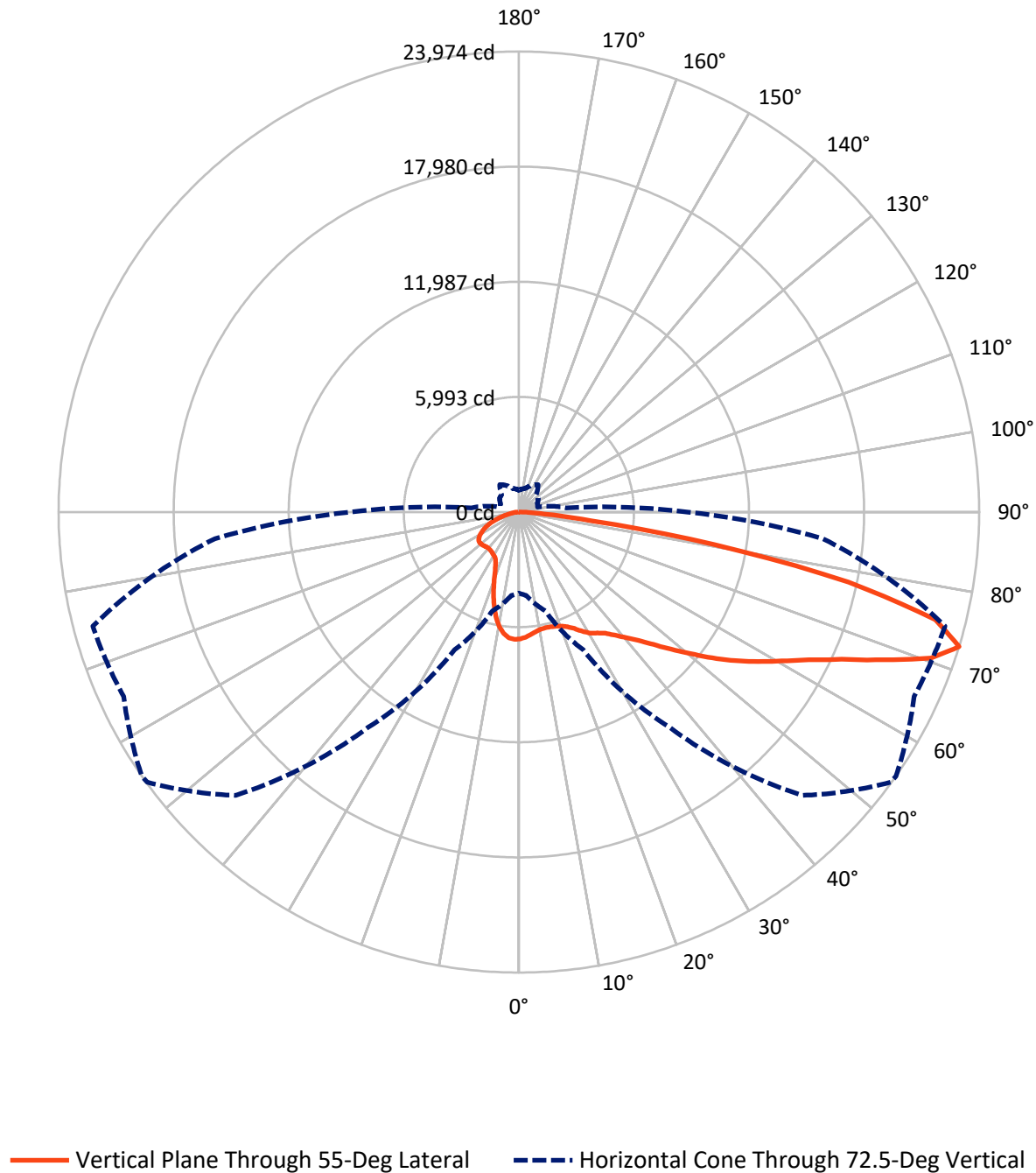
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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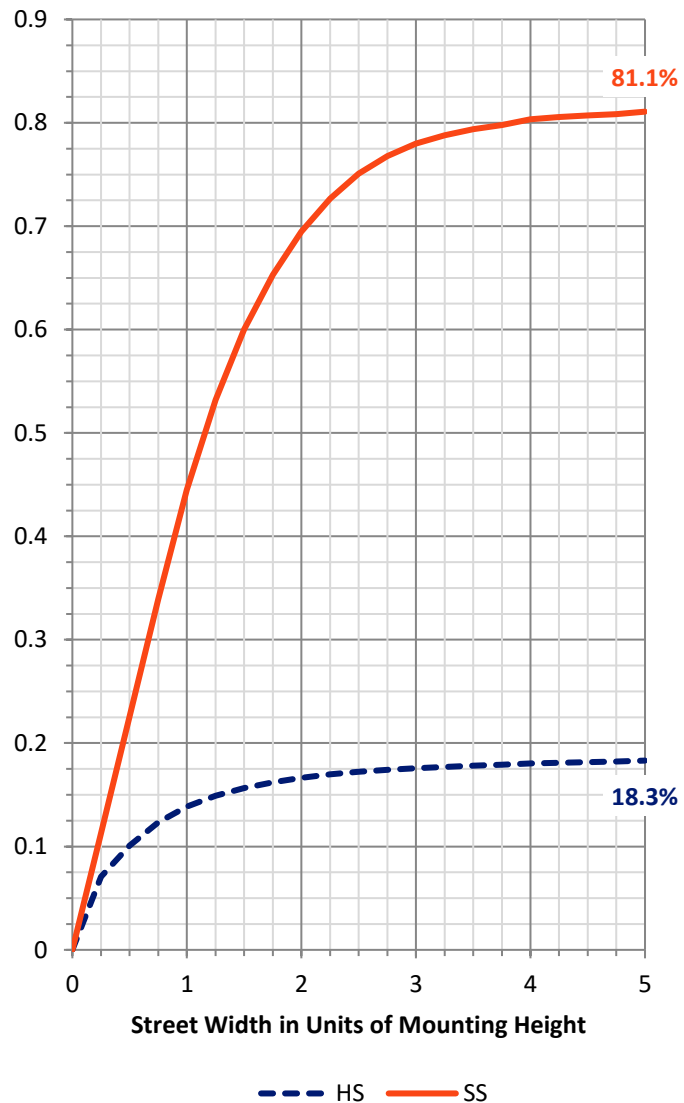
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6965.7	0.0	6965.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30511.3	0.0	30511.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	37477.0	0.0	37477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.1	1.6
10°-20°	1592.5	4.2
20°-30°	2625.6	7.0
30°-40°	3883.9	10.4
40°-50°	5421.1	14.5
50°-60°	7058.4	18.8
60°-70°	8674.6	23.1
70°-80°	6799.9	18.1
80°-90°	822.9	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°	37477.0	100.0
0°-180°	37477.0	100.0

Coefficient of Utilization



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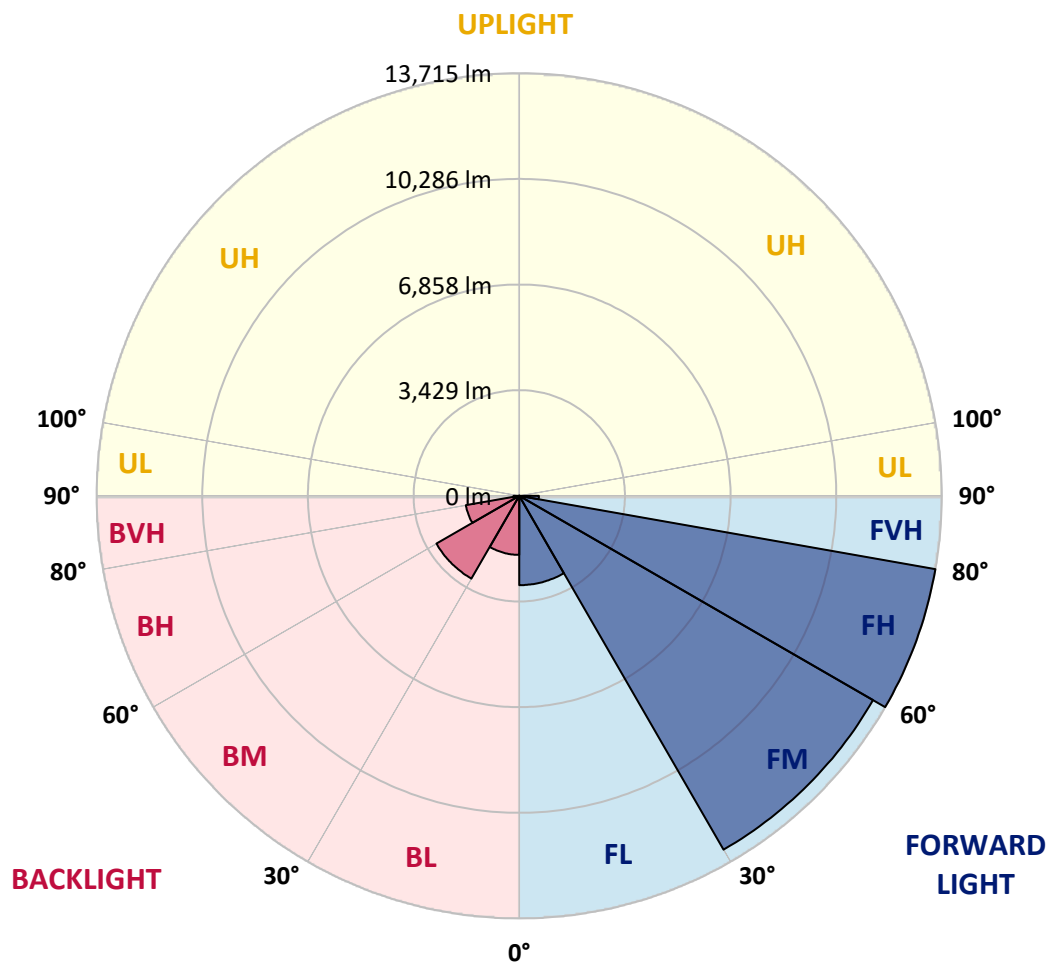
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2899.6	7.7			
FM	(30°-60°)	13260.1	35.4			
FH	(60°-80°)	13715.3	36.6			G5
FVH	(80°-90°)	636.2	1.7			G4/750
BL	(0°-30°)	1916.6	5.1	B3/2500		
BM	(30°-60°)	3103.3	8.3	B3/5000		
BH	(60°-80°)	1759.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	186.7	0.5			G2/225
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°	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1
2.5°	6394.9	6379.8	6398.7	6425.3	6454.4	6493.7	6516.5	6526.6	6565.8	6581.0	6613.9
5°	6098.7	6091.1	6122.8	6168.4	6232.9	6324.1	6397.5	6411.4	6515.2	6588.6	6655.7
7.5°	5883.6	5883.6	5920.3	5974.7	6046.8	6169.6	6273.4	6292.4	6468.4	6626.6	6750.6
10°	5712.7	5719.0	5762.0	5826.6	5911.4	6041.8	6179.8	6201.3	6455.7	6715.2	6912.7
12.5°	5598.7	5613.9	5653.2	5711.4	5816.5	5974.7	6149.4	6178.5	6482.3	6841.8	7107.6
15°	5670.9	5696.2	5700.0	5724.1	5782.3	5954.4	6167.1	6197.5	6539.3	6970.9	7329.1
17.5°	5987.4	5996.2	5957.0	5906.3	5878.5	5988.6	6220.3	6251.9	6607.6	7098.7	7541.8
20°	6468.4	6463.3	6378.5	6241.8	6100.0	6117.7	6307.6	6340.5	6700.0	7211.4	7754.4
22.5°	7076.0	7058.2	6927.9	6676.0	6434.2	6332.9	6460.8	6488.6	6839.3	7372.2	7982.3
25°	7812.7	7773.4	7601.3	7263.3	6907.6	6646.8	6691.1	6717.7	7041.8	7551.9	8191.2
27.5°	8589.9	8550.6	8331.7	7922.8	7449.4	7043.0	7008.9	7031.7	7272.2	7684.8	8345.6
30°	9402.5	9360.8	9160.8	8702.5	8024.1	7453.2	7305.1	7313.9	7434.2	7757.0	8472.2
32.5°	10219.0	10179.8	9955.7	9424.1	8648.1	7893.7	7519.0	7507.6	7531.7	7831.7	8615.2
35°	11046.9	11062.0	10800.0	10211.4	9339.3	8383.6	7772.2	7748.1	7694.9	7984.8	8817.7
37.5°	11932.9	11922.8	11583.6	10968.4	10062.0	8915.2	8135.5	8131.7	7948.1	8274.7	9135.5
40°	12525.3	12531.7	12325.3	11743.1	10792.4	9503.8	8601.3	8592.4	8351.9	8708.9	9551.9
42.5°	12757.0	12798.8	12851.9	12482.3	11557.0	10186.1	9157.0	9144.3	8915.2	9331.7	10041.8
45°	12773.4	12857.0	13186.1	13139.3	12331.7	10967.1	9867.1	9831.7	9667.1	10159.5	10626.6
47.5°	12631.7	12717.7	13264.6	13530.4	13024.1	11791.2	10697.5	10669.6	10527.9	11195.0	11259.5
50°	12321.5	12403.8	13102.6	13721.5	13593.7	12583.6	11654.4	11581.0	11505.1	12391.2	11983.6
52.5°	11740.5	11898.8	12886.1	13767.1	13934.2	13287.4	12660.8	12612.7	12654.4	13653.2	12708.9
55°	10364.6	10541.8	12327.9	13729.1	14186.1	13878.5	13667.1	13664.6	13881.0	14977.2	13487.4
57.5°	9593.7	9719.0	11191.2	13664.6	14484.8	14465.8	14663.3	14687.4	15108.9	16419.0	14302.6
60°	9158.2	9289.9	10615.2	13425.3	14948.1	15225.3	15679.8	15727.9	16357.0	18015.2	15283.6
62.5°	8762.0	8906.3	10258.2	12938.0	15493.7	16311.4	16897.5	16940.5	17678.5	19655.7	16231.7
65°	8084.8	8248.1	9735.5	12617.7	15989.9	17727.9	18445.6	18474.7	19196.2	21374.7	16957.0
67.5°	7127.9	7277.2	8749.4	11910.1	16357.0	19448.1	20503.8	20520.3	20701.3	22588.6	17327.9
70°	6010.1	6067.1	7344.3	10449.4	15922.8	21057.0	22759.5	22763.3	22073.5	23365.9	17267.1
72.5°	4222.8	4357.0	5331.7	7910.1	13683.6	20860.8	23930.4	23973.5	22711.4	22973.5	15887.4
75°	2589.9	2731.6	3344.3	4793.7	8681.0	16406.4	22110.2	22408.9	21515.2	20483.6	12978.5
77.5°	1731.6	1784.8	2182.3	2794.9	3932.9	9439.3	16998.8	17560.8	17873.4	14938.0	8300.0
80°	965.8	1067.1	1446.8	1736.7	1749.4	3750.6	10192.4	10324.1	9944.3	5948.1	2560.8
82.5°	511.4	567.1	965.8	1020.3	954.4	1255.7	3798.7	3802.5	3177.2	1594.9	760.8
85°	396.2	443.0	662.0	622.8	487.3	557.0	1253.2	1321.5	1081.0	653.2	248.1
87.5°	197.5	245.6	449.4	394.9	191.1	159.5	448.1	478.5	426.6	255.7	89.9
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°	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1	6610.1
2.5°	6626.6	6638.0	6651.9	6636.7	6631.7	6611.4	6577.2	6569.6	6551.9	6553.2	6563.3
5°	6684.8	6703.8	6696.2	6638.0	6568.4	6470.9	6369.6	6283.6	6226.6	6222.8	6219.0
7.5°	6796.2	6808.9	6749.4	6583.6	6388.6	6163.3	5950.6	5764.6	5651.9	5624.1	5617.7
10°	6970.9	6968.4	6805.1	6470.9	6082.3	5679.8	5338.0	5079.8	4929.1	4884.8	4873.4
12.5°	7165.8	7136.7	6824.1	6265.8	5649.4	5091.1	4658.2	4370.9	4213.9	4163.3	4150.6
15°	7367.1	7294.9	6777.2	5959.5	5117.7	4457.0	4002.5	3736.7	3651.9	3624.1	3619.0
17.5°	7554.4	7415.2	6643.0	5544.3	4511.4	3825.3	3470.9	3364.6	3384.8	3421.5	3422.8
20°	7738.0	7496.2	6427.9	5020.3	3872.2	3305.1	3184.8	3263.3	3359.5	3434.2	3444.3
22.5°	7919.0	7553.2	6150.6	4415.2	3300.0	3012.7	3097.5	3240.5	3350.6	3431.7	3445.6
25°	8070.9	7567.1	5768.4	3769.6	2902.5	2902.5	3055.7	3191.1	3300.0	3379.8	3393.7
27.5°	8126.6	7473.4	5229.1	3172.2	2702.5	2851.9	2997.5	3110.1	3202.5	3287.3	3302.5
30°	8148.1	7300.0	4606.3	2692.4	2620.3	2797.5	2919.0	3015.2	3102.5	3182.3	3196.2
32.5°	8151.9	7091.1	3945.6	2420.3	2563.3	2740.5	2821.5	2906.3	3000.0	3031.7	3036.7
35°	8176.0	6844.3	3249.4	2281.0	2510.1	2687.3	2751.9	2812.7	2660.8	2672.2	2682.3
37.5°	8245.6	6600.0	2667.1	2202.5	2476.0	2659.5	2736.7	2516.5	2397.5	2369.6	2365.8
40°	8376.0	6339.2	2235.4	2139.2	2463.3	2673.4	2639.2	2349.4	2144.3	1991.1	1968.4
42.5°	8557.0	6058.2	1959.5	2097.5	2472.2	2740.5	2503.8	2188.6	1848.1	1749.4	1736.7
45°	8760.8	5763.3	1810.1	2068.4	2502.5	2792.4	2476.0	1974.7	1710.1	1635.4	1629.1
47.5°	8958.2	5402.5	1732.9	2055.7	2544.3	2750.6	2358.2	1908.9	1644.3	1605.1	1608.9
50°	9184.8	5077.2	1686.1	2041.8	2581.0	2724.1	2225.3	1874.7	1619.0	1667.1	1717.7
52.5°	9376.0	4740.5	1644.3	2013.9	2594.9	2677.2	2191.1	1881.0	1619.0	1711.4	1759.5
55°	9602.5	4486.1	1596.2	1955.7	2568.4	2544.3	2167.1	1919.0	1638.0	1579.7	1584.8
57.5°	9895.0	4402.5	1543.0	1864.6	2479.8	2350.6	2155.7	1955.7	1626.6	1589.9	1602.5
60°	10300.0	4491.1	1521.5	1745.6	2341.8	2198.7	2157.0	1936.7	1546.8	1483.5	1484.8
62.5°	10686.1	4589.9	1520.3	1670.9	2172.2	2063.3	2127.9	1874.7	1506.3	1469.6	1483.5
65°	10812.7	4489.9	1459.5	1587.3	1981.0	1901.3	2074.7	1808.9	1476.0	1420.3	1417.7
67.5°	10643.1	4179.8	1336.7	1451.9	1762.0	1712.7	2005.1	1730.4	1427.9	1382.3	1374.7
70°	10139.3	3487.3	1184.8	1273.4	1512.7	1500.0	1894.9	1639.2	1363.3	1324.1	1291.1
72.5°	8783.6	2484.8	998.7	1059.5	1231.6	1272.2	1743.0	1520.3	1272.2	1187.3	1136.7
75°	7213.9	1839.2	820.3	832.9	935.4	1045.6	1534.2	1381.0	1164.6	1020.3	981.0
77.5°	4417.7	1125.3	653.2	658.2	670.9	834.2	1263.3	1225.3	1027.8	850.6	822.8
80°	1430.4	613.9	472.2	496.2	458.2	611.4	977.2	1043.0	882.3	711.4	681.0
82.5°	544.3	358.2	319.0	335.4	317.7	410.1	712.7	835.4	722.8	584.8	476.0
85°	263.3	202.5	188.6	211.4	196.2	210.1	455.7	615.2	548.1	381.0	354.4
87.5°	93.7	89.9	72.2	97.5	83.5	74.7	139.2	310.1	362.0	262.0	234.2
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)