

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: P319793

Luminaire Tested: **GAN-SA9A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319793
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-SA9A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 30629 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: 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

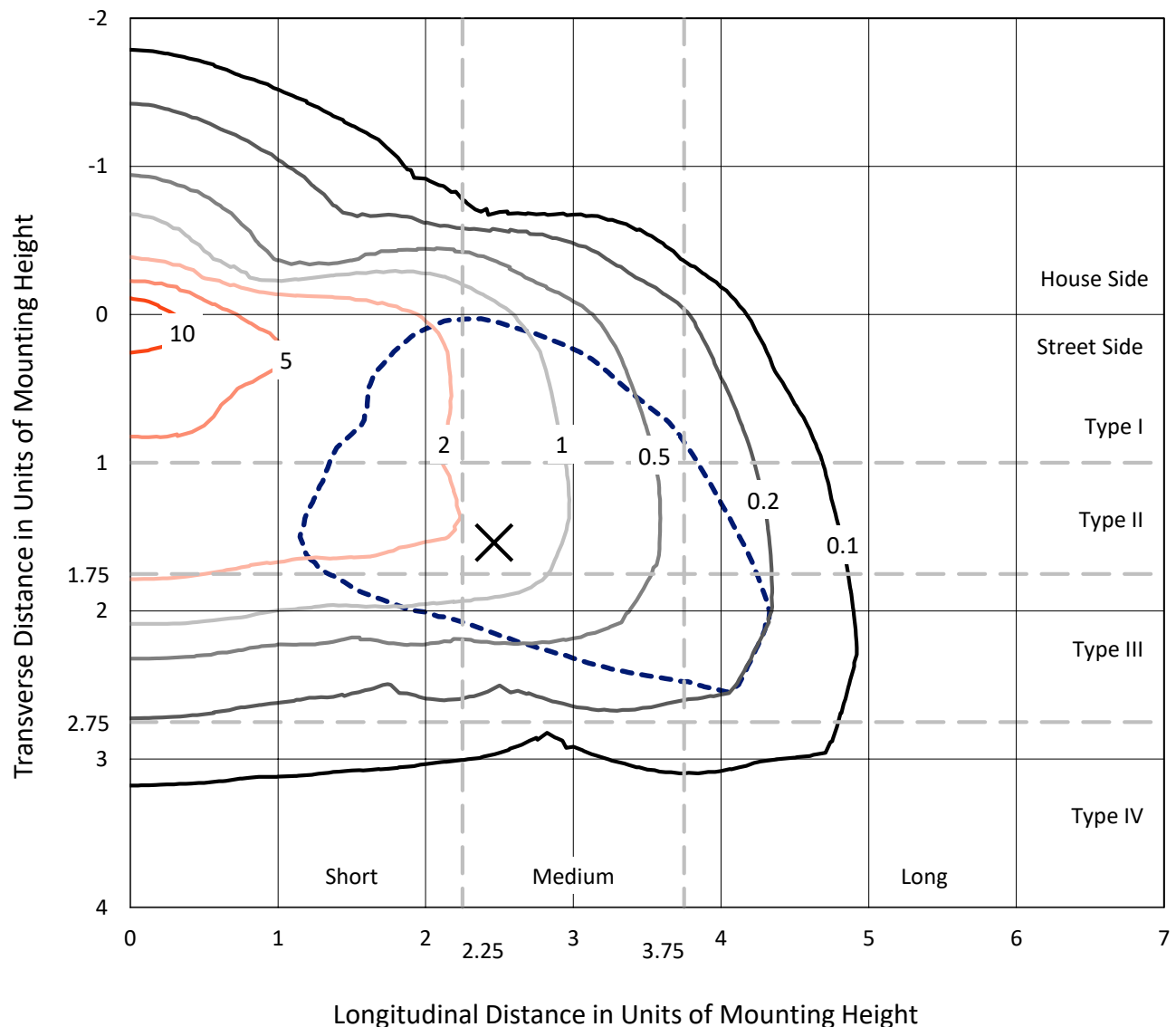


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Iso-Footcandle Lines of Horizontal Illumination

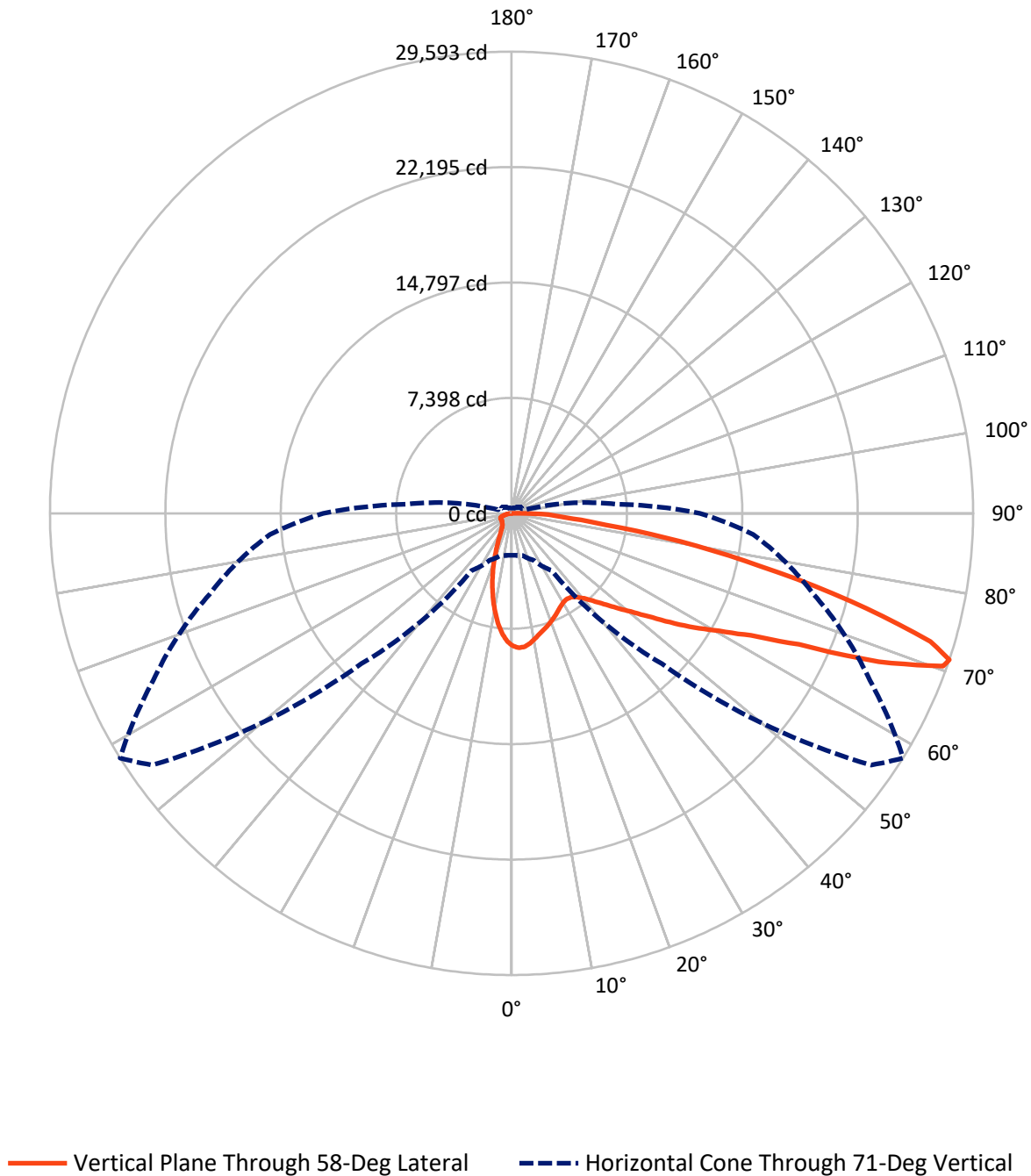
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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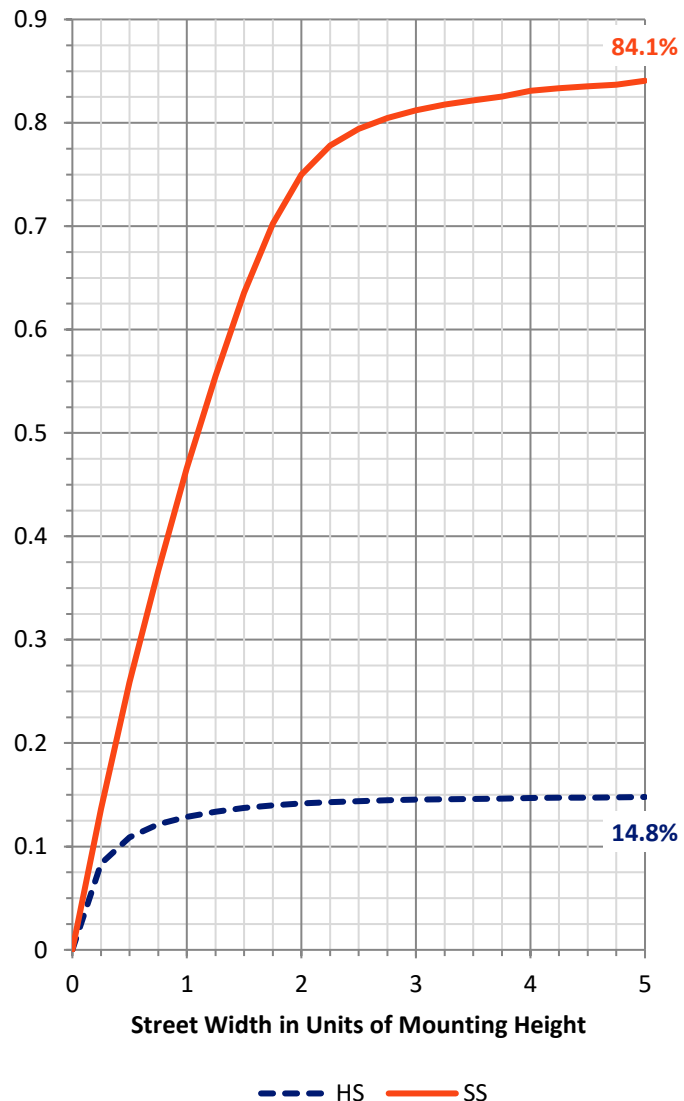
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4579.3	0.0	4579.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26049.8	0.0	26049.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	30629.0	0.0	30629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.1	2.4
10°-20°	1627.9	5.3
20°-30°	2068.9	6.8
30°-40°	2635.4	8.6
40°-50°	3737.2	12.2
50°-60°	5783.4	18.9
60°-70°	7873.3	25.7
70°-80°	5252.4	17.1
80°-90°	918.3	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°	30629.0	100.0
0°-180°	30629.0	100.0

Coefficient of Utilization



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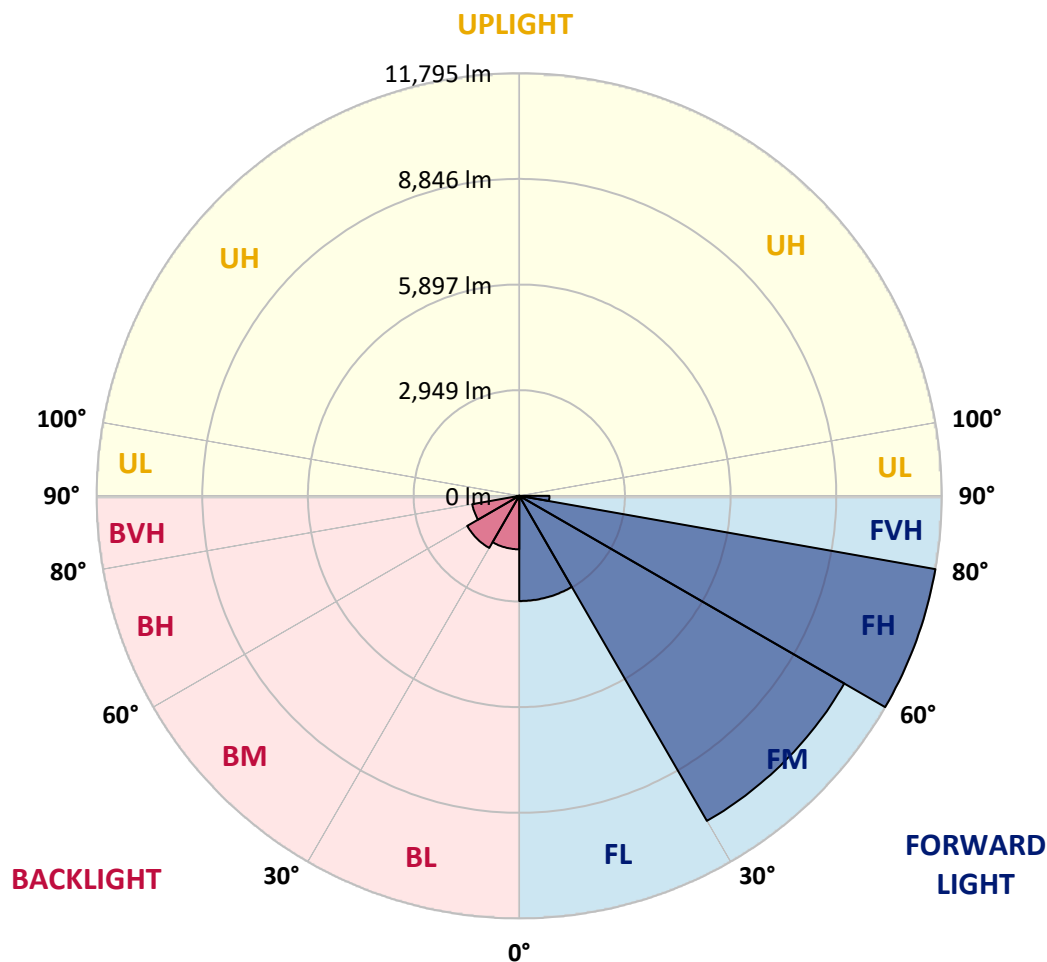
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2936.3	9.6			
FM	(30°-60°)	10476.6	34.2			
FH	(60°-80°)	11794.8	38.5			G4/12000
FVH	(80°-90°)	842.0	2.7			G5
BL	(0°-30°)	1492.7	4.9	B3/2500		
BM	(30°-60°)	1679.3	5.5	B2/2500		
BH	(60°-80°)	1330.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	76.3	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3
2.5°	8711.4	8699.7	8703.9	8695.4	8675.1	8654.9	8625.0	8630.3	8588.7	8526.8	8450.0
5°	8547.1	8542.8	8574.8	8593.0	8607.9	8596.2	8587.6	8598.3	8537.5	8452.1	8318.8
7.5°	8202.5	8155.5	8196.1	8256.9	8314.5	8358.3	8415.9	8423.3	8384.9	8295.3	8120.3
10°	7712.8	7668.0	7727.7	7822.7	7937.9	8042.4	8158.7	8180.1	8187.5	8106.5	7894.1
12.5°	7204.9	7170.8	7230.5	7363.9	7554.9	7716.0	7901.6	7933.6	7999.8	7945.4	7685.0
15°	6750.4	6737.6	6810.1	6941.4	7161.2	7407.6	7675.4	7734.1	7846.1	7828.0	7521.8
17.5°	6357.8	6354.6	6410.1	6547.7	6790.9	7102.5	7450.3	7549.5	7716.0	7737.3	7387.4
20°	6065.4	6059.0	6097.4	6198.8	6449.5	6802.7	7207.0	7343.6	7583.7	7658.4	7248.7
22.5°	5908.6	5907.5	5908.6	5956.6	6161.5	6490.1	6970.2	7136.6	7454.6	7595.4	7095.0
25°	5881.9	5878.7	5855.3	5849.9	5966.2	6228.7	6735.5	6919.0	7331.9	7551.7	6948.8
27.5°	5951.3	5955.5	5924.6	5874.5	5897.9	6056.9	6531.7	6728.0	7233.7	7543.1	6847.5
30°	6095.3	6093.2	6066.5	6014.2	5968.3	5992.9	6386.6	6582.9	7167.6	7580.5	6778.1
32.5°	6254.3	6266.0	6260.7	6231.9	6163.6	6065.4	6342.8	6534.9	7148.4	7670.1	6748.3
35°	6445.3	6458.1	6496.5	6518.9	6438.9	6281.0	6436.7	6603.2	7203.8	7838.7	6796.3
37.5°	6626.6	6659.7	6767.5	6862.4	6794.1	6618.1	6686.4	6804.8	7375.6	8104.3	6925.4
40°	6835.8	6864.6	7040.6	7242.3	7231.6	7049.1	7088.6	7167.6	7678.6	8485.2	7159.0
42.5°	7041.7	7099.3	7354.3	7640.2	7722.4	7561.3	7624.2	7665.8	8105.4	8989.9	7566.6
45°	7315.9	7377.8	7732.0	8076.6	8268.6	8177.9	8278.2	8294.2	8642.1	9677.0	8158.7
47.5°	7730.9	7801.3	8214.2	8575.9	8869.3	8878.9	9044.3	9037.9	9312.1	10463.3	8904.5
50°	8377.5	8478.8	8817.0	9155.2	9511.6	9710.0	9930.9	9899.9	10115.5	11300.8	9763.4
52.5°	9224.6	9271.5	9522.3	9771.9	10214.7	10659.6	10976.5	10948.7	11026.6	12161.8	10738.5
55°	10102.7	10137.9	10241.4	10377.9	10973.3	11698.8	12368.8	12325.1	12127.7	13055.9	11702.0
57.5°	10892.2	10963.7	11035.2	11091.7	11737.2	12784.9	13793.1	13796.3	13322.6	14020.4	12697.4
60°	11014.9	11077.8	11550.5	11996.4	13044.2	14233.8	15317.8	15285.8	14559.2	15067.0	13807.0
62.5°	9736.7	9878.6	10668.1	11854.5	14303.1	16884.0	17262.8	17223.3	16037.9	16356.9	15099.0
65°	6977.7	7138.8	8091.5	9874.3	13692.8	19804.2	20772.9	20241.6	18054.4	17943.5	16611.9
67.5°	4025.5	4063.9	4476.8	5908.6	10425.9	19956.7	26127.8	25384.2	21185.8	19743.4	17352.4
70°	2976.7	2975.6	3073.8	3636.1	5641.9	16287.6	28674.5	29341.4	24482.6	20335.5	16305.7
71°	2691.8	2695.0	2804.9	3309.6	4468.3	13633.1	28133.6	29593.2	25351.1	20043.2	15548.2
72.5°	2302.4	2313.1	2465.7	2968.2	3758.8	9401.7	25803.5	28082.4	25762.9	19321.9	14362.9
75°	1746.5	1771.1	1982.3	2501.9	3435.5	4768.1	18937.8	22424.5	22886.5	17049.4	10672.4
77.5°	1246.2	1273.9	1512.9	2104.0	3265.8	3593.4	12682.5	16356.9	16842.4	10926.3	4813.9
80°	787.4	820.5	1000.8	1674.0	3068.5	3412.0	7969.9	10994.6	9184.0	3496.3	1224.8
82.5°	462.0	487.6	620.9	1093.6	2506.2	3286.1	4689.1	6094.2	3574.2	1056.3	556.9
85°	267.8	279.5	387.3	696.7	1820.2	3101.5	3445.1	3406.7	1551.3	516.4	263.5
87.5°	124.8	138.7	229.4	363.8	1010.4	2248.0	2722.8	2352.6	964.5	242.2	123.8
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°	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3	8486.3
2.5°	8412.7	8394.5	8318.8	8251.6	8181.1	8089.4	7988.0	7975.2	7913.3	7925.1	7903.7
5°	8246.2	8200.3	8017.9	7852.5	7657.3	7482.3	7292.4	7204.9	7079.0	7070.5	7038.5
7.5°	8008.3	7922.9	7640.2	7326.5	7012.9	6714.1	6418.6	6224.4	6026.0	5941.7	5934.2
10°	7740.5	7595.4	7179.3	6715.2	6262.8	5826.4	5403.9	5091.3	4809.7	4676.3	4671.0
12.5°	7486.6	7272.1	6701.3	6069.7	5450.9	4885.4	4306.1	3895.3	3542.2	3423.7	3373.6
15°	7271.1	6969.1	6236.1	5428.5	4677.4	3892.1	3232.8	2800.7	2474.2	2361.1	2339.8
17.5°	7061.9	6673.6	5759.2	4780.9	3872.9	3009.8	2349.4	2028.2	1854.3	1808.4	1807.4
20°	6853.9	6369.5	5261.0	4118.3	3095.1	2251.2	1806.3	1662.3	1603.6	1598.2	1589.7
22.5°	6618.1	6047.3	4737.1	3453.6	2415.5	1770.0	1535.3	1477.7	1470.2	1489.4	1489.4
25°	6397.3	5727.2	4205.8	2802.8	1878.8	1476.6	1371.0	1359.3	1379.5	1413.7	1416.9
27.5°	6191.3	5418.9	3687.3	2224.5	1505.4	1300.6	1256.8	1270.7	1307.0	1346.5	1347.5
30°	6021.7	5127.6	3183.7	1752.9	1271.8	1169.3	1161.9	1189.6	1229.1	1260.0	1267.5
32.5°	5890.5	4879.0	2697.2	1409.4	1119.2	1071.2	1077.6	1101.1	1125.6	1142.7	1154.4
35°	5829.7	4665.6	2248.0	1188.5	1022.1	995.4	1004.0	1016.8	1027.4	1040.2	1049.8
37.5°	5840.3	4500.3	1846.8	1050.9	957.0	943.2	943.2	943.2	943.2	949.6	950.6
40°	5939.5	4405.3	1520.4	963.4	913.3	898.3	886.6	875.9	867.4	871.7	869.5
42.5°	6193.5	4396.8	1281.4	907.9	878.1	853.5	830.1	815.1	804.5	808.7	810.9
45°	6624.5	4503.5	1120.3	868.5	845.0	807.7	777.8	761.8	754.3	768.2	770.3
47.5°	7182.5	4736.1	1022.1	839.7	814.1	765.0	733.0	718.0	720.2	740.4	745.8
50°	7901.6	5113.7	975.2	821.5	792.7	728.7	695.6	682.8	689.2	718.0	724.4
52.5°	8691.1	5657.9	980.5	816.2	778.9	702.0	666.8	651.9	662.6	689.2	694.6
55°	9602.3	6311.9	1069.1	823.7	758.6	685.0	643.4	617.7	626.3	650.8	655.1
57.5°	10614.8	7060.9	1247.2	821.5	733.0	669.0	618.8	580.4	586.8	601.7	606.0
60°	11668.9	7965.6	1523.6	827.9	721.2	649.8	585.7	537.7	535.6	548.4	550.5
62.5°	12934.3	9012.3	1839.4	832.2	728.7	625.2	542.0	495.1	488.6	491.9	494.0
65°	14238.0	9769.8	1720.9	815.1	752.2	604.9	503.6	453.4	441.7	439.6	440.6
67.5°	14278.6	8957.9	1206.7	781.0	761.8	594.3	474.8	418.2	399.0	391.6	390.5
70°	12805.2	7277.5	940.0	744.7	723.4	577.2	448.1	389.4	360.6	348.9	347.8
71°	12086.1	6699.2	890.9	726.6	694.6	560.1	436.4	376.6	346.7	333.9	331.8
72.5°	10958.3	6005.7	831.1	697.8	639.1	516.4	414.0	358.5	327.5	312.6	309.4
75°	7864.3	3927.3	713.8	622.0	529.2	411.8	362.8	322.2	295.5	277.4	275.3
77.5°	3030.1	1563.0	539.9	517.5	405.4	322.2	298.7	278.5	259.3	241.1	240.1
80°	936.8	698.8	393.7	389.4	293.4	240.1	232.6	227.3	219.8	200.6	196.3
82.5°	500.4	401.2	271.0	251.8	192.0	160.0	168.6	170.7	171.8	151.5	149.4
85°	239.0	212.3	152.6	143.0	112.0	89.6	103.5	112.0	113.1	92.8	86.4
87.5°	114.2	111.0	71.5	54.4	41.6	29.9	36.3	44.8	49.1	35.2	30.9
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)