

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: P320164

Luminaire Tested: **GAN-SA0B-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320164
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-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 42710 lumens
Efficiency: N/A
Efficacy: 101.9 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): 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

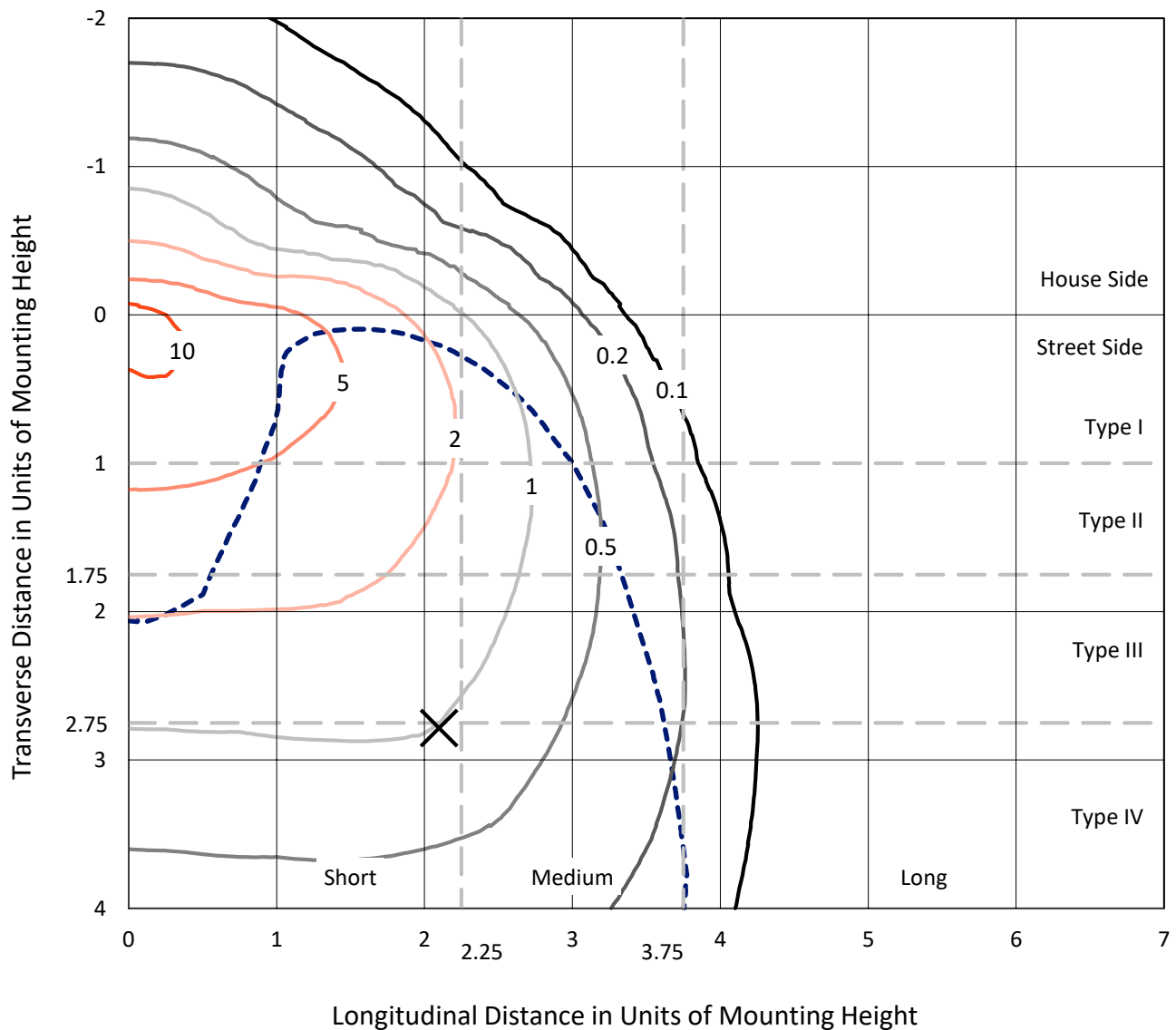


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Iso-Footcandle Lines of Horizontal Illumination

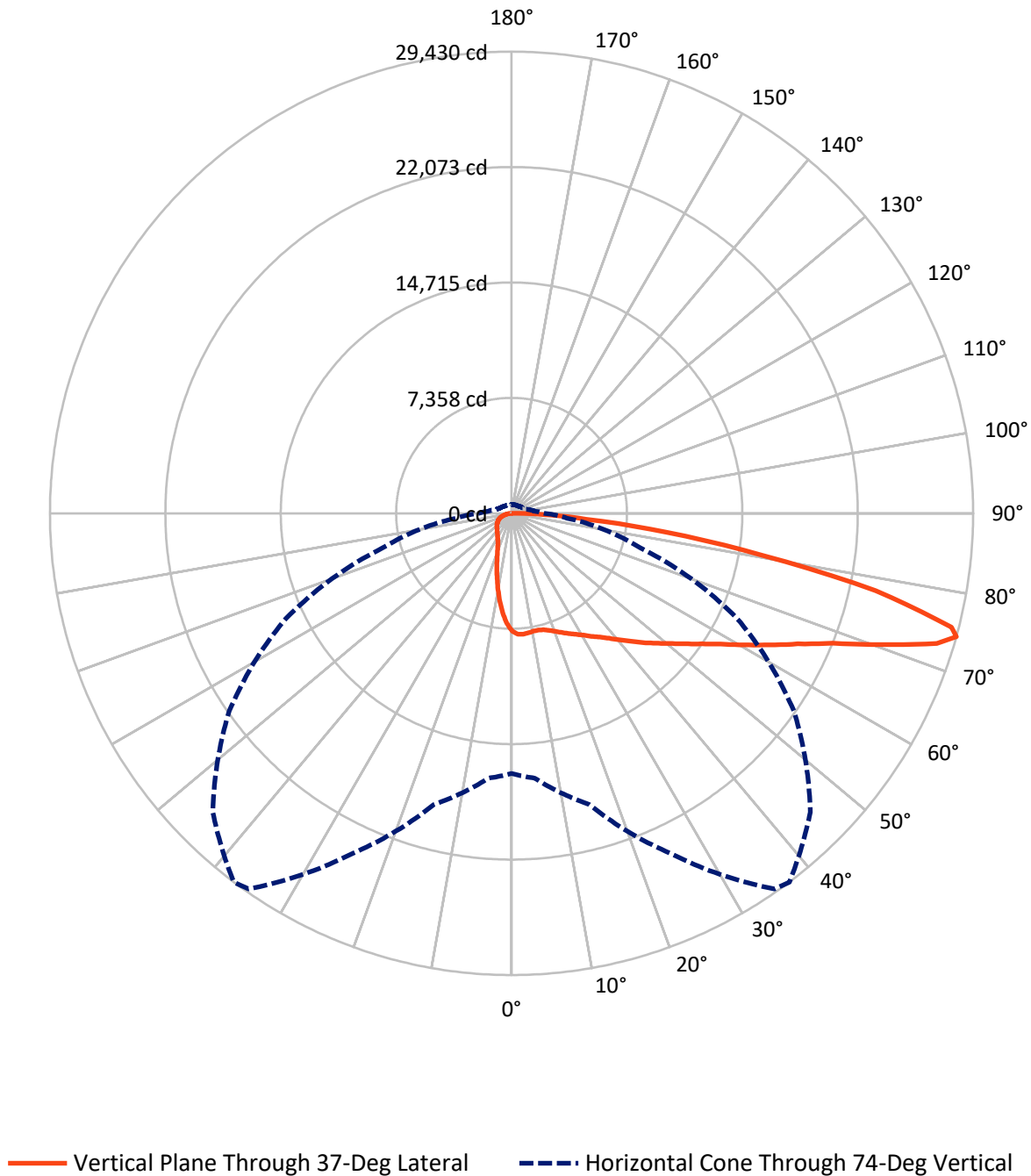
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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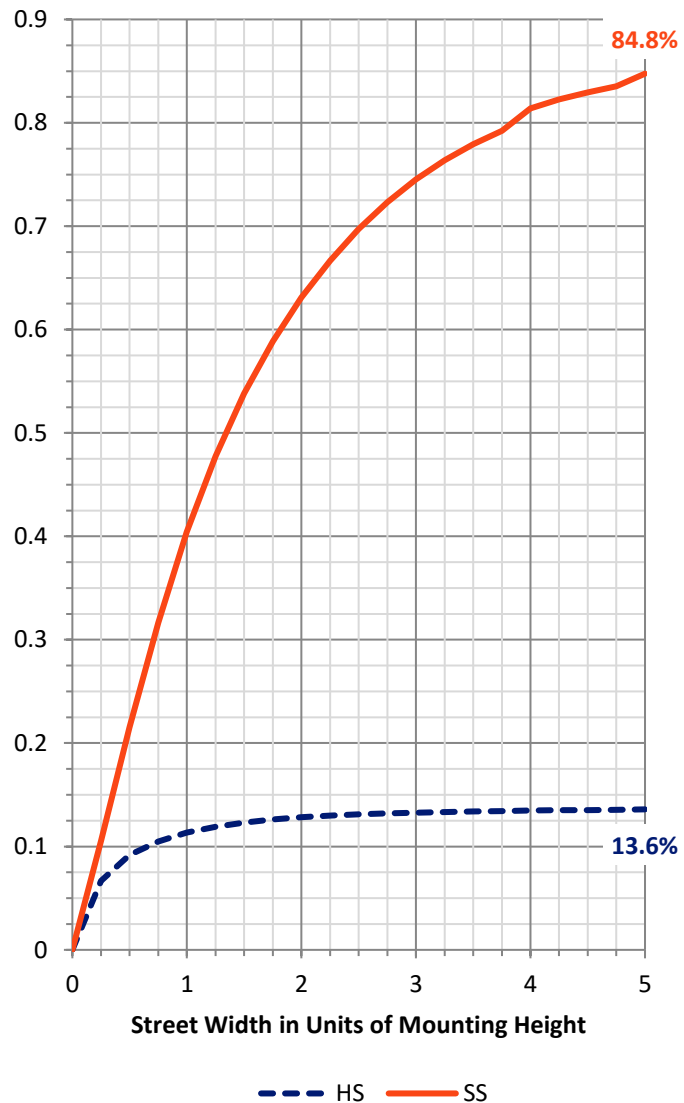
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5876.6	0.0	5876.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	36833.4	0.0	36833.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	42710.0	0.0	42710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.7	1.6
10°-20°	1698.7	4.0
20°-30°	2617.3	6.1
30°-40°	3805.9	8.9
40°-50°	5601.7	13.1
50°-60°	7866.5	18.4
60°-70°	9956.6	23.3
70°-80°	8767.2	20.5
80°-90°	1733.5	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°	42710.0	100.0
0°-180°	42710.0	100.0

Coefficient of Utilization



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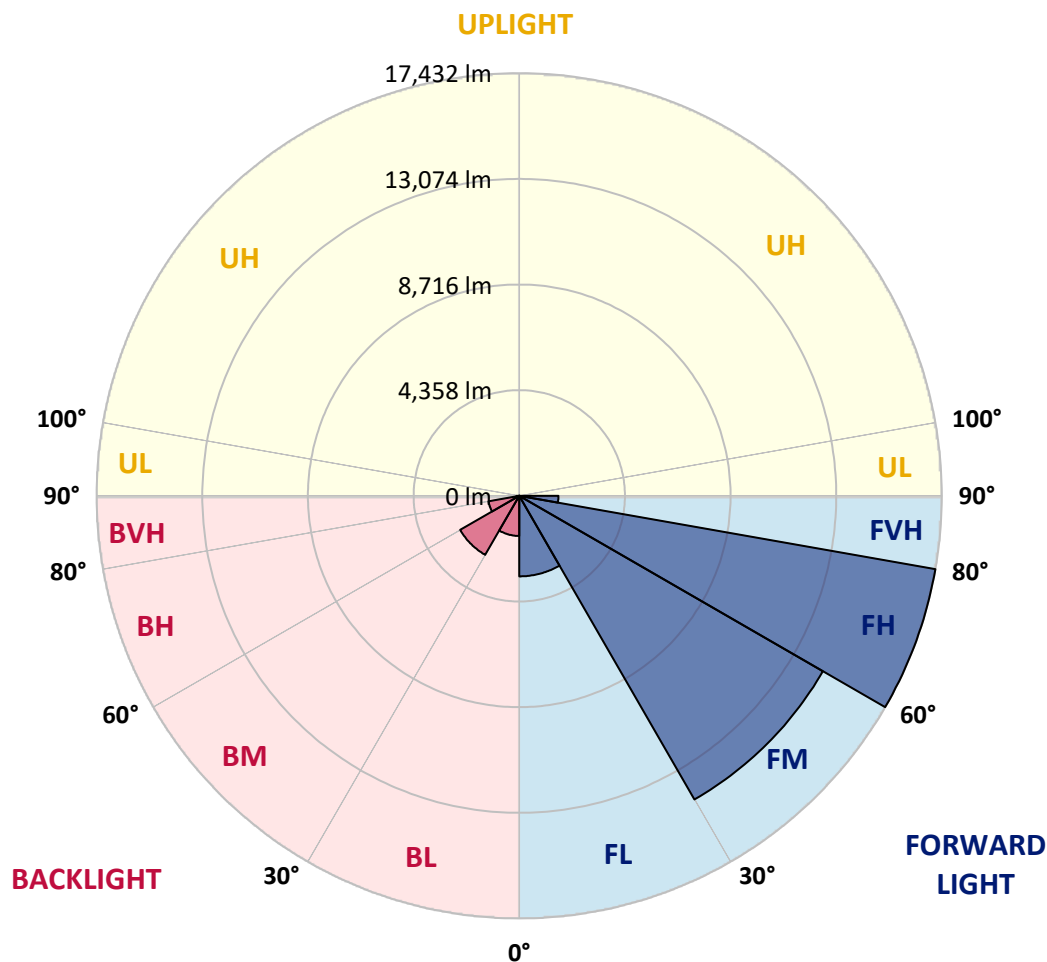
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3323.3	7.8			
FM	(30°-60°)	14462.0	33.9			
FH	(60°-80°)	17432.0	40.8			G5
FVH	(80°-90°)	1616.1	3.8			G5
BL	(0°-30°)	1655.3	3.9	B3/2500		
BM	(30°-60°)	2812.2	6.6	B3/5000		
BH	(60°-80°)	1291.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	117.4	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°	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3
2.5°	7782.6	7784.1	7782.6	7770.6	7742.0	7717.9	7698.3	7669.8	7606.6	7558.4	7486.2
5°	7856.3	7847.3	7841.3	7818.7	7773.6	7746.5	7708.9	7654.7	7550.9	7454.6	7337.3
7.5°	7821.7	7811.2	7797.6	7770.6	7719.4	7696.8	7644.2	7573.5	7448.6	7322.2	7153.7
10°	7714.9	7711.9	7705.9	7699.9	7656.2	7638.2	7590.0	7514.8	7391.4	7238.0	7040.9
12.5°	7596.0	7603.6	7627.6	7659.2	7639.7	7630.6	7600.6	7549.4	7423.0	7257.5	7019.8
15°	7520.8	7541.9	7606.6	7689.3	7705.9	7702.9	7695.3	7662.2	7528.3	7344.8	7068.0
17.5°	7495.2	7529.8	7653.2	7790.1	7838.3	7848.8	7851.8	7794.6	7645.7	7451.6	7117.6
20°	7541.9	7585.5	7766.1	7954.1	8030.8	8036.9	8023.3	7924.0	7757.0	7543.4	7144.7
22.5°	7683.3	7722.4	7948.1	8160.2	8247.5	8256.5	8215.9	8065.4	7874.4	7651.7	7182.3
25°	7955.6	8003.8	8229.4	8441.6	8486.7	8488.2	8429.5	8243.0	8027.8	7803.7	7263.6
27.5°	8310.7	8358.8	8561.9	8769.5	8745.5	8731.9	8652.2	8465.6	8227.9	8012.8	7408.0
30°	8706.3	8759.0	8951.6	9099.0	9041.8	9014.8	8950.1	8709.4	8506.2	8298.6	7629.1
32.5°	9115.6	9163.7	9332.2	9433.0	9360.8	9348.7	9251.0	9031.3	8868.8	8734.9	7987.2
35°	9535.3	9569.9	9735.4	9792.6	9696.3	9693.3	9666.2	9464.6	9362.3	9425.5	8507.8
37.5°	9964.1	9973.1	10114.5	10117.5	10088.9	10101.0	10129.6	10003.2	10031.8	10228.9	9184.8
40°	10346.2	10370.3	10472.6	10504.2	10553.8	10596.0	10738.9	10656.1	10877.3	11226.3	10027.3
42.5°	10629.0	10675.7	10839.7	10920.9	11081.9	11148.1	11349.7	11426.4	11871.7	12395.3	11029.2
45°	10868.3	10940.5	11203.8	11370.8	11643.1	11758.9	12047.8	12305.0	12995.6	13663.6	12083.9
47.5°	11127.0	11218.8	11548.3	11867.2	12237.3	12368.2	12893.3	13278.4	14194.6	14939.3	13078.3
50°	11507.7	11578.4	11900.3	12401.3	12863.2	13031.7	13758.3	14310.5	15413.2	16155.0	13940.4
52.5°	12038.7	12011.7	12284.0	12986.5	13606.4	13814.0	14682.1	15408.7	16648.4	17254.7	14668.5
55°	12572.8	12527.7	12718.8	13598.9	14473.0	14691.1	15699.1	16511.5	17823.4	18244.7	15226.7
57.5°	13167.1	13081.3	13242.3	14289.4	15459.9	15720.2	16838.0	17683.5	18978.8	19045.0	15581.7
60°	13779.4	13663.6	13844.1	15145.5	16713.1	17020.0	18170.9	18826.9	20068.1	19685.9	15696.1
62.5°	14315.0	14233.7	14512.1	16100.8	18125.8	18462.8	19479.8	20042.5	21142.3	19952.2	15283.9
65°	14782.9	14796.4	15277.8	17175.0	19701.0	20060.5	20981.3	21540.9	21987.8	19794.3	14319.5
67.5°	15341.0	15417.8	16239.2	18589.2	21683.9	22078.0	23165.8	23174.8	22460.2	18867.5	12420.9
70°	16155.0	16312.9	17561.6	20551.0	24503.2	25044.8	25884.3	24134.6	21796.7	16355.0	9773.0
72.5°	16877.1	17172.0	18968.3	22795.7	27939.4	28350.1	27474.5	23581.0	19024.0	12256.9	6088.6
74°	16583.7	16949.3	19224.1	23901.4	29233.3	29430.4	26937.5	21965.2	15861.6	8488.2	3538.5
75°	15951.8	16349.0	18851.0	23890.9	29069.3	28959.5	25640.6	20119.2	13063.3	5789.2	2354.5
77.5°	12873.7	13293.5	15884.1	20475.8	23835.2	23731.4	19696.5	13496.6	5721.5	1898.6	1196.1
80°	7484.7	7805.2	9860.3	13003.1	16072.2	16260.3	12953.4	6678.3	2250.7	1066.7	810.9
82.5°	3324.9	3546.0	4763.1	6637.7	9699.3	9941.5	6783.6	3499.4	1390.1	648.4	487.4
85°	2181.5	2345.5	2891.6	3160.9	4618.7	4784.2	3320.4	2724.6	917.7	356.6	358.1
87.5°	1569.2	1727.1	2148.4	1876.1	2119.8	2007.0	1806.9	2521.5	368.6	203.1	120.4
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°	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3	7525.3
2.5°	7454.6	7430.6	7376.4	7274.1	7216.9	7168.8	7089.0	7042.4	7021.3	7019.8	7028.9
5°	7269.6	7213.9	7074.0	6902.5	6765.6	6640.7	6485.8	6392.5	6326.3	6287.2	6297.7
7.5°	7054.4	6967.2	6747.5	6473.7	6254.1	6011.8	5772.6	5629.7	5518.4	5435.6	5450.7
10°	6907.0	6786.6	6466.2	6072.0	5706.4	5354.4	5024.9	4827.8	4671.4	4551.0	4560.0
12.5°	6857.4	6694.9	6251.1	5724.5	5211.5	4730.0	4299.8	3997.4	3836.4	3699.5	3710.0
15°	6864.9	6646.7	6070.5	5411.6	4766.1	4159.8	3637.8	3284.2	3066.1	2971.3	2972.8
17.5°	6870.9	6591.1	5881.0	5076.1	4325.3	3627.3	3060.1	2702.0	2495.9	2408.6	2410.2
20°	6851.3	6500.8	5646.3	4690.9	3865.0	3138.3	2589.2	2285.3	2128.8	2061.1	2061.1
22.5°	6825.8	6394.0	5381.5	4304.3	3410.6	2714.1	2252.2	2020.5	1930.2	1885.1	1883.6
25°	6837.8	6314.2	5110.7	3907.1	2992.4	2375.6	2028.0	1874.6	1814.4	1785.8	1784.3
27.5°	6902.5	6276.6	4860.9	3511.4	2626.8	2121.3	1877.6	1769.3	1730.1	1712.1	1712.1
30°	7019.8	6276.6	4600.7	3174.4	2322.9	1933.2	1761.7	1688.0	1660.9	1648.9	1648.9
32.5°	7224.4	6311.2	4349.4	2840.4	2080.7	1785.8	1665.4	1615.8	1594.7	1588.7	1588.7
35°	7576.5	6428.6	4104.2	2524.5	1885.1	1665.4	1573.7	1545.1	1530.0	1528.5	1533.1
37.5°	8071.5	6667.8	3874.0	2291.3	1746.7	1567.7	1496.9	1474.4	1465.3	1472.9	1478.9
40°	8694.3	6992.8	3664.9	2080.7	1641.4	1489.4	1426.2	1411.2	1406.7	1417.2	1426.2
42.5°	9446.5	7432.1	3493.4	1928.7	1560.1	1423.2	1366.1	1348.0	1343.5	1355.5	1367.6
45°	10260.5	7904.5	3373.0	1815.9	1496.9	1373.6	1313.4	1293.8	1284.8	1290.8	1304.4
47.5°	11000.7	8351.3	3324.9	1736.2	1436.8	1331.5	1266.8	1242.7	1227.6	1224.6	1235.2
50°	11625.0	8683.8	3347.4	1688.0	1388.6	1284.8	1221.6	1194.5	1172.0	1158.4	1166.0
52.5°	12079.4	8892.9	3368.5	1666.9	1351.0	1233.7	1172.0	1146.4	1116.3	1093.7	1093.7
55°	12408.8	8941.0	3321.9	1650.4	1322.4	1178.0	1116.3	1092.2	1062.2	1036.6	1033.6
57.5°	12538.2	8805.6	3148.8	1626.3	1302.9	1125.3	1057.6	1039.6	1014.0	983.9	982.4
60°	12363.7	8387.4	2814.9	1575.2	1277.3	1081.7	999.0	986.9	974.9	946.3	944.8
62.5°	11662.6	7469.7	2383.1	1471.4	1226.1	1035.1	944.8	950.8	952.3	932.8	929.8
65°	10391.3	6208.9	1961.8	1336.0	1149.4	979.4	889.1	917.7	934.3	931.3	926.8
67.5°	8543.9	4832.3	1662.4	1193.0	1048.6	902.7	829.0	862.1	875.6	886.1	883.1
70°	6341.3	3407.6	1375.1	1042.6	926.8	812.4	750.7	767.3	758.3	770.3	774.8
72.5°	3535.5	2044.6	1120.8	892.1	800.4	707.1	663.5	660.5	640.9	640.9	640.9
74°	2121.3	1500.0	985.4	798.9	723.6	637.9	600.3	586.7	568.7	570.2	568.7
75°	1706.1	1289.3	904.2	737.2	669.5	597.3	559.7	541.6	528.1	528.1	526.6
77.5°	1077.2	979.4	728.2	586.7	535.6	492.0	466.4	442.3	442.3	440.8	439.3
80°	813.9	779.3	567.2	443.8	410.7	377.6	361.1	350.5	350.5	355.1	353.5
82.5°	558.2	586.7	398.7	309.9	293.4	269.3	266.3	267.8	263.3	257.3	255.8
85°	407.7	440.8	269.3	195.6	179.0	164.0	176.0	182.0	174.5	161.0	155.0
87.5°	156.5	288.9	144.4	81.2	75.2	64.7	75.2	78.2	84.3	66.2	67.7
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)