

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: P319913

Luminaire Tested: **GAN-SA9A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319913
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-SA9A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 33107 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

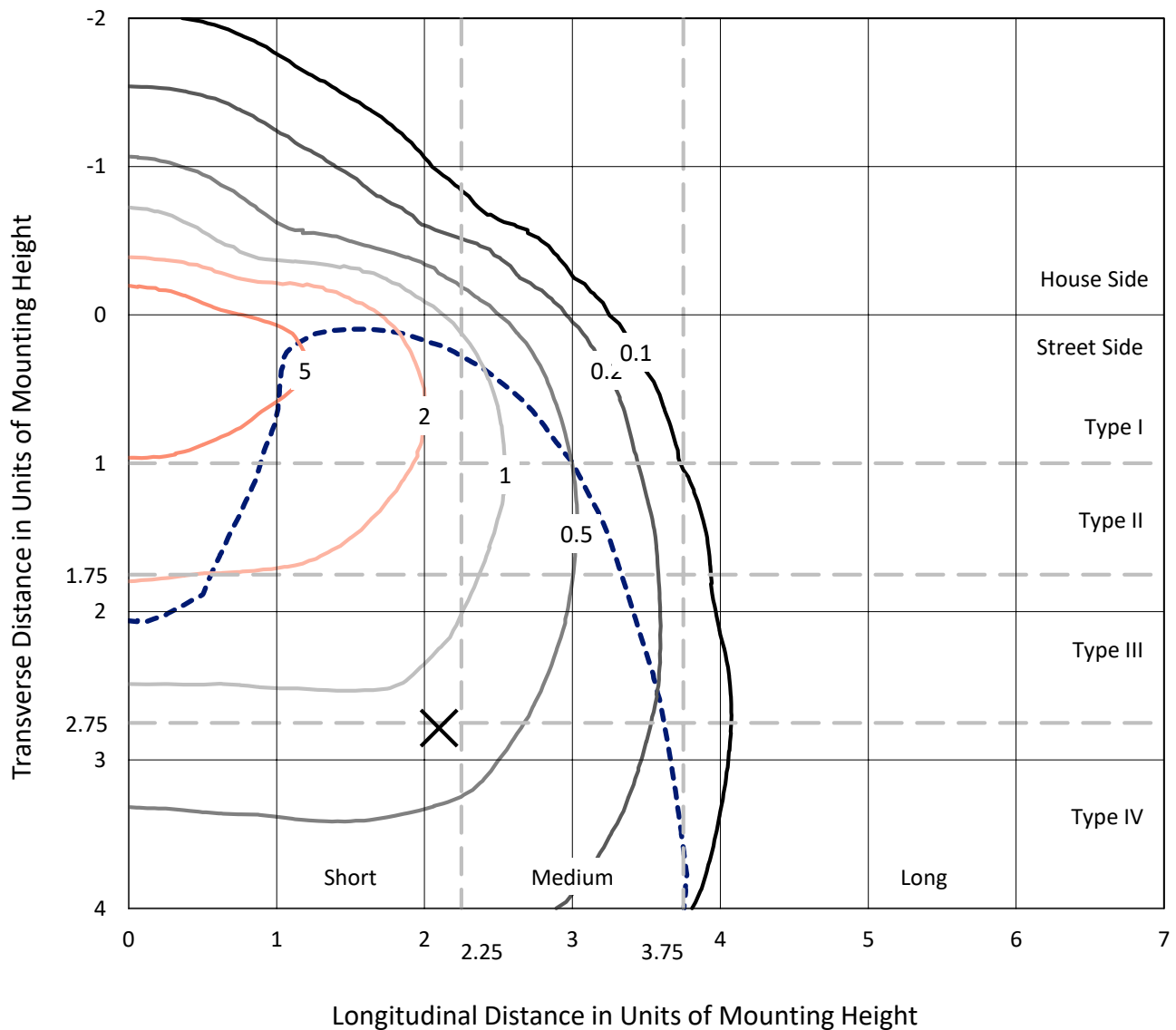
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

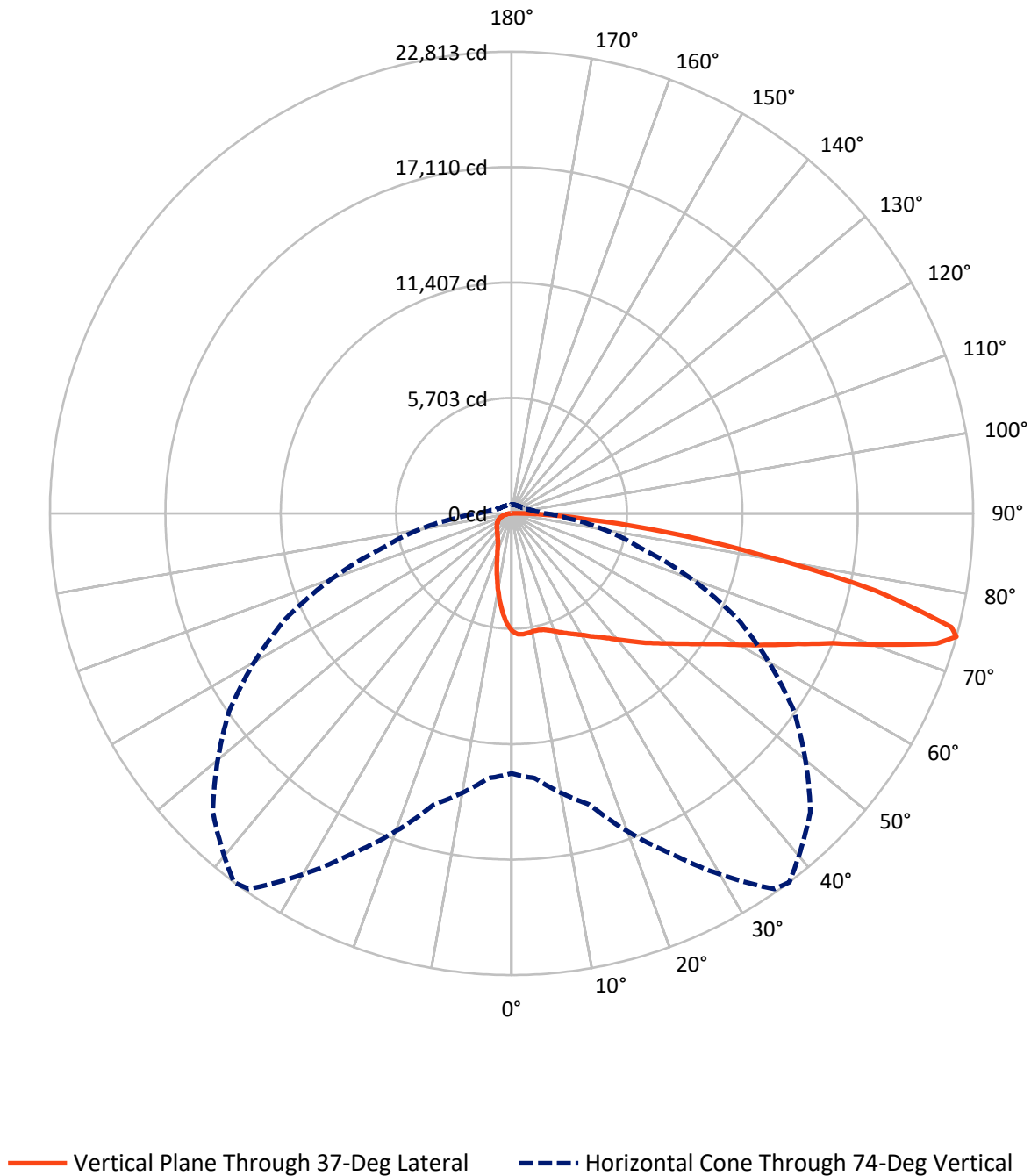
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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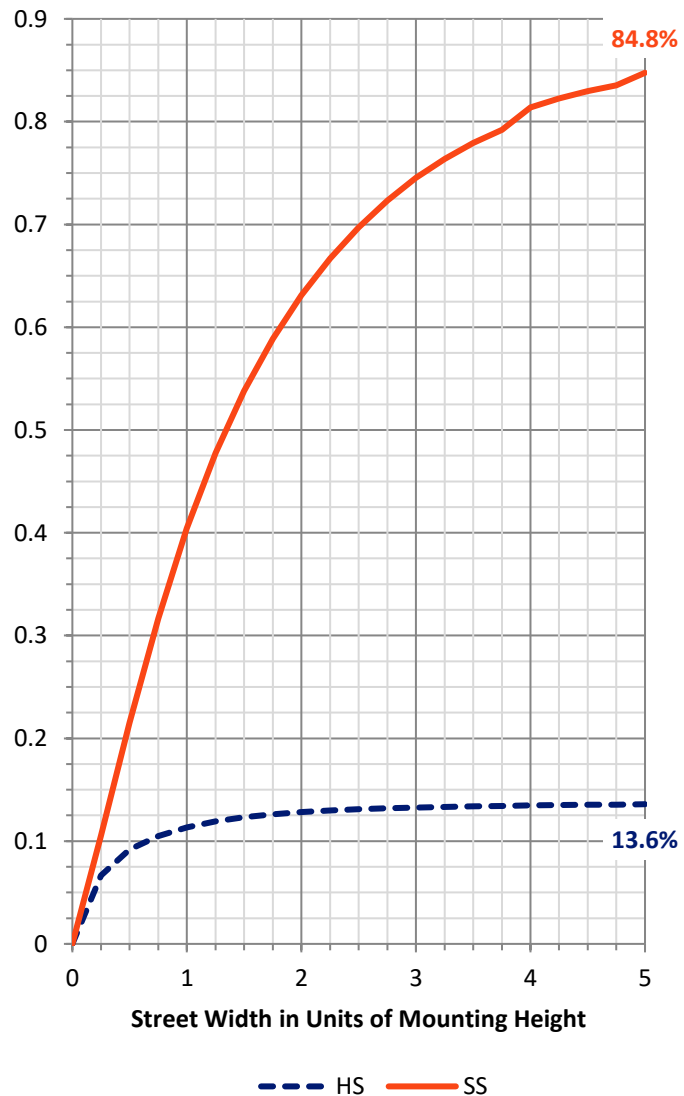
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4555.3	0.0	4555.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	28551.7	0.0	28551.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	33107.0	0.0	33107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.7	1.6
10°-20°	1316.7	4.0
20°-30°	2028.8	6.1
30°-40°	2950.2	8.9
40°-50°	4342.2	13.1
50°-60°	6097.8	18.4
60°-70°	7717.9	23.3
70°-80°	6795.9	20.5
80°-90°	1343.7	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°	33107.0	100.0
0°-180°	33107.0	100.0

Coefficient of Utilization



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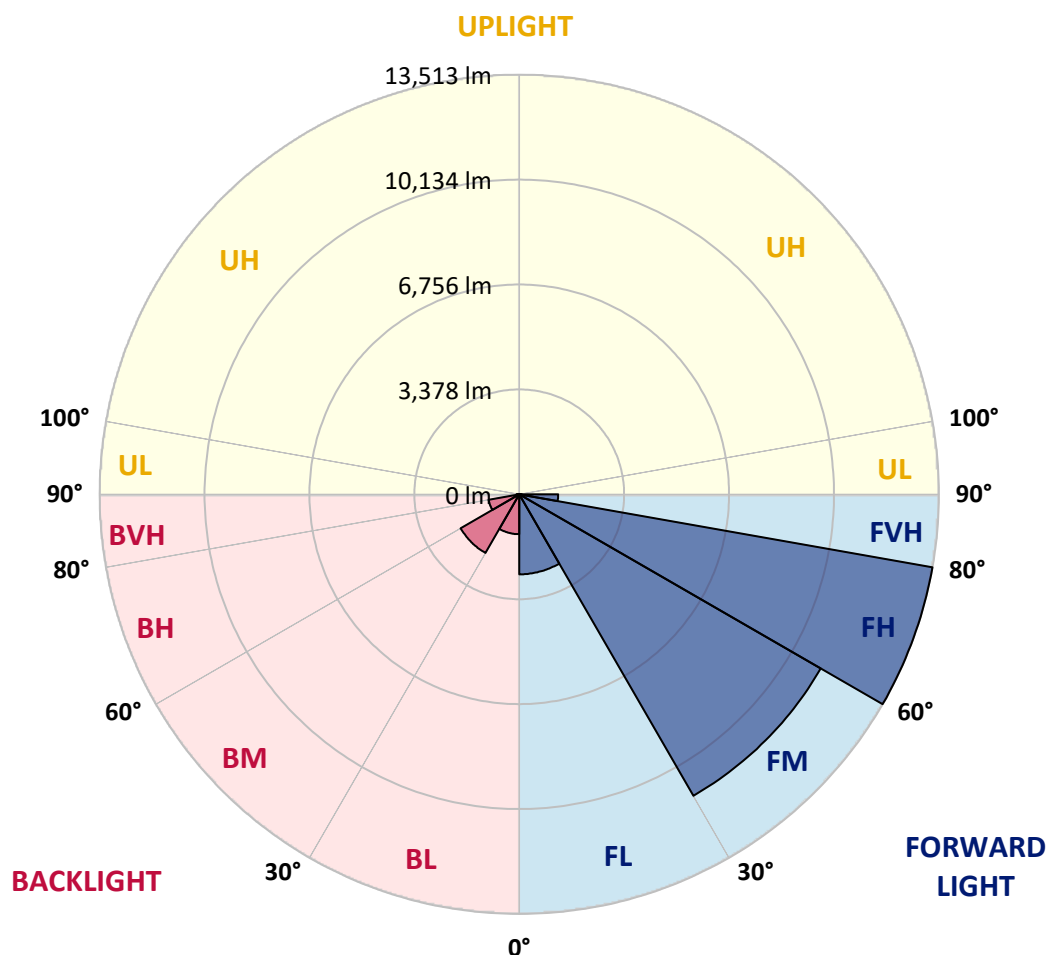
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2576.1	7.8			
FM	(30°-60°)	11210.3	33.9			
FH	(60°-80°)	13512.6	40.8			G5
FVH	(80°-90°)	1252.7	3.8			G5
BL	(0°-30°)	1283.1	3.9	B3/2500		
BM	(30°-60°)	2179.9	6.6	B2/2500		
BH	(60°-80°)	1001.3	3.0	B3/2500		G3/2500
BVH	(80°-90°)	91.0	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°	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3
2.5°	6032.7	6033.9	6032.7	6023.4	6001.3	5982.6	5967.4	5945.3	5896.3	5859.0	5803.0
5°	6089.9	6082.9	6078.2	6060.7	6025.7	6004.8	5975.6	5933.6	5853.2	5778.5	5687.6
7.5°	6063.1	6054.9	6044.4	6023.4	5983.8	5966.3	5925.5	5870.6	5773.8	5675.9	5545.3
10°	5980.3	5977.9	5973.3	5968.6	5934.8	5920.8	5883.5	5825.2	5729.5	5610.6	5457.8
12.5°	5888.1	5894.0	5912.6	5937.1	5922.0	5915.0	5891.6	5852.0	5754.0	5625.7	5441.5
15°	5829.8	5846.2	5896.3	5960.4	5973.3	5970.9	5965.1	5939.4	5835.7	5693.4	5478.8
17.5°	5810.0	5836.8	5932.5	6038.6	6075.9	6084.1	6086.4	6042.1	5926.6	5776.2	5517.3
20°	5846.2	5880.0	6019.9	6165.7	6225.2	6229.8	6219.3	6142.4	6012.9	5847.3	5538.3
22.5°	5955.8	5986.1	6161.0	6325.5	6393.1	6400.1	6368.6	6252.0	6103.9	5931.3	5567.4
25°	6166.9	6204.2	6379.1	6543.5	6578.5	6579.7	6534.2	6389.6	6222.8	6049.1	5630.4
27.5°	6442.1	6479.4	6636.8	6797.8	6779.1	6768.6	6706.8	6562.2	6377.9	6211.2	5742.4
30°	6748.8	6789.6	6938.9	7053.2	7008.9	6987.9	6937.7	6751.1	6593.7	6432.8	5913.8
32.5°	7066.0	7103.3	7233.9	7312.1	7256.1	7246.8	7171.0	7000.7	6874.7	6770.9	6191.3
35°	7391.4	7418.2	7546.5	7590.8	7516.1	7513.8	7492.8	7336.6	7257.3	7306.2	6594.9
37.5°	7723.7	7730.7	7840.4	7842.7	7820.5	7829.9	7852.0	7754.1	7776.2	7929.0	7119.6
40°	8019.9	8038.6	8117.9	8142.4	8180.9	8213.5	8324.3	8260.2	8431.6	8702.2	7772.7
42.5°	8239.2	8275.3	8402.5	8465.4	8590.2	8641.5	8797.8	8857.3	9202.5	9608.3	8549.4
45°	8424.6	8480.6	8684.7	8814.1	9025.2	9115.0	9338.9	9538.3	10073.6	10591.4	9366.9
47.5°	8625.2	8696.3	8951.7	9199.0	9485.9	9587.3	9994.3	10292.9	11003.1	11580.4	10137.8
50°	8920.3	8975.1	9224.6	9613.0	9971.0	10101.6	10664.9	11092.9	11947.7	12522.6	10806.0
52.5°	9331.9	9310.9	9522.0	10066.6	10547.1	10708.0	11380.9	11944.2	12905.2	13375.1	11370.4
55°	9745.9	9710.9	9859.0	10541.3	11218.8	11387.9	12169.3	12799.0	13816.0	14142.5	11803.1
57.5°	10206.6	10140.1	10264.9	11076.6	11983.9	12185.6	13052.1	13707.5	14711.6	14762.9	12078.3
60°	10681.2	10591.4	10731.4	11740.1	12955.3	13193.2	14085.3	14593.8	15555.9	15259.7	12166.9
62.5°	11096.4	11033.4	11249.2	12480.7	14050.4	14311.6	15099.9	15536.1	16388.6	15466.1	11847.4
65°	11459.1	11469.6	11842.7	13313.3	15271.4	15550.1	16263.8	16697.6	17044.0	15343.7	11099.9
67.5°	11891.7	11951.2	12587.9	14409.5	16808.4	17114.0	17957.1	17964.1	17410.2	14625.3	9628.1
70°	12522.6	12645.1	13613.0	15930.3	18993.9	19413.7	20064.4	18708.2	16895.9	12677.7	7575.6
72.5°	13082.4	13311.0	14703.4	17670.2	21657.5	21975.8	21297.1	18279.0	14746.6	9501.0	4719.6
74°	12855.0	13138.4	14901.7	18527.4	22660.4	22813.2	20880.8	17026.5	12295.2	6579.7	2742.9
75°	12365.2	12673.1	14612.5	18519.2	22533.3	22448.2	19875.5	15595.6	10126.1	4487.5	1825.1
77.5°	9979.2	10304.5	12312.7	15872.0	18476.1	18395.6	15267.9	10462.0	4435.1	1471.7	927.1
80°	5801.8	6050.2	7643.3	10079.5	12458.5	12604.3	10041.0	5176.8	1744.6	826.8	628.6
82.5°	2577.3	2748.7	3692.2	5145.3	7518.5	7706.2	5258.4	2712.6	1077.6	502.6	377.8
85°	1691.0	1818.1	2241.4	2450.2	3580.2	3708.5	2573.8	2112.0	711.4	276.4	277.6
87.5°	1216.3	1338.8	1665.3	1454.2	1643.2	1555.7	1400.6	1954.5	285.7	157.4	93.3
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°	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3
2.5°	5778.5	5759.9	5717.9	5638.6	5594.3	5556.9	5495.1	5459.0	5442.6	5441.5	5448.5
5°	5635.1	5591.9	5483.5	5350.5	5244.4	5147.6	5027.5	4955.2	4903.9	4873.5	4881.7
7.5°	5468.3	5400.7	5230.4	5018.2	4847.9	4660.1	4474.7	4363.9	4277.6	4213.5	4225.1
10°	5354.0	5260.7	5012.3	4706.8	4423.4	4150.5	3895.1	3742.3	3621.0	3527.8	3534.7
12.5°	5315.5	5189.6	4845.6	4437.4	4039.7	3666.5	3333.0	3098.6	2973.8	2867.7	2875.8
15°	5321.4	5152.3	4705.6	4194.8	3694.5	3224.5	2819.9	2545.8	2376.7	2303.2	2304.4
17.5°	5326.0	5109.1	4558.7	3934.8	3352.8	2811.7	2372.0	2094.5	1934.7	1867.1	1868.3
20°	5310.9	5039.1	4376.7	3636.2	2996.0	2432.7	2007.0	1771.5	1650.2	1597.7	1597.7
22.5°	5291.0	4956.3	4171.5	3336.5	2643.8	2103.8	1745.8	1566.2	1496.2	1461.2	1460.1
25°	5300.4	4894.5	3961.6	3028.6	2319.6	1841.4	1572.0	1453.1	1406.4	1384.3	1383.1
27.5°	5350.5	4865.4	3768.0	2721.9	2036.2	1644.3	1455.4	1371.4	1341.1	1327.1	1327.1
30°	5441.5	4865.4	3566.2	2460.7	1800.6	1498.6	1365.6	1308.5	1287.5	1278.2	1278.2
32.5°	5600.1	4892.2	3371.5	2201.8	1612.9	1384.3	1291.0	1252.5	1236.2	1231.5	1231.5
35°	5873.0	4983.2	3181.4	1956.9	1461.2	1291.0	1219.8	1197.7	1186.0	1184.9	1188.4
37.5°	6256.7	5168.6	3003.0	1776.1	1354.0	1215.2	1160.4	1142.9	1135.9	1141.7	1146.4
40°	6739.5	5420.5	2840.9	1612.9	1272.3	1154.5	1105.6	1093.9	1090.4	1098.6	1105.6
42.5°	7322.6	5761.0	2707.9	1495.1	1209.3	1103.2	1058.9	1044.9	1041.4	1050.7	1060.1
45°	7953.5	6127.2	2614.6	1407.6	1160.4	1064.7	1018.1	1002.9	995.9	1000.6	1011.1
47.5°	8527.2	6473.6	2577.3	1345.8	1113.7	1032.1	981.9	963.3	951.6	949.3	957.4
50°	9011.2	6731.3	2594.8	1308.5	1076.4	995.9	947.0	926.0	908.5	898.0	903.8
52.5°	9363.4	6893.4	2611.1	1292.1	1047.2	956.3	908.5	888.6	865.3	847.8	847.8
55°	9618.8	6930.7	2575.0	1279.3	1025.1	913.1	865.3	846.7	823.3	803.5	801.2
57.5°	9719.1	6825.8	2440.9	1260.7	1009.9	872.3	819.8	805.8	786.0	762.7	761.5
60°	9583.8	6501.6	2182.0	1221.0	990.1	838.5	774.4	765.0	755.7	733.5	732.4
62.5°	9040.4	5790.2	1847.3	1140.5	950.5	802.3	732.4	737.0	738.2	723.0	720.7
65°	8054.9	4812.9	1520.7	1035.6	891.0	759.2	689.2	711.4	724.2	721.9	718.4
67.5°	6622.8	3745.8	1288.6	924.8	812.8	699.7	642.6	668.2	678.7	686.9	684.6
70°	4915.5	2641.4	1065.9	808.2	718.4	629.7	581.9	594.8	587.8	597.1	600.6
72.5°	2740.6	1584.9	868.8	691.6	620.4	548.1	514.3	512.0	496.8	496.8	496.8
74°	1644.3	1162.7	763.9	619.3	560.9	494.5	465.3	454.8	440.8	442.0	440.8
75°	1322.5	999.4	700.9	571.4	519.0	463.0	433.8	419.8	409.3	409.3	408.2
77.5°	835.0	759.2	564.4	454.8	415.2	381.3	361.5	342.9	342.9	341.7	340.5
80°	630.9	604.1	439.7	344.0	318.4	292.7	279.9	271.7	271.7	275.2	274.1
82.5°	432.7	454.8	309.0	240.2	227.4	208.7	206.4	207.6	204.1	199.4	198.3
85°	316.0	341.7	208.7	151.6	138.8	127.1	136.4	141.1	135.3	124.8	120.1
87.5°	121.3	223.9	112.0	63.0	58.3	50.1	58.3	60.6	65.3	51.3	52.5
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)