

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: P319624

Luminaire Tested: **GAN-SA0D-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319624
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-SA0D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA 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: 64232 lumens
Efficiency: N/A
Efficacy: 100.4 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): 640
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

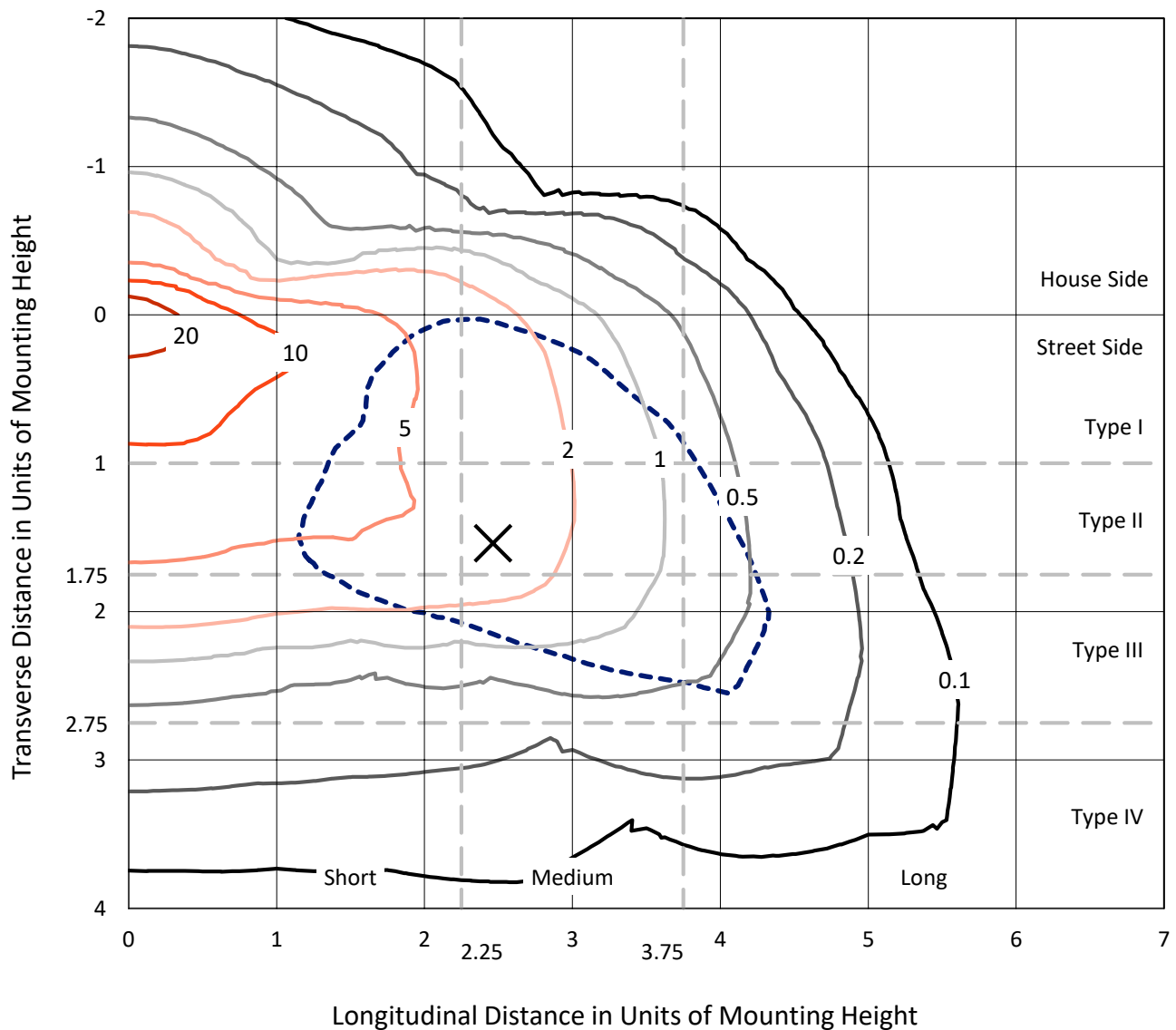


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Iso-Footcandle Lines of Horizontal Illumination

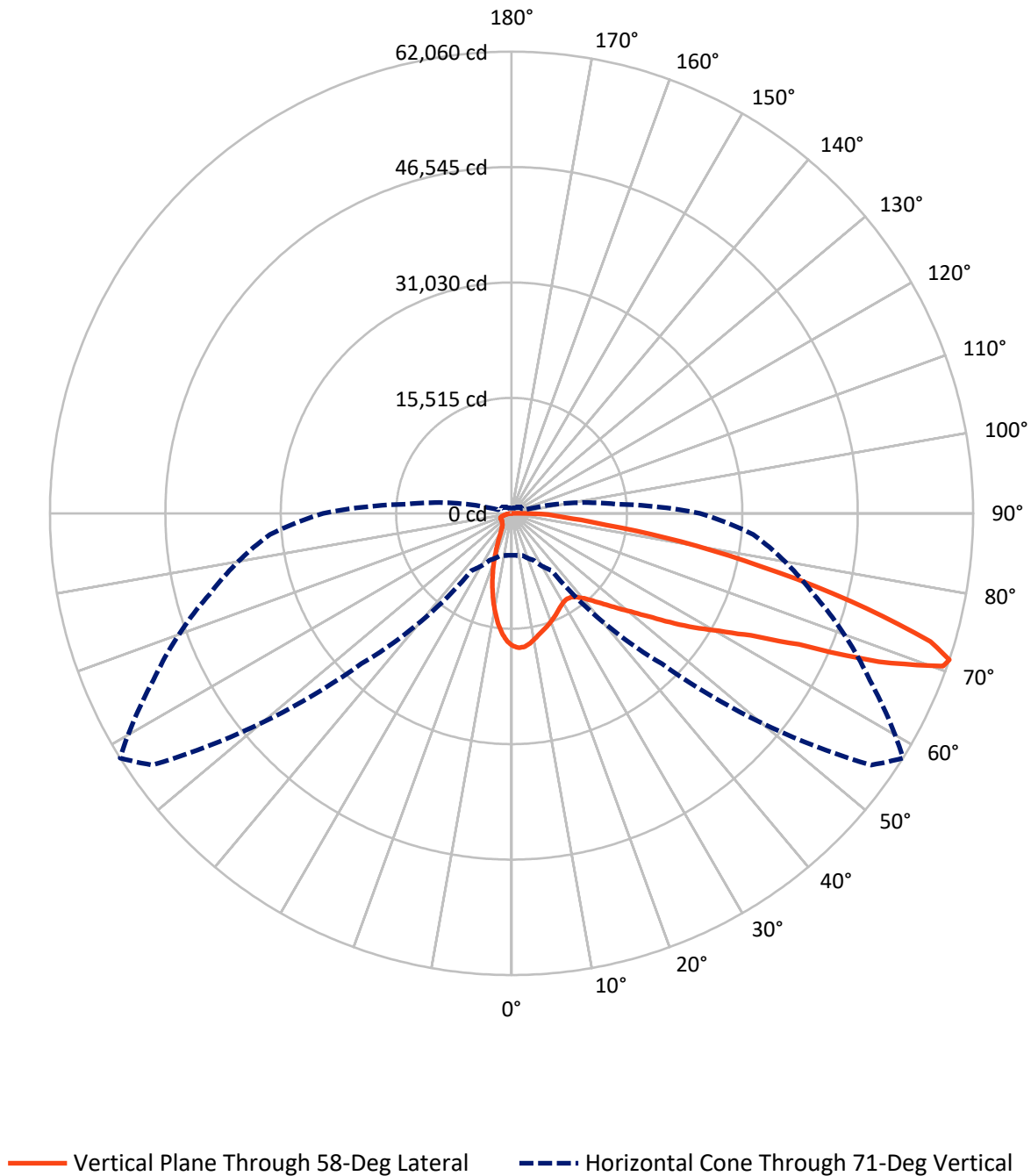
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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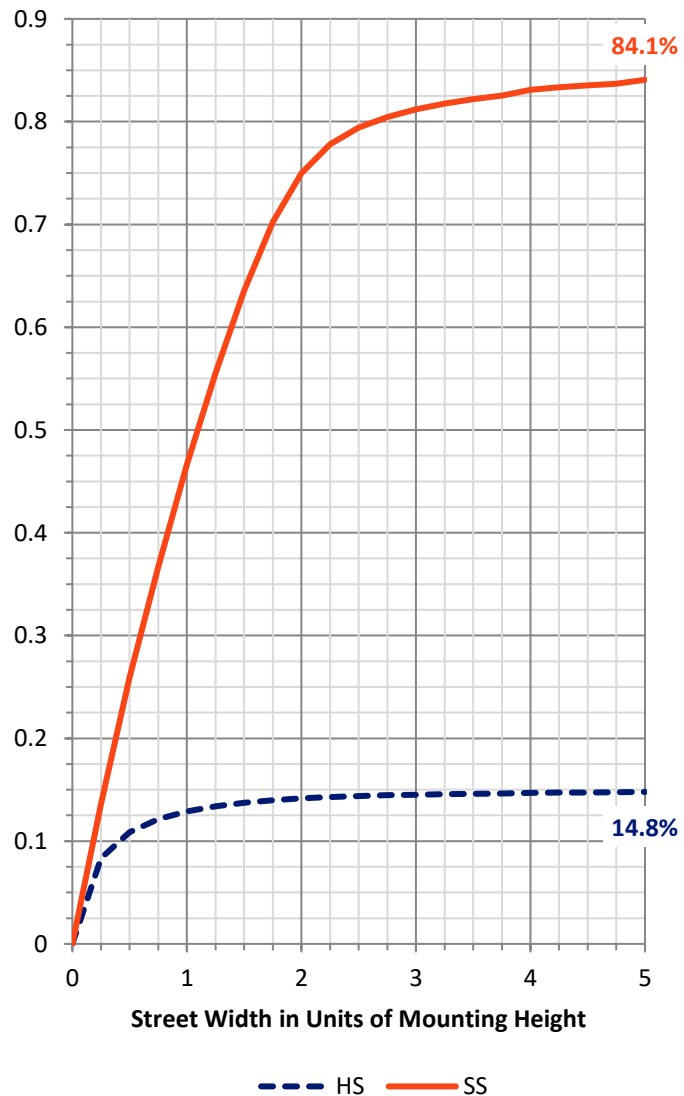
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9603.1	0.0	9603.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	54628.9	0.0	54628.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	64232.0	0.0	64232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1535.3	2.4
10°-20°	3413.9	5.3
20°-30°	4338.8	6.8
30°-40°	5526.7	8.6
40°-50°	7837.2	12.2
50°-60°	12128.3	18.9
60°-70°	16511.2	25.7
70°-80°	11014.9	17.1
80°-90°	1925.8	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°	64232.0	100.0
0°-180°	64232.0	100.0

Coefficient of Utilization



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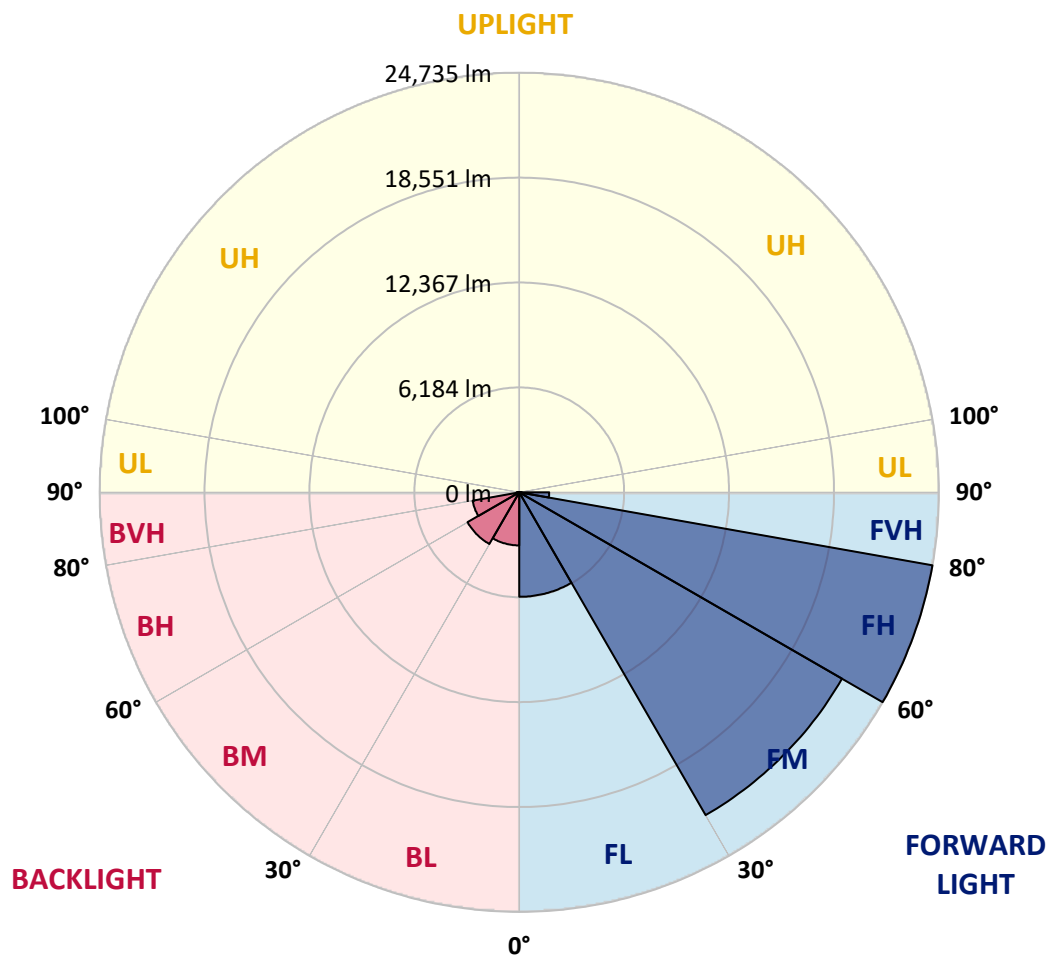
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6157.7	9.6			
FM	(30°-60°)	21970.5	34.2			
FH	(60°-80°)	24735.0	38.5			G5
FVH	(80°-90°)	1765.8	2.7			G5
BL	(0°-30°)	3130.3	4.9	B4/5000		
BM	(30°-60°)	3521.7	5.5	B3/5000		
BH	(60°-80°)	2791.1	4.3	B4/5000		G4/5000
BVH	(80°-90°)	160.0	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°	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6
2.5°	18268.7	18244.0	18253.0	18235.1	18192.6	18150.1	18087.4	18098.6	18011.4	17881.6	17720.5
5°	17924.1	17915.1	17982.3	18020.3	18051.6	18027.0	18009.1	18031.5	17904.0	17725.0	17445.3
7.5°	17201.4	17103.0	17188.0	17315.5	17436.3	17528.1	17648.9	17664.5	17584.0	17396.1	17029.1
10°	16174.4	16080.4	16205.7	16404.9	16646.5	16865.8	17109.7	17154.4	17170.1	17000.0	16554.8
12.5°	15109.4	15037.8	15163.1	15442.8	15843.3	16181.1	16570.4	16637.6	16776.3	16662.2	16116.2
15°	14156.3	14129.4	14281.5	14556.8	15017.7	15534.5	16096.1	16219.2	16454.1	16416.1	15773.9
17.5°	13332.9	13326.2	13442.5	13731.1	14241.3	14894.6	15624.0	15832.1	16181.1	16225.9	15492.0
20°	12719.8	12706.4	12786.9	12999.5	13525.3	14265.9	15113.9	15400.3	15903.7	16060.3	15201.1
22.5°	12390.9	12388.7	12390.9	12491.6	12921.2	13610.3	14617.2	14966.2	15633.0	15928.3	14878.9
25°	12335.0	12328.3	12279.0	12267.9	12511.7	13062.1	14124.9	14509.8	15375.7	15836.6	14572.4
27.5°	12480.4	12489.4	12424.5	12319.3	12368.5	12701.9	13697.6	14109.3	15169.8	15818.7	14359.9
30°	12782.5	12778.0	12722.1	12612.4	12516.2	12567.7	13393.3	13805.0	15031.1	15897.0	14214.4
32.5°	13115.8	13140.5	13129.3	13068.9	12925.7	12719.8	13301.6	13704.3	14990.8	16084.9	14151.8
35°	13516.3	13543.2	13623.7	13670.7	13502.9	13171.8	13498.4	13847.5	15107.2	16438.4	14252.5
37.5°	13896.7	13966.1	14192.1	14391.2	14248.0	13878.8	14022.0	14270.4	15467.4	16995.6	14523.2
40°	14335.2	14395.7	14764.8	15187.7	15165.3	14782.7	14865.5	15031.1	16102.8	17794.3	15013.2
42.5°	14767.1	14887.9	15422.6	16022.3	16194.6	15856.7	15988.7	16076.0	16997.8	18852.6	15867.9
45°	15342.1	15471.9	16214.7	16937.4	17340.1	17149.9	17360.3	17393.8	18123.2	20293.5	17109.7
47.5°	16212.5	16360.1	17226.0	17984.5	18599.8	18619.9	18966.7	18953.3	19528.3	21942.5	18673.6
50°	17568.3	17780.9	18490.2	19199.4	19946.7	20362.9	20826.0	20761.2	21213.1	23698.9	20474.8
52.5°	19344.9	19443.3	19969.1	20492.7	21421.2	22354.2	23018.7	22960.6	23123.9	25504.5	22519.8
55°	21186.3	21260.1	21477.1	21763.5	23012.0	24533.5	25938.6	25846.8	25432.9	27379.5	24540.2
57.5°	22842.0	22991.9	23141.8	23260.4	24614.0	26811.2	28925.6	28932.3	27938.9	29402.1	26627.7
60°	23099.3	23231.3	24222.5	25157.7	27354.9	29849.6	32122.9	32055.7	30532.0	31597.1	28954.6
62.5°	20418.8	20716.4	22372.1	24860.1	29995.1	35407.4	36201.7	36118.9	33633.1	34302.1	31664.2
65°	14632.8	14970.7	16968.7	20707.5	28715.2	41531.3	43562.9	42448.6	37861.9	37629.2	34836.9
67.5°	8441.8	8522.4	9388.3	12390.9	21864.2	41851.2	54792.5	53233.1	44428.7	41403.7	36389.6
70°	6242.4	6240.2	6446.1	7625.2	11831.6	34156.7	60133.3	61531.7	51342.4	42645.5	34194.7
71°	5645.0	5651.8	5882.2	6940.5	9370.4	28589.9	58998.9	62059.7	53163.7	42032.5	32606.1
72.5°	4828.4	4850.8	5170.7	6224.5	7882.5	19716.3	54112.4	58891.5	54027.3	40519.9	30120.3
75°	3662.7	3714.1	4157.2	5246.8	7204.5	9999.1	39714.5	47026.4	47995.2	35754.2	22381.1
77.5°	2613.3	2671.5	3172.7	4412.2	6848.8	7535.7	26596.4	34302.1	35320.1	22913.6	10095.3
80°	1651.2	1720.6	2098.7	3510.5	6434.9	7155.3	16713.6	23056.8	19259.8	7332.1	2568.6
82.5°	968.8	1022.5	1302.2	2293.4	5255.7	6891.3	9833.5	12780.2	7495.4	2215.1	1167.9
85°	561.6	586.2	812.2	1461.0	3817.1	6504.2	7224.7	7144.1	3253.2	1082.9	552.6
87.5°	261.8	290.9	481.0	763.0	2118.9	4714.3	5709.9	4933.5	2022.6	507.9	259.5
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°	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6	17796.6
2.5°	17642.2	17604.1	17445.3	17304.3	17156.7	16964.2	16751.7	16724.8	16595.1	16619.7	16574.9
5°	17293.1	17196.9	16814.3	16467.5	16058.1	15691.1	15292.9	15109.4	14845.4	14827.5	14760.4
7.5°	16794.2	16615.2	16022.3	15364.5	14706.7	14080.2	13460.4	13053.2	12637.0	12460.3	12444.6
10°	16232.6	15928.3	15055.7	14082.4	13133.7	12218.6	11332.6	10677.0	10086.4	9806.7	9795.5
12.5°	15700.1	15250.4	14053.3	12728.8	11431.1	10245.2	9030.3	8168.9	7428.3	7179.9	7074.8
15°	15248.1	14614.9	13077.8	11384.1	9808.9	8162.2	6779.4	5873.3	5188.6	4951.4	4906.7
17.5°	14809.6	13995.2	12077.7	10025.9	8121.9	6311.8	4926.8	4253.4	3888.7	3792.5	3790.2
20°	14373.3	13357.5	11032.8	8636.5	6490.8	4721.0	3788.0	3485.9	3362.9	3351.7	3333.8
22.5°	13878.8	12681.8	9934.2	7242.6	5065.6	3711.9	3219.7	3098.8	3083.2	3123.5	3123.5
25°	13415.7	12010.6	8820.0	5877.7	3940.1	3096.6	2875.1	2850.5	2893.0	2964.6	2971.3
27.5°	12983.8	11363.9	7732.6	4665.1	3157.0	2727.4	2635.7	2664.8	2740.9	2823.6	2825.9
30°	12628.1	10753.1	6676.5	3676.1	2667.0	2452.2	2436.6	2494.7	2577.5	2642.4	2658.1
32.5°	12352.9	10231.8	5656.2	2955.7	2347.1	2246.4	2259.8	2309.0	2360.5	2396.3	2420.9
35°	12225.3	9784.3	4714.3	2492.5	2143.5	2087.5	2105.4	2132.3	2154.6	2181.5	2201.6
37.5°	12247.7	9437.5	3873.0	2203.9	2007.0	1977.9	1977.9	1977.9	1977.9	1991.3	1993.6
40°	12455.8	9238.4	3188.3	2020.4	1915.2	1883.9	1859.3	1836.9	1819.0	1828.0	1823.5
42.5°	12988.3	9220.5	2687.2	1904.1	1841.4	1789.9	1740.7	1709.4	1687.0	1696.0	1700.5
45°	13892.2	9444.2	2349.3	1821.3	1772.0	1693.7	1631.1	1597.5	1581.9	1611.0	1615.4
47.5°	15062.4	9932.0	2143.5	1760.9	1707.2	1604.2	1537.1	1505.8	1510.3	1552.8	1564.0
50°	16570.4	10724.0	2045.0	1722.8	1662.4	1528.2	1458.8	1432.0	1445.4	1505.8	1519.2
52.5°	18226.1	11865.1	2056.2	1711.6	1633.3	1472.2	1398.4	1367.1	1389.4	1445.4	1456.6
55°	20136.9	13236.7	2241.9	1727.3	1590.8	1436.4	1349.2	1295.5	1313.4	1364.8	1373.8
57.5°	22260.2	14807.3	2615.6	1722.8	1537.1	1402.9	1297.7	1217.2	1230.6	1261.9	1270.9
60°	24470.8	16704.7	3195.1	1736.2	1512.5	1362.6	1228.4	1127.7	1123.2	1150.0	1154.5
62.5°	27124.4	18899.6	3857.3	1745.2	1528.2	1311.1	1136.6	1038.2	1024.7	1031.5	1035.9
65°	29858.6	20488.2	3609.0	1709.4	1577.4	1268.6	1056.1	950.9	926.3	921.8	924.1
67.5°	29943.6	18785.5	2530.5	1637.8	1597.5	1246.3	995.7	877.1	836.8	821.1	818.9
70°	26853.7	15261.5	1971.2	1561.7	1517.0	1210.5	939.7	816.7	756.3	731.6	729.4
71°	25345.7	14048.9	1868.3	1523.7	1456.6	1174.7	915.1	789.8	727.2	700.3	695.8
72.5°	22980.7	12594.5	1743.0	1463.3	1340.2	1082.9	868.1	751.8	686.9	655.6	648.9
75°	16492.1	8236.0	1496.8	1304.4	1109.8	863.6	760.7	675.7	619.8	581.7	577.3
77.5°	6354.3	3277.8	1132.1	1085.2	850.2	675.7	626.5	584.0	543.7	505.7	503.4
80°	1964.5	1465.5	825.6	816.7	615.3	503.4	487.8	476.6	460.9	420.6	411.7
82.5°	1049.4	841.3	568.3	528.0	402.7	335.6	353.5	358.0	360.2	317.7	313.2
85°	501.2	445.2	320.0	299.8	234.9	187.9	217.0	234.9	237.2	194.7	181.2
87.5°	239.4	232.7	149.9	114.1	87.3	62.6	76.1	94.0	102.9	73.8	64.9
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)