

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: P319613

Luminaire Tested: **GAN-SA9C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52885 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 501
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

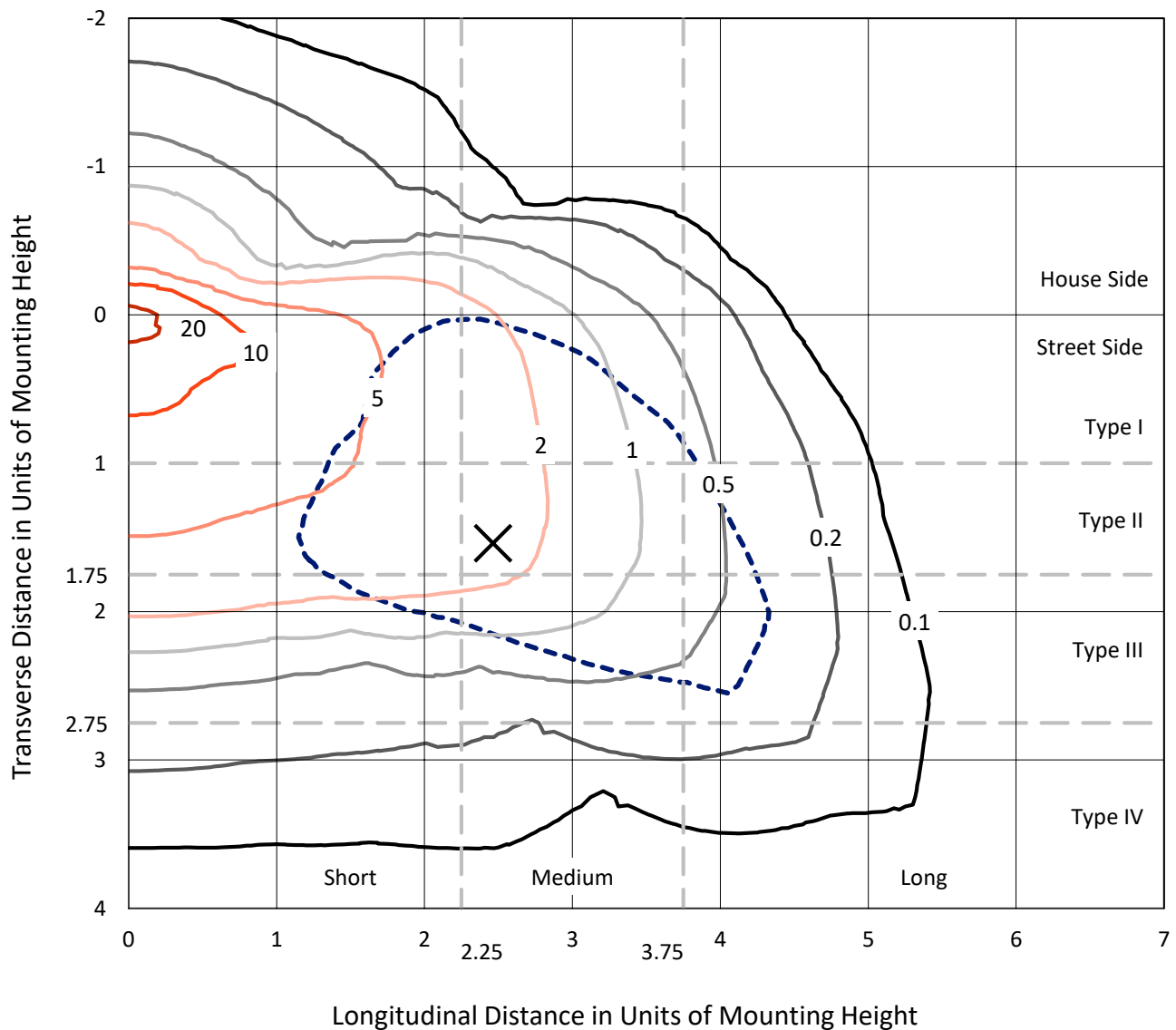


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Iso-Footcandle Lines of Horizontal Illumination

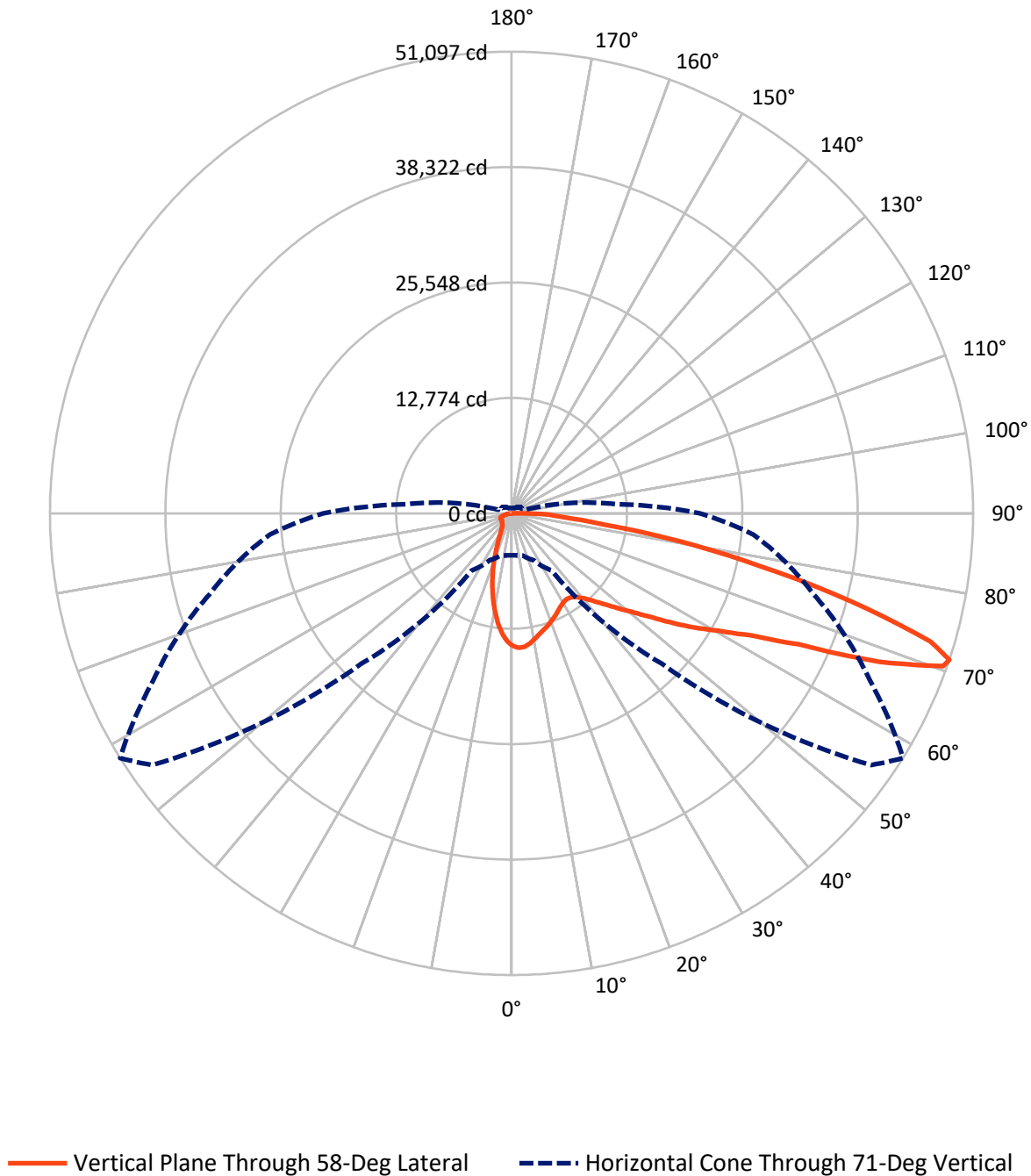
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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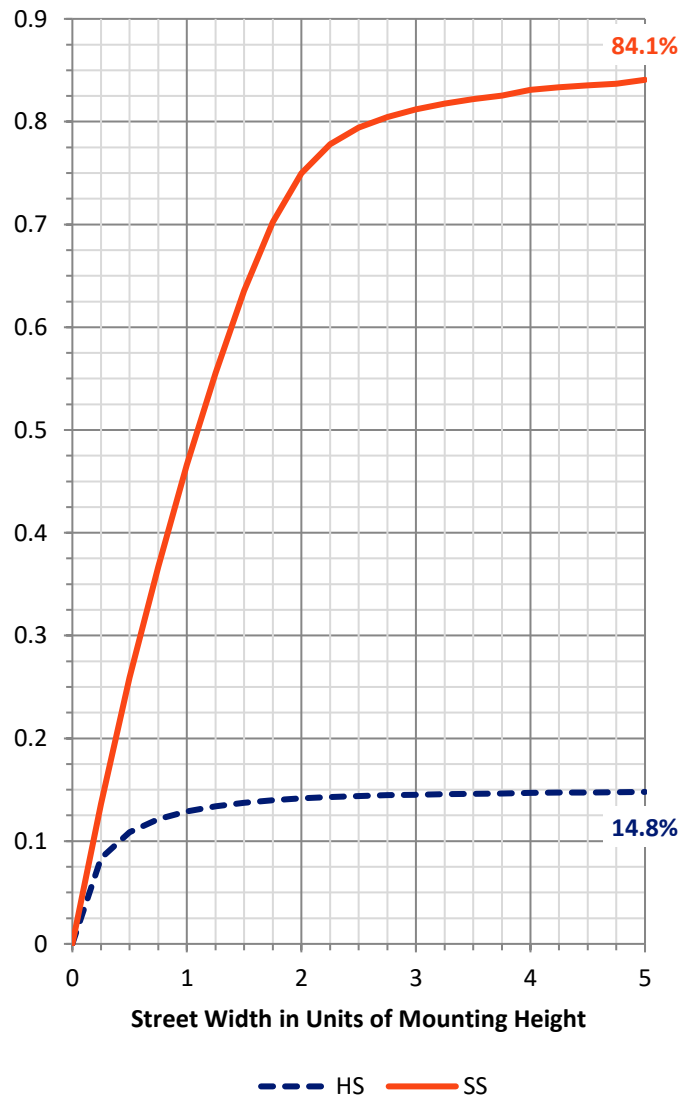
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7906.7	0.0	7906.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	44978.3	0.0	44978.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	52885.0	0.0	52885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1264.1	2.4
10°-20°	2810.8	5.3
20°-30°	3572.3	6.8
30°-40°	4550.4	8.6
40°-50°	6452.7	12.2
50°-60°	9985.8	18.9
60°-70°	13594.3	25.7
70°-80°	9069.0	17.1
80°-90°	1585.6	3.0
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°	52885.0	100.0
0°-180°	52885.0	100.0

Coefficient of Utilization



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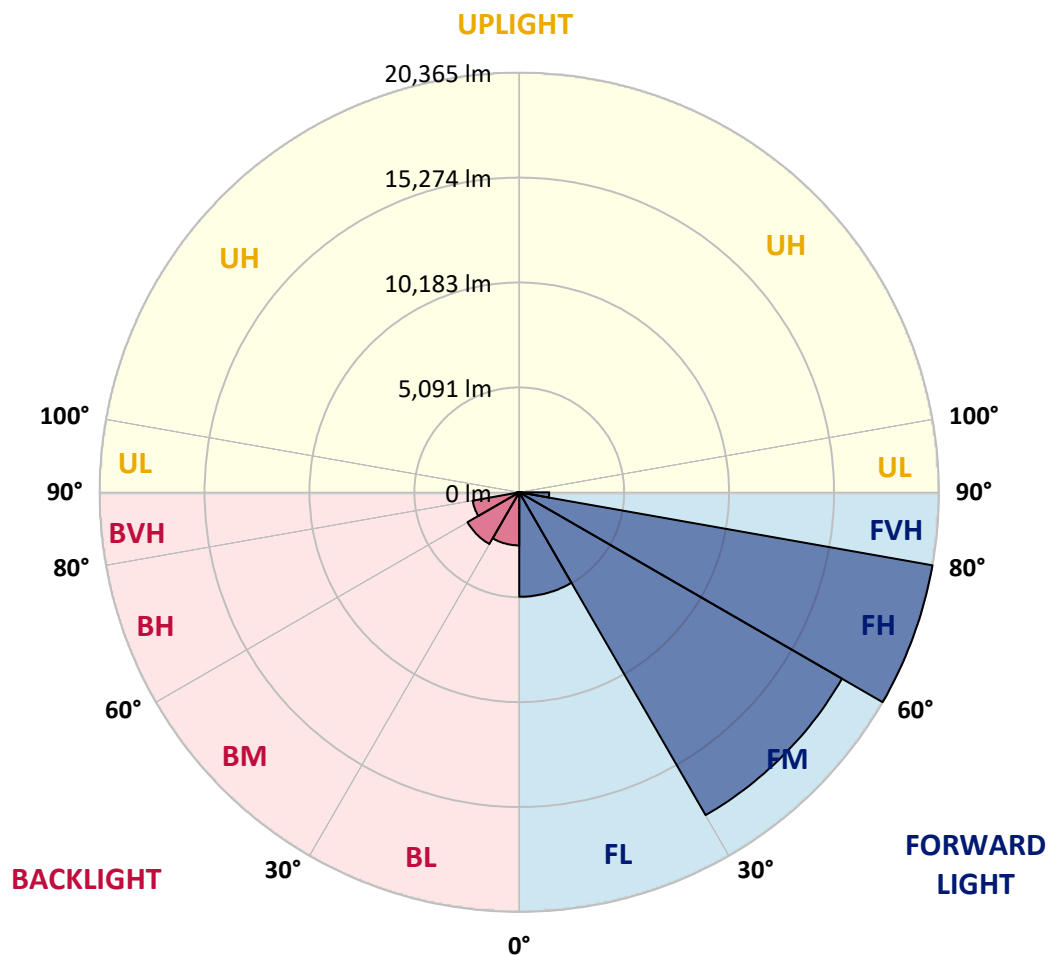
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5069.9	9.6			
FM	(30°-60°)	18089.2	34.2			
FH	(60°-80°)	20365.4	38.5			G5
FVH	(80°-90°)	1453.8	2.7			G5
BL	(0°-30°)	2577.3	4.9	B4/5000		
BM	(30°-60°)	2899.6	5.5	B3/5000		
BH	(60°-80°)	2298.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	131.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7
2.5°	15041.4	15021.1	15028.5	15013.7	14978.7	14943.7	14892.2	14901.4	14829.5	14722.7	14590.0
5°	14757.7	14750.3	14805.6	14836.9	14862.7	14842.4	14827.7	14846.1	14741.1	14593.7	14363.5
7.5°	14162.7	14081.6	14151.6	14256.6	14356.1	14431.6	14531.1	14544.0	14477.7	14322.9	14020.8
10°	13317.1	13239.7	13342.9	13506.8	13705.8	13886.3	14087.1	14124.0	14136.9	13996.9	13630.3
12.5°	12440.2	12381.3	12484.4	12714.7	13044.5	13322.6	13643.2	13698.4	13812.6	13718.7	13269.2
15°	11655.5	11633.4	11758.6	11985.2	12364.7	12790.2	13252.6	13353.9	13547.4	13516.1	12987.4
17.5°	10977.5	10972.0	11067.8	11305.4	11725.5	12263.4	12863.9	13035.2	13322.6	13359.5	12755.2
20°	10472.8	10461.7	10528.0	10703.1	11136.0	11745.7	12443.9	12679.7	13094.2	13223.2	12515.8
22.5°	10202.0	10200.1	10202.0	10284.9	10638.6	11206.0	12034.9	12322.3	12871.3	13114.5	12250.5
25°	10155.9	10150.4	10109.9	10100.7	10301.5	10754.6	11629.7	11946.5	12659.4	13038.9	11998.1
27.5°	10275.7	10283.0	10229.6	10143.0	10183.6	10458.0	11277.8	11616.8	12490.0	13024.2	11823.1
30°	10524.4	10520.7	10474.6	10384.4	10305.1	10347.5	11027.3	11366.2	12375.7	13088.7	11703.4
32.5°	10798.8	10819.1	10809.9	10760.2	10642.3	10472.8	10951.7	11283.3	12342.6	13243.4	11651.8
35°	11128.6	11150.7	11217.0	11255.7	11117.5	10844.9	11113.9	11401.2	12438.4	13534.5	11734.7
37.5°	11441.8	11498.9	11684.9	11848.9	11731.0	11427.0	11544.9	11749.4	12735.0	13993.2	11957.6
40°	11802.8	11852.6	12156.5	12504.7	12486.3	12171.3	12239.4	12375.7	13258.2	14650.8	12361.0
42.5°	12158.4	12257.8	12698.1	13191.8	13333.7	13055.5	13164.2	13236.0	13995.0	15522.2	13064.7
45°	12631.8	12738.7	13350.3	13945.3	14276.9	14120.3	14293.5	14321.1	14921.6	16708.6	14087.1
47.5°	13348.4	13470.0	14182.9	14807.4	15314.0	15330.6	15616.1	15605.1	16078.5	18066.2	15374.8
50°	14464.8	14639.8	15223.8	15807.7	16423.0	16765.7	17147.0	17093.6	17465.7	19512.3	16857.8
52.5°	15927.5	16008.5	16441.4	16872.5	17637.0	18405.2	18952.3	18904.4	19038.9	20999.0	18541.5
55°	17443.6	17504.4	17683.1	17918.9	18946.8	20199.5	21356.4	21280.8	20940.0	22542.7	20205.0
57.5°	18806.8	18930.2	19053.6	19151.3	20265.8	22074.8	23815.7	23821.2	23003.3	24208.1	21923.8
60°	19018.6	19127.3	19943.4	20713.4	22522.5	24576.5	26448.1	26392.9	25138.4	26015.2	23839.6
62.5°	16811.7	17056.7	18419.9	20468.4	24696.2	29152.5	29806.4	29738.3	27691.6	28242.4	26070.5
65°	12047.8	12326.0	13971.1	17049.4	23642.5	34194.5	35867.2	34949.8	31173.3	30981.7	28682.7
67.5°	6950.5	7016.9	7729.8	10202.0	18001.8	34457.9	45113.1	43829.1	36580.1	34089.5	29961.2
70°	5139.7	5137.8	5307.3	6278.1	9741.4	28122.7	49510.4	50661.7	42272.4	35111.9	28154.0
71°	4647.8	4653.3	4843.1	5714.4	7715.0	23539.3	48576.4	51096.5	43772.0	34607.1	26846.1
72.5°	3975.4	3993.8	4257.3	5124.9	6490.0	16233.3	44553.1	48488.0	44483.1	33361.8	24799.4
75°	3015.6	3058.0	3422.8	4319.9	5931.8	8232.7	32698.7	38718.9	39516.6	29438.0	18427.3
77.5°	2151.7	2199.6	2612.2	3632.8	5638.9	6204.5	21898.0	28242.4	29080.6	18865.7	8311.9
80°	1359.5	1416.6	1728.0	2890.4	5298.1	5891.3	13761.1	18983.6	15857.5	6036.8	2114.8
82.5°	797.7	841.9	1072.1	1888.2	4327.3	5673.9	8096.4	10522.5	6171.3	1823.8	961.6
85°	462.4	482.7	668.7	1202.9	3142.8	5355.2	5948.4	5882.1	2678.5	891.6	455.0
87.5°	215.5	239.5	396.1	628.2	1744.5	3881.5	4701.2	4062.0	1665.3	418.2	213.7
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°	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7	14652.7
2.5°	14525.6	14494.3	14363.5	14247.4	14125.8	13967.4	13792.4	13770.3	13663.4	13683.7	13646.9
5°	14238.2	14159.0	13844.0	13558.4	13221.3	12919.2	12591.3	12440.2	12222.8	12208.1	12152.8
7.5°	13827.4	13680.0	13191.8	12650.2	12108.6	11592.8	11082.5	10747.3	10404.6	10259.1	10246.2
10°	13365.0	13114.5	12396.0	11594.7	10813.6	10060.1	9330.6	8790.9	8304.5	8074.3	8065.1
12.5°	12926.6	12556.3	11570.7	10480.1	9411.7	8435.3	7435.0	6725.8	6116.0	5911.5	5825.0
15°	12554.4	12033.1	10767.5	9373.0	8076.1	6720.3	5581.8	4835.7	4272.0	4076.7	4039.9
17.5°	12193.4	11522.8	9944.1	8254.8	6687.1	5196.8	4056.5	3502.0	3201.7	3122.5	3120.6
20°	11834.1	10997.8	9083.8	7110.8	5344.2	3887.0	3118.8	2870.1	2768.8	2759.6	2744.8
22.5°	11427.0	10441.5	8179.3	5963.1	4170.7	3056.2	2650.9	2551.4	2538.5	2571.7	2571.7
25°	11045.7	9888.8	7261.9	4839.4	3244.1	2549.6	2367.2	2346.9	2381.9	2440.9	2446.4
27.5°	10690.2	9356.4	6366.6	3840.9	2599.3	2245.6	2170.1	2194.0	2256.7	2324.8	2326.7
30°	10397.3	8853.5	5497.1	3026.7	2195.9	2019.0	2006.1	2054.0	2122.2	2175.6	2188.5
32.5°	10170.7	8424.3	4657.0	2433.5	1932.4	1849.5	1860.6	1901.1	1943.5	1973.0	1993.2
35°	10065.7	8055.8	3881.5	2052.2	1764.8	1718.8	1733.5	1755.6	1774.0	1796.1	1812.7
37.5°	10084.1	7770.3	3188.8	1814.5	1652.4	1628.5	1628.5	1628.5	1628.5	1639.5	1641.4
40°	10255.4	7606.4	2625.1	1663.5	1576.9	1551.1	1530.8	1512.4	1497.7	1505.1	1501.4
42.5°	10693.8	7591.6	2212.5	1567.7	1516.1	1473.7	1433.2	1407.4	1389.0	1396.4	1400.1
45°	11438.1	7775.8	1934.3	1499.5	1459.0	1394.5	1342.9	1315.3	1302.4	1326.4	1330.1
47.5°	12401.5	8177.4	1764.8	1449.8	1405.6	1320.8	1265.6	1239.8	1243.5	1278.5	1287.7
50°	13643.2	8829.6	1683.8	1418.5	1368.7	1258.2	1201.1	1179.0	1190.0	1239.8	1250.8
52.5°	15006.4	9769.1	1693.0	1409.3	1344.8	1212.2	1151.4	1125.6	1144.0	1190.0	1199.3
55°	16579.6	10898.3	1845.9	1422.2	1309.8	1182.7	1110.8	1066.6	1081.4	1123.7	1131.1
57.5°	18327.8	12191.5	2153.5	1418.5	1265.6	1155.0	1068.5	1002.1	1013.2	1039.0	1046.4
60°	20147.9	13753.7	2630.6	1429.5	1245.3	1121.9	1011.4	928.5	924.8	946.9	950.6
62.5°	22332.7	15560.9	3175.9	1436.9	1258.2	1079.5	935.8	854.8	843.7	849.2	852.9
65°	24583.9	16868.8	2971.4	1407.4	1298.7	1044.5	869.5	782.9	762.7	759.0	760.8
67.5°	24653.9	15466.9	2083.5	1348.5	1315.3	1026.1	819.8	722.1	689.0	676.1	674.2
70°	22109.8	12565.5	1623.0	1285.8	1249.0	996.6	773.7	672.4	622.7	602.4	600.5
71°	20868.2	11567.0	1538.2	1254.5	1199.3	967.1	753.5	650.3	598.7	576.6	572.9
72.5°	18921.0	10369.6	1435.1	1204.8	1103.5	891.6	714.8	619.0	565.5	539.8	534.2
75°	13578.7	6781.1	1232.4	1074.0	913.7	711.1	626.3	556.3	510.3	479.0	475.3
77.5°	5231.8	2698.8	932.1	893.5	700.0	556.3	515.8	480.8	447.6	416.3	414.5
80°	1617.4	1206.6	679.8	672.4	506.6	414.5	401.6	392.4	379.5	346.3	339.0
82.5°	864.0	692.7	467.9	434.8	331.6	276.3	291.1	294.7	296.6	261.6	257.9
85°	412.6	366.6	263.4	246.9	193.4	154.7	178.7	193.4	195.3	160.3	149.2
87.5°	197.1	191.6	123.4	94.0	71.8	51.6	62.6	77.4	84.7	60.8	53.4
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)