

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: P319923

Luminaire Tested: **GAN-SA9B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40599 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

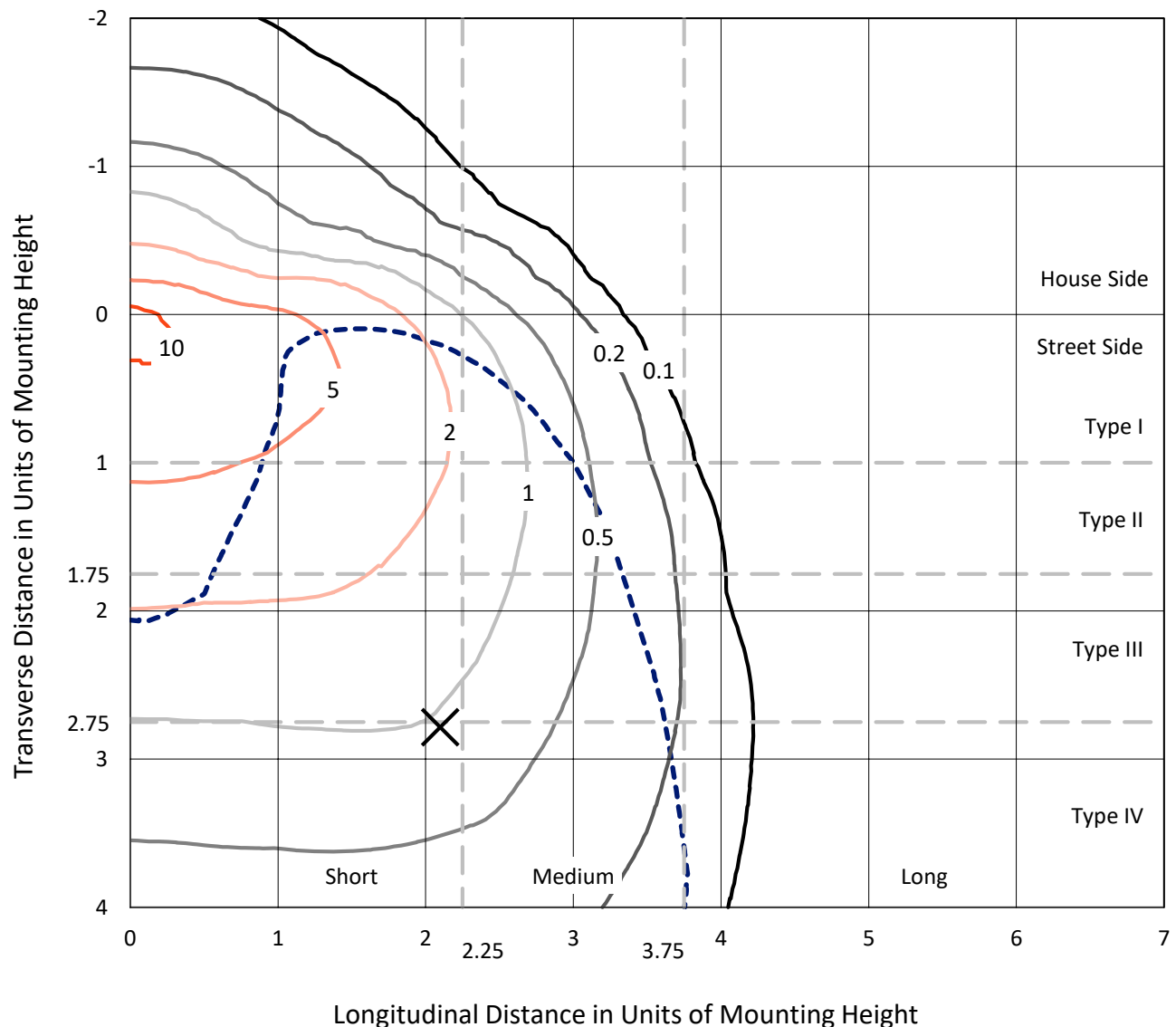


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Iso-Footcandle Lines of Horizontal Illumination

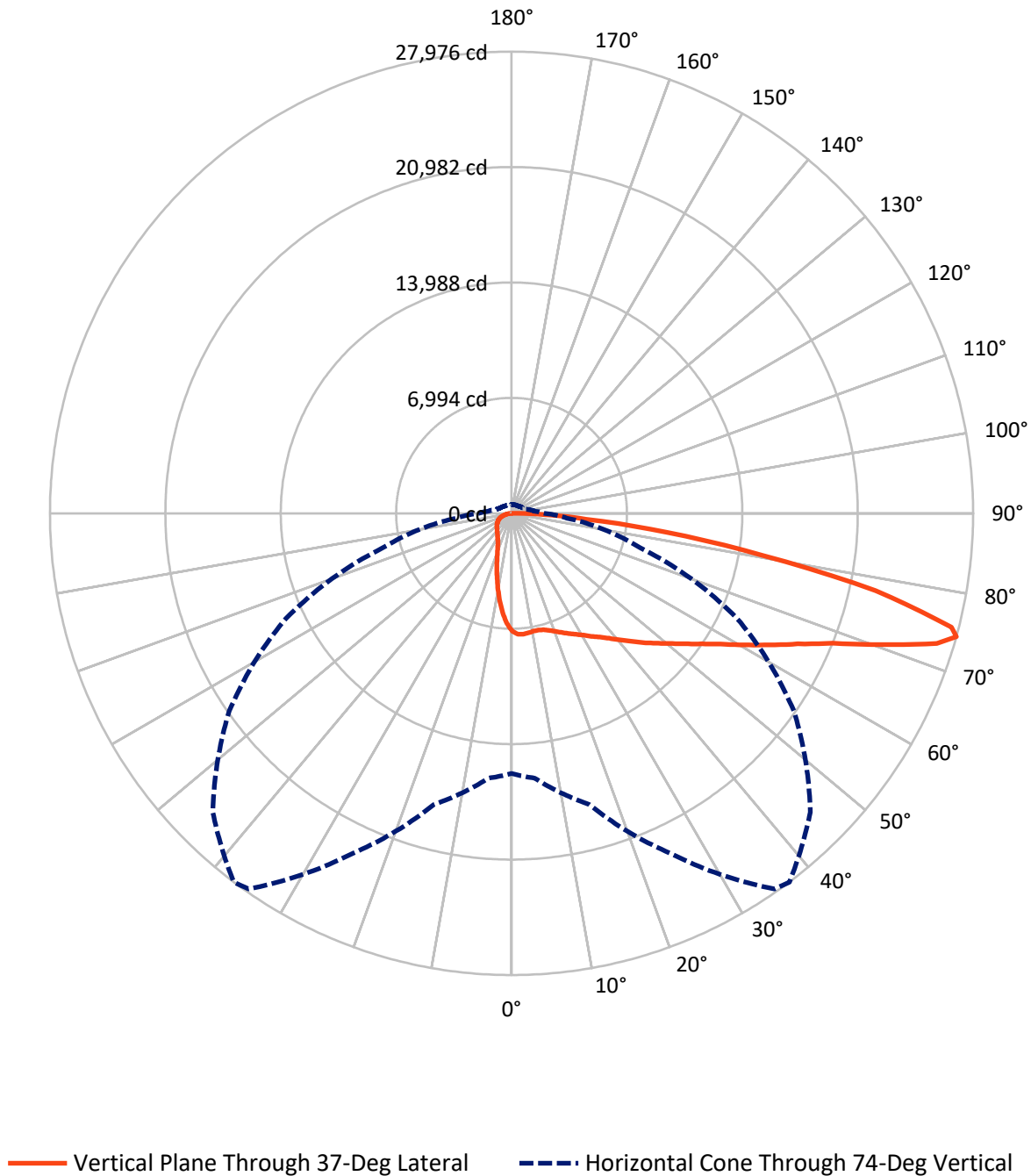
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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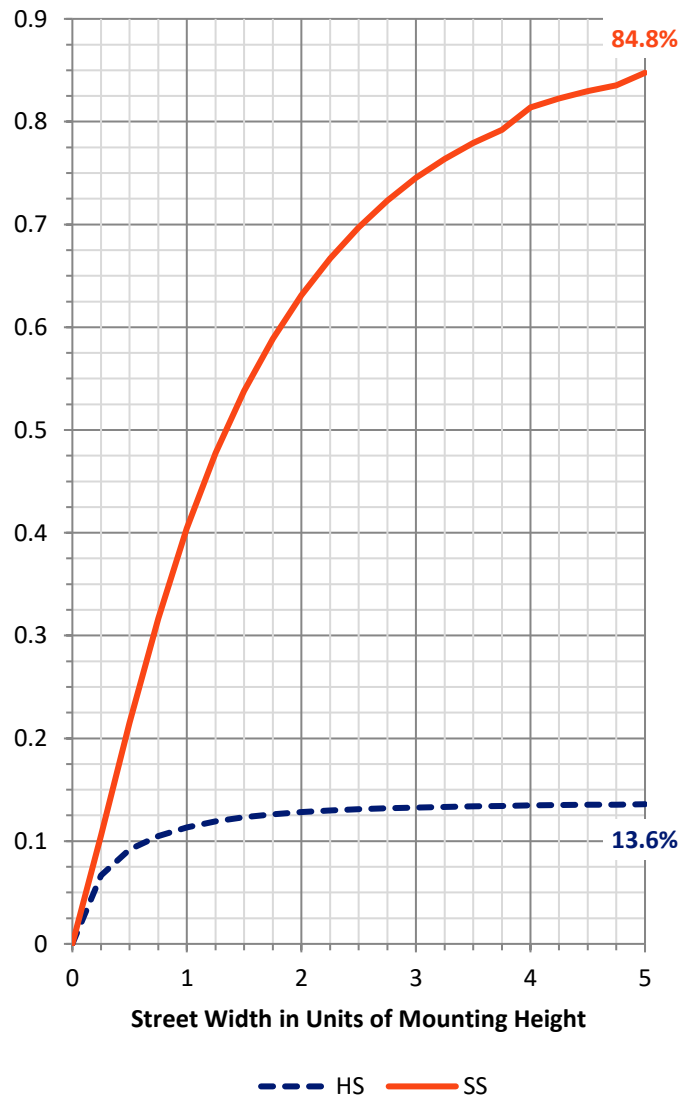
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5586.1	0.0	5586.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	35012.9	0.0	35012.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	40599.0	0.0	40599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.9	1.6
10°-20°	1614.7	4.0
20°-30°	2487.9	6.1
30°-40°	3617.8	8.9
40°-50°	5324.8	13.1
50°-60°	7477.7	18.4
60°-70°	9464.5	23.3
70°-80°	8333.8	20.5
80°-90°	1647.8	4.1
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°	40599.0	100.0
0°-180°	40599.0	100.0

Coefficient of Utilization



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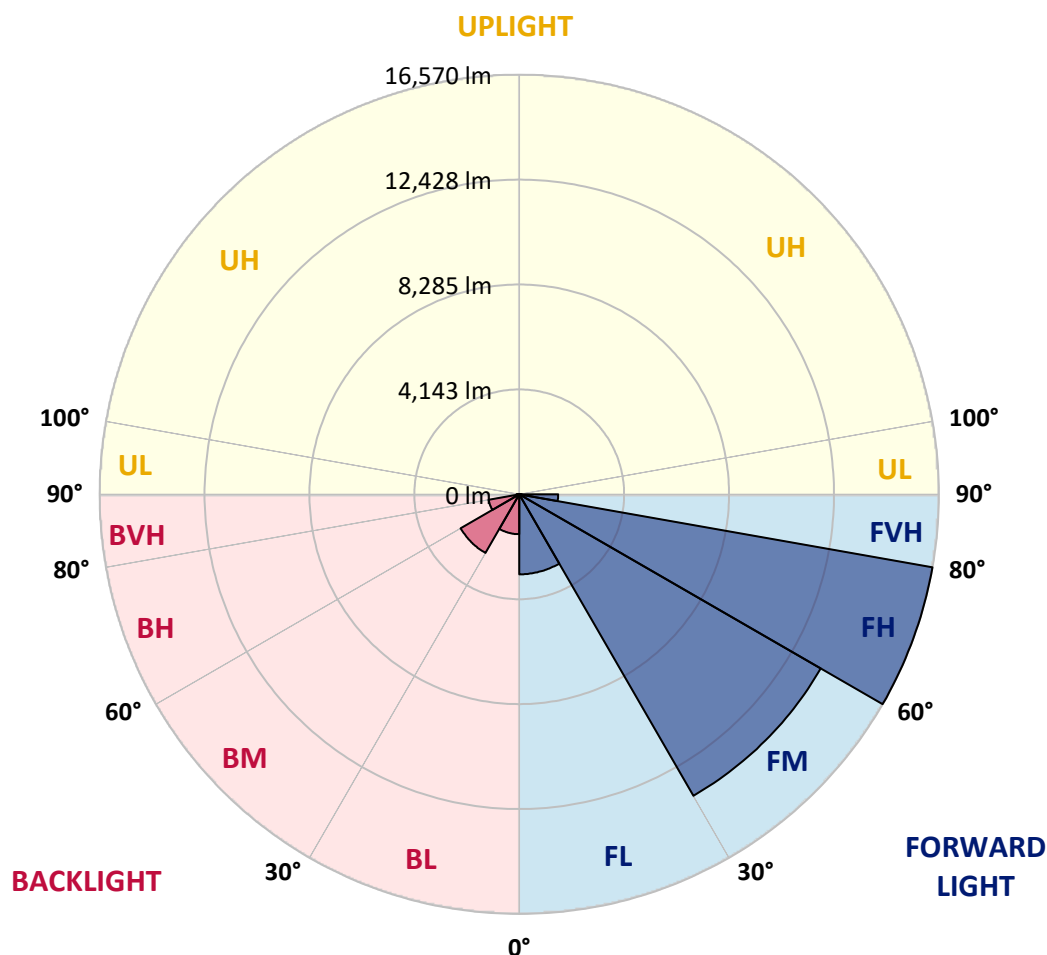
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.1	7.8			
FM	(30°-60°)	13747.1	33.9			
FH	(60°-80°)	16570.4	40.8			G5
FVH	(80°-90°)	1536.2	3.8			G5
BL	(0°-30°)	1573.5	3.9	B3/2500		
BM	(30°-60°)	2673.2	6.6	B3/5000		
BH	(60°-80°)	1227.9	3.0	B3/2500		G3/2500
BVH	(80°-90°)	111.6	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4
2.5°	7397.9	7399.4	7397.9	7386.5	7359.3	7336.4	7317.8	7290.7	7230.6	7184.8	7116.2
5°	7468.0	7459.4	7453.7	7432.3	7389.4	7363.6	7327.9	7276.4	7177.7	7086.2	6974.6
7.5°	7435.1	7425.1	7412.2	7386.5	7337.9	7316.4	7266.4	7199.1	7080.5	6960.3	6800.2
10°	7333.6	7330.7	7325.0	7319.3	7277.8	7260.6	7214.9	7143.4	7026.1	6880.2	6692.9
12.5°	7220.6	7227.8	7250.6	7280.7	7262.1	7253.5	7224.9	7176.3	7056.1	6898.8	6672.9
15°	7149.1	7169.1	7230.6	7309.3	7325.0	7322.1	7315.0	7283.5	7156.2	6981.8	6718.6
17.5°	7124.8	7157.7	7274.9	7405.1	7450.8	7460.9	7463.7	7409.4	7267.8	7083.3	6765.8
20°	7169.1	7210.6	7382.2	7561.0	7633.9	7639.6	7626.8	7532.4	7373.6	7170.5	6791.6
22.5°	7303.5	7340.7	7555.2	7756.9	7839.8	7848.4	7809.8	7666.8	7485.2	7273.5	6827.3
25°	7562.4	7608.2	7822.7	8024.3	8067.2	8068.7	8012.9	7835.5	7631.0	7418.0	6904.5
27.5°	7899.9	7945.7	8138.7	8336.1	8313.2	8300.3	8224.5	8047.2	7821.2	7616.7	7041.8
30°	8276.0	8326.1	8509.1	8649.3	8594.9	8569.2	8507.7	8278.9	8085.8	7888.5	7252.1
32.5°	8665.0	8710.8	8870.9	8966.8	8898.1	8886.7	8793.7	8584.9	8430.5	8303.2	7592.4
35°	9064.0	9096.9	9254.2	9308.6	9217.0	9214.2	9188.4	8996.8	8899.5	8959.6	8087.2
37.5°	9471.6	9480.2	9614.6	9617.5	9590.3	9601.7	9628.9	9508.8	9535.9	9723.3	8730.8
40°	9834.8	9857.7	9955.0	9985.0	10032.2	10072.2	10208.1	10129.4	10339.7	10671.4	9531.7
42.5°	10103.7	10148.0	10303.9	10381.1	10534.2	10597.1	10788.7	10861.6	11285.0	11782.6	10484.1
45°	10331.1	10399.7	10650.0	10808.7	11067.6	11177.7	11452.3	11696.8	12353.2	12988.2	11486.6
47.5°	10577.1	10664.3	10977.5	11280.7	11632.5	11756.9	12256.0	12622.1	13493.0	14200.9	12431.9
50°	10938.9	11006.1	11312.1	11788.4	12227.4	12387.6	13078.3	13603.2	14651.4	15356.5	13251.4
52.5°	11443.7	11418.0	11676.8	12344.7	12933.9	13131.2	13956.4	14647.1	15825.5	16401.9	13943.5
55°	11951.4	11908.5	12090.1	12926.7	13757.6	13965.0	14923.1	15695.4	16942.5	17342.9	14474.1
57.5°	12516.3	12434.8	12587.8	13583.1	14695.8	14943.2	16005.7	16809.5	18040.8	18103.7	14811.6
60°	13098.3	12988.2	13159.8	14396.9	15887.0	16178.8	17272.8	17896.3	19076.2	18712.9	14920.3
62.5°	13607.5	13530.2	13794.8	15305.0	17229.9	17550.3	18517.0	19051.9	20097.3	18966.1	14528.4
65°	14052.2	14065.1	14522.7	16326.1	18727.2	19069.0	19944.2	20476.2	20901.0	18815.9	13611.7
67.5°	14582.8	14655.7	15436.6	17670.4	20612.1	20986.8	22020.8	22029.3	21350.0	17934.9	11806.9
70°	15356.5	15506.6	16693.6	19535.2	23292.1	23807.0	24605.0	22941.7	20719.4	15546.7	9290.0
72.5°	16042.9	16323.2	18030.8	21669.0	26558.5	26948.9	26116.6	22415.5	18083.7	11651.1	5787.6
74°	15764.1	16111.6	18273.9	22720.1	27788.4	27975.7	25606.0	20879.5	15077.6	8068.7	3363.6
75°	15163.4	15541.0	17919.2	22710.1	27632.5	27528.1	24373.3	19124.8	12417.6	5503.0	2238.1
77.5°	12237.4	12636.4	15099.1	19463.7	22657.2	22558.5	18722.9	12829.5	5438.7	1804.8	1136.9
80°	7114.8	7419.4	9372.9	12360.4	15277.8	15456.6	12313.2	6348.2	2139.4	1013.9	770.8
82.5°	3160.5	3370.8	4527.7	6309.6	9219.9	9450.1	6448.3	3326.4	1321.4	616.4	463.4
85°	2073.7	2229.5	2748.7	3004.7	4390.4	4547.7	3156.2	2589.9	872.4	338.9	340.4
87.5°	1491.6	1641.8	2042.2	1783.3	2015.0	1907.8	1717.6	2396.9	350.4	193.1	114.4
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°	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4	7153.4
2.5°	7086.2	7063.3	7011.8	6914.6	6860.2	6814.5	6738.7	6694.3	6674.3	6672.9	6681.5
5°	6910.3	6857.4	6724.4	6561.3	6431.2	6312.5	6165.2	6076.5	6013.6	5976.4	5986.4
7.5°	6705.8	6622.8	6414.0	6153.7	5944.9	5714.7	5487.3	5351.5	5245.6	5167.0	5181.3
10°	6565.6	6451.2	6146.6	5771.9	5424.4	5089.7	4776.6	4589.2	4440.5	4326.1	4334.6
12.5°	6518.4	6364.0	5942.1	5441.6	4953.9	4496.3	4087.2	3799.8	3646.8	3516.6	3526.6
15°	6525.6	6318.2	5770.5	5144.1	4530.6	3954.2	3458.0	3121.9	2914.6	2824.5	2825.9
17.5°	6531.3	6265.3	5590.3	4825.2	4111.6	3448.0	2908.8	2568.5	2372.5	2289.6	2291.0
20°	6512.7	6179.5	5367.2	4459.1	3673.9	2983.2	2461.2	2172.3	2023.6	1959.2	1959.2
22.5°	6488.4	6077.9	5115.5	4091.5	3242.0	2579.9	2140.9	1920.6	1834.8	1791.9	1790.5
25°	6499.8	6002.2	4858.1	3714.0	2844.5	2258.1	1927.8	1781.9	1724.7	1697.5	1696.1
27.5°	6561.3	5966.4	4620.7	3337.9	2497.0	2016.4	1784.8	1681.8	1644.6	1627.5	1627.5
30°	6672.9	5966.4	4373.3	3017.5	2208.1	1837.7	1674.7	1604.6	1578.8	1567.4	1567.4
32.5°	6867.4	5999.3	4134.4	2700.0	1977.8	1697.5	1583.1	1535.9	1515.9	1510.2	1510.2
35°	7202.0	6110.8	3901.3	2399.7	1791.9	1583.1	1495.9	1468.7	1454.4	1453.0	1457.3
37.5°	7672.5	6338.2	3682.5	2178.1	1660.4	1490.2	1423.0	1401.5	1392.9	1400.1	1405.8
40°	8264.6	6647.1	3483.7	1977.8	1560.2	1415.8	1355.7	1341.4	1337.1	1347.2	1355.7
42.5°	8979.6	7064.7	3320.7	1833.4	1483.0	1352.9	1298.5	1281.4	1277.1	1288.5	1300.0
45°	9753.3	7513.8	3206.3	1726.1	1423.0	1305.7	1248.5	1229.9	1221.3	1227.0	1239.9
47.5°	10456.9	7938.5	3160.5	1650.3	1365.8	1265.6	1204.1	1181.3	1167.0	1164.1	1174.1
50°	11050.4	8254.6	3182.0	1604.6	1320.0	1221.3	1161.2	1135.5	1114.1	1101.2	1108.3
52.5°	11482.3	8453.4	3202.0	1584.6	1284.2	1172.7	1114.1	1089.7	1061.1	1039.7	1039.7
55°	11795.5	8499.1	3157.7	1568.8	1257.1	1119.8	1061.1	1038.3	1009.7	985.3	982.5
57.5°	11918.5	8370.4	2993.2	1545.9	1238.5	1069.7	1005.4	988.2	963.9	935.3	933.9
60°	11752.6	7972.8	2675.7	1497.3	1214.2	1028.2	949.6	938.1	926.7	899.5	898.1
62.5°	11086.2	7100.5	2265.3	1398.6	1165.5	983.9	898.1	903.8	905.3	886.7	883.8
65°	9877.7	5902.0	1864.9	1269.9	1092.6	931.0	845.2	872.4	888.1	885.2	880.9
67.5°	8121.6	4593.5	1580.3	1134.1	996.8	858.1	788.0	819.5	832.3	842.3	839.5
70°	6027.9	3239.2	1307.1	991.1	880.9	772.3	713.6	729.4	720.8	732.2	736.5
72.5°	3360.7	1943.5	1065.4	848.1	760.8	672.1	630.7	627.8	609.2	609.2	609.2
74°	2016.4	1425.8	936.7	759.4	687.9	606.4	570.6	557.7	540.6	542.0	540.6
75°	1621.7	1225.6	859.5	700.8	636.4	567.8	532.0	514.8	502.0	502.0	500.5
77.5°	1024.0	931.0	692.2	557.7	509.1	467.6	443.3	420.5	420.5	419.0	417.6
80°	773.7	740.8	539.1	421.9	390.4	359.0	343.2	333.2	333.2	337.5	336.1
82.5°	530.6	557.7	379.0	294.6	278.9	256.0	253.1	254.6	250.3	244.5	243.1
85°	387.6	419.0	256.0	185.9	170.2	155.9	167.3	173.0	165.9	153.0	147.3
87.5°	148.7	274.6	137.3	77.2	71.5	61.5	71.5	74.4	80.1	62.9	64.4
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)