

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: P319593

Luminaire Tested: **GAN-SA9A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319593
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-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 34844 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

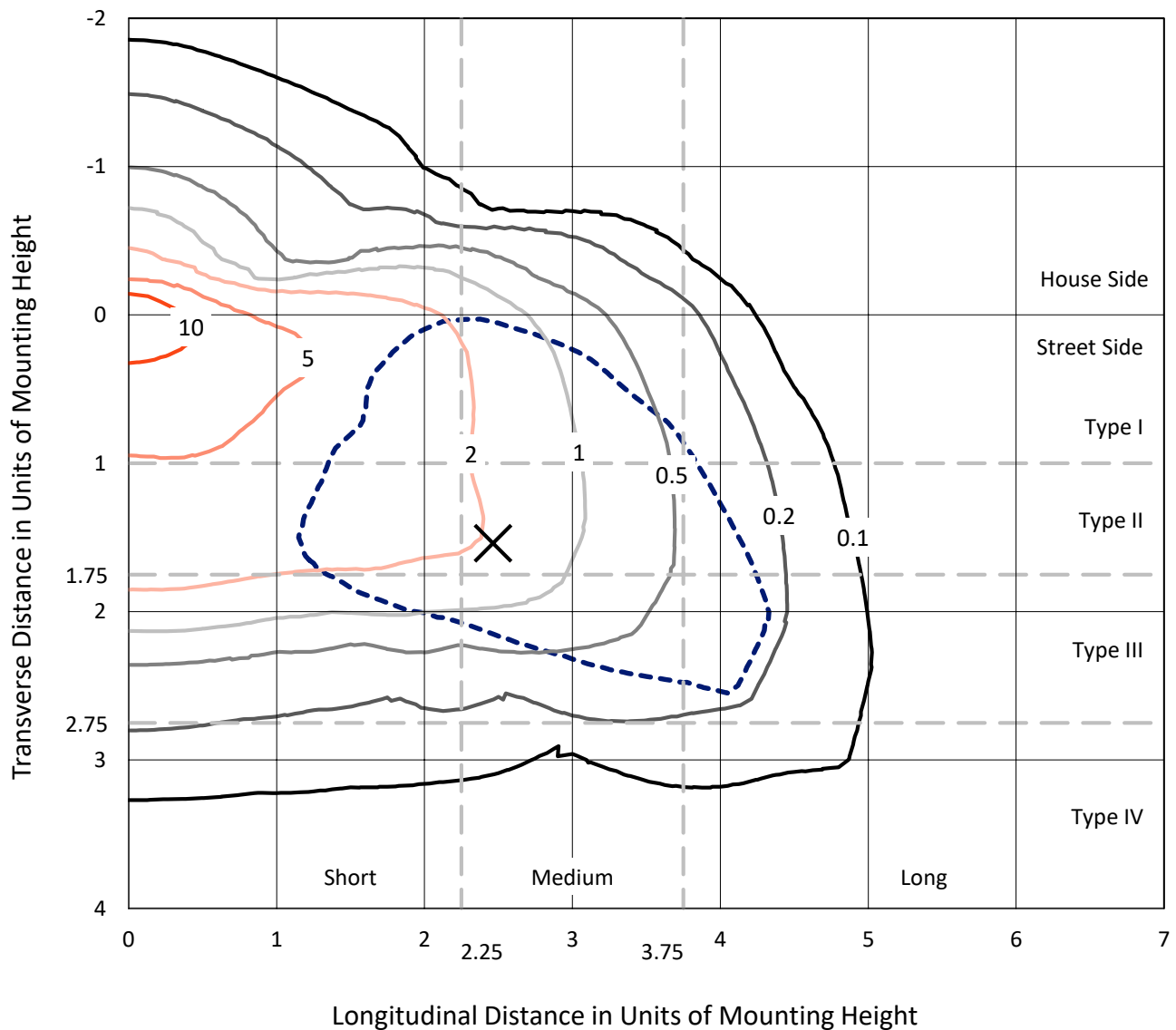
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

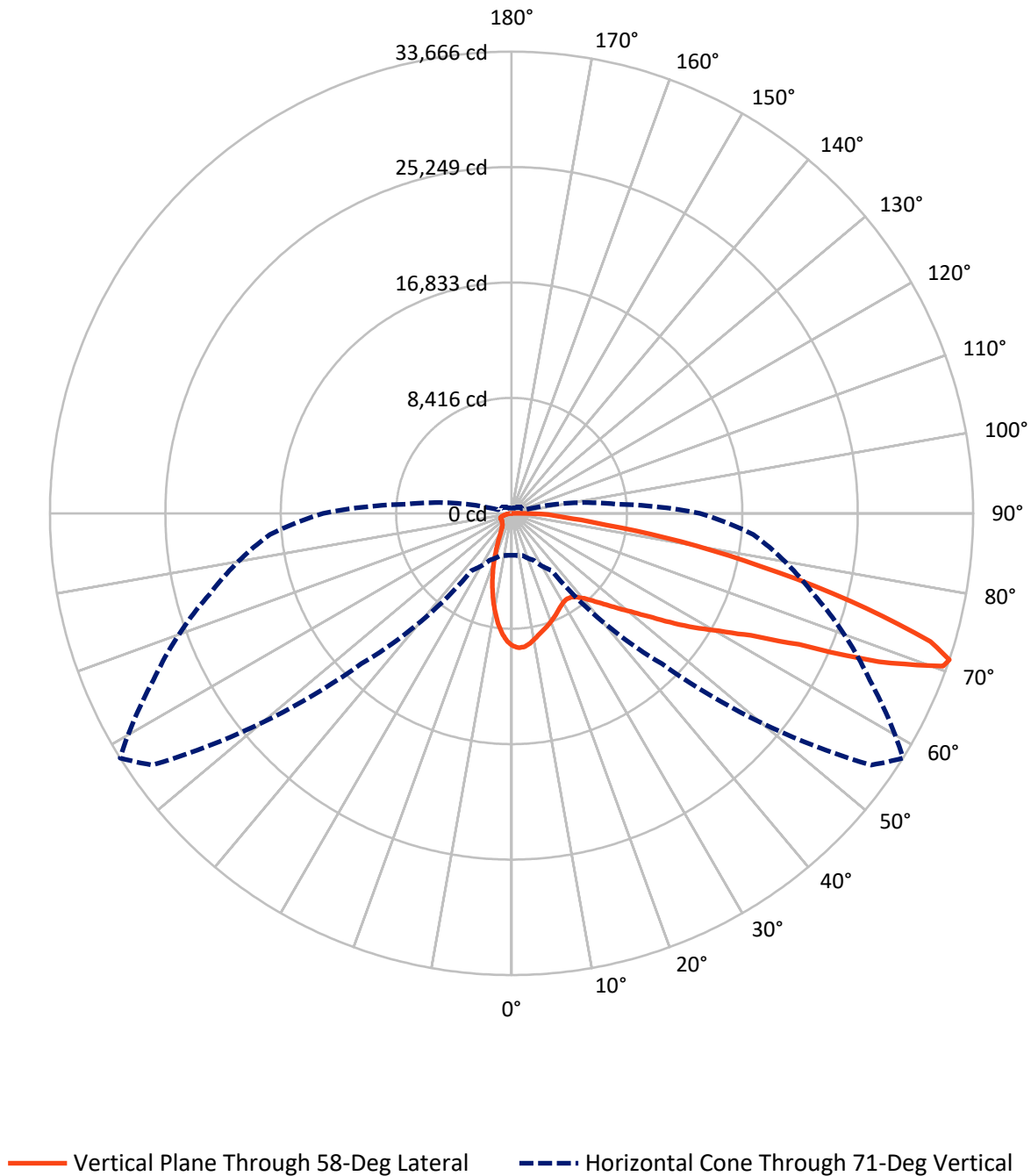
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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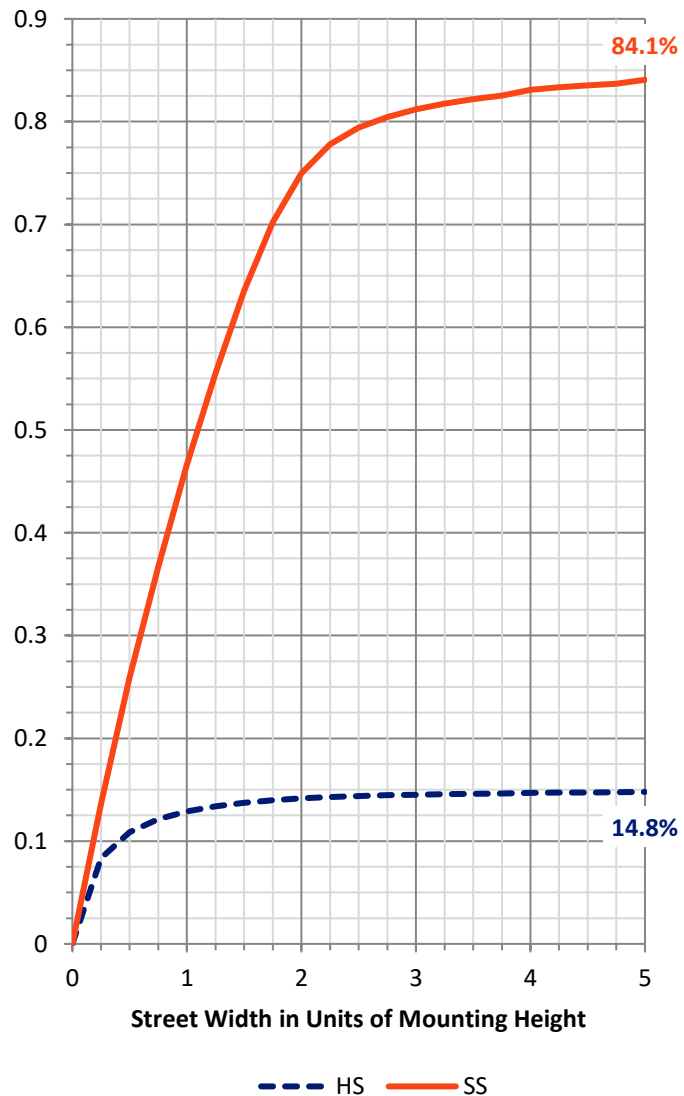
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5209.4	0.0	5209.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29634.6	0.0	29634.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	34844.0	0.0	34844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.9	2.4
10°-20°	1852.0	5.3
20°-30°	2353.7	6.8
30°-40°	2998.1	8.6
40°-50°	4251.4	12.2
50°-60°	6579.3	18.9
60°-70°	8956.8	25.7
70°-80°	5975.2	17.1
80°-90°	1044.7	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°	34844.0	100.0
0°-180°	34844.0	100.0

Coefficient of Utilization



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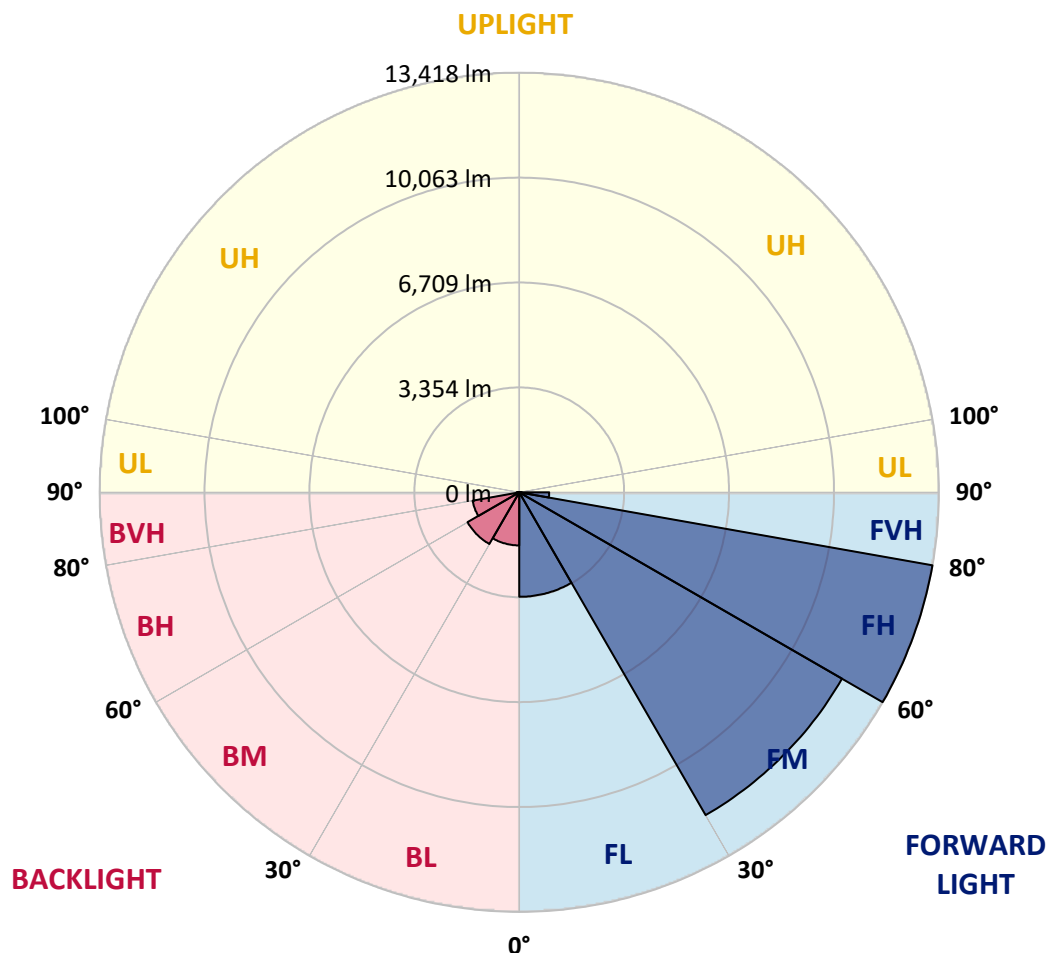
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3340.4	9.6			
FM	(30°-60°)	11918.3	34.2			
FH	(60°-80°)	13418.0	38.5			G5
FVH	(80°-90°)	957.9	2.7			G5
BL	(0°-30°)	1698.1	4.9	B3/2500		
BM	(30°-60°)	1910.4	5.5	B2/2500		
BH	(60°-80°)	1514.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	86.8	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°	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1
2.5°	9910.2	9896.9	9901.7	9892.0	9868.9	9845.9	9811.9	9818.0	9770.6	9700.2	9612.9
5°	9723.3	9718.4	9754.9	9775.5	9792.5	9779.1	9769.4	9781.6	9712.4	9615.3	9463.6
7.5°	9331.3	9277.9	9324.0	9393.2	9458.7	9508.5	9574.0	9582.5	9538.8	9436.9	9237.8
10°	8774.2	8723.2	8791.1	8899.2	9030.3	9149.2	9281.5	9305.8	9314.3	9222.0	8980.5
12.5°	8196.4	8157.6	8225.5	8377.3	8594.5	8777.8	8989.0	9025.4	9100.7	9038.7	8742.6
15°	7679.4	7664.8	7747.3	7896.6	8146.6	8427.0	8731.7	8798.4	8925.9	8905.2	8556.9
17.5°	7232.7	7229.1	7292.2	7448.7	7725.5	8079.9	8475.6	8588.5	8777.8	8802.1	8404.0
20°	6900.1	6892.9	6936.5	7051.9	7337.1	7738.8	8198.8	8354.2	8627.3	8712.3	8246.2
22.5°	6721.7	6720.5	6721.7	6776.3	7009.4	7383.2	7929.4	8118.7	8480.4	8640.6	8071.4
25°	6691.4	6687.7	6661.0	6655.0	6787.3	7085.8	7662.4	7871.1	8340.8	8590.9	7905.1
27.5°	6770.3	6775.1	6739.9	6682.9	6709.6	6890.4	7430.5	7653.9	8229.2	8581.2	7789.8
30°	6934.1	6931.7	6901.3	6841.9	6789.7	6817.6	7265.5	7488.8	8153.9	8623.6	7710.9
32.5°	7115.0	7128.3	7122.2	7089.5	7011.8	6900.1	7215.7	7434.2	8132.1	8725.6	7676.9
35°	7332.2	7346.8	7390.5	7416.0	7324.9	7145.3	7322.5	7511.9	8195.2	8917.4	7731.5
37.5°	7538.6	7576.2	7698.8	7806.8	7729.1	7528.9	7606.5	7741.3	8390.6	9219.6	7878.4
40°	7776.5	7809.2	8009.5	8238.9	8226.8	8019.2	8064.1	8153.9	8735.3	9652.9	8144.2
42.5°	8010.7	8076.3	8366.3	8691.6	8785.1	8601.8	8673.4	8720.7	9220.8	10227.0	8607.9
45°	8322.6	8393.0	8796.0	9188.0	9406.5	9303.3	9417.4	9435.6	9831.3	11008.7	9281.5
47.5°	8794.8	8874.9	9344.6	9756.1	10089.9	10100.8	10288.9	10281.6	10593.6	11903.2	10129.9
50°	9530.3	9645.6	10030.4	10415.1	10820.5	11046.3	11297.5	11262.3	11507.5	12856.0	11107.0
52.5°	10494.0	10547.4	10832.7	11116.7	11620.4	12126.5	12487.0	12455.4	12544.0	13835.5	12216.3
55°	11492.9	11533.0	11650.7	11806.1	12483.4	13308.7	14070.9	14021.2	13796.6	14852.6	13312.3
57.5°	12391.1	12472.4	12553.8	12618.1	13352.4	14544.3	15691.3	15694.9	15156.0	15949.8	14444.8
60°	12530.7	12602.3	13140.0	13647.3	14839.2	16192.6	17425.7	17389.3	16562.7	17140.5	15707.1
62.5°	11076.6	11238.1	12136.2	13485.9	16271.4	19207.5	19638.4	19593.5	18245.0	18607.9	17176.9
65°	7937.9	8121.2	9205.0	11233.2	15577.2	22529.5	23631.6	23027.1	20539.0	20412.7	18898.0
67.5°	4579.5	4623.1	5092.9	6721.7	11860.7	22703.1	29723.4	28877.4	24101.3	22460.3	19740.3
70°	3386.3	3385.1	3496.8	4136.4	6418.3	18529.0	32620.6	33379.2	27851.8	23134.0	18549.6
71°	3062.3	3065.9	3190.9	3765.0	5083.2	15509.2	32005.2	33665.6	28839.8	22801.4	17687.9
72.5°	2619.3	2631.4	2805.0	3376.6	4276.0	10695.5	29354.4	31946.9	29308.3	21980.9	16339.4
75°	1986.9	2014.8	2255.1	2846.2	3908.3	5424.2	21544.0	25510.5	26036.0	19395.6	12141.1
77.5°	1417.7	1449.2	1721.1	2393.5	3715.3	4087.9	14427.8	18607.9	19160.2	12429.9	5476.4
80°	895.7	933.4	1138.5	1904.4	3490.7	3881.6	9066.7	12507.6	10447.9	3977.4	1393.4
82.5°	525.6	554.7	706.4	1244.1	2851.1	3738.3	5334.4	6932.9	4066.0	1201.6	633.6
85°	304.6	318.0	440.6	792.6	2070.6	3528.4	3919.2	3875.5	1764.8	587.5	299.8
87.5°	142.0	157.8	261.0	413.9	1149.4	2557.4	3097.5	2676.3	1097.2	275.5	140.8
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°	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1	9654.1
2.5°	9570.4	9549.7	9463.6	9387.1	9307.0	9202.6	9087.3	9072.7	9002.3	9015.7	8991.4
5°	9381.0	9328.8	9121.3	8933.2	8711.0	8512.0	8295.9	8196.4	8053.2	8043.5	8007.1
7.5°	9110.4	9013.3	8691.6	8334.8	7977.9	7638.1	7301.9	7081.0	6855.2	6759.3	6750.8
10°	8805.7	8640.6	8167.3	7639.3	7124.7	6628.3	6147.6	5792.0	5471.6	5319.8	5313.8
12.5°	8516.8	8272.9	7623.5	6905.0	6201.0	5557.7	4898.7	4431.4	4029.6	3894.9	3837.9
15°	8271.7	7928.2	7094.3	6175.5	5321.1	4427.7	3677.6	3186.1	2814.7	2686.0	2661.7
17.5°	8033.8	7592.0	6551.8	5438.8	4405.9	3424.0	2672.7	2307.3	2109.5	2057.3	2056.1
20°	7797.1	7246.0	5985.0	4685.1	3521.1	2561.0	2054.9	1891.0	1824.3	1818.2	1808.5
22.5°	7528.9	6879.5	5389.0	3928.9	2747.9	2013.6	1746.6	1681.0	1672.5	1694.4	1694.4
25°	7277.6	6515.4	4784.6	3188.5	2137.4	1679.8	1559.7	1546.3	1569.4	1608.2	1611.9
27.5°	7043.4	6164.6	4194.7	2530.7	1712.6	1479.6	1429.8	1445.6	1486.8	1531.7	1533.0
30°	6850.4	5833.3	3621.8	1994.2	1446.8	1330.3	1321.8	1353.3	1398.2	1433.4	1441.9
32.5°	6701.1	5550.4	3068.3	1603.4	1273.2	1218.6	1225.9	1252.6	1280.5	1299.9	1313.3
35°	6631.9	5307.7	2557.4	1352.1	1162.8	1132.4	1142.1	1156.7	1168.8	1183.4	1194.3
37.5°	6644.0	5119.6	2101.0	1195.5	1088.7	1072.9	1072.9	1072.9	1072.9	1080.2	1081.4
40°	6756.9	5011.5	1729.6	1096.0	1039.0	1022.0	1008.6	996.5	986.8	991.6	989.2
42.5°	7045.8	5001.8	1457.7	1032.9	998.9	971.0	944.3	927.3	915.2	920.0	922.4
45°	7536.1	5123.2	1274.4	988.0	961.3	918.8	884.8	866.6	858.1	873.9	876.3
47.5°	8170.9	5387.8	1162.8	955.2	926.1	870.3	833.8	816.8	819.3	842.3	848.4
50°	8989.0	5817.5	1109.4	934.6	901.8	829.0	791.4	776.8	784.1	816.8	824.1
52.5°	9887.2	6436.5	1115.4	928.5	886.0	798.6	758.6	741.6	753.7	784.1	790.1
55°	10923.7	7180.5	1216.2	937.0	863.0	779.2	731.9	702.8	712.5	740.4	745.2
57.5°	12075.5	8032.6	1418.9	934.6	833.8	761.0	704.0	660.3	667.6	684.6	689.4
60°	13274.7	9061.8	1733.2	941.9	820.5	739.2	666.3	611.7	609.3	623.9	626.3
62.5°	14714.2	10252.5	2092.5	946.7	829.0	711.3	616.6	563.2	555.9	559.5	562.0
65°	16197.4	11114.3	1957.8	927.3	855.7	688.2	572.9	515.8	502.5	500.1	501.3
67.5°	16243.5	10190.6	1372.7	888.5	866.6	676.1	540.1	475.8	453.9	445.4	444.2
70°	14567.4	8278.9	1069.3	847.2	822.9	656.6	509.8	443.0	410.2	396.9	395.7
71°	13749.3	7621.1	1013.5	826.6	790.1	637.2	496.4	428.5	394.5	379.9	377.5
72.5°	12466.4	6832.2	945.5	793.8	727.0	587.5	470.9	407.8	372.6	355.6	352.0
75°	8946.5	4467.8	812.0	707.6	602.0	468.5	412.7	366.6	336.2	315.6	313.1
77.5°	3447.0	1778.1	614.2	588.7	461.2	366.6	339.8	316.8	294.9	274.3	273.1
80°	1065.7	795.0	447.9	443.0	333.8	273.1	264.6	258.5	250.0	228.2	223.3
82.5°	569.2	456.4	308.3	286.4	218.5	182.1	191.8	194.2	195.4	172.4	169.9
85°	271.9	241.5	173.6	162.6	127.4	102.0	117.7	127.4	128.7	105.6	98.3
87.5°	129.9	126.2	81.3	61.9	47.3	34.0	41.3	51.0	55.8	40.1	35.2
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)