

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: P319924

Luminaire Tested: **GAN-SA0B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319924
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-SA0B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 44947 lumens
Efficiency: N/A
Efficacy: 107.3 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): 419
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

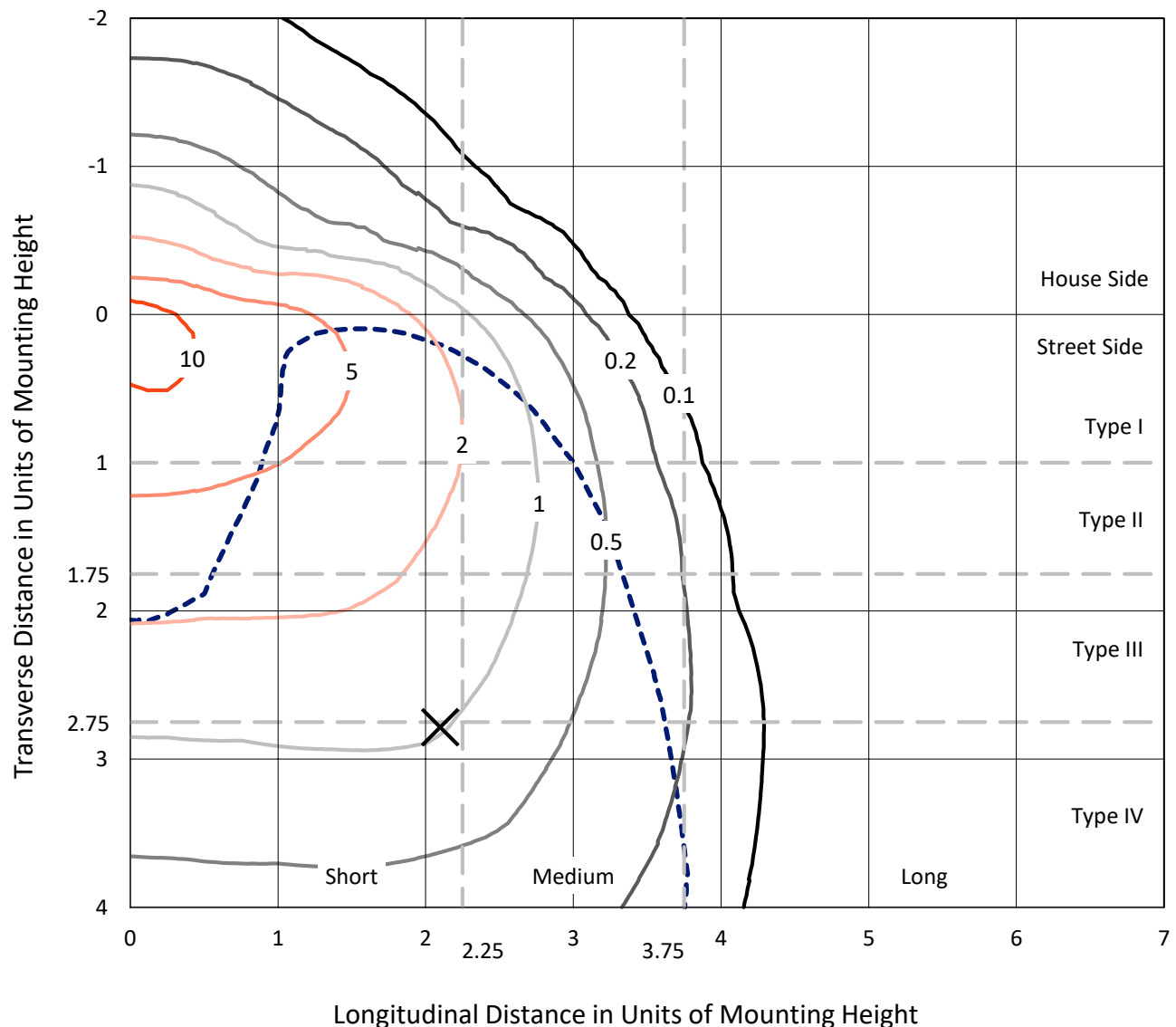


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Iso-Footcandle Lines of Horizontal Illumination

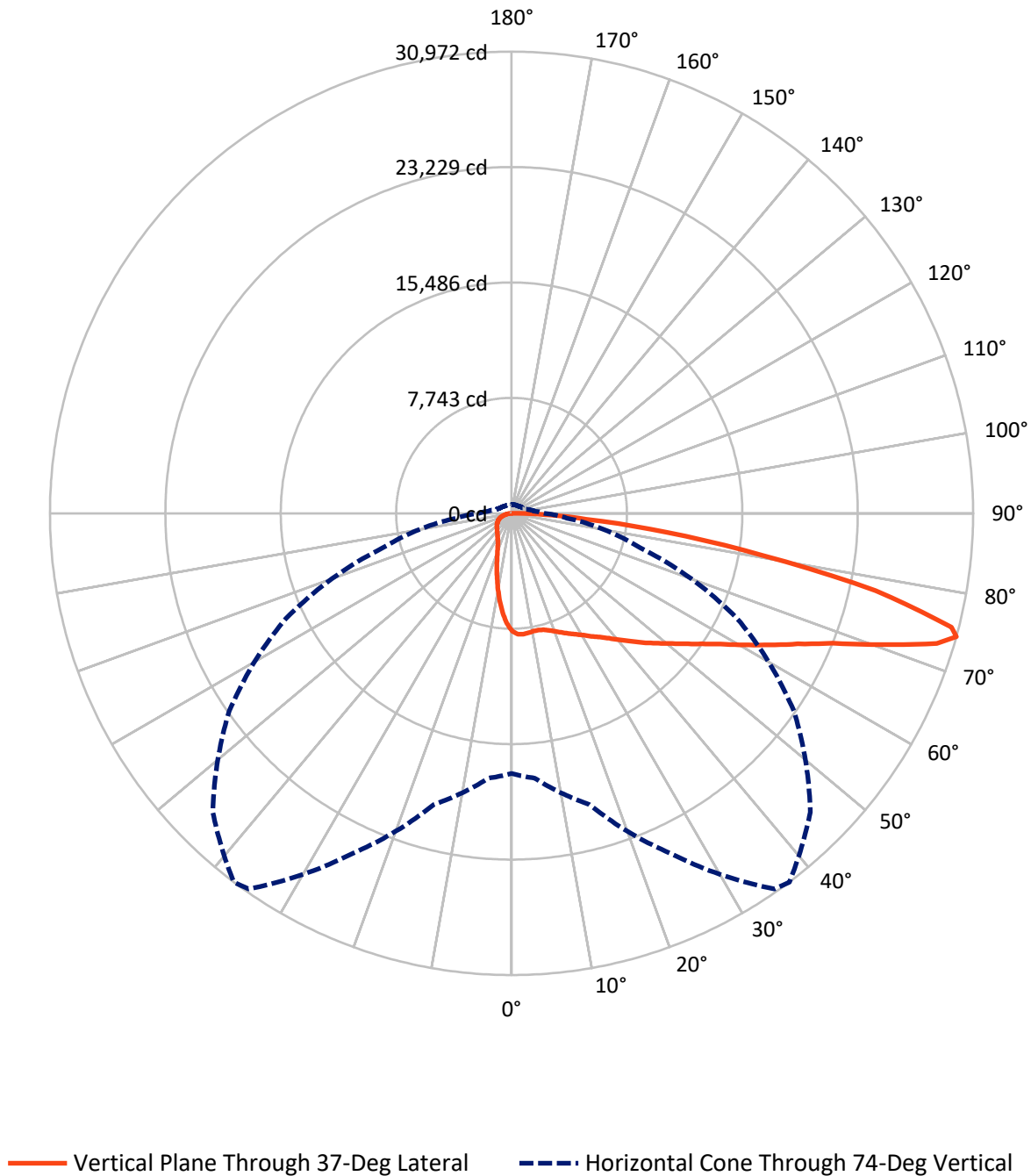
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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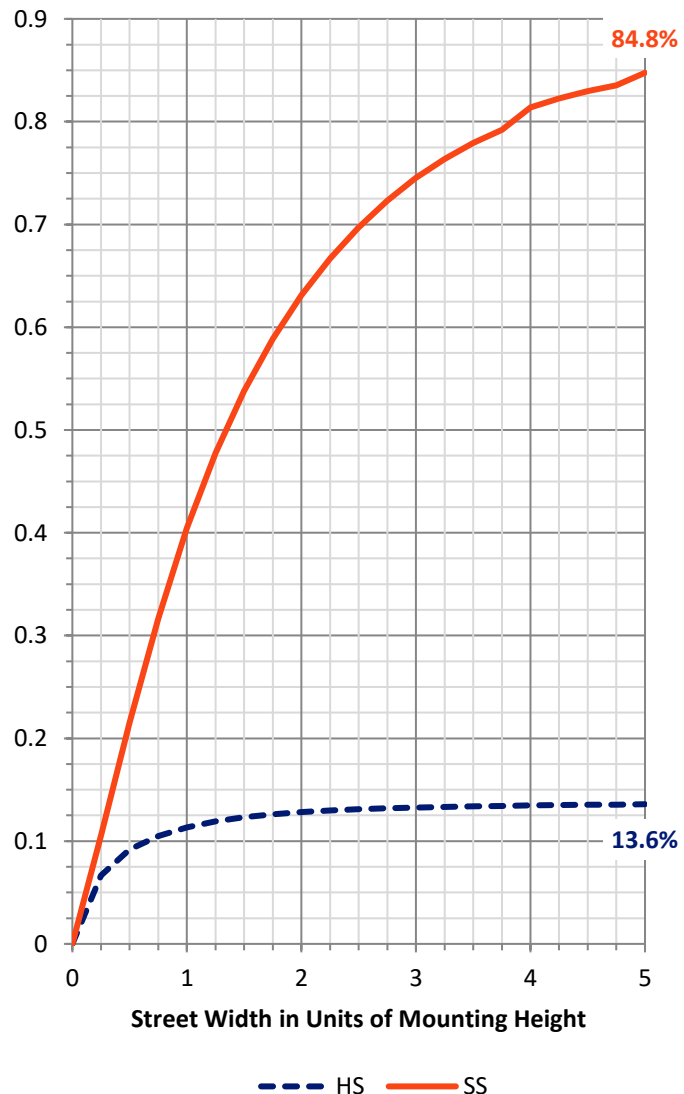
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6184.4	0.0	6184.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	38762.6	0.0	38762.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	44947.0	0.0	44947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.4	1.6
10°-20°	1787.6	4.0
20°-30°	2754.4	6.1
30°-40°	4005.3	8.9
40°-50°	5895.1	13.1
50°-60°	8278.6	18.4
60°-70°	10478.1	23.3
70°-80°	9226.4	20.5
80°-90°	1824.3	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°	44947.0	100.0
0°-180°	44947.0	100.0

Coefficient of Utilization



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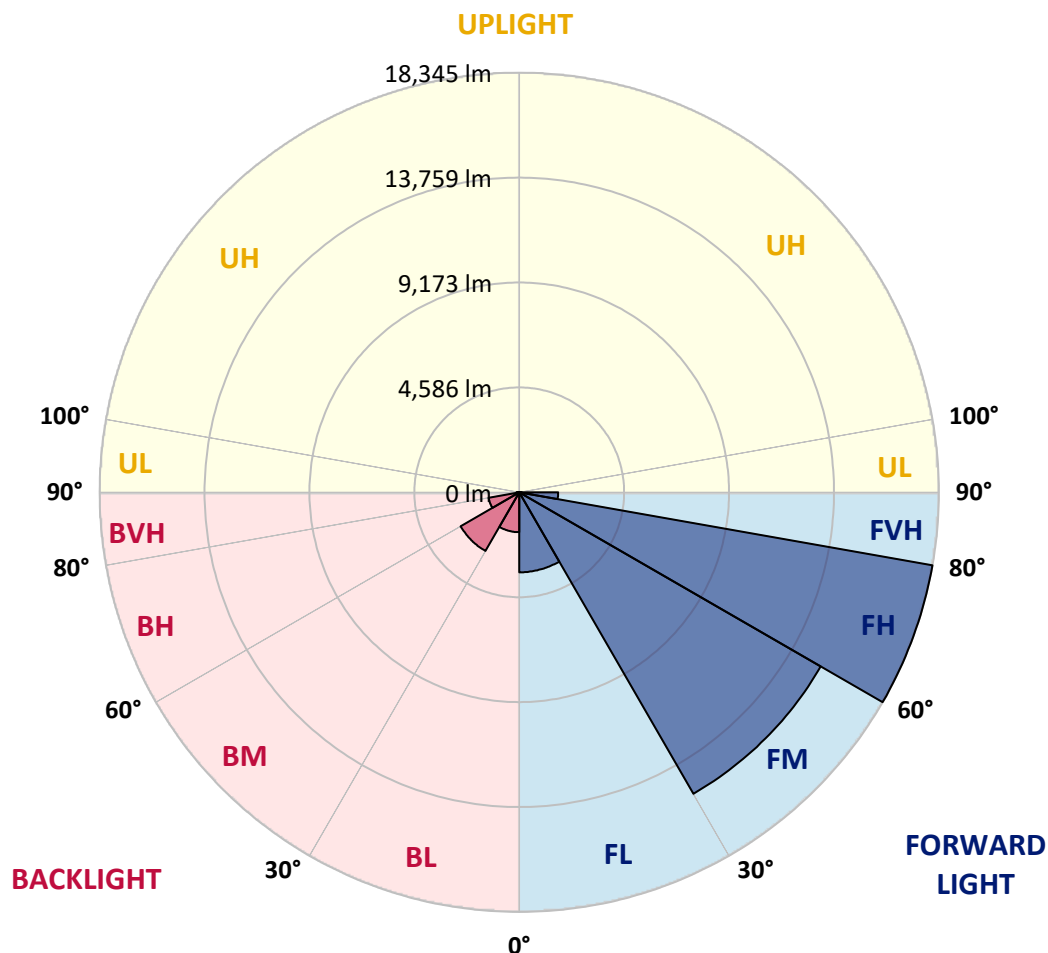
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3497.4	7.8			
FM	(30°-60°)	15219.4	33.9			
FH	(60°-80°)	18345.1	40.8			G5
FVH	(80°-90°)	1700.7	3.8			G5
BL	(0°-30°)	1742.0	3.9	B3/2500		
BM	(30°-60°)	2959.5	6.6	B3/5000		
BH	(60°-80°)	1359.4	3.0	B3/2500		G3/2500
BVH	(80°-90°)	123.5	0.3			G2/225
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°	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5
2.5°	8190.2	8191.8	8190.2	8177.6	8147.5	8122.1	8101.6	8071.5	8005.0	7954.3	7878.3
5°	8267.8	8258.3	8252.0	8228.2	8180.7	8152.2	8112.6	8055.6	7946.4	7845.1	7721.6
7.5°	8231.4	8220.3	8206.1	8177.6	8123.7	8100.0	8044.6	7970.2	7838.7	7705.7	7528.4
10°	8119.0	8115.8	8109.5	8103.1	8057.2	8038.2	7987.6	7908.4	7778.6	7617.1	7409.7
12.5°	7993.9	8001.8	8027.1	8060.4	8039.8	8030.3	7998.7	7944.8	7811.8	7637.7	7387.5
15°	7914.7	7936.9	8005.0	8092.1	8109.5	8106.3	8098.4	8063.6	7922.7	7729.5	7438.2
17.5°	7887.8	7924.2	8054.1	8198.1	8248.8	8259.9	8263.1	8202.9	8046.1	7841.9	7490.4
20°	7936.9	7982.8	8172.8	8370.7	8451.5	8457.8	8443.5	8339.1	8163.3	7938.5	7518.9
22.5°	8085.7	8126.9	8364.4	8587.6	8679.5	8689.0	8646.2	8487.9	8286.8	8052.5	7558.5
25°	8372.3	8423.0	8660.5	8883.7	8931.2	8932.8	8871.0	8674.7	8448.3	8212.4	7644.0
27.5°	8746.0	8796.6	9010.4	9228.8	9203.5	9189.3	9105.4	8909.0	8658.9	8432.5	7796.0
30°	9162.3	9217.8	9420.4	9575.6	9515.4	9486.9	9418.8	9165.5	8951.8	8733.3	8028.7
32.5°	9593.0	9643.7	9821.0	9927.1	9851.1	9838.4	9735.5	9504.3	9333.3	9192.4	8405.5
35°	10034.7	10071.1	10245.3	10305.5	10204.1	10201.0	10172.5	9960.3	9852.7	9919.1	8953.4
37.5°	10486.0	10495.5	10644.3	10647.5	10617.4	10630.0	10660.1	10527.1	10557.2	10764.6	9665.8
40°	10888.1	10913.4	11021.1	11054.4	11106.6	11150.9	11301.3	11214.3	11447.0	11814.3	10552.5
42.5°	11185.8	11234.8	11407.4	11492.9	11662.3	11732.0	11944.1	12024.9	12493.5	13044.5	11606.9
45°	11437.5	11513.5	11790.6	11966.3	12252.9	12374.8	12678.8	12949.5	13676.2	14379.2	12716.8
47.5°	11709.8	11806.4	12153.1	12488.8	12878.3	13016.0	13568.6	13973.9	14938.1	15721.8	13763.3
50°	12110.4	12184.8	12523.6	13050.8	13536.9	13714.2	14479.0	15060.0	16220.5	17001.1	14670.5
52.5°	12669.3	12640.8	12927.4	13666.7	14319.0	14537.5	15451.1	16215.8	17520.4	18158.5	15436.8
55°	13231.3	13183.8	13384.9	14311.1	15231.0	15460.6	16521.4	17376.3	18756.9	19200.2	16024.2
57.5°	13856.7	13766.5	13935.9	15037.8	16269.6	16543.5	17719.9	18609.7	19972.9	20042.5	16397.9
60°	14501.1	14379.2	14569.2	15938.7	17588.5	17911.5	19122.7	19813.0	21119.2	20717.0	16518.2
62.5°	15064.8	14979.3	15272.2	16944.1	19075.2	19429.8	20500.1	21092.2	22249.6	20997.2	16084.4
65°	15557.2	15571.4	16078.0	18074.5	20732.8	21111.2	22080.2	22669.2	23139.4	20831.0	15069.5
67.5°	16144.5	16225.3	17089.8	19562.8	22819.6	23234.4	24379.1	24388.6	23636.6	19855.7	13071.4
70°	17001.1	17167.3	18481.4	21627.4	25786.6	26356.6	27240.1	25398.7	22938.3	17211.7	10284.9
72.5°	17761.1	18071.4	19961.8	23989.6	29402.8	29835.0	28913.6	24816.1	20020.4	12898.9	6407.5
74°	17452.3	17837.1	20230.9	25153.3	30764.4	30971.8	28348.3	23115.7	16692.4	8932.8	3723.8
75°	16787.3	17205.3	19838.3	25142.2	30591.8	30476.3	26983.6	21173.0	13747.5	6092.4	2477.8
77.5°	13548.0	13989.7	16716.1	21548.2	25083.7	24974.4	20728.1	14203.5	6021.2	1998.1	1258.7
80°	7876.7	8214.0	10376.7	13684.2	16914.0	17111.9	13631.9	7028.1	2368.6	1122.5	853.4
82.5°	3499.0	3731.8	5012.6	6985.4	10207.3	10462.2	7138.9	3682.7	1462.9	682.4	513.0
85°	2295.7	2468.3	3043.0	3326.4	4860.6	5034.8	3494.3	2867.3	965.8	375.2	376.8
87.5°	1651.3	1817.6	2260.9	1974.3	2230.8	2112.1	1901.5	2653.6	387.9	213.7	126.7
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°	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5	7919.5
2.5°	7845.1	7819.7	7762.7	7655.1	7594.9	7544.3	7460.3	7411.3	7389.1	7387.5	7397.0
5°	7650.3	7591.8	7444.5	7264.0	7119.9	6988.5	6825.5	6727.3	6657.6	6616.5	6627.5
7.5°	7423.9	7332.1	7100.9	6812.8	6581.6	6326.7	6075.0	5924.6	5807.4	5720.3	5736.2
10°	7268.8	7142.1	6804.9	6390.1	6005.3	5634.8	5288.1	5080.7	4916.0	4789.4	4798.9
12.5°	7216.5	7045.5	6578.5	6024.3	5484.4	4977.8	4525.0	4206.7	4037.3	3893.2	3904.3
15°	7224.4	6994.9	6388.5	5695.0	5015.8	4377.7	3828.3	3456.3	3226.7	3126.9	3128.5
17.5°	7230.8	6936.3	6189.0	5341.9	4551.9	3817.2	3220.4	2843.5	2626.6	2534.8	2536.4
20°	7210.2	6841.3	5942.0	4936.6	4067.4	3302.7	2724.8	2405.0	2240.3	2169.1	2169.1
22.5°	7183.3	6728.9	5663.3	4529.7	3589.3	2856.2	2370.1	2126.3	2031.3	1983.8	1982.2
25°	7195.9	6645.0	5378.3	4111.7	3149.1	2500.0	2134.2	1972.7	1909.4	1879.3	1877.8
27.5°	7264.0	6605.4	5115.5	3695.3	2764.4	2232.4	1975.9	1861.9	1820.8	1801.8	1801.8
30°	7387.5	6605.4	4841.6	3340.7	2444.6	2034.5	1854.0	1776.4	1747.9	1735.3	1735.3
32.5°	7602.8	6641.8	4577.2	2989.2	2189.7	1879.3	1752.7	1700.4	1678.3	1671.9	1671.9
35°	7973.3	6765.3	4319.1	2656.7	1983.8	1752.7	1656.1	1626.0	1610.2	1608.6	1613.3
37.5°	8494.2	7017.0	4076.9	2411.3	1838.2	1649.8	1575.3	1551.6	1542.1	1550.0	1556.3
40°	9149.7	7359.0	3856.8	2189.7	1727.3	1567.4	1500.9	1485.1	1480.4	1491.4	1500.9
42.5°	9941.3	7821.3	3676.3	2029.7	1641.8	1497.8	1437.6	1418.6	1413.9	1426.5	1439.2
45°	10797.9	8318.5	3549.7	1911.0	1575.3	1445.5	1382.2	1361.6	1352.1	1358.4	1372.7
47.5°	11576.8	8788.7	3499.0	1827.1	1512.0	1401.2	1333.1	1307.8	1291.9	1288.8	1299.9
50°	12233.9	9138.6	3522.8	1776.4	1461.4	1352.1	1285.6	1257.1	1233.4	1219.1	1227.0
52.5°	12712.0	9358.7	3544.9	1754.3	1421.8	1298.3	1233.4	1206.4	1174.8	1151.0	1151.0
55°	13058.8	9409.3	3495.8	1736.8	1391.7	1239.7	1174.8	1149.4	1117.8	1090.9	1087.7
57.5°	13194.9	9266.8	3313.8	1711.5	1371.1	1184.3	1113.0	1094.0	1067.1	1035.5	1033.9
60°	13011.3	8826.7	2962.3	1657.7	1344.2	1138.4	1051.3	1038.6	1026.0	995.9	994.3
62.5°	12273.5	7860.9	2507.9	1548.4	1290.4	1089.3	994.3	1000.6	1002.2	981.6	978.5
65°	10935.6	6534.1	2064.6	1405.9	1209.6	1030.7	935.7	965.8	983.2	980.0	975.3
67.5°	8991.4	5085.4	1749.5	1255.5	1103.5	950.0	872.4	907.2	921.5	932.5	929.4
70°	6673.5	3586.1	1447.1	1097.2	975.3	855.0	790.0	807.5	798.0	810.6	815.4
72.5°	3720.7	2151.7	1179.5	938.9	842.3	744.1	698.2	695.1	674.5	674.5	674.5
74°	2232.4	1578.5	1037.0	840.7	761.6	671.3	631.7	617.5	598.5	600.1	598.5
75°	1795.4	1356.9	951.5	775.8	704.6	628.6	589.0	570.0	555.7	555.7	554.1
77.5°	1133.6	1030.7	766.3	617.5	563.6	517.7	490.8	465.5	465.5	463.9	462.3
80°	856.5	820.1	596.9	467.1	432.2	397.4	380.0	368.9	368.9	373.7	372.1
82.5°	587.4	617.5	419.6	326.2	308.7	283.4	280.2	281.8	277.1	270.7	269.2
85°	429.1	463.9	283.4	205.8	188.4	172.6	185.2	191.6	183.7	169.4	163.1
87.5°	164.7	304.0	152.0	85.5	79.2	68.1	79.2	82.3	88.7	69.7	71.2
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)