

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: P317689

Luminaire Tested: **GAN-SA5C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317689
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-SA5C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30227 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

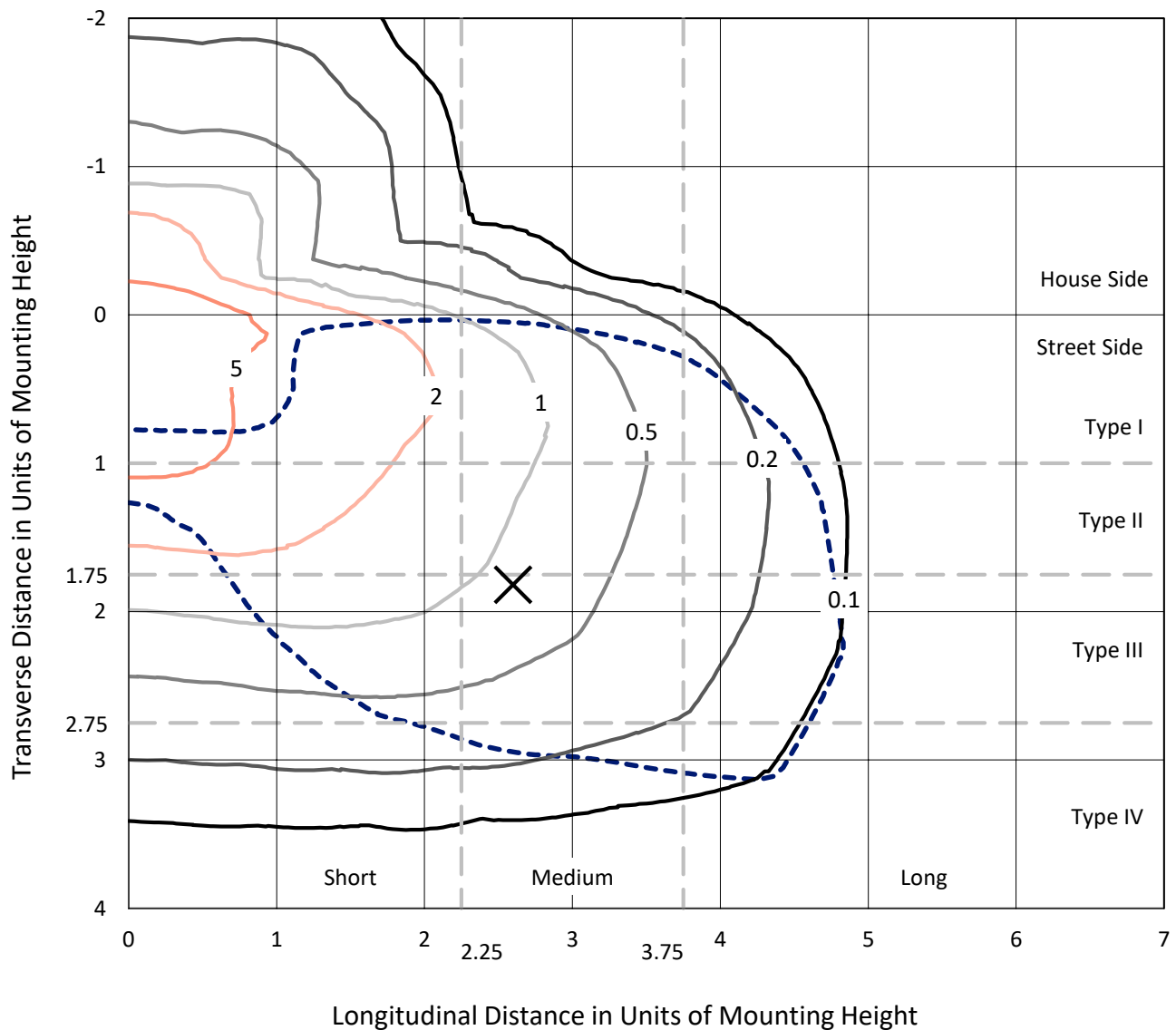


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Iso-Footcandle Lines of Horizontal Illumination

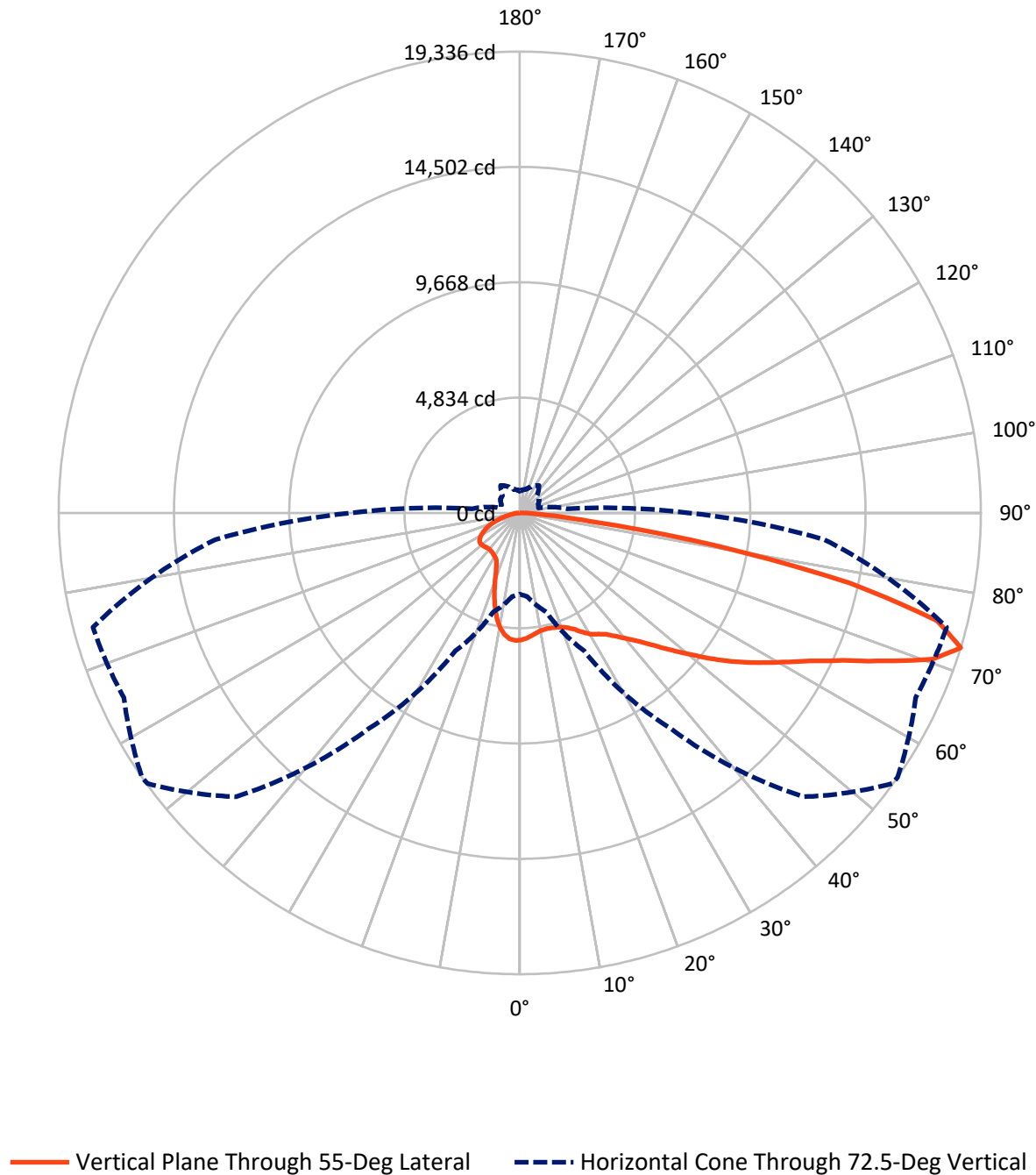
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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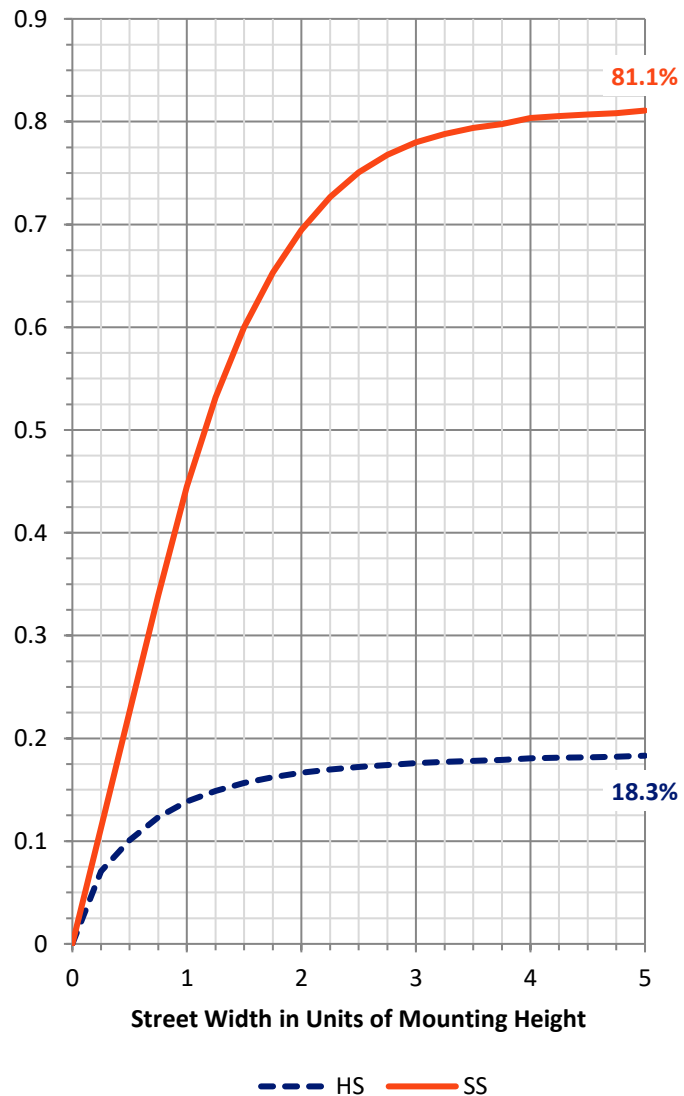
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5618.2	0.0	5618.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24608.8	0.0	24608.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	30227.0	0.0	30227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	1.6
10°-20°	1284.4	4.2
20°-30°	2117.7	7.0
30°-40°	3132.5	10.4
40°-50°	4372.4	14.5
50°-60°	5693.0	18.8
60°-70°	6996.5	23.1
70°-80°	5484.4	18.1
80°-90°	663.7	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°	30227.0	100.0
0°-180°	30227.0	100.0

Coefficient of Utilization



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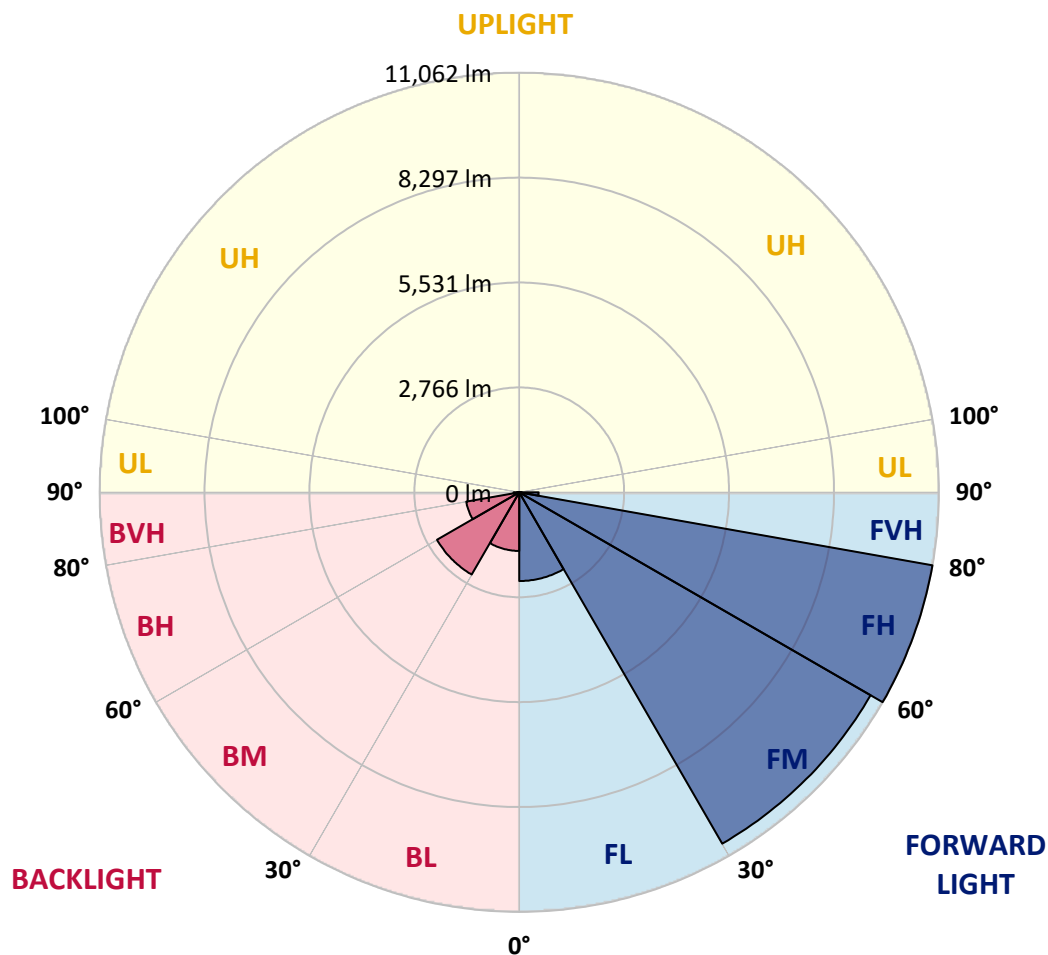
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2338.7	7.7			
FM	(30°-60°)	10694.9	35.4			
FH	(60°-80°)	11062.1	36.6			G4/12000
FVH	(80°-90°)	513.1	1.7			G4/750
BL	(0°-30°)	1545.8	5.1	B3/2500		
BM	(30°-60°)	2503.0	8.3	B3/5000		
BH	(60°-80°)	1418.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	150.6	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4
2.5°	5157.8	5145.6	5160.9	5182.3	5205.8	5237.5	5255.8	5264.0	5295.7	5307.9	5334.5
5°	4918.9	4912.8	4938.3	4975.1	5027.1	5100.7	5159.9	5171.1	5254.8	5314.0	5368.1
7.5°	4745.4	4745.4	4775.0	4818.9	4877.1	4976.1	5059.8	5075.1	5217.0	5344.7	5444.7
10°	4607.5	4612.6	4647.4	4699.4	4767.8	4873.0	4984.3	5001.6	5206.8	5416.1	5575.4
12.5°	4515.7	4527.9	4559.6	4606.5	4691.3	4818.9	4959.8	4983.2	5228.3	5518.2	5732.6
15°	4573.8	4594.3	4597.3	4616.7	4663.7	4802.5	4974.1	4998.6	5274.2	5622.4	5911.3
17.5°	4829.1	4836.2	4804.6	4763.7	4741.3	4830.1	5016.9	5042.5	5329.4	5725.5	6082.8
20°	5217.0	5213.0	5144.6	5034.3	4920.0	4934.2	5087.4	5113.9	5403.9	5816.3	6254.3
22.5°	5707.1	5692.8	5587.7	5384.5	5189.5	5107.8	5210.9	5233.4	5516.2	5946.0	6438.1
25°	6301.3	6269.6	6130.8	5858.2	5571.3	5361.0	5396.7	5418.2	5679.5	6091.0	6606.6
27.5°	6928.2	6896.5	6719.9	6390.1	6008.3	5680.6	5653.0	5671.4	5865.3	6198.2	6731.1
30°	7583.6	7549.9	7388.6	7019.0	6471.8	6011.3	5891.9	5899.0	5996.0	6256.4	6833.2
32.5°	8242.1	8210.5	8029.8	7601.0	6975.1	6366.6	6064.4	6055.2	6074.6	6316.6	6948.6
35°	8909.8	8922.1	8710.7	8236.0	7532.6	6761.7	6268.6	6249.2	6206.3	6440.1	7111.9
37.5°	9624.5	9616.3	9342.7	8846.5	8115.5	7190.5	6561.6	6558.6	6410.5	6673.9	7368.2
40°	10102.3	10107.4	9941.0	9471.3	8704.6	7665.3	6937.3	6930.2	6736.2	7024.1	7704.1
42.5°	10289.1	10322.8	10365.7	10067.6	9321.3	8215.6	7385.5	7375.3	7190.5	7526.4	8099.2
45°	10302.4	10369.8	10635.2	10597.4	9946.1	8845.5	7958.3	7929.7	7797.0	8194.1	8570.9
47.5°	10188.0	10257.5	10698.5	10912.9	10504.5	9510.1	8628.0	8605.6	8491.2	9029.3	9081.3
50°	9937.9	10004.3	10567.8	11067.1	10964.0	10149.2	9399.9	9340.7	9279.4	9994.1	9665.3
52.5°	9469.3	9596.9	10393.3	11103.8	11238.6	10716.9	10211.5	10172.7	10206.4	11011.9	10250.3
55°	8359.5	8502.5	9943.0	11073.2	11441.8	11193.7	11023.2	11021.1	11195.7	12079.9	10878.2
57.5°	7737.8	7838.8	9026.2	11021.1	11682.7	11667.4	11826.7	11846.1	12186.0	13242.7	11535.7
60°	7386.6	7492.7	8561.7	10828.2	12056.4	12280.0	12646.5	12685.3	13192.7	14530.1	12326.9
62.5°	7067.0	7183.4	8273.8	10435.1	12496.4	13155.9	13628.6	13663.4	14258.6	15853.3	13091.6
65°	6520.8	6652.5	7852.1	10176.8	12896.6	14298.4	14877.3	14900.7	15482.7	17239.7	13676.6
67.5°	5749.0	5869.4	7056.8	9606.1	13192.7	15685.9	16537.3	16550.6	16696.6	18218.8	13975.8
70°	4847.5	4893.4	5923.5	8427.9	12842.5	16983.5	18356.7	18359.7	17803.3	18845.7	13926.8
72.5°	3405.9	3514.1	4300.2	6379.9	11036.5	16825.2	19301.0	19335.7	18317.9	18529.2	12813.9
75°	2088.9	2203.2	2697.3	3866.3	7001.7	13232.5	17832.9	18073.8	17353.1	16521.0	10467.8
77.5°	1396.7	1439.5	1760.1	2254.3	3172.1	7613.2	13710.3	14163.6	14415.8	12048.2	6694.4
80°	779.0	860.7	1166.9	1400.7	1411.0	3025.1	8220.7	8326.9	8020.6	4797.4	2065.4
82.5°	412.5	457.4	779.0	822.9	769.8	1012.8	3063.9	3066.9	2562.6	1286.4	613.6
85°	319.6	357.3	534.0	502.3	393.1	449.2	1010.7	1065.9	871.9	526.8	200.1
87.5°	159.3	198.1	362.4	318.5	154.2	128.6	361.4	385.9	344.1	206.2	72.5
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°	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4	5331.4
2.5°	5344.7	5353.9	5365.1	5352.8	5348.7	5332.4	5304.8	5298.7	5284.4	5285.4	5293.6
5°	5391.6	5406.9	5400.8	5353.9	5297.7	5219.1	5137.4	5068.0	5022.0	5019.0	5015.9
7.5°	5481.5	5491.7	5443.7	5310.0	5152.7	4971.0	4799.5	4649.4	4558.5	4536.1	4531.0
10°	5622.4	5620.3	5488.6	5219.1	4905.7	4581.0	4305.3	4097.1	3975.6	3939.8	3930.7
12.5°	5779.6	5756.1	5503.9	5053.7	4556.5	4106.3	3757.1	3525.3	3398.7	3357.9	3347.7
15°	5941.9	5883.7	5466.2	4806.6	4127.7	3594.8	3228.2	3013.8	2945.4	2923.0	2918.9
17.5°	6093.0	5980.7	5357.9	4471.8	3638.7	3085.3	2799.4	2713.7	2730.0	2759.6	2760.6
20°	6241.1	6046.1	5184.4	4049.1	3123.1	2665.7	2568.7	2632.0	2709.6	2769.8	2778.0
22.5°	6387.1	6092.0	4960.8	3561.1	2661.6	2429.9	2498.3	2613.6	2702.5	2767.8	2779.0
25°	6509.6	6103.2	4652.5	3040.4	2341.0	2341.0	2464.6	2573.8	2661.6	2725.9	2737.2
27.5°	6554.5	6027.7	4217.5	2558.5	2179.7	2300.2	2417.6	2508.5	2583.0	2651.4	2663.7
30°	6571.8	5887.8	3715.2	2171.6	2113.4	2256.3	2354.3	2431.9	2502.3	2566.7	2577.9
32.5°	6574.9	5719.4	3182.3	1952.1	2067.4	2210.4	2275.7	2344.1	2419.6	2445.2	2449.3
35°	6594.3	5520.3	2620.8	1839.7	2024.5	2167.5	2219.5	2268.5	2146.0	2155.2	2163.4
37.5°	6650.5	5323.2	2151.1	1776.5	1997.0	2145.0	2207.3	2029.6	1933.7	1911.2	1908.2
40°	6755.6	5112.9	1803.0	1725.4	1986.8	2156.2	2128.7	1894.9	1729.5	1606.0	1587.6
42.5°	6901.6	4886.3	1580.4	1691.7	1993.9	2210.4	2019.4	1765.2	1490.6	1411.0	1400.7
45°	7066.0	4648.4	1460.0	1668.2	2018.4	2252.2	1997.0	1592.7	1379.3	1319.1	1314.0
47.5°	7225.3	4357.4	1397.7	1658.0	2052.1	2218.5	1902.0	1539.6	1326.2	1294.6	1297.6
50°	7408.0	4095.0	1359.9	1646.8	2081.7	2197.1	1794.8	1512.0	1305.8	1344.6	1385.4
52.5°	7562.2	3823.5	1326.2	1624.3	2092.9	2159.3	1767.3	1517.1	1305.8	1380.3	1419.1
55°	7744.9	3618.2	1287.4	1577.4	2071.5	2052.1	1747.9	1547.8	1321.1	1274.1	1278.2
57.5°	7980.8	3550.9	1244.5	1503.9	2000.0	1895.9	1738.7	1577.4	1311.9	1282.3	1292.5
60°	8307.5	3622.3	1227.2	1407.9	1888.8	1773.4	1739.7	1562.1	1247.6	1196.6	1197.6
62.5°	8618.8	3702.0	1226.2	1347.7	1751.9	1664.1	1716.2	1512.0	1214.9	1185.3	1196.6
65°	8720.9	3621.3	1177.2	1280.3	1597.8	1533.5	1673.3	1458.9	1190.4	1145.5	1143.5
67.5°	8584.1	3371.2	1078.1	1171.0	1421.2	1381.3	1617.2	1395.6	1151.6	1114.9	1108.7
70°	8177.8	2812.7	955.6	1027.1	1220.0	1209.8	1528.4	1322.1	1099.6	1067.9	1041.4
72.5°	7084.4	2004.1	805.5	854.5	993.4	1026.1	1405.8	1226.2	1026.1	957.6	916.8
75°	5818.4	1483.4	661.6	671.8	754.5	843.3	1237.4	1113.9	939.3	822.9	791.2
77.5°	3563.1	907.6	526.8	530.9	541.1	672.8	1018.9	988.3	829.0	686.1	663.6
80°	1153.7	495.2	380.8	400.2	369.6	493.1	788.2	841.3	711.6	573.8	549.3
82.5°	439.0	288.9	257.3	270.6	256.3	330.8	574.8	673.8	583.0	471.7	383.9
85°	212.4	163.4	152.1	170.5	158.2	169.5	367.5	496.2	442.1	307.3	285.9
87.5°	75.6	72.5	58.2	78.6	67.4	60.2	112.3	250.1	292.0	211.3	188.9
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)