

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: P319293

Luminaire Tested: **GAN-SA9C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51803 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

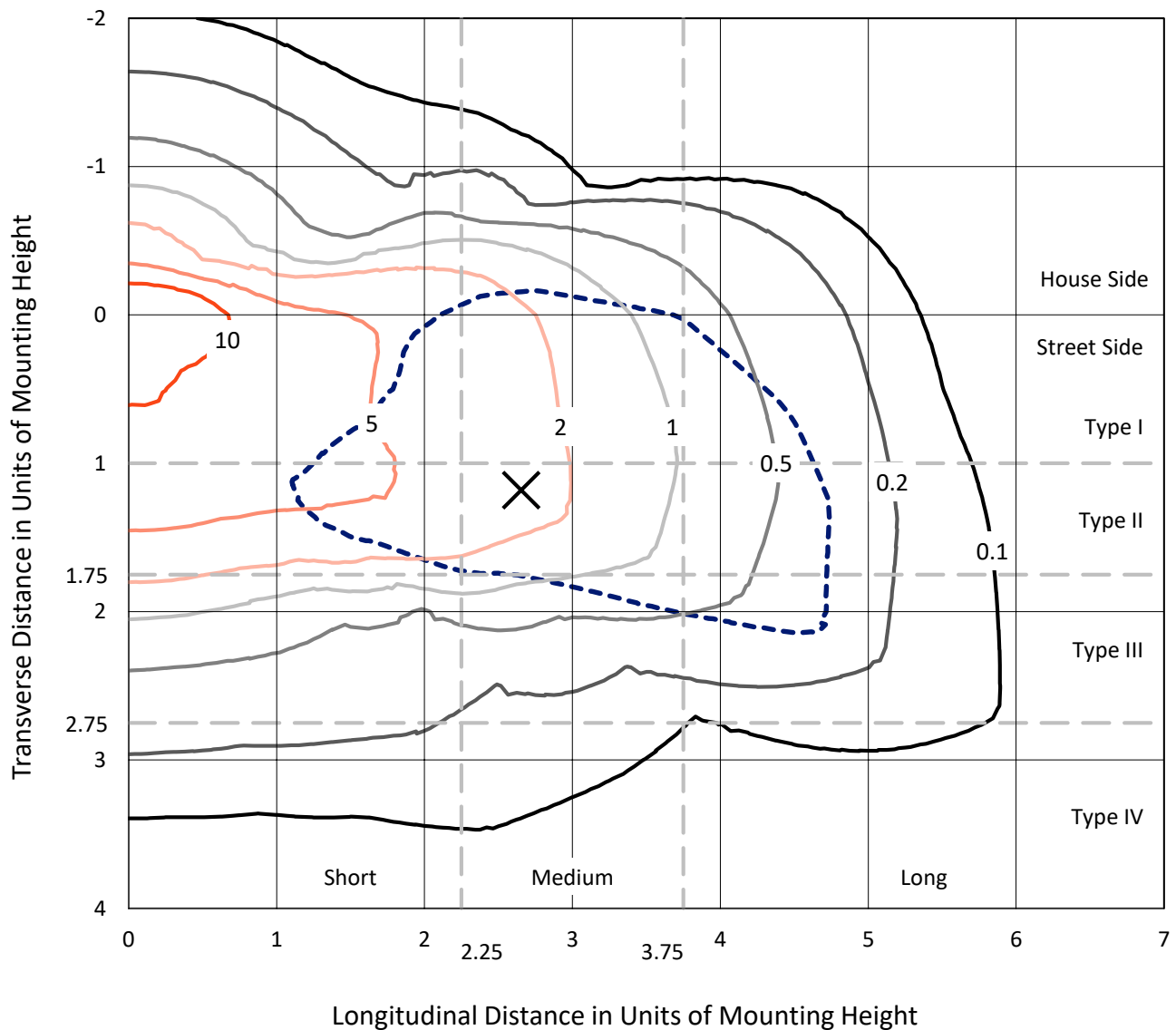
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

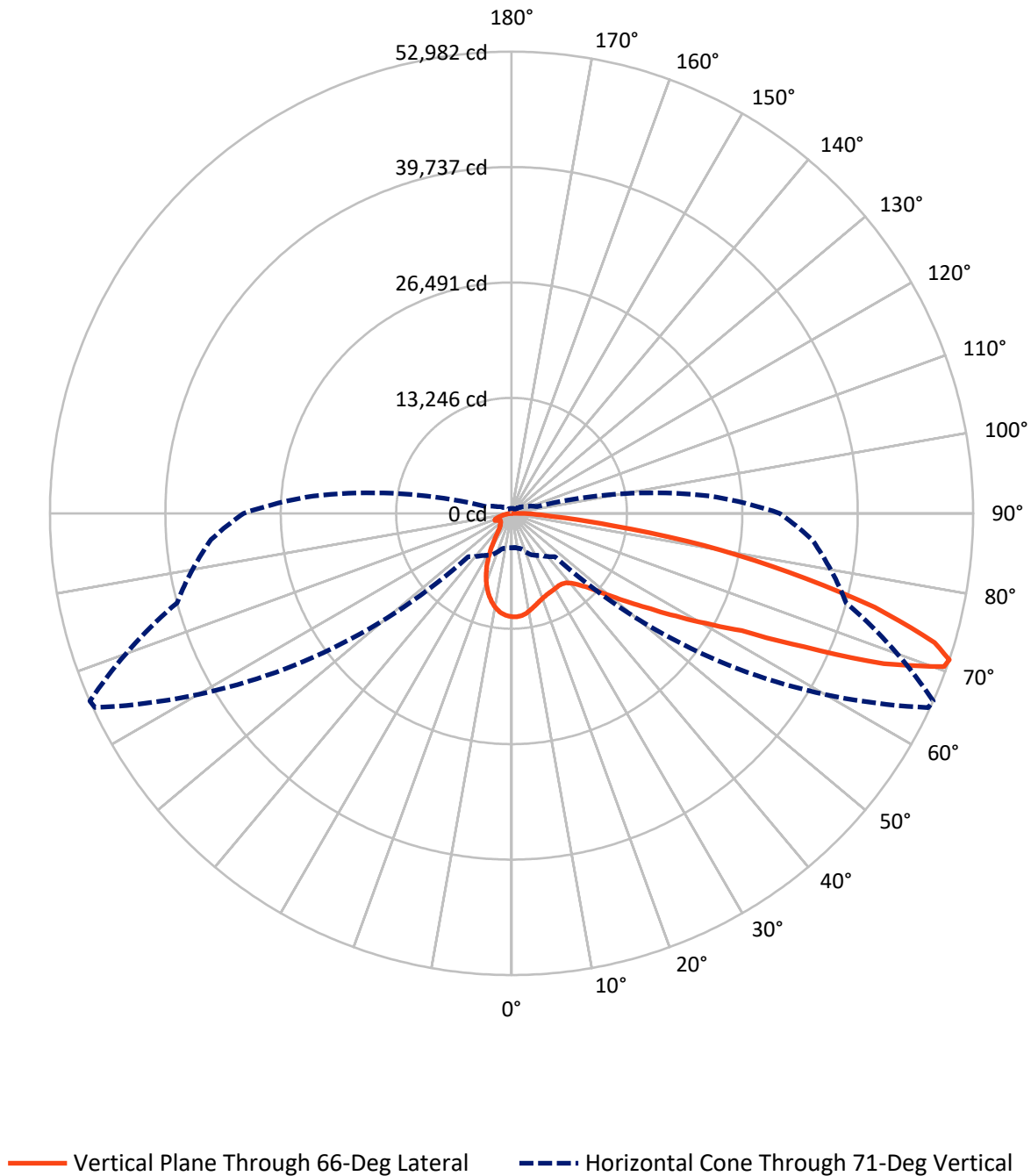
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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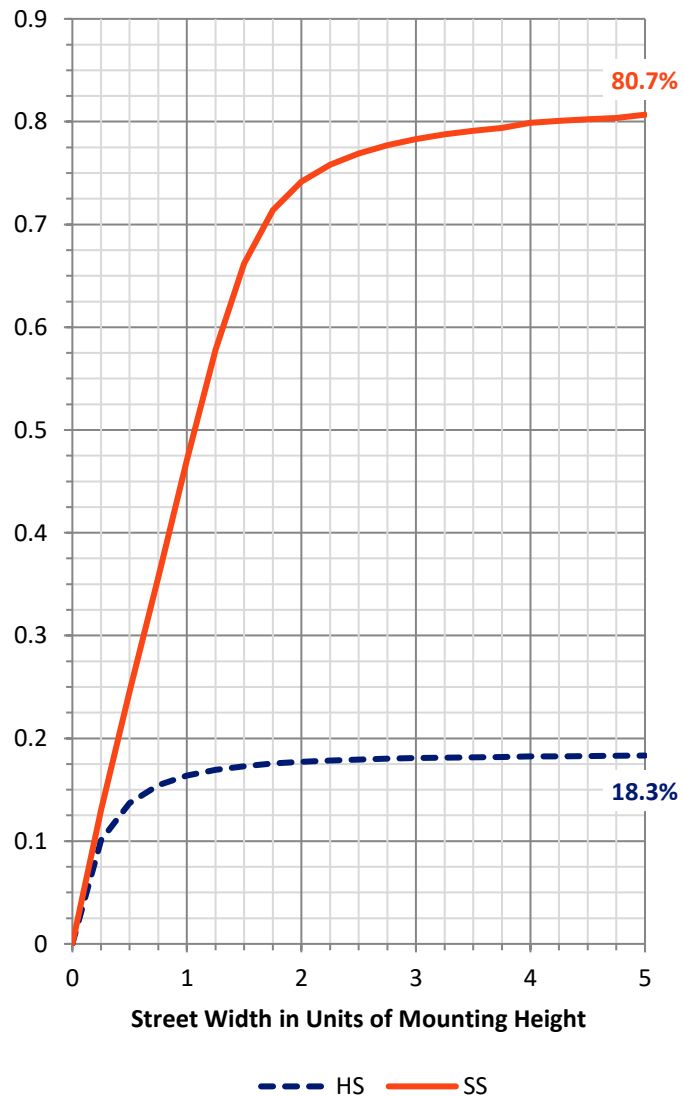
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9600.5	0.0	9600.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	42202.5	0.0	42202.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	51803.0	0.0	51803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1044.6	2.0
10°-20°	2505.4	4.8
20°-30°	3365.3	6.5
30°-40°	4427.0	8.5
40°-50°	6440.2	12.4
50°-60°	10060.3	19.4
60°-70°	12602.1	24.3
70°-80°	9612.6	18.6
80°-90°	1745.5	3.4
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°	51803.0	100.0
0°-180°	51803.0	100.0

Coefficient of Utilization



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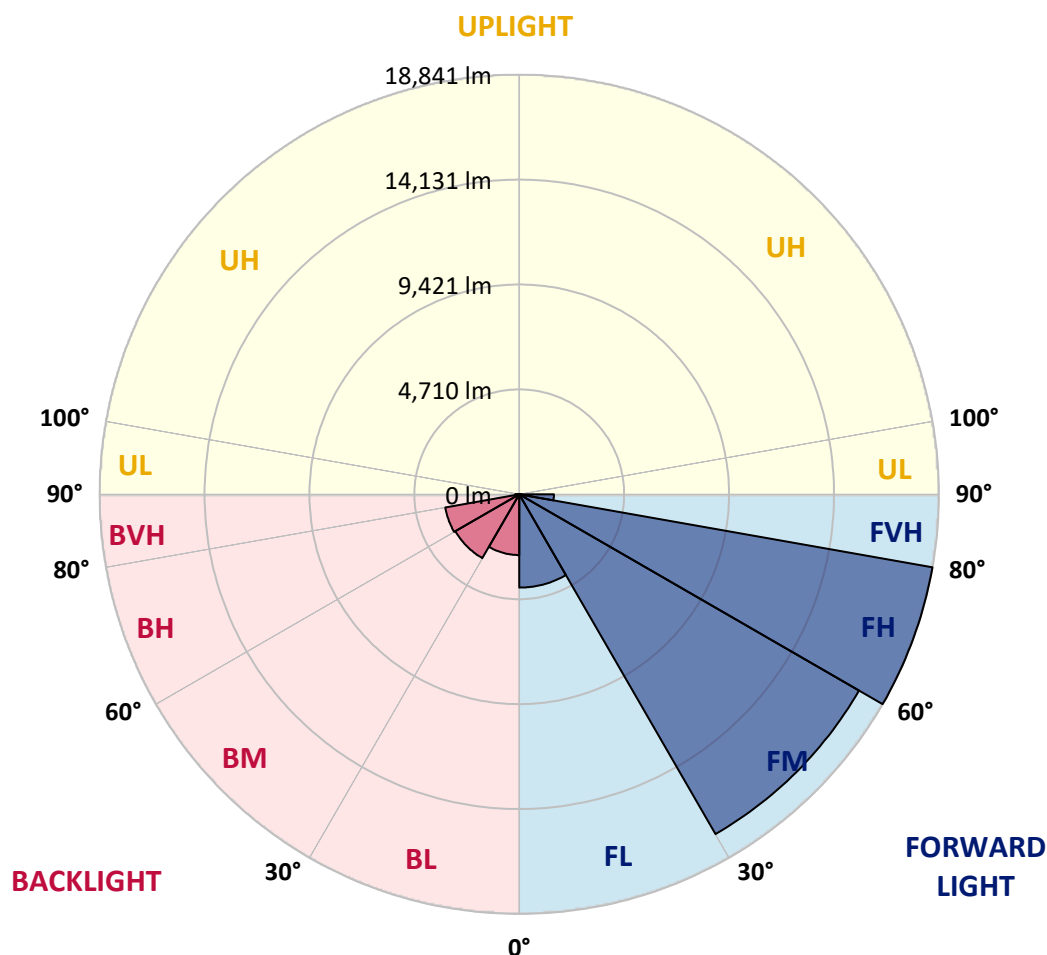
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4189.0	8.1			
FM	(30°-60°)	17615.6	34.0			
FH	(60°-80°)	18841.3	36.4			G5
FVH	(80°-90°)	1556.6	3.0			G5
BL	(0°-30°)	2726.3	5.3	B4/5000		
BM	(30°-60°)	3311.9	6.4	B3/5000		
BH	(60°-80°)	3373.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	189.0	0.4			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°	65°	66°	75°	85°
0°	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1
2.5°	11647.1	11629.2	11682.8	11738.3	11759.8	11795.5	11849.2	11879.6	11877.8	11883.2	11865.3
5°	10874.4	10851.2	10958.5	11046.1	11214.2	11403.8	11634.6	11799.1	11802.7	11895.7	11920.7
7.5°	10142.9	10126.8	10250.2	10391.5	10586.5	10876.2	11250.0	11604.1	11625.6	11877.8	11965.4
10°	9556.3	9552.7	9672.5	9826.3	10053.5	10377.2	10806.5	11325.1	11357.3	11791.9	11972.6
12.5°	9098.4	9105.5	9209.3	9384.5	9624.2	9962.3	10427.3	11012.1	11064.0	11656.0	11931.5
15°	8760.3	8789.0	8873.0	9050.1	9286.2	9629.6	10107.1	10722.4	10801.1	11504.0	11908.2
17.5°	8567.2	8599.4	8658.4	8805.1	9026.8	9357.7	9810.2	10484.5	10556.1	11387.7	11910.0
20°	8509.9	8536.8	8570.8	8660.2	8848.0	9148.5	9575.9	10269.9	10346.8	11294.7	11927.9
22.5°	8622.6	8642.3	8645.9	8638.7	8753.2	8998.2	9406.0	10112.5	10194.8	11233.9	11940.4
25°	8864.1	8890.9	8871.2	8805.1	8767.5	8917.7	9318.4	10008.8	10091.0	11189.2	11915.4
27.5°	9227.2	9230.7	9214.6	9128.8	8951.7	8926.7	9291.5	9947.9	10026.6	11137.3	11863.5
30°	9720.8	9744.0	9715.4	9599.2	9309.4	9069.8	9323.7	9888.9	9960.5	11071.2	11779.4
32.5°	10298.5	10355.7	10353.9	10232.3	9817.4	9389.9	9456.1	9853.2	9908.6	11001.4	11677.5
35°	10897.7	10976.4	11123.0	11071.2	10557.8	9896.1	9710.1	9910.4	9947.9	10992.5	11605.9
37.5°	11520.1	11598.8	11901.0	12040.6	11439.6	10620.4	10110.7	10112.5	10130.4	11101.6	11600.6
40°	12171.1	12255.2	12709.5	13072.6	12582.5	11538.0	10756.4	10534.6	10514.9	11369.8	11706.1
42.5°	13083.3	13158.4	13703.9	14167.1	13850.6	12713.1	11648.9	11185.6	11144.5	11895.7	12044.1
45°	14236.9	14301.3	14880.8	15376.2	15213.5	14054.5	12770.3	12081.7	12074.5	12772.1	12729.1
47.5°	15608.7	15658.8	16179.3	16658.6	16717.6	15598.0	14179.7	13464.2	13348.0	13974.0	13789.8
50°	17037.8	17093.2	17447.4	17962.5	18400.7	17663.8	15993.3	15158.0	15002.4	15560.4	15292.1
52.5°	17983.9	18057.3	18364.9	19017.7	20292.9	19928.1	18137.7	17211.3	16975.2	17483.1	17277.4
55°	17561.8	17726.4	18196.8	19243.1	21806.1	23387.1	20783.0	19606.1	19339.6	19761.7	19640.1
57.5°	15642.7	15868.1	16510.2	18125.2	22018.9	26434.8	24782.2	22426.7	22238.9	22117.3	22172.7
60°	12135.3	12351.8	13147.7	15252.8	20536.2	28659.8	30800.7	25903.6	25631.8	24481.7	24531.8
62.5°	8588.6	8479.5	9025.1	10565.0	16687.2	28920.9	37649.1	30553.9	29659.6	26978.6	26758.6
65°	6549.7	6524.6	6769.7	7259.7	10107.1	25796.3	41728.8	38369.9	36973.0	29915.4	29396.7
67.5°	5381.8	5337.0	5578.5	6292.1	6508.6	16642.5	41818.2	47437.9	46066.0	33571.2	32448.0
70°	4424.9	4374.8	4600.2	5521.3	6014.9	8440.2	35195.2	52748.1	52674.7	38200.0	34751.6
71°	3967.0	3931.2	4201.3	5224.4	5909.4	7034.4	30387.6	52762.4	52982.4	39766.7	34615.7
72.5°	3230.1	3242.7	3528.8	4650.2	5830.7	6211.7	22333.7	50303.1	50768.1	41260.2	33379.8
75°	2146.3	2157.0	2532.6	3577.1	5653.6	6077.5	12274.9	42209.9	43064.8	40365.9	30459.1
77.5°	1441.6	1438.0	1693.8	2453.9	4925.7	6077.5	7197.1	31569.8	32508.8	32118.9	23481.9
80°	992.6	985.5	1166.1	1693.8	3729.1	6150.8	5564.2	22124.4	22408.8	17345.4	9543.7
82.5°	608.1	613.5	761.9	1196.5	2538.0	5535.6	5253.0	12063.8	11754.4	4864.9	2384.1
85°	348.8	347.0	486.5	810.2	1629.4	4671.7	5122.4	5192.2	4762.9	1464.8	862.1
87.5°	125.2	134.1	261.1	448.9	933.6	3253.4	4346.2	2700.7	2434.2	661.8	389.9
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°	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1	11867.1
2.5°	11852.8	11863.5	11851.0	11779.4	11718.6	11620.2	11564.8	11487.9	11464.6	11453.9	11482.5
5°	11897.5	11901.0	11795.5	11607.7	11396.7	11148.1	10969.2	10749.2	10645.5	10600.8	10629.4
7.5°	11938.6	11922.5	11691.8	11332.3	10942.4	10509.6	10125.0	9772.7	9567.0	9482.9	9490.1
10°	11944.0	11876.0	11505.8	10949.5	10345.0	9710.1	9119.8	8576.1	8232.7	8009.2	8077.1
12.5°	11888.5	11774.1	11232.1	10454.1	9615.3	8749.6	7951.9	7136.3	6646.3	6419.1	6426.3
15°	11845.6	11638.1	10895.9	9871.0	8744.2	7597.8	6508.6	5549.9	5027.6	4795.1	4686.0
17.5°	11809.8	11491.5	10506.0	9214.6	7715.8	6261.7	4952.5	4097.6	3811.4	3743.4	3714.8
20°	11759.8	11335.9	10071.4	8454.5	6544.3	4766.5	3616.5	3194.4	3196.1	3274.8	3285.6
22.5°	11690.0	11158.8	9608.1	7601.4	5287.0	3471.6	2834.9	2713.2	2836.6	2986.9	3013.7
25°	11586.3	10949.5	9093.0	6658.8	4031.4	2668.5	2421.7	2416.3	2566.6	2724.0	2747.2
27.5°	11439.6	10675.9	8520.7	5646.5	2970.8	2267.9	2169.5	2207.1	2318.0	2432.4	2441.4
30°	11242.9	10357.5	7889.3	4578.7	2328.7	2019.3	2008.5	2042.5	2110.5	2191.0	2198.1
32.5°	11026.4	10033.8	7215.0	3544.9	1994.2	1885.1	1895.9	1912.0	1944.2	1976.4	1983.5
35°	10829.7	9702.9	6524.6	2693.6	1835.1	1797.5	1790.3	1786.8	1790.3	1779.6	1781.4
37.5°	10702.7	9429.3	5805.7	2144.5	1743.8	1720.6	1699.1	1672.3	1641.9	1624.0	1627.6
40°	10656.2	9225.4	5077.7	1852.9	1668.7	1652.6	1611.5	1554.3	1518.5	1507.8	1507.8
42.5°	10781.4	9119.8	4374.8	1706.3	1606.1	1579.3	1511.3	1445.2	1418.3	1416.5	1414.7
45°	11164.2	9162.8	3705.9	1625.8	1548.9	1497.0	1407.6	1352.1	1334.3	1337.8	1336.1
47.5°	11851.0	9432.8	3133.5	1572.1	1491.7	1423.7	1323.5	1278.8	1257.4	1257.4	1259.1
50°	13018.9	10064.2	2677.5	1527.4	1443.4	1355.7	1262.7	1207.3	1178.7	1176.9	1176.9
52.5°	14719.8	11194.6	2393.1	1489.9	1389.7	1294.9	1201.9	1132.2	1098.2	1091.0	1087.4
55°	16851.8	12815.0	2314.4	1464.8	1318.2	1228.7	1128.6	1058.8	1021.3	1005.2	1003.4
57.5°	19235.9	14786.0	2470.0	1434.4	1244.8	1150.0	1048.1	981.9	942.6	922.9	921.1
60°	21648.7	16937.6	3104.9	1391.5	1184.0	1064.2	965.8	905.0	865.7	844.2	840.6
62.5°	24065.0	19205.5	4401.6	1387.9	1141.1	981.9	881.8	829.9	792.3	769.1	763.7
65°	26790.8	21688.0	5875.4	1482.7	1126.8	906.8	795.9	754.8	722.6	701.1	699.3
67.5°	29920.7	24490.7	5734.1	1677.7	1175.1	838.8	715.4	683.2	660.0	642.1	640.3
70°	31389.1	24052.5	3564.6	1815.4	1243.0	772.7	638.5	615.3	597.4	584.9	579.5
71°	30773.9	22838.1	2988.7	1799.3	1235.9	744.0	608.1	590.2	572.3	561.6	556.2
72.5°	29096.2	20827.7	2493.2	1674.1	1155.4	692.2	568.8	550.9	534.8	522.3	518.7
75°	26109.3	18601.0	1996.0	1337.8	921.1	584.9	499.0	479.3	466.8	459.7	452.5
77.5°	19193.0	13274.7	1543.5	1057.0	677.9	477.5	425.7	411.4	398.8	388.1	382.8
80°	7352.8	5142.1	1039.2	788.8	497.2	377.4	343.4	336.2	323.7	316.6	316.6
82.5°	1979.9	1536.4	554.5	477.5	332.7	275.4	262.9	259.3	248.6	234.3	236.1
85°	801.3	677.9	311.2	262.9	203.9	162.8	177.1	178.9	166.3	148.5	150.2
87.5°	352.3	288.0	173.5	116.3	89.4	62.6	80.5	80.5	73.3	60.8	55.4
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)