

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: P319592

Luminaire Tested: **GAN-SA8A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319592
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-SA8A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 31234 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 257
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

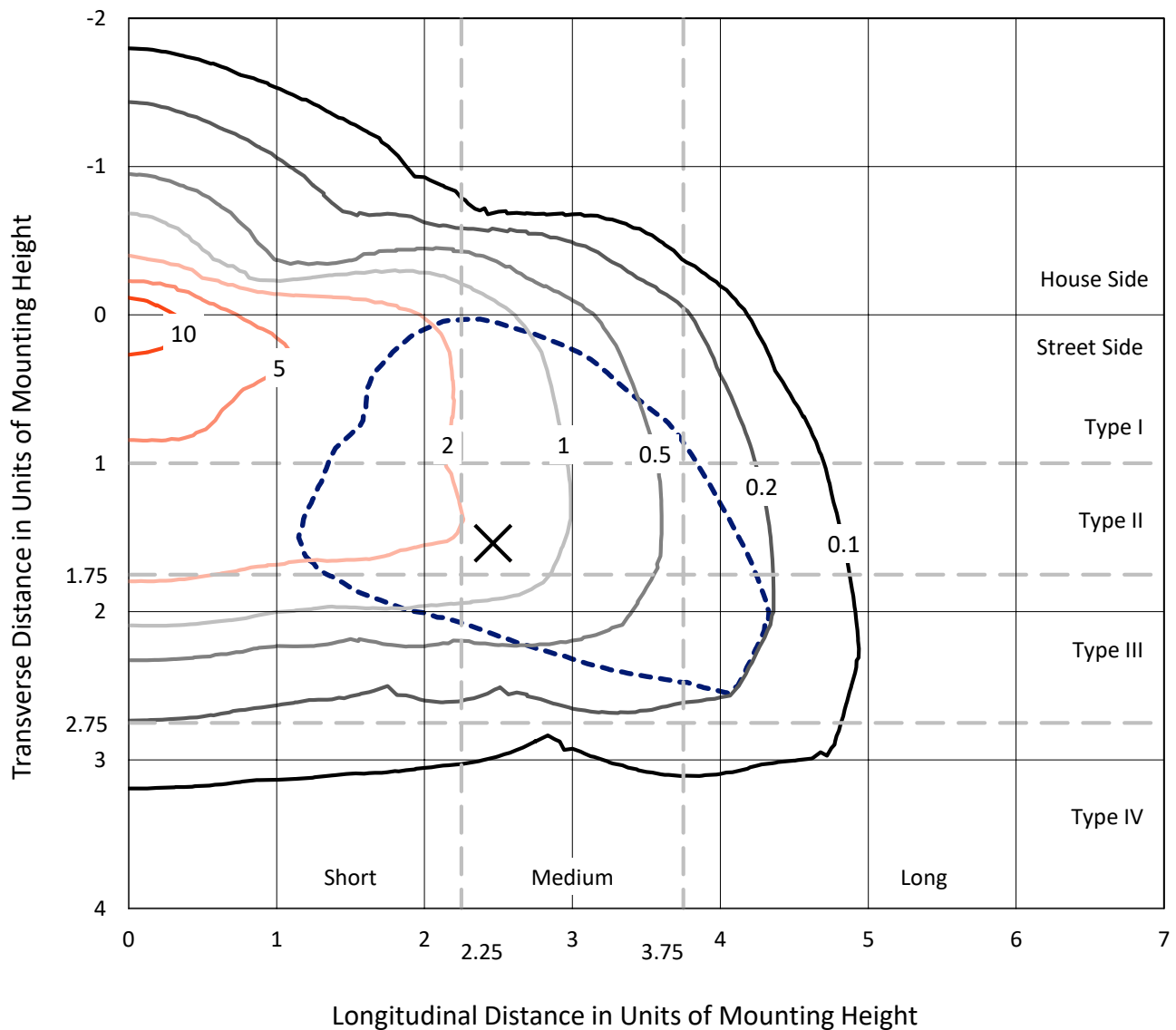


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Iso-Footcandle Lines of Horizontal Illumination

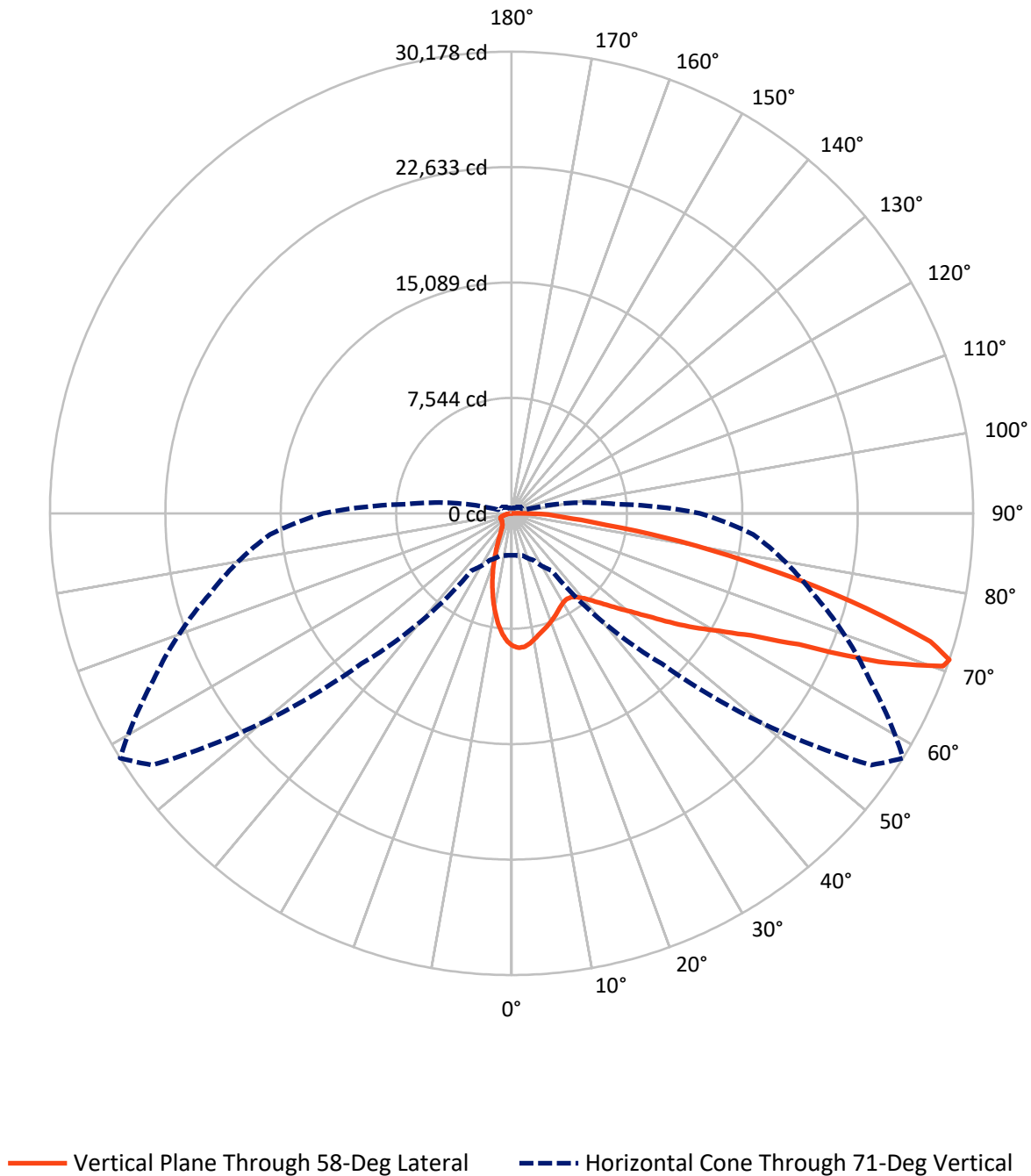
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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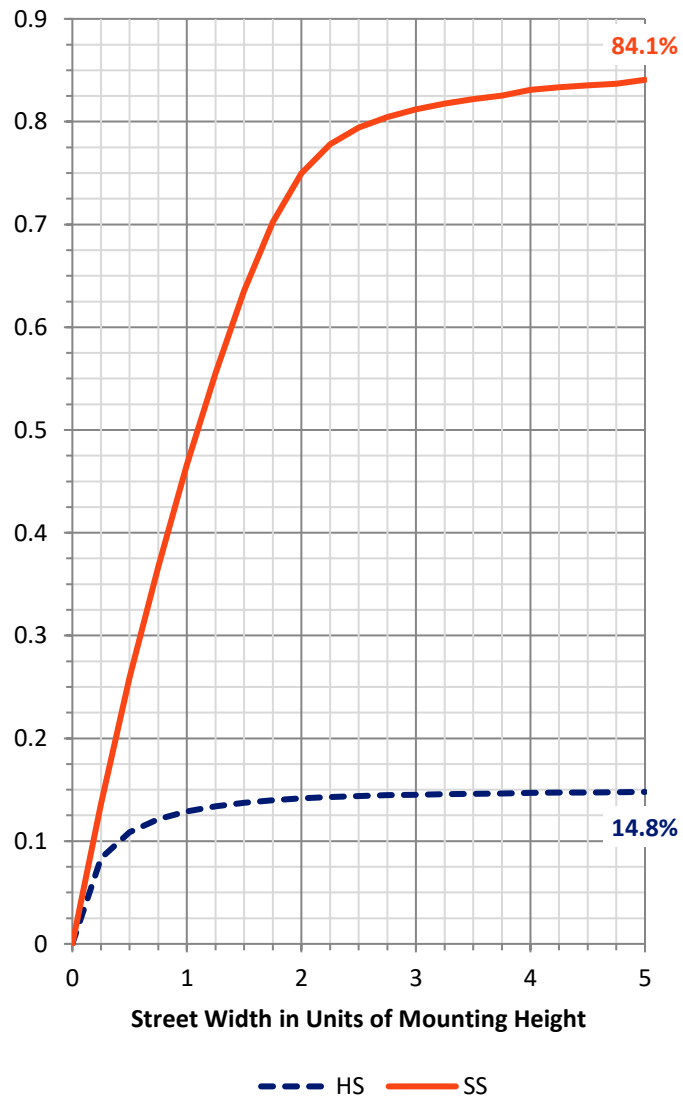
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4669.7	0.0	4669.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26564.3	0.0	26564.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	31234.0	0.0	31234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.6	2.4
10°-20°	1660.1	5.3
20°-30°	2109.8	6.8
30°-40°	2687.5	8.6
40°-50°	3811.0	12.2
50°-60°	5897.6	18.9
60°-70°	8028.8	25.7
70°-80°	5356.2	17.1
80°-90°	936.4	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°	31234.0	100.0
0°-180°	31234.0	100.0

Coefficient of Utilization



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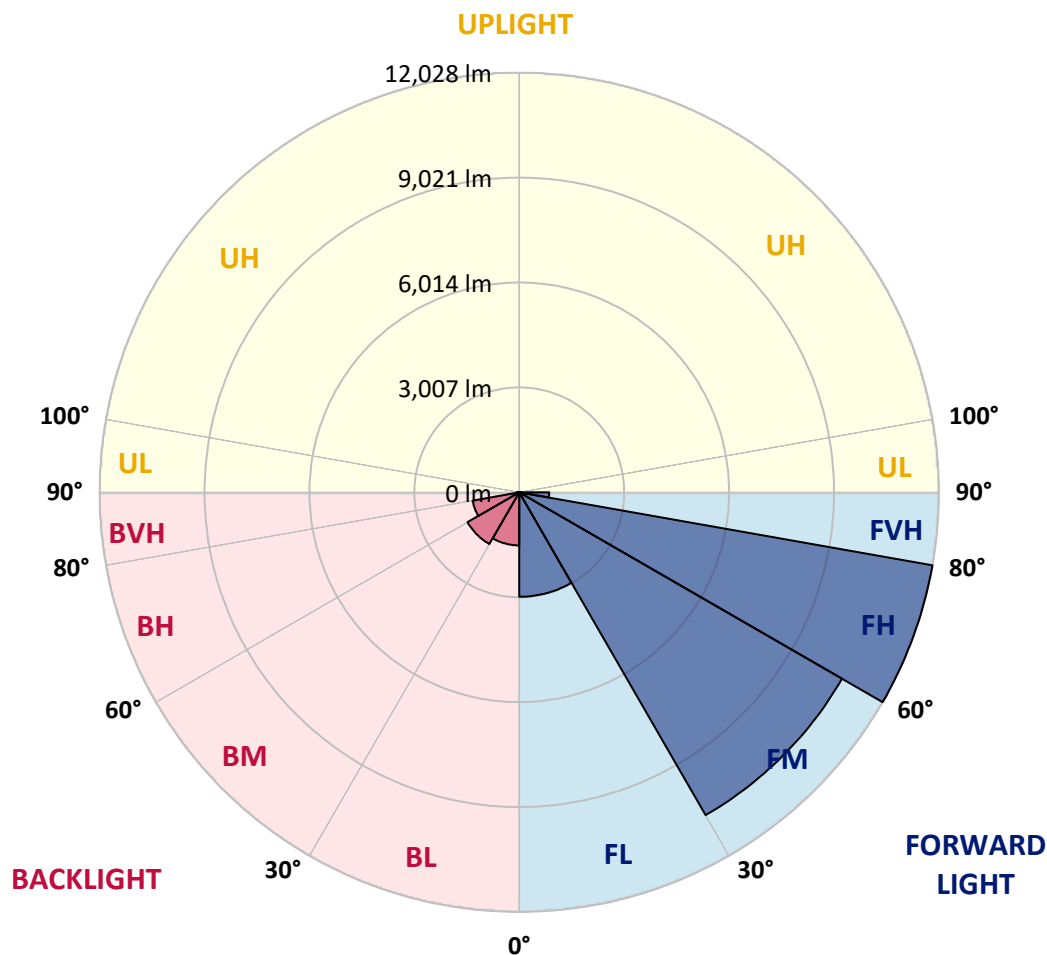
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2994.3	9.6			
FM	(30°-60°)	10683.5	34.2			
FH	(60°-80°)	12027.8	38.5			G5
FVH	(80°-90°)	858.6	2.7			G5
BL	(0°-30°)	1522.2	4.9	B3/2500		
BM	(30°-60°)	1712.5	5.5	B2/2500		
BH	(60°-80°)	1357.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	77.8	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°	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9
2.5°	8883.5	8871.5	8875.9	8867.2	8846.5	8825.8	8795.3	8800.8	8758.4	8695.2	8616.9
5°	8715.9	8711.6	8744.2	8762.7	8777.9	8766.0	8757.3	8768.1	8706.1	8619.1	8483.1
7.5°	8364.5	8316.6	8358.0	8420.0	8478.7	8523.3	8582.1	8589.7	8550.5	8459.2	8280.7
10°	7865.1	7819.4	7880.3	7977.2	8094.7	8201.3	8319.9	8341.7	8349.3	8266.6	8050.1
12.5°	7347.2	7312.4	7373.3	7509.3	7704.1	7868.4	8057.7	8090.3	8157.8	8102.3	7836.8
15°	6883.7	6870.7	6944.7	7078.5	7302.6	7553.9	7827.0	7886.9	8001.1	7982.6	7670.4
17.5°	6483.4	6480.1	6536.7	6677.0	6925.1	7242.8	7597.5	7698.6	7868.4	7890.1	7533.3
20°	6185.2	6178.7	6217.9	6321.2	6576.9	6937.1	7349.4	7488.7	7733.5	7809.6	7391.8
22.5°	6025.3	6024.2	6025.3	6074.3	6283.2	6618.3	7107.9	7277.6	7601.8	7745.4	7235.2
25°	5998.1	5994.8	5970.9	5965.5	6084.1	6351.7	6868.5	7055.6	7476.7	7700.8	7086.1
27.5°	6068.8	6073.2	6041.6	5990.5	6014.4	6176.5	6660.7	6860.9	7376.6	7692.1	6982.7
30°	6215.7	6213.5	6186.3	6133.0	6086.2	6111.3	6512.7	6712.9	7309.1	7730.2	6912.0
32.5°	6377.8	6389.8	6384.4	6355.0	6285.3	6185.2	6468.1	6664.0	7289.6	7821.6	6881.6
35°	6572.6	6585.6	6624.8	6647.6	6566.0	6405.0	6563.9	6733.6	7346.1	7993.5	6930.5
37.5°	6757.5	6791.3	6901.1	6998.0	6928.3	6748.8	6818.5	6939.2	7521.3	8264.4	7062.2
40°	6970.8	7000.2	7179.7	7385.3	7374.4	7188.4	7228.6	7309.1	7830.3	8652.8	7300.4
42.5°	7180.8	7239.5	7499.5	7791.1	7874.9	7710.6	7774.8	7817.2	8265.5	9167.4	7716.1
45°	7460.4	7523.5	7884.7	8236.1	8432.0	8339.5	8441.7	8458.1	8812.8	9868.1	8319.9
47.5°	7883.6	7955.4	8376.5	8745.3	9044.5	9054.3	9222.9	9216.4	9496.0	10670.0	9080.4
50°	8542.9	8646.3	8991.2	9336.1	9699.5	9901.8	10127.1	10095.5	10315.3	11524.0	9956.2
52.5°	9406.8	9454.7	9710.3	9964.9	10416.5	10870.2	11193.3	11165.0	11244.4	12402.0	10950.7
55°	10302.2	10338.1	10443.7	10582.9	11190.0	11929.9	12613.1	12568.5	12367.2	13313.8	11933.1
57.5°	11107.3	11180.2	11253.1	11310.8	11969.0	13037.4	14065.6	14068.9	13585.8	14297.3	12948.2
60°	11232.5	11296.6	11778.6	12233.4	13301.8	14514.9	15620.3	15587.7	14846.8	15364.7	14079.7
62.5°	9929.0	10073.7	10878.9	12088.7	14585.7	17217.5	17603.7	17563.5	16354.7	16680.0	15397.3
65°	7115.5	7279.8	8251.3	10069.4	13963.3	20195.3	21183.2	20641.4	18411.0	18297.9	16940.1
67.5°	4105.0	4144.2	4565.2	6025.3	10631.9	20350.9	26643.9	25885.6	21604.3	20133.3	17695.1
70°	3035.5	3034.4	3134.5	3707.9	5753.3	16609.3	29240.9	29920.9	24966.2	20737.2	16627.8
71°	2745.0	2748.3	2860.3	3375.0	4556.5	13902.4	28689.3	30177.7	25851.8	20439.1	15855.3
72.5°	2347.9	2358.8	2514.4	3026.8	3833.0	9587.4	26313.1	28637.1	26271.8	19703.6	14646.6
75°	1781.0	1806.1	2021.5	2551.3	3503.3	4862.2	19311.9	22867.5	23338.6	17386.1	10883.2
77.5°	1270.8	1299.1	1542.8	2145.5	3330.4	3664.4	12933.0	16680.0	17175.1	11142.1	4909.0
80°	802.9	836.7	1020.5	1707.1	3129.1	3479.4	8127.3	11211.8	9365.5	3565.4	1249.0
82.5°	471.1	497.2	633.2	1115.2	2555.7	3351.0	4781.7	6214.6	3644.8	1077.1	567.9
85°	273.1	285.1	394.9	710.5	1856.1	3162.8	3513.1	3474.0	1581.9	526.6	268.7
87.5°	127.3	141.4	233.9	371.0	1030.3	2292.4	2776.6	2399.0	983.5	247.0	126.2
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°	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9	8653.9
2.5°	8578.8	8560.3	8483.1	8414.5	8342.7	8249.2	8145.8	8132.8	8069.7	8081.6	8059.9
5°	8409.1	8362.3	8176.3	8007.6	7808.5	7630.1	7436.4	7347.2	7218.8	7210.1	7177.5
7.5°	8166.5	8079.4	7791.1	7471.3	7151.4	6846.7	6545.4	6347.4	6145.0	6059.0	6051.4
10°	7893.4	7745.4	7321.1	6847.8	6386.5	5941.5	5510.7	5191.9	4904.7	4768.7	4763.2
12.5°	7634.5	7415.8	6833.7	6189.6	5558.6	4981.9	4391.1	3972.3	3612.1	3491.4	3440.2
15°	7414.7	7106.8	6359.3	5535.7	4769.8	3969.0	3296.6	2856.0	2523.1	2407.7	2386.0
17.5°	7201.4	6805.4	5873.0	4875.3	3949.4	3069.2	2395.8	2068.3	1890.9	1844.2	1843.1
20°	6989.3	6495.3	5364.9	4199.7	3156.3	2295.7	1842.0	1695.1	1635.3	1629.8	1621.1
22.5°	6748.8	6166.8	4830.7	3521.8	2463.2	1805.0	1565.6	1506.9	1499.3	1518.8	1518.8
25°	6523.6	5840.4	4288.9	2858.2	1916.0	1505.8	1398.1	1386.1	1406.8	1441.6	1444.9
27.5°	6313.6	5525.9	3760.1	2268.5	1535.2	1326.3	1281.7	1295.8	1332.8	1373.0	1374.1
30°	6140.6	5228.9	3246.6	1787.6	1296.9	1192.4	1184.8	1213.1	1253.4	1284.9	1292.5
32.5°	6006.8	4975.4	2750.4	1437.2	1141.3	1092.3	1098.9	1122.8	1147.8	1165.2	1177.2
35°	5944.8	4757.8	2292.4	1212.0	1042.3	1015.1	1023.8	1036.9	1047.7	1060.8	1070.6
37.5°	5955.7	4589.2	1883.3	1071.7	975.9	961.8	961.8	961.8	961.8	968.3	969.4
40°	6056.9	4492.3	1550.4	982.5	931.3	916.1	904.1	893.2	884.5	888.9	886.7
42.5°	6315.8	4483.6	1306.7	925.9	895.4	870.4	846.5	831.2	820.3	824.7	826.9
45°	6755.4	4592.4	1142.4	885.6	861.7	823.6	793.1	776.8	769.2	783.4	785.5
47.5°	7324.4	4829.6	1042.3	856.3	830.1	780.1	747.5	732.2	734.4	755.1	760.5
50°	8057.7	5214.8	994.4	837.8	808.4	743.1	709.4	696.3	702.8	732.2	738.7
52.5°	8862.8	5769.6	999.9	832.3	794.2	715.9	680.0	664.8	675.6	702.8	708.3
55°	9791.9	6436.6	1090.2	839.9	773.6	698.5	656.1	629.9	638.7	663.7	668.0
57.5°	10824.5	7200.3	1271.9	837.8	747.5	682.2	631.0	591.9	598.4	613.6	618.0
60°	11899.4	8123.0	1553.7	844.3	735.5	662.6	597.3	548.3	546.2	559.2	561.4
62.5°	13189.8	9190.3	1875.7	848.6	743.1	637.6	552.7	504.8	498.3	501.6	503.7
65°	14519.3	9962.8	1754.9	831.2	767.0	616.9	513.5	462.4	450.4	448.3	449.3
67.5°	14560.6	9134.8	1230.5	796.4	776.8	606.0	484.2	426.5	406.9	399.3	398.2
70°	13058.1	7421.2	958.5	759.4	737.7	588.6	457.0	397.1	367.7	355.8	354.7
71°	12324.8	6831.5	908.5	740.9	708.3	571.2	445.0	384.1	353.6	340.5	338.4
72.5°	11174.8	6124.3	847.5	711.5	651.7	526.6	422.1	365.6	334.0	318.8	315.5
75°	8019.6	4004.9	727.9	634.3	539.6	420.0	369.9	328.6	301.4	282.9	280.7
77.5°	3089.9	1593.9	550.5	527.7	413.4	328.6	304.6	284.0	264.4	245.9	244.8
80°	955.3	712.6	401.5	397.1	299.2	244.8	237.2	231.7	224.1	204.5	200.2
82.5°	510.3	409.1	276.4	256.8	195.8	163.2	171.9	174.1	175.2	154.5	152.3
85°	243.7	216.5	155.6	145.8	114.2	91.4	105.5	114.2	115.3	94.7	88.1
87.5°	116.4	113.2	72.9	55.5	42.4	30.5	37.0	45.7	50.0	35.9	31.6
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)