

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: P318323

Luminaire Tested: **GAN-SA9B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42733 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

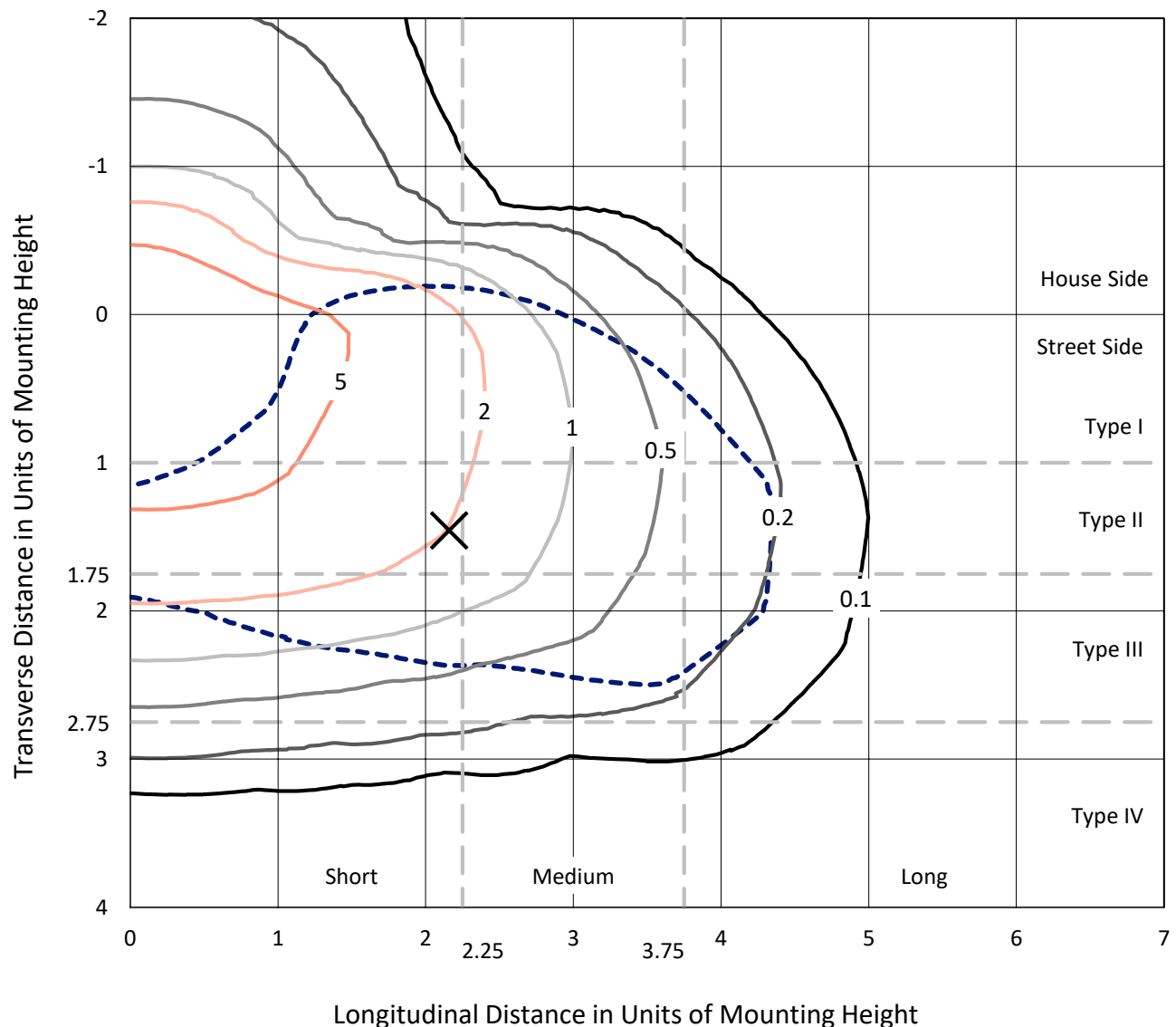
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

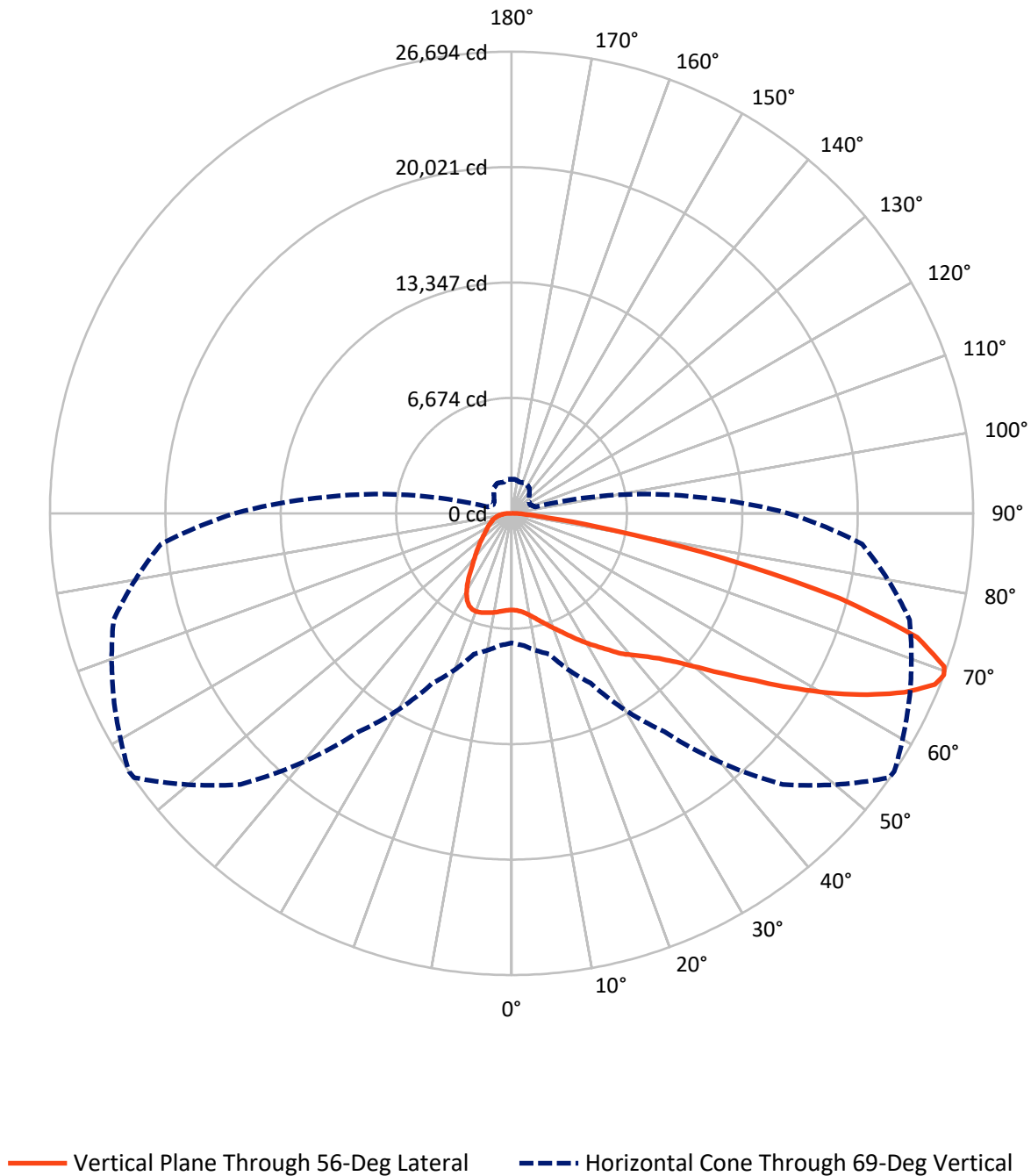
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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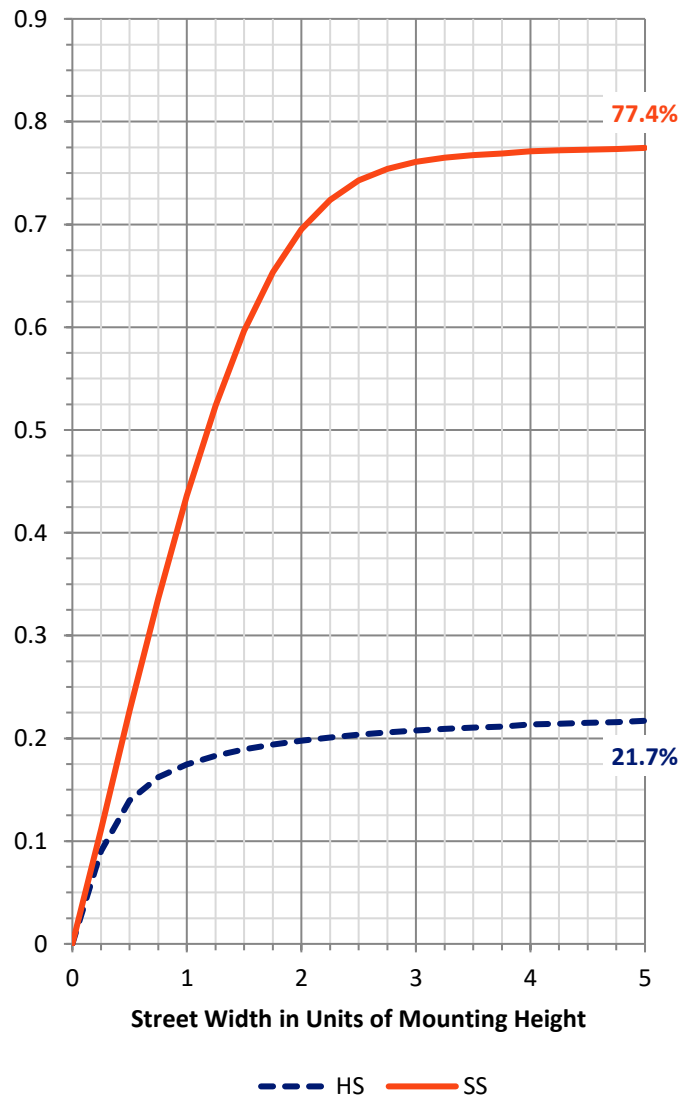
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9516.6	0.0	9516.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33216.4	0.0	33216.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	42733.0	0.0	42733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.7	1.3
10°-20°	1764.4	4.1
20°-30°	3080.0	7.2
30°-40°	4424.3	10.4
40°-50°	6123.0	14.3
50°-60°	8971.0	21.0
60°-70°	10937.3	25.6
70°-80°	6046.9	14.2
80°-90°	837.5	2.0
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°	42733.0	100.0
0°-180°	42733.0	100.0

Coefficient of Utilization



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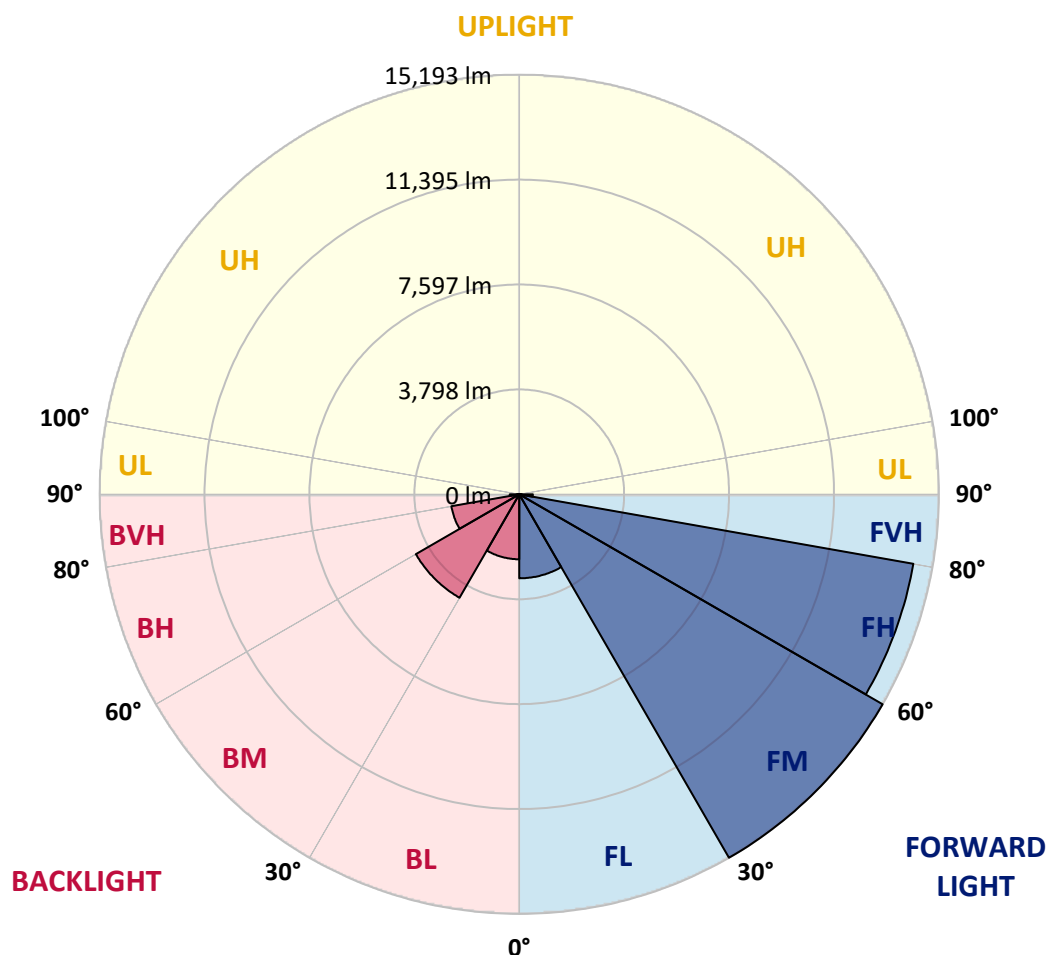
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3041.3	7.1			
FM	(30°-60°)	15193.2	35.6			
FH	(60°-80°)	14488.6	33.9			G5
FVH	(80°-90°)	493.3	1.2			G3/500
BL	(0°-30°)	2351.8	5.5	B3/2500		
BM	(30°-60°)	4325.1	10.1	B3/5000		
BH	(60°-80°)	2495.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	344.2	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7
2.5°	5622.0	5627.9	5623.5	5635.3	5622.0	5630.9	5623.5	5623.5	5619.1	5605.8	5591.1
5°	5710.4	5722.1	5714.8	5726.5	5710.4	5713.3	5700.0	5700.0	5686.8	5658.8	5629.4
7.5°	5848.7	5862.0	5856.1	5867.9	5845.8	5845.8	5828.1	5826.7	5800.2	5754.5	5720.7
10°	6013.6	6031.3	6025.4	6043.1	6025.4	6031.3	6013.6	6013.6	5978.3	5913.5	5870.8
12.5°	6253.6	6275.6	6259.5	6258.0	6250.6	6262.4	6247.7	6244.7	6212.3	6124.0	6065.1
15°	6574.5	6598.0	6564.2	6561.2	6520.0	6515.6	6515.6	6511.2	6490.6	6384.6	6287.4
17.5°	6944.0	6951.4	6921.9	6874.8	6821.8	6787.9	6783.5	6795.3	6795.3	6671.6	6517.1
20°	7306.1	7319.4	7295.8	7242.8	7175.1	7125.1	7089.7	7113.3	7111.8	6964.6	6745.3
22.5°	7700.7	7731.6	7696.2	7628.5	7549.0	7493.1	7431.3	7451.9	7453.3	7272.3	6969.0
25°	8211.5	8183.5	8161.4	8065.7	7952.4	7895.0	7837.6	7858.2	7852.3	7603.5	7200.1
27.5°	8663.4	8669.3	8639.9	8538.3	8407.3	8280.7	8277.7	8291.0	8268.9	7948.0	7418.0
30°	9189.0	9191.9	9150.7	9059.4	8916.6	8753.2	8715.0	8737.0	8689.9	8274.8	7647.7
32.5°	9711.6	9726.3	9680.7	9570.3	9455.4	9256.7	9180.1	9194.9	9077.1	8609.0	7884.7
35°	10169.4	10190.0	10175.3	10101.7	9976.6	9805.8	9714.5	9705.7	9559.9	9018.2	8198.2
37.5°	10636.1	10655.2	10639.0	10577.2	10527.1	10346.1	10297.5	10297.5	10044.3	9436.3	8597.2
40°	11116.0	11145.4	11126.3	11040.9	10998.2	10915.8	10799.5	10771.5	10497.7	9938.3	9247.9
42.5°	11562.0	11600.3	11676.9	11626.8	11540.0	11551.7	11317.7	11302.9	11102.7	10680.2	10064.9
45°	12195.0	12251.0	12380.5	12342.3	12324.6	12259.8	11981.6	11968.3	11891.8	11678.3	11079.2
47.5°	12885.5	12962.0	13196.1	13203.4	13393.4	13271.2	12892.8	12847.2	12864.9	12873.7	12317.2
50°	13521.4	13605.3	13989.6	14170.6	14618.2	14644.7	14039.6	13998.4	14067.6	14270.7	13759.9
52.5°	14029.3	14135.3	14615.2	15174.6	15941.6	16159.5	15451.4	15420.5	15472.0	15822.3	15391.0
55°	14401.8	14516.6	15039.2	16057.9	17282.7	17666.9	17076.6	17047.2	17079.5	17525.6	17164.9
57.5°	14488.6	14516.6	15274.7	16652.6	18414.8	19337.8	19065.4	19006.5	18847.6	19236.2	19122.8
60°	14080.8	14192.7	15080.4	16861.7	19290.7	20985.1	21144.1	21070.5	20624.4	20942.4	20851.1
62.5°	13253.5	13453.7	14354.6	16543.7	19633.7	22330.6	23183.0	23094.6	22326.2	22532.3	22093.6
65°	11902.1	11987.5	12934.0	15447.0	19197.9	23191.8	25001.0	24956.9	23989.7	23667.3	22323.2
67.5°	9484.9	9645.3	10449.1	13154.9	17415.2	23090.2	26406.9	26402.5	25076.1	24088.3	21509.1
69°	7493.1	7659.4	8424.9	10836.3	15410.2	22161.3	26642.4	26694.0	25382.3	23832.2	20346.2
70°	5973.9	6166.7	6692.3	9127.1	13630.4	20936.5	26446.6	26539.4	25323.4	23409.7	19273.0
72.5°	2542.4	2698.4	3072.3	4704.9	8307.2	15633.9	24181.0	24531.4	23958.8	21425.2	15928.3
75°	1110.0	1158.6	1327.9	1918.2	3687.7	8508.9	18943.2	19591.0	20486.0	18110.0	11865.3
77.5°	812.6	833.2	926.0	1126.2	1654.7	3213.6	12181.8	12558.7	14774.2	13178.4	7278.2
80°	628.6	643.3	715.5	827.3	1080.5	1299.9	5555.8	5879.6	8307.2	6768.8	3031.1
82.5°	500.5	510.8	560.9	609.5	746.4	787.6	1844.6	2046.2	3066.4	1869.6	802.3
85°	465.2	477.0	494.6	444.6	478.4	462.2	797.9	834.7	926.0	734.6	335.6
87.5°	210.5	248.8	490.2	345.9	254.7	203.2	326.8	341.5	384.2	385.7	148.7
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°	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7
2.5°	5599.9	5595.5	5602.9	5585.2	5607.3	5605.8	5598.5	5601.4	5616.1	5614.7	5616.1
5°	5633.8	5630.9	5639.7	5626.4	5652.9	5661.8	5663.2	5676.5	5692.7	5697.1	5697.1
7.5°	5719.2	5719.2	5723.6	5705.9	5723.6	5722.1	5714.8	5728.0	5744.2	5745.7	5744.2
10°	5866.4	5867.9	5860.5	5814.9	5800.2	5760.4	5723.6	5725.1	5745.7	5761.9	5766.3
12.5°	6051.9	6046.0	6013.6	5929.7	5867.9	5786.9	5748.6	5747.2	5767.8	5781.0	5785.4
15°	6263.9	6247.7	6163.8	6026.9	5917.9	5838.4	5776.6	5761.9	5750.1	5735.4	5736.9
17.5°	6464.1	6427.3	6287.4	6097.5	5982.7	5876.7	5757.5	5661.8	5595.5	5557.3	5545.5
20°	6667.2	6595.1	6393.4	6163.8	6018.0	5825.2	5595.5	5401.2	5280.5	5224.6	5214.3
22.5°	6852.7	6736.4	6492.1	6233.0	5990.1	5651.5	5290.8	5008.2	4840.3	4765.3	4771.1
25°	7033.8	6871.9	6595.1	6281.5	5848.7	5345.3	4866.8	4519.4	4325.1	4241.2	4238.2
27.5°	7192.8	7008.8	6707.0	6241.8	5585.2	4909.5	4364.8	4026.2	3864.3	3792.2	3780.4
30°	7375.3	7181.0	6855.7	6090.2	5199.5	4406.1	3874.6	3636.1	3521.3	3449.2	3435.9
32.5°	7597.6	7415.1	6977.9	5814.9	4706.4	3880.5	3491.9	3325.5	3221.0	3140.0	3125.3
35°	7921.5	7724.2	7008.8	5420.3	4164.6	3465.4	3210.7	3039.9	2898.6	2794.1	2783.8
37.5°	8327.8	8111.4	6938.1	4909.5	3639.1	3196.0	2976.6	2766.1	2582.1	2434.9	2411.3
40°	8913.7	8586.9	6742.3	4320.7	3251.9	2988.4	2748.4	2508.5	2280.3	2108.1	2074.2
42.5°	9617.4	9144.8	6442.0	3734.8	2967.8	2777.9	2521.7	2224.4	2006.5	1884.3	1866.6
45°	10512.4	9724.8	6025.4	3222.5	2688.1	2567.4	2277.4	2003.6	1868.1	1778.3	1763.6
47.5°	11534.1	10375.5	5588.2	2805.9	2451.1	2370.1	2081.6	1904.9	1797.5	1726.8	1713.5
50°	12789.8	11110.1	5124.5	2464.3	2212.6	2133.1	1988.8	1850.5	1765.1	1710.6	1697.4
52.5°	14206.0	11938.9	4790.3	2194.9	2015.3	1957.9	1940.3	1821.0	1751.8	1710.6	1697.4
55°	15731.1	12782.4	4429.6	1968.2	1844.6	1860.8	1907.9	1824.0	1776.8	1726.8	1707.7
57.5°	17257.7	13653.9	4027.7	1776.8	1709.1	1788.6	1885.8	1829.8	1790.1	1741.5	1723.9
60°	18464.8	14206.0	3405.0	1616.4	1601.7	1709.1	1832.8	1785.7	1734.2	1735.6	1732.7
62.5°	19028.6	14176.5	2717.5	1473.6	1494.2	1601.7	1747.4	1716.5	1673.8	1731.2	1735.6
65°	18712.1	13469.9	2115.4	1344.0	1379.4	1489.8	1659.1	1682.6	1697.4	1807.8	1822.5
67.5°	17384.3	12094.9	1638.5	1230.7	1274.9	1413.2	1667.9	1832.8	1851.9	1968.2	1966.8
69°	16010.8	10805.4	1423.5	1171.8	1223.3	1432.4	1782.7	1928.5	1856.3	1980.0	1962.3
70°	14859.6	9785.2	1308.7	1132.1	1199.8	1466.2	1859.3	1927.0	1834.3	1940.3	1910.8
72.5°	11444.3	7039.7	1110.0	1058.5	1120.3	1402.9	1881.4	1884.3	1782.7	1803.3	1753.3
75°	7849.3	4448.7	968.7	958.4	999.6	1264.6	1810.7	1800.4	1648.8	1619.3	1578.1
77.5°	4328.0	2259.7	822.9	862.7	890.6	1120.3	1645.8	1631.1	1506.0	1444.2	1429.4
80°	1669.4	989.3	694.8	767.0	784.6	970.1	1442.7	1429.4	1324.9	1245.4	1223.3
82.5°	630.1	518.2	574.1	663.9	658.0	800.8	1221.9	1214.5	1112.9	996.6	961.3
85°	291.5	310.6	454.9	547.6	504.9	593.3	977.5	990.7	867.1	728.7	728.7
87.5°	123.7	173.7	322.4	413.7	340.1	400.4	716.9	684.5	628.6	435.7	409.2
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)