

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: P319943

Luminaire Tested: **GAN-SA9D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319943
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-SA9D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 55121 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

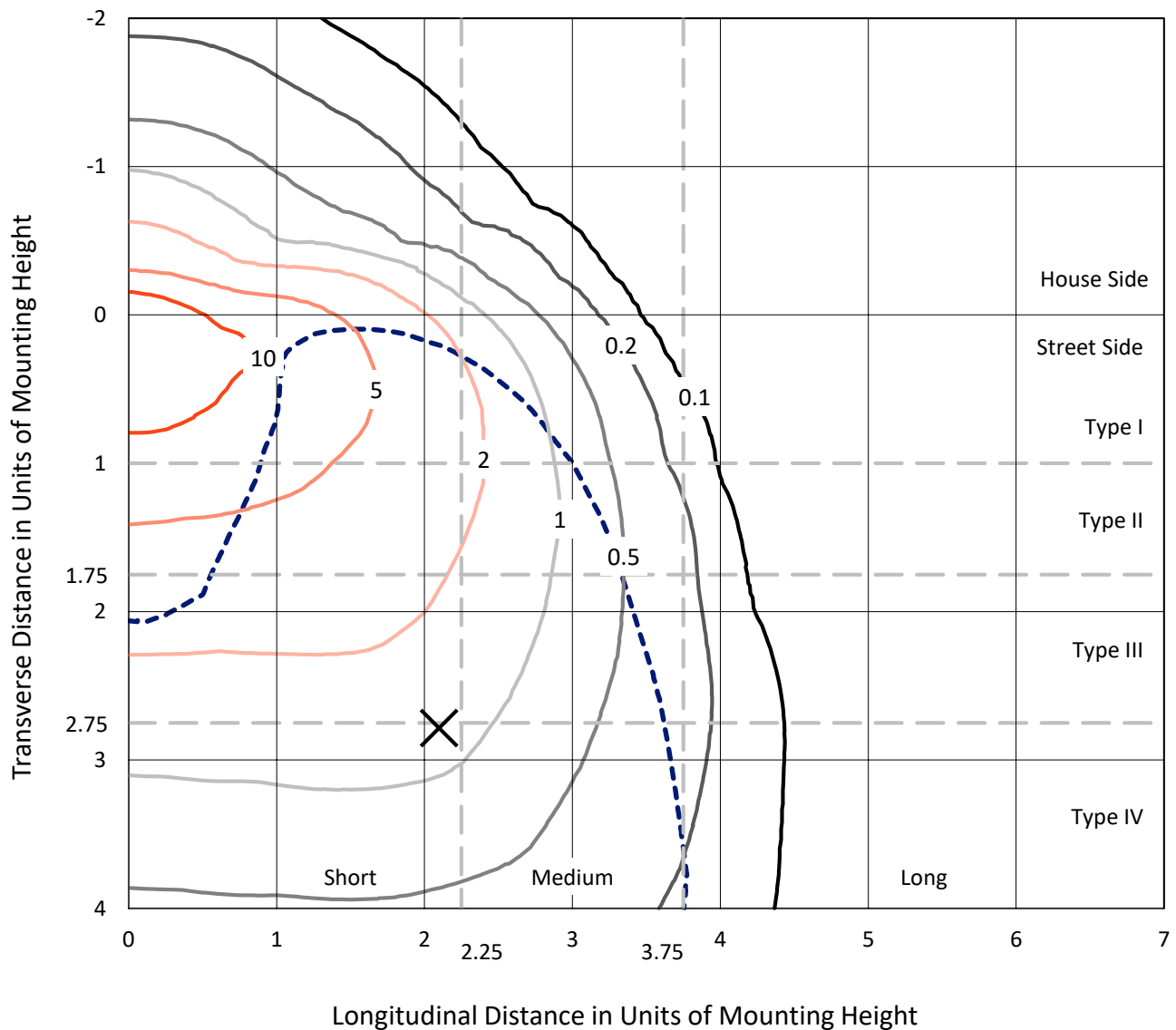
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

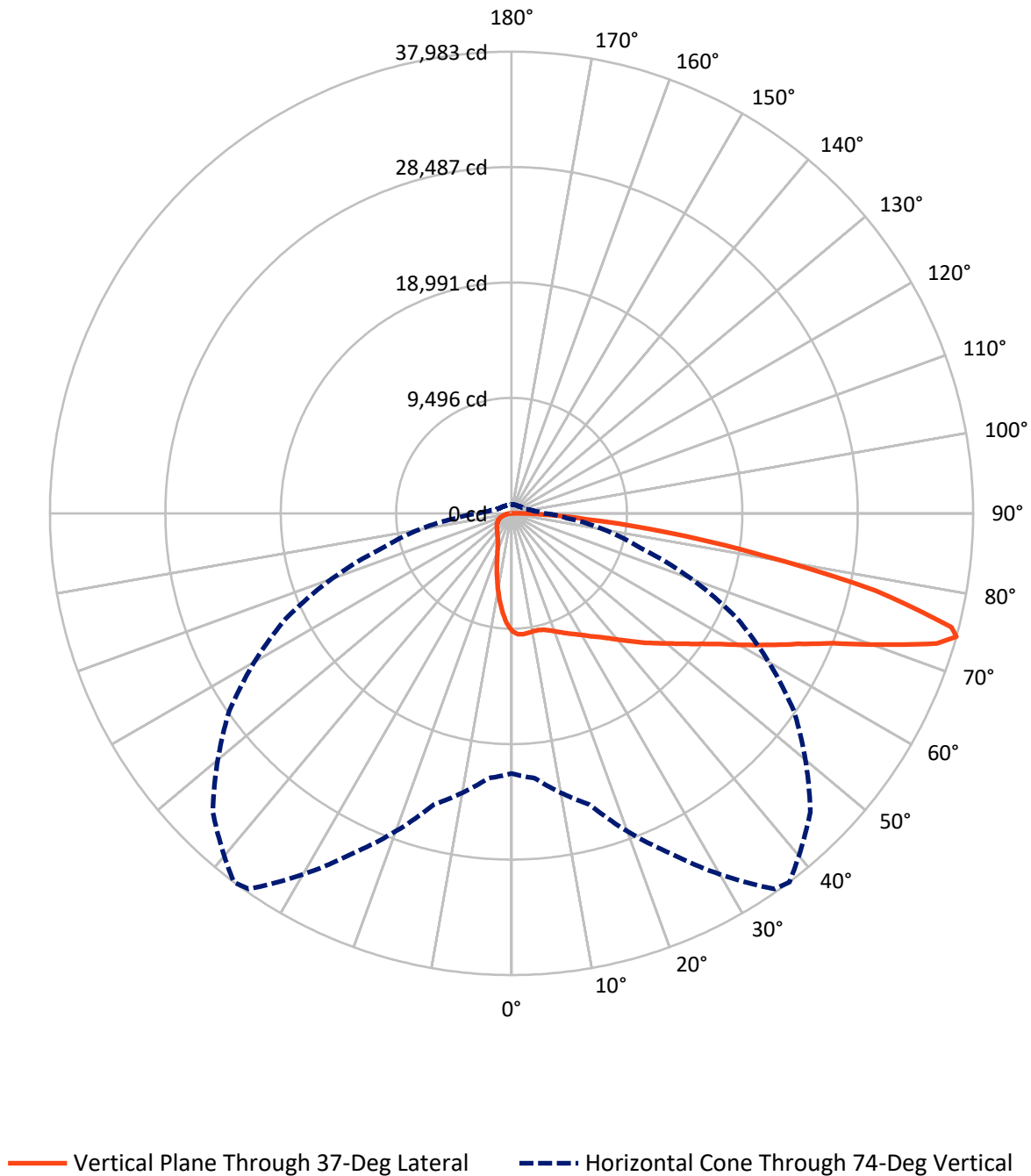
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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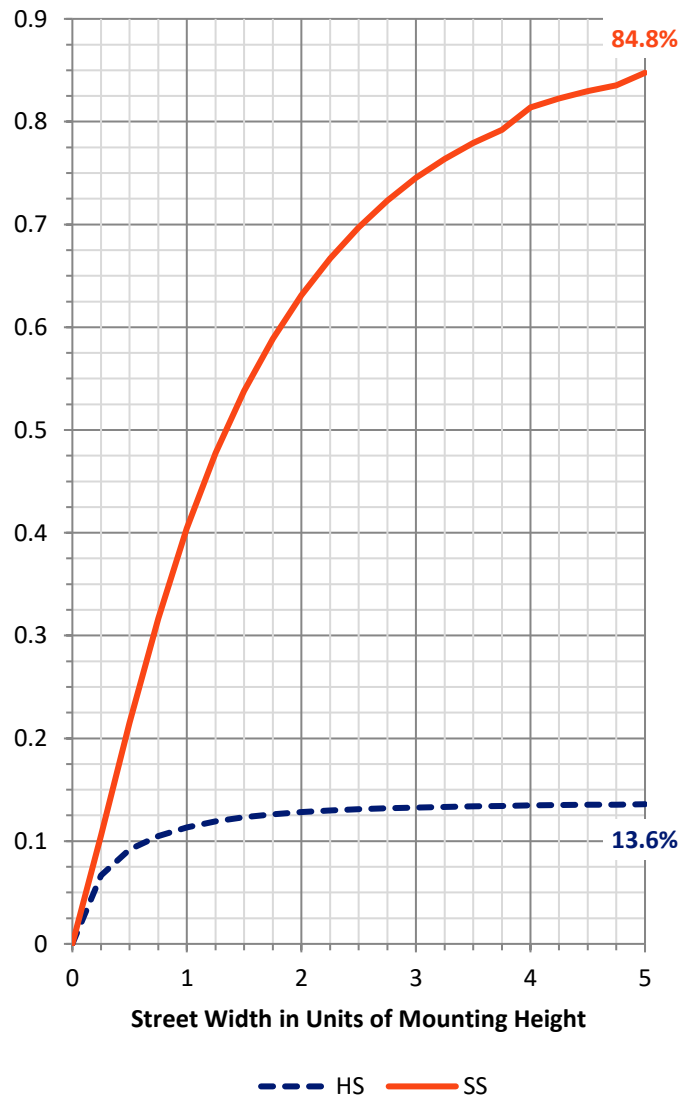
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7584.3	0.0	7584.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	47536.7	0.0	47536.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	55121.0	0.0	55121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.3	1.6
10°-20°	2192.3	4.0
20°-30°	3377.8	6.1
30°-40°	4911.9	8.9
40°-50°	7229.5	13.1
50°-60°	10152.4	18.4
60°-70°	12849.9	23.3
70°-80°	11314.8	20.5
80°-90°	2237.2	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°	55121.0	100.0
0°-180°	55121.0	100.0

Coefficient of Utilization



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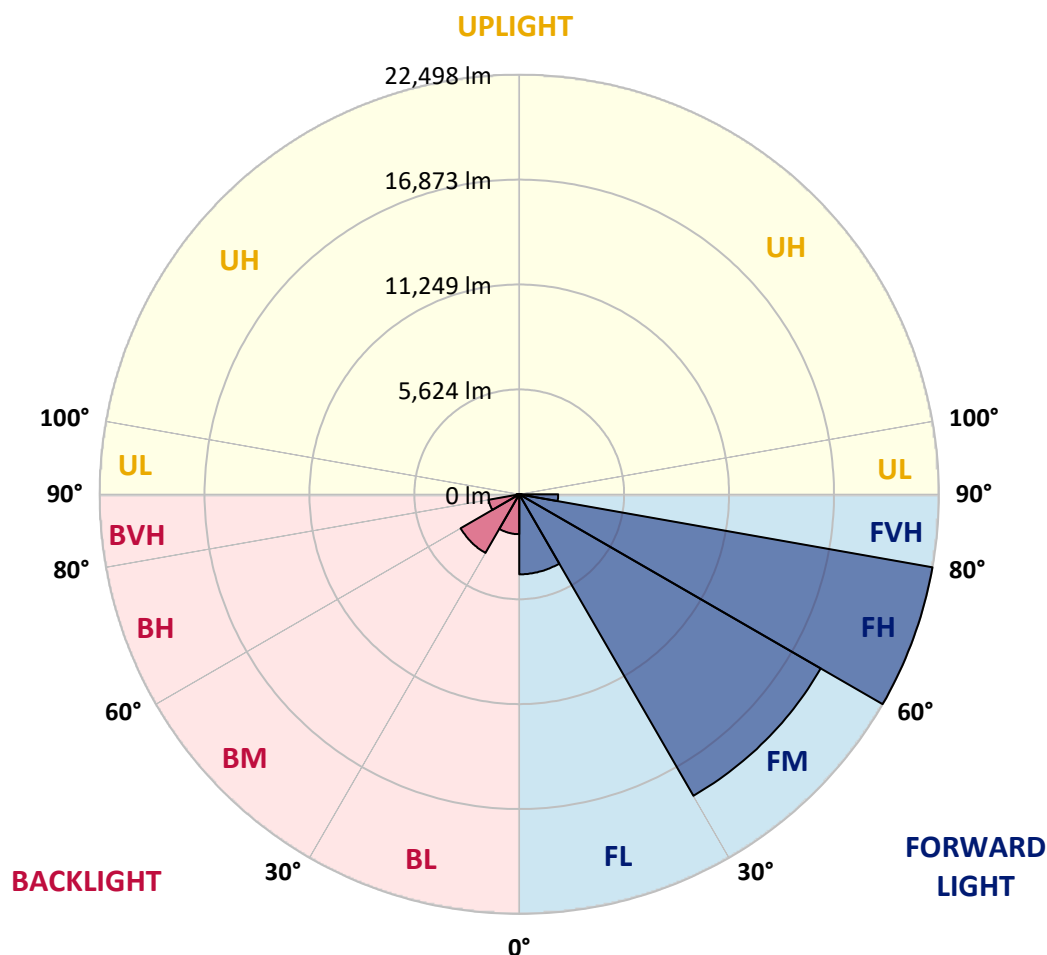
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4289.1	7.8			
FM	(30°-60°)	18664.4	33.9			
FH	(60°-80°)	22497.6	40.8			G5
FVH	(80°-90°)	2085.7	3.8			G5
BL	(0°-30°)	2136.3	3.9	B3/2500		
BM	(30°-60°)	3629.4	6.6	B3/5000		
BH	(60°-80°)	1667.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	151.5	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°	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1
2.5°	10044.1	10046.1	10044.1	10028.6	9991.7	9960.6	9935.4	9898.5	9817.0	9754.8	9661.6
5°	10139.3	10127.6	10119.9	10090.7	10032.5	9997.5	9949.0	9879.1	9745.1	9620.8	9469.4
7.5°	10094.6	10081.0	10063.5	10028.6	9962.6	9933.5	9865.5	9774.2	9613.1	9450.0	9232.5
10°	9956.8	9952.9	9945.1	9937.3	9881.0	9857.7	9795.6	9698.5	9539.3	9341.3	9086.9
12.5°	9803.4	9813.1	9844.1	9884.9	9859.7	9848.0	9809.2	9743.2	9580.1	9366.5	9059.7
15°	9706.3	9733.5	9817.0	9923.7	9945.1	9941.2	9931.5	9888.8	9716.0	9479.1	9121.8
17.5°	9673.3	9717.9	9877.1	10053.8	10116.0	10129.6	10133.4	10059.7	9867.4	9617.0	9185.9
20°	9733.5	9789.8	10022.8	10265.5	10364.5	10372.3	10354.8	10226.6	10011.1	9735.4	9220.9
22.5°	9916.0	9966.5	10257.7	10531.5	10644.1	10655.7	10603.3	10409.2	10162.6	9875.2	9269.4
25°	10267.4	10329.5	10620.8	10894.6	10952.8	10954.8	10879.0	10638.3	10360.6	10071.3	9374.3
27.5°	10725.6	10787.8	11049.9	11317.8	11286.8	11269.3	11166.4	10925.6	10618.9	10341.2	9560.7
30°	11236.3	11304.3	11552.8	11743.1	11669.3	11634.3	11550.8	11240.2	10978.1	10710.1	9846.1
32.5°	11764.4	11826.6	12044.0	12174.1	12080.9	12065.4	11939.2	11655.7	11446.0	11273.2	10308.2
35°	12306.1	12350.8	12564.4	12638.2	12513.9	12510.0	12475.1	12214.9	12082.9	12164.4	10980.0
37.5°	12859.5	12871.2	13053.7	13057.6	13020.7	13036.2	13073.1	12910.0	12946.9	13201.2	11853.7
40°	13352.7	13383.8	13515.8	13556.6	13620.6	13675.0	13859.5	13752.7	14038.1	14488.6	12941.1
42.5°	13717.7	13777.9	13989.5	14094.4	14302.2	14387.6	14647.8	14746.8	15321.5	15997.2	14234.2
45°	14026.4	14119.6	14459.4	14675.0	15026.4	15175.9	15548.7	15880.7	16771.9	17634.0	15595.3
47.5°	14360.4	14478.8	14904.1	15315.7	15793.3	15962.3	16639.9	17137.0	18319.4	19280.5	16878.7
50°	14851.6	14942.9	15358.4	16005.0	16601.1	16818.5	17756.3	18468.9	19892.1	20849.4	17991.3
52.5°	15537.0	15502.1	15853.5	16760.3	17560.2	17828.2	18948.5	19886.3	21486.2	22268.7	18931.0
55°	16226.3	16168.1	16414.7	17550.5	18678.6	18960.2	20261.1	21309.6	23002.7	23546.3	19651.4
57.5°	16993.3	16882.6	17090.4	18441.7	19952.3	20288.2	21730.9	22822.1	24493.8	24579.3	20109.6
60°	17783.5	17634.0	17867.0	19546.5	21569.7	21965.8	23451.2	24297.7	25899.6	25406.4	20257.2
62.5°	18474.7	18369.9	18729.1	20779.5	23392.9	23827.9	25140.4	25866.6	27285.9	25750.1	19725.2
65°	19078.6	19096.1	19717.4	22165.8	25425.8	25889.9	27078.2	27800.5	28377.1	25546.2	18480.6
67.5°	19799.0	19898.0	20958.1	23991.0	27984.9	28493.6	29897.4	29909.1	28986.8	24350.2	16030.2
70°	20849.4	21053.3	22664.8	26522.9	31623.6	32322.6	33406.0	31147.9	28130.5	21107.6	12612.9
72.5°	21781.4	22161.9	24480.3	29419.8	36058.3	36588.4	35458.3	30433.3	24552.1	15818.6	7857.8
74°	21402.7	21874.6	24810.3	30846.9	37728.1	37982.5	34765.1	28348.0	20470.8	10954.8	4566.7
75°	20587.3	21099.9	24328.8	30833.3	37516.5	37374.7	33091.4	25965.6	16859.3	7471.4	3038.7
77.5°	16614.7	17156.4	20499.9	26425.8	30761.5	30627.5	25420.0	17418.5	7384.1	2450.4	1543.6
80°	9659.7	10073.3	12725.5	16781.6	20742.6	20985.3	16717.6	8619.0	2904.7	1376.6	1046.5
82.5°	4291.0	4576.5	6147.2	8566.5	12517.8	12830.4	8754.9	4516.3	1794.1	836.8	629.1
85°	2815.4	3027.0	3731.8	4079.4	5960.8	6174.4	4285.2	3516.3	1184.4	460.2	462.1
87.5°	2025.1	2229.0	2772.7	2421.2	2735.8	2590.2	2331.9	3254.2	475.7	262.1	155.3
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°	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1	9712.1
2.5°	9620.8	9589.8	9519.9	9387.9	9314.1	9251.9	9149.0	9088.8	9061.7	9059.7	9071.4
5°	9382.0	9310.2	9129.6	8908.3	8731.6	8570.4	8370.4	8250.0	8164.6	8114.1	8127.7
7.5°	9104.4	8991.8	8708.3	8354.9	8071.4	7758.8	7450.1	7265.6	7122.0	7015.2	7034.6
10°	8914.1	8758.8	8345.2	7836.5	7364.7	6910.3	6485.1	6230.7	6028.8	5873.5	5885.1
12.5°	8850.0	8640.3	8067.5	7388.0	6725.9	6104.5	5549.2	5158.9	4951.2	4774.5	4788.1
15°	8859.7	8578.2	7834.5	6984.1	6151.1	5368.6	4694.9	4238.6	3957.1	3834.7	3836.7
17.5°	8867.5	8506.3	7589.9	6551.1	5582.2	4681.3	3949.3	3487.2	3221.2	3108.6	3110.5
20°	8842.2	8389.8	7287.0	6054.0	4988.1	4050.3	3341.6	2949.4	2747.4	2660.1	2660.1
22.5°	8809.2	8252.0	6945.3	5555.0	4401.7	3502.7	2906.6	2607.6	2491.1	2432.9	2430.9
25°	8824.8	8149.1	6595.8	5042.5	3861.9	3065.9	2617.3	2419.3	2341.6	2304.7	2302.8
27.5°	8908.3	8100.5	6273.5	4531.8	3390.1	2737.7	2423.2	2283.4	2232.9	2209.6	2209.6
30°	9059.7	8100.5	5937.5	4096.9	2997.9	2495.0	2273.7	2178.5	2143.6	2128.0	2128.0
32.5°	9323.8	8145.2	5613.3	3665.8	2685.3	2304.7	2149.4	2085.3	2058.1	2050.4	2050.4
35°	9778.1	8296.6	5296.8	3258.1	2432.9	2149.4	2031.0	1994.1	1974.7	1972.7	1978.5
37.5°	10416.9	8605.4	4999.7	2957.1	2254.2	2023.2	1931.9	1902.8	1891.2	1900.9	1908.6
40°	11220.8	9024.8	4729.8	2685.3	2118.3	1922.2	1840.7	1821.3	1815.4	1829.0	1840.7
42.5°	12191.6	9591.7	4508.5	2489.2	2013.5	1836.8	1763.0	1739.7	1733.9	1749.4	1765.0
45°	13242.0	10201.4	4353.2	2343.6	1931.9	1772.7	1695.1	1669.8	1658.2	1665.9	1683.4
47.5°	14197.3	10778.1	4291.0	2240.7	1854.3	1718.4	1634.9	1603.8	1584.4	1580.5	1594.1
50°	15003.1	11207.2	4320.2	2178.5	1792.1	1658.2	1576.6	1541.7	1512.5	1495.1	1504.8
52.5°	15589.5	11477.1	4347.3	2151.3	1743.6	1592.1	1512.5	1479.5	1440.7	1411.6	1411.6
55°	16014.7	11539.2	4287.2	2130.0	1706.7	1520.3	1440.7	1409.6	1370.8	1337.8	1333.9
57.5°	16181.7	11364.4	4063.9	2098.9	1681.5	1452.4	1365.0	1341.7	1308.7	1269.8	1267.9
60°	15956.4	10824.7	3632.8	2032.9	1648.5	1396.0	1289.3	1273.7	1258.2	1221.3	1219.4
62.5°	15051.6	9640.3	3075.6	1898.9	1582.4	1335.9	1219.4	1227.1	1229.1	1203.8	1199.9
65°	13410.9	8013.2	2531.9	1724.2	1483.4	1264.0	1147.5	1184.4	1205.8	1201.9	1196.1
67.5°	11026.6	6236.6	2145.5	1539.7	1353.3	1165.0	1069.8	1112.6	1130.0	1143.6	1139.7
70°	8184.0	4397.8	1774.7	1345.6	1196.1	1048.5	968.9	990.2	978.6	994.1	999.9
72.5°	4562.9	2638.7	1446.5	1151.4	1033.0	912.6	856.3	852.4	827.1	827.1	827.1
74°	2737.7	1935.8	1271.8	1031.0	933.9	823.3	774.7	757.2	733.9	735.9	733.9
75°	2201.8	1664.0	1166.9	951.4	864.0	770.8	722.3	699.0	681.5	681.5	679.6
77.5°	1390.2	1264.0	939.8	757.2	691.2	634.9	601.9	570.8	570.8	568.9	567.0
80°	1050.4	1005.8	732.0	572.8	530.1	487.4	466.0	452.4	452.4	458.2	456.3
82.5°	720.4	757.2	514.5	400.0	378.6	347.6	343.7	345.6	339.8	332.0	330.1
85°	526.2	568.9	347.6	252.4	231.1	211.6	227.2	234.9	225.2	207.8	200.0
87.5°	201.9	372.8	186.4	104.8	97.1	83.5	97.1	101.0	108.7	85.4	87.4
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)