

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: P320123

Luminaire Tested: **GAN-SA9B-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320123
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-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 35687 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

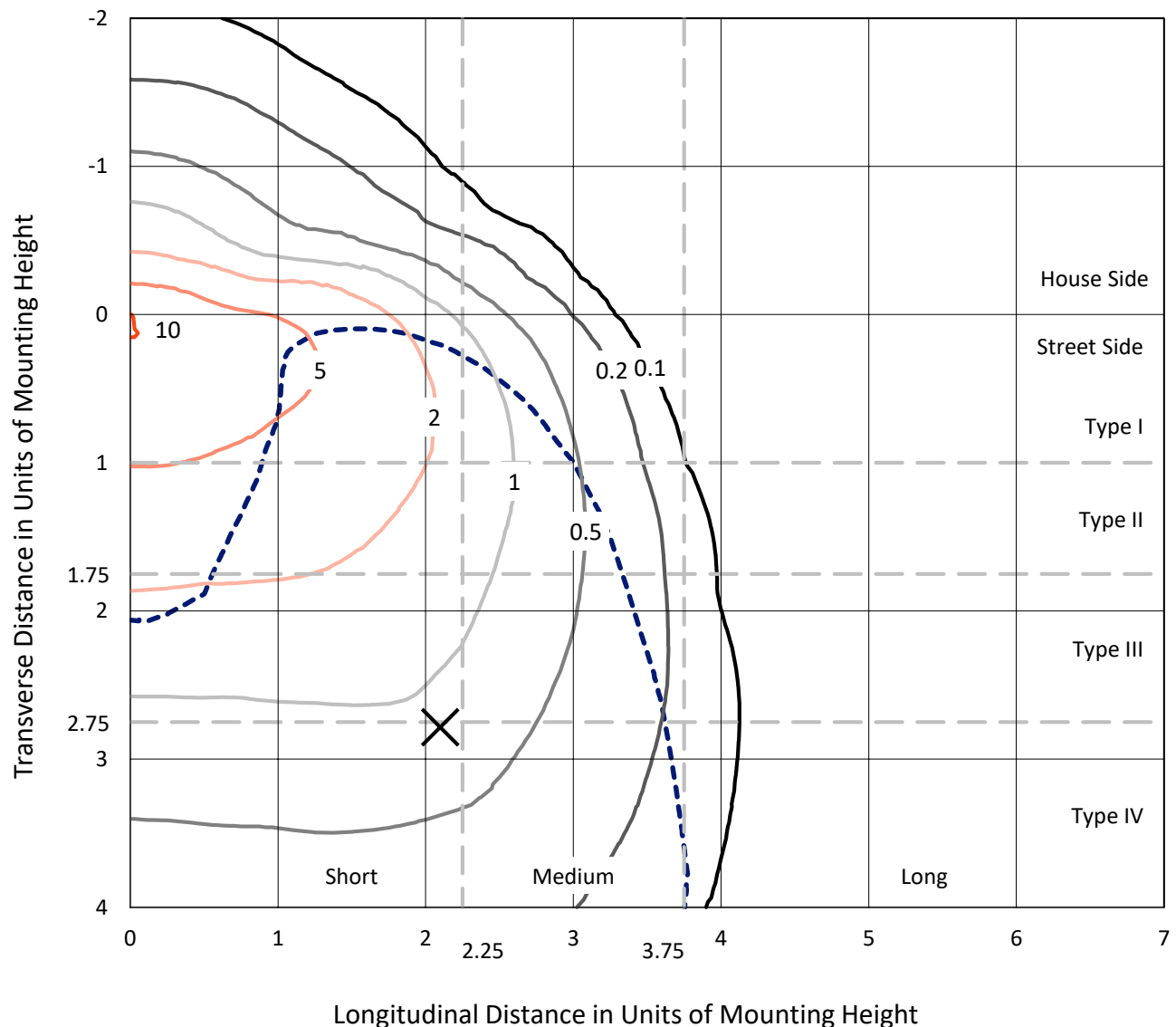
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

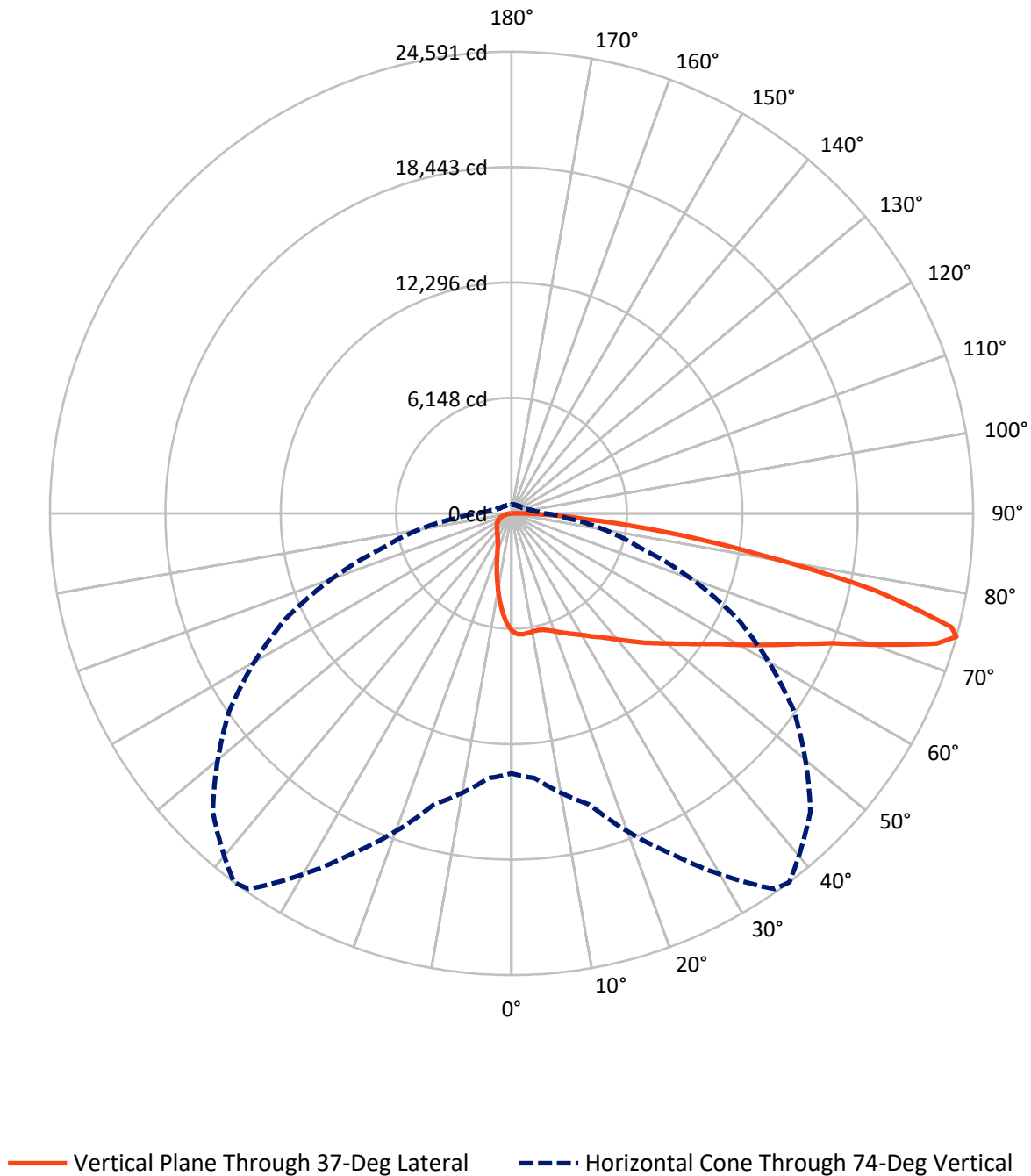
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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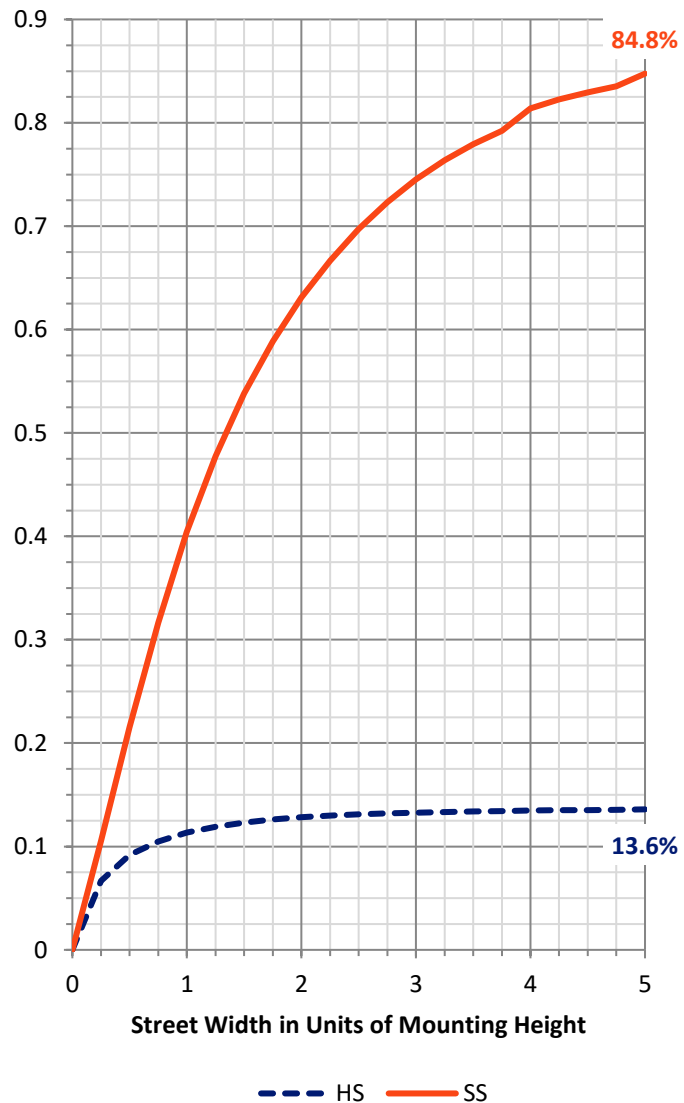
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4910.3	0.0	4910.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	30776.7	0.0	30776.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	35687.0	0.0	35687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.7	1.6
10°-20°	1419.3	4.0
20°-30°	2186.9	6.1
30°-40°	3180.1	8.9
40°-50°	4680.6	13.1
50°-60°	6573.0	18.4
60°-70°	8319.4	23.3
70°-80°	7325.6	20.5
80°-90°	1448.4	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°	35687.0	100.0
0°-180°	35687.0	100.0

Coefficient of Utilization



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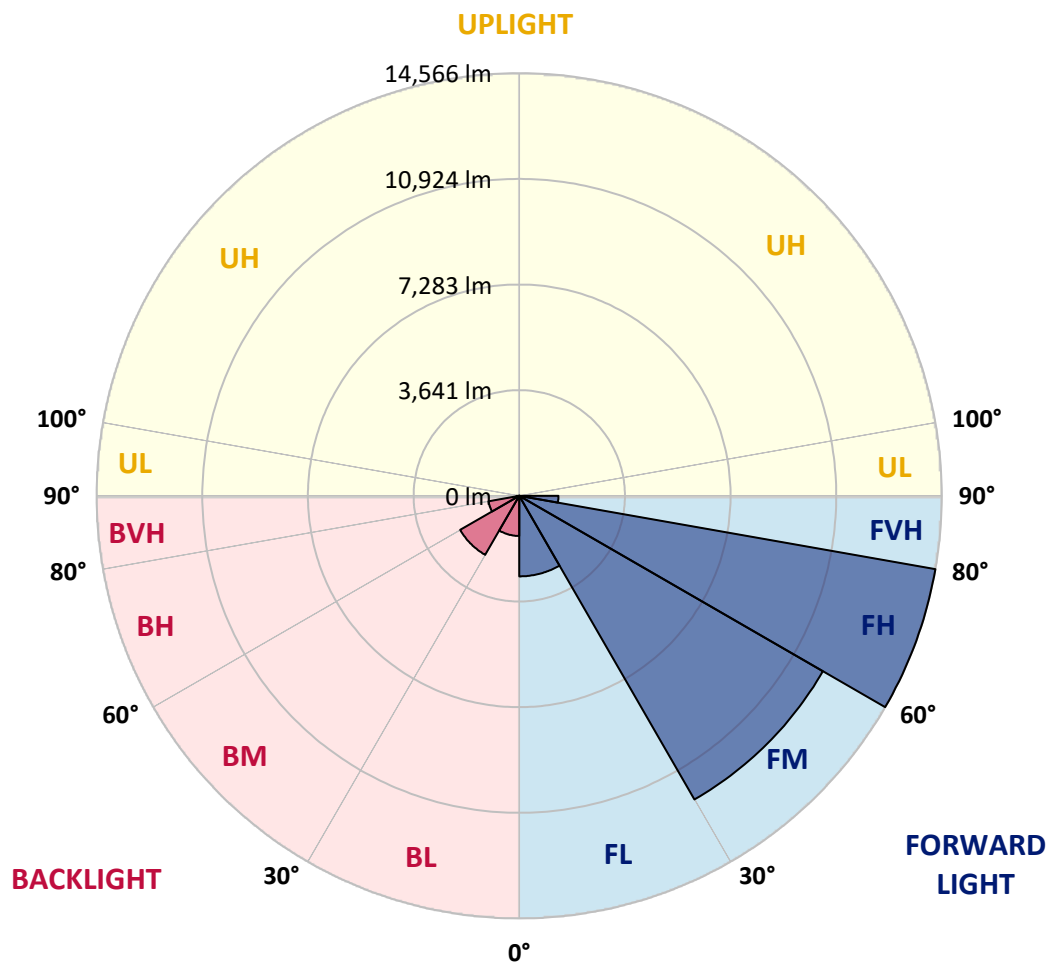
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2776.9	7.8			
FM	(30°-60°)	12083.9	33.9			
FH	(60°-80°)	14565.6	40.8			G5
FVH	(80°-90°)	1350.3	3.8			G5
BL	(0°-30°)	1383.1	3.9	B3/2500		
BM	(30°-60°)	2349.8	6.6	B2/2500		
BH	(60°-80°)	1079.3	3.0	B3/2500		G3/2500
BVH	(80°-90°)	98.1	0.3			G1/100
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°	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9
2.5°	6502.9	6504.1	6502.9	6492.8	6468.9	6448.8	6432.5	6408.6	6355.8	6315.6	6255.2
5°	6564.5	6556.9	6551.9	6533.0	6495.3	6472.7	6441.3	6396.0	6309.3	6228.8	6130.8
7.5°	6535.6	6526.8	6515.4	6492.8	6450.1	6431.2	6387.2	6328.1	6223.8	6118.2	5977.4
10°	6446.3	6443.8	6438.8	6433.7	6397.3	6382.2	6342.0	6279.1	6176.0	6047.8	5883.1
12.5°	6347.0	6353.3	6373.4	6399.8	6383.4	6375.9	6350.8	6308.0	6202.4	6064.2	5865.5
15°	6284.1	6301.7	6355.8	6424.9	6438.8	6436.2	6430.0	6402.3	6290.4	6137.1	5905.8
17.5°	6262.8	6291.7	6394.8	6509.2	6549.4	6558.2	6560.7	6512.9	6388.5	6226.3	5947.2
20°	6301.7	6338.2	6489.0	6646.2	6710.3	6715.3	6704.0	6621.0	6481.5	6303.0	5969.9
22.5°	6419.9	6452.6	6641.2	6818.4	6891.3	6898.9	6864.9	6739.2	6579.6	6393.5	6001.3
25°	6647.4	6687.7	6876.2	7053.5	7091.2	7092.4	7043.4	6887.5	6707.8	6520.5	6069.2
27.5°	6944.1	6984.3	7154.0	7327.5	7307.4	7296.1	7229.5	7073.6	6875.0	6695.2	6189.9
30°	7274.7	7318.7	7479.6	7602.8	7555.0	7532.4	7478.4	7277.2	7107.5	6934.0	6374.6
32.5°	7616.6	7656.9	7797.7	7881.9	7821.5	7811.5	7729.8	7546.2	7410.5	7298.6	6673.8
35°	7967.4	7996.3	8134.6	8182.3	8101.9	8099.4	8076.7	7908.3	7822.8	7875.6	7108.8
37.5°	8325.6	8333.2	8451.3	8453.9	8430.0	8440.0	8463.9	8358.3	8382.2	8546.9	7674.5
40°	8644.9	8665.0	8750.5	8776.9	8818.4	8853.6	8973.0	8903.9	9088.7	9380.3	8378.4
42.5°	8881.3	8920.2	9057.3	9125.1	9259.6	9315.0	9483.4	9547.5	9919.6	10357.1	9215.6
45°	9081.1	9141.5	9361.5	9501.0	9728.5	9825.3	10066.7	10281.7	10858.7	11416.8	10096.9
47.5°	9297.4	9374.0	9649.3	9915.8	10225.1	10334.4	10773.2	11095.0	11860.5	12482.8	10927.8
50°	9615.4	9674.5	9943.5	10362.1	10748.0	10888.8	11496.0	11957.3	12878.8	13498.5	11648.1
52.5°	10059.1	10036.5	10264.1	10851.1	11369.0	11542.5	12267.8	12875.0	13910.8	14417.4	12256.5
55°	10505.4	10467.7	10627.3	11362.7	12093.1	12275.4	13117.6	13796.4	14892.6	15244.6	12722.9
57.5°	11002.0	10930.3	11064.8	11939.7	12917.7	13135.2	14069.2	14775.7	15858.1	15913.4	13019.6
60°	11513.6	11416.8	11567.6	12655.0	13964.9	14221.3	15183.0	15731.1	16768.2	16448.9	13115.1
62.5°	11961.1	11893.2	12125.8	13453.3	15145.3	15426.9	16276.7	16746.8	17665.7	16671.4	12770.7
65°	12352.1	12363.4	12765.6	14350.8	16461.5	16761.9	17531.2	17998.9	18372.2	16539.4	11964.9
67.5°	12818.4	12882.5	13568.9	15532.5	18118.3	18447.6	19356.5	19364.1	18766.9	15765.0	10378.4
70°	13498.5	13630.5	14673.9	17171.7	20474.1	20926.6	21628.1	20166.1	18212.6	13665.7	8166.0
72.5°	14101.9	14348.3	15849.3	19047.3	23345.2	23688.4	22956.8	19703.5	15895.8	10241.4	5087.4
74°	13856.8	14162.3	16063.0	19971.2	24426.3	24591.0	22508.0	18353.4	13253.4	7092.4	2956.7
75°	13328.8	13660.7	15751.2	19962.4	24289.3	24197.5	21424.4	16810.9	10915.2	4837.2	1967.3
77.5°	10756.8	11107.6	13272.2	17108.9	19915.9	19829.2	16457.7	11277.3	4780.7	1586.4	999.4
80°	6254.0	6521.7	8238.9	10864.9	13429.4	13586.5	10823.5	5580.2	1880.6	891.3	677.6
82.5°	2778.1	2962.9	3979.9	5546.2	8104.4	8306.8	5668.2	2924.0	1161.5	541.8	407.3
85°	1822.8	1959.8	2416.1	2641.1	3859.2	3997.5	2774.4	2276.6	766.8	297.9	299.2
87.5°	1311.1	1443.1	1795.1	1567.6	1771.2	1676.9	1509.8	2106.9	308.0	169.7	100.6
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°	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9	6287.9
2.5°	6228.8	6208.7	6163.5	6078.0	6030.2	5990.0	5923.4	5884.4	5866.8	5865.5	5873.1
5°	6074.2	6027.7	5910.8	5767.5	5653.1	5548.7	5419.3	5341.3	5286.0	5253.3	5262.1
7.5°	5894.4	5821.5	5638.0	5409.2	5225.7	5023.3	4823.4	4704.0	4611.0	4541.8	4554.4
10°	5771.3	5670.7	5402.9	5073.6	4768.1	4473.9	4198.6	4034.0	3903.2	3802.7	3810.2
12.5°	5729.8	5594.0	5223.2	4783.2	4354.5	3952.3	3592.7	3340.1	3205.6	3091.2	3100.0
15°	5736.1	5553.8	5072.3	4521.7	3982.4	3475.8	3039.6	2744.2	2561.9	2482.7	2484.0
17.5°	5741.1	5507.3	4913.9	4241.4	3614.1	3030.8	2556.9	2257.7	2085.5	2012.6	2013.8
20°	5724.7	5431.8	4717.8	3919.6	3229.4	2622.3	2163.4	1909.5	1778.8	1722.2	1722.2
22.5°	5703.4	5342.6	4496.6	3596.5	2849.8	2267.8	1881.8	1688.3	1612.8	1575.1	1573.9
25°	5713.4	5276.0	4270.3	3264.6	2500.3	1984.9	1694.5	1566.3	1516.0	1492.2	1490.9
27.5°	5767.5	5244.5	4061.6	2934.0	2194.9	1772.5	1568.8	1478.3	1445.6	1430.6	1430.6
30°	5865.5	5244.5	3844.1	2652.4	1940.9	1615.3	1472.0	1410.4	1387.8	1377.8	1377.8
32.5°	6036.5	5273.4	3634.2	2373.4	1738.5	1492.2	1391.6	1350.1	1332.5	1327.5	1327.5
35°	6330.7	5371.5	3429.3	2109.4	1575.1	1391.6	1314.9	1291.0	1278.4	1277.2	1281.0
37.5°	6744.2	5571.4	3237.0	1914.5	1459.5	1309.9	1250.8	1231.9	1224.4	1230.7	1235.7
40°	7264.7	5842.9	3062.2	1738.5	1371.5	1244.5	1191.7	1179.1	1175.4	1184.2	1191.7
42.5°	7893.2	6210.0	2918.9	1611.6	1303.6	1189.2	1141.4	1126.3	1122.6	1132.6	1142.7
45°	8573.3	6604.7	2818.4	1517.3	1250.8	1147.7	1097.4	1081.1	1073.5	1078.6	1089.9
47.5°	9191.8	6978.0	2778.1	1450.7	1200.5	1112.5	1058.5	1038.3	1025.8	1023.3	1032.1
50°	9713.5	7255.9	2797.0	1410.4	1160.3	1073.5	1020.7	998.1	979.3	968.0	974.2
52.5°	10093.1	7430.6	2814.6	1392.8	1128.9	1030.8	979.3	957.9	932.8	913.9	913.9
55°	10368.4	7470.8	2775.6	1379.0	1105.0	984.3	932.8	912.6	887.5	866.1	863.6
57.5°	10476.5	7357.7	2631.1	1358.9	1088.6	940.3	883.7	868.6	847.3	822.1	820.9
60°	10330.7	7008.2	2352.0	1316.2	1067.3	903.8	834.7	824.6	814.6	790.7	789.4
62.5°	9744.9	6241.4	1991.2	1229.4	1024.5	864.9	789.4	794.5	795.7	779.4	776.9
65°	8682.6	5188.0	1639.2	1116.3	960.4	818.4	742.9	766.8	780.6	778.1	774.4
67.5°	7139.0	4037.7	1389.1	996.9	876.2	754.2	692.7	720.3	731.6	740.4	737.9
70°	5298.6	2847.3	1149.0	871.2	774.4	678.8	627.3	641.1	633.6	643.6	647.4
72.5°	2954.1	1708.4	936.5	745.4	668.8	590.8	554.4	551.9	535.5	535.5	535.5
74°	1772.5	1253.3	823.4	667.5	604.7	533.0	501.6	490.3	475.2	476.4	475.2
75°	1425.5	1077.3	755.5	616.0	559.4	499.1	467.6	452.5	441.2	441.2	440.0
77.5°	900.1	818.4	608.4	490.3	447.5	411.1	389.7	369.6	369.6	368.3	367.1
80°	680.1	651.2	473.9	370.8	343.2	315.5	301.7	292.9	292.9	296.7	295.4
82.5°	466.4	490.3	333.1	259.0	245.1	225.0	222.5	223.8	220.0	215.0	213.7
85°	340.7	368.3	225.0	163.4	149.6	137.0	147.1	152.1	145.8	134.5	129.5
87.5°	130.7	241.4	120.7	67.9	62.9	54.1	62.9	65.4	70.4	55.3	56.6
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)