

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: P319844

Luminaire Tested: **GAN-SA0B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319844
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-SA0B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA 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: 44951 lumens
Efficiency: N/A
Efficacy: 107.3 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): 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



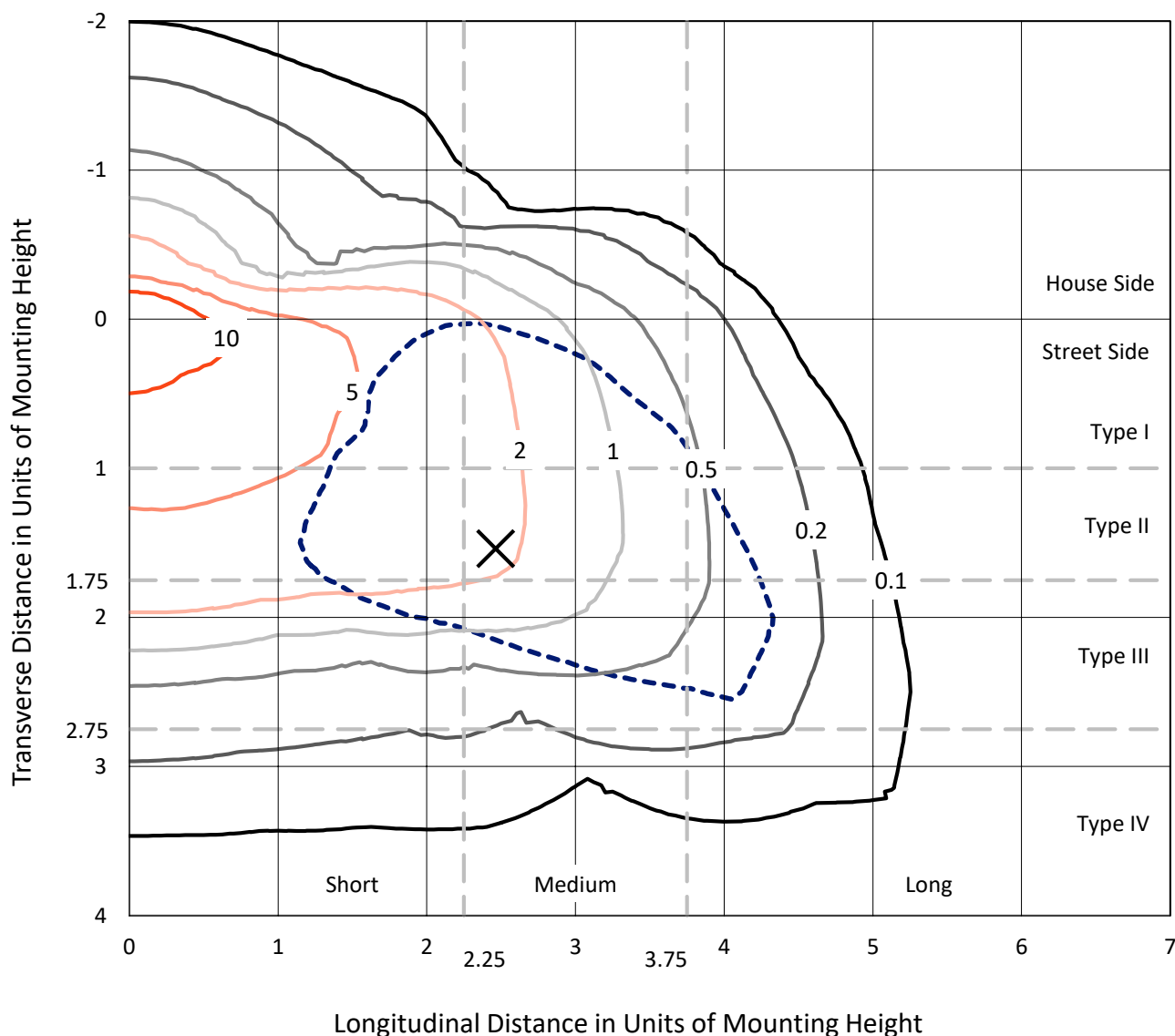
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

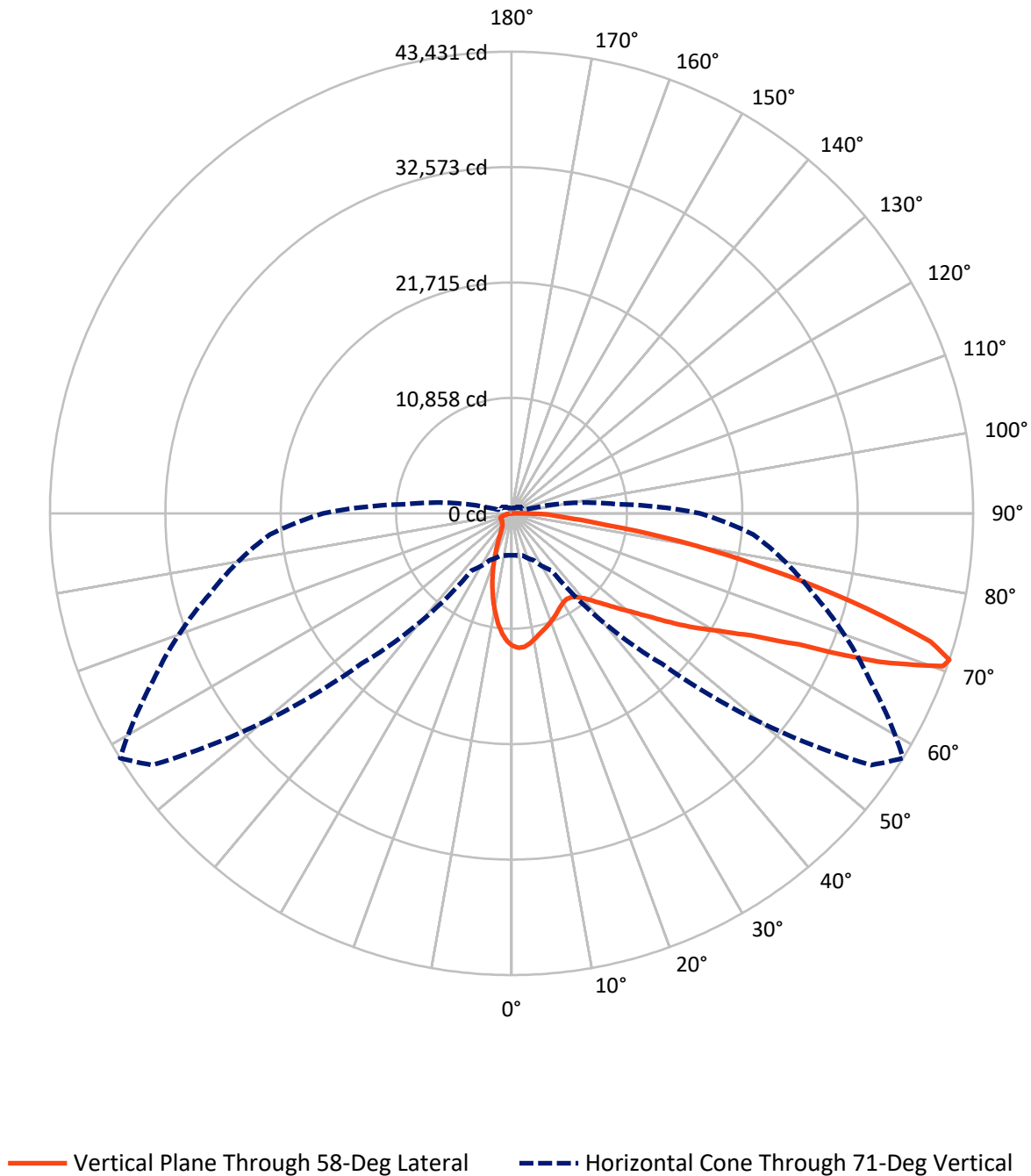
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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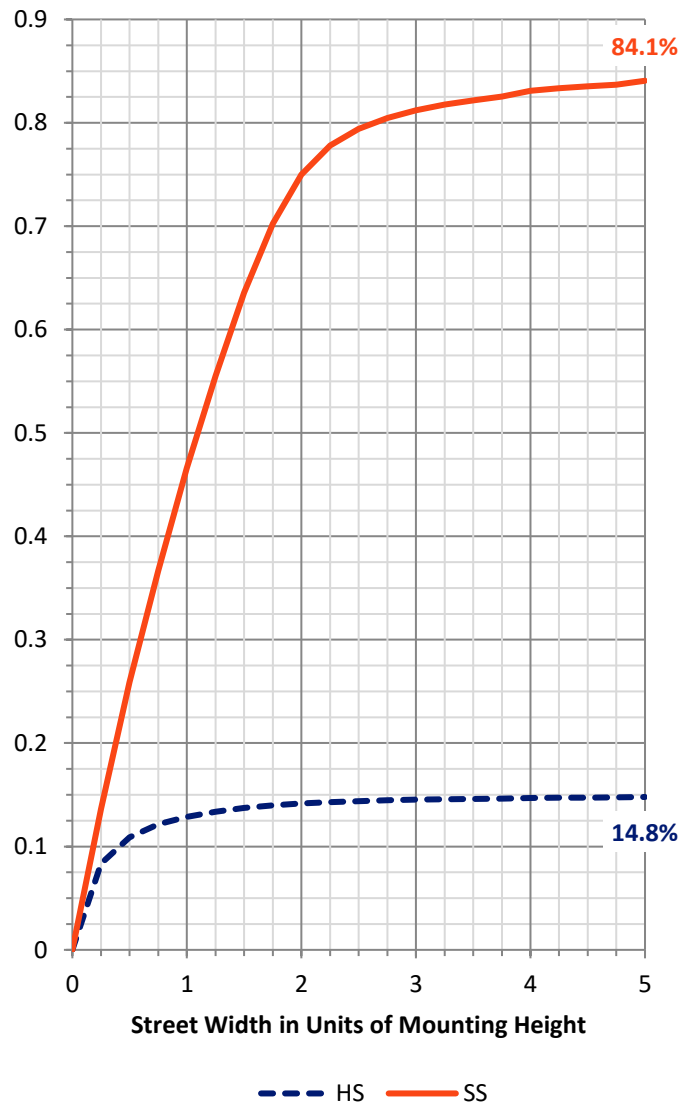
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6720.5	0.0	6720.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38230.5	0.0	38230.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	44951.0	0.0	44951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1074.4	2.4
10°-20°	2389.1	5.3
20°-30°	3036.4	6.8
30°-40°	3867.7	8.6
40°-50°	5484.6	12.2
50°-60°	8487.7	18.9
60°-70°	11554.9	25.7
70°-80°	7708.4	17.1
80°-90°	1347.7	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°	44951.0	100.0
0°-180°	44951.0	100.0

Coefficient of Utilization



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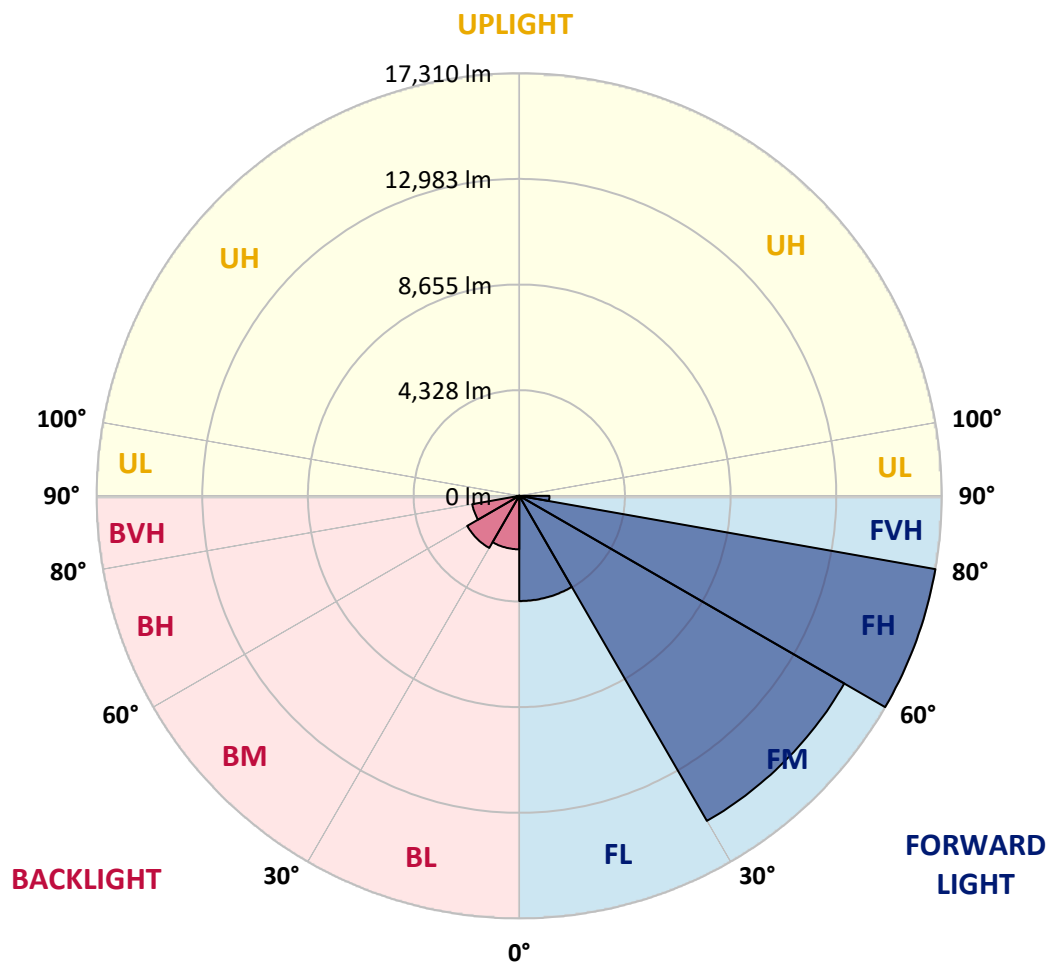
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4309.3	9.6			
FM	(30°-60°)	15375.4	34.2			
FH	(60°-80°)	17310.1	38.5			G5
FVH	(80°-90°)	1235.7	2.7			G5
BL	(0°-30°)	2190.7	4.9	B3/2500		
BM	(30°-60°)	2464.6	5.5	B2/2500		
BH	(60°-80°)	1953.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	112.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4
2.5°	12784.8	12767.6	12773.9	12761.3	12731.6	12701.8	12658.0	12665.8	12604.7	12513.9	12401.2
5°	12543.7	12537.4	12584.4	12611.0	12632.9	12615.7	12603.2	12618.8	12529.6	12404.3	12208.6
7.5°	12037.9	11969.0	12028.5	12117.8	12202.3	12266.5	12351.1	12362.0	12305.7	12174.2	11917.4
10°	11319.2	11253.5	11341.1	11480.5	11649.6	11803.1	11973.7	12005.0	12016.0	11897.0	11585.4
12.5°	10573.9	10523.8	10611.5	10807.2	11087.5	11323.9	11596.4	11643.3	11740.4	11660.6	11278.5
15°	9906.9	9888.1	9994.5	10187.1	10509.7	10871.4	11264.4	11350.5	11514.9	11488.3	11038.9
17.5°	9330.6	9325.9	9407.4	9609.4	9966.4	10423.6	10934.0	11079.7	11323.9	11355.2	10841.7
20°	8901.6	8892.2	8948.6	9097.3	9465.3	9983.6	10577.0	10777.5	11129.8	11239.4	10638.1
22.5°	8671.4	8669.9	8671.4	8741.9	9042.5	9524.8	10229.4	10473.7	10940.3	11147.0	10412.6
25°	8632.3	8627.6	8593.2	8585.3	8756.0	9141.2	9884.9	10154.3	10760.2	11082.8	10198.1
27.5°	8734.1	8740.3	8694.9	8621.3	8655.8	8889.1	9585.9	9874.0	10616.2	11070.3	10049.4
30°	8945.5	8942.3	8903.2	8826.5	8759.1	8795.1	9372.9	9661.0	10519.1	11125.1	9947.6
32.5°	9178.8	9196.0	9188.2	9145.9	9045.7	8901.6	9308.7	9590.6	10490.9	11256.6	9903.7
35°	9459.0	9477.8	9534.2	9567.1	9449.6	9217.9	9446.5	9690.8	10572.3	11504.0	9974.2
37.5°	9725.2	9773.8	9931.9	10071.3	9971.1	9712.7	9812.9	9986.7	10824.4	11893.9	10163.7
40°	10032.1	10074.4	10332.8	10628.7	10613.0	10345.3	10403.2	10519.1	11269.1	12452.9	10506.6
42.5°	10334.3	10418.9	10793.1	11212.7	11333.3	11096.9	11189.3	11250.3	11895.4	13193.5	11104.7
45°	10736.7	10827.6	11347.4	11853.2	12135.0	12001.9	12149.1	12172.6	12683.0	14201.9	11973.7
47.5°	11345.8	11449.2	12055.2	12586.0	13016.6	13030.6	13273.3	13264.0	13666.4	15355.9	13068.2
50°	12294.7	12443.5	12939.8	13436.2	13959.2	14250.4	14574.5	14529.1	14845.4	16585.0	14328.7
52.5°	13538.0	13606.9	13974.8	14341.2	14991.0	15644.0	16109.0	16068.3	16182.6	17848.6	15759.9
55°	14826.6	14878.3	15030.2	15230.6	16104.3	17169.1	18152.4	18088.2	17798.5	19160.8	17173.8
57.5°	15985.3	16090.2	16195.1	16278.1	17225.4	18763.1	20242.8	20247.5	19552.2	20576.3	18634.7
60°	16165.4	16257.8	16951.4	17605.9	19143.6	20889.4	22480.3	22433.3	21367.0	22112.3	20263.1
62.5°	14289.6	14497.8	15656.5	17397.7	20991.2	24778.9	25334.8	25276.8	23537.2	24005.4	22159.3
65°	10240.4	10476.8	11875.1	14491.5	20095.6	29064.5	30486.3	29706.5	26496.6	26333.7	24379.6
67.5°	5907.8	5964.2	6570.1	8671.4	15301.1	29288.4	38345.1	37253.7	31092.2	28975.3	25466.3
70°	4368.6	4367.0	4511.1	5336.3	8280.0	23903.6	42082.6	43061.3	35930.6	29844.3	23930.2
71°	3950.5	3955.2	4116.5	4857.1	6557.6	20007.9	41288.8	43430.8	37205.1	29415.3	22818.5
72.5°	3379.0	3394.7	3618.6	4356.1	5516.3	13797.9	37869.1	41213.6	37809.6	28356.8	21078.9
75°	2563.2	2599.2	2909.3	3671.8	5041.9	6997.6	27793.1	32910.1	33588.1	25021.6	15662.8
77.5°	1828.9	1869.6	2220.3	3087.8	4792.9	5273.6	18612.8	24005.4	24717.8	16035.4	7064.9
80°	1155.6	1204.1	1468.7	2456.8	4503.3	5007.5	11696.6	16135.6	13478.5	5131.2	1797.5
82.5°	678.0	715.6	911.3	1605.0	3678.1	4822.7	6881.7	8943.9	5245.5	1550.1	817.4
85°	393.0	410.2	568.4	1022.5	2671.3	4551.8	5056.0	4999.6	2276.7	757.9	386.8
87.5°	183.2	203.6	336.6	533.9	1482.8	3299.2	3995.9	3452.6	1415.5	355.4	181.6
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°	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4	12454.4
2.5°	12346.4	12319.8	12208.6	12110.0	12006.6	11872.0	11723.2	11704.4	11613.6	11630.8	11599.5
5°	12102.1	12034.8	11767.0	11524.3	11237.8	10981.0	10702.3	10573.9	10389.1	10376.6	10329.6
7.5°	11753.0	11627.7	11212.7	10752.4	10292.1	9853.6	9419.9	9134.9	8843.7	8720.0	8709.0
10°	11359.9	11147.0	10536.3	9855.2	9191.3	8550.9	7930.8	7472.0	7058.7	6862.9	6855.1
12.5°	10987.3	10672.5	9834.8	8907.9	7999.7	7169.8	6319.6	5716.8	5198.5	5024.7	4951.1
15°	10671.0	10227.9	9152.1	7966.8	6864.5	5712.1	4744.4	4110.2	3631.1	3465.1	3433.8
17.5°	10364.1	9794.1	8452.2	7016.4	5683.9	4417.1	3447.9	2976.6	2721.4	2654.0	2652.5
20°	10058.7	9347.9	7721.0	6044.0	4542.4	3303.9	2650.9	2439.5	2353.4	2345.6	2333.1
22.5°	9712.7	8875.0	6952.2	5068.5	3545.0	2597.7	2253.2	2168.6	2157.7	2185.9	2185.9
25°	9388.6	8405.3	6172.4	4113.4	2757.4	2167.1	2012.1	1994.8	2024.6	2074.7	2079.4
27.5°	9086.4	7952.7	5411.4	3264.7	2209.4	1908.7	1844.5	1864.9	1918.1	1976.0	1977.6
30°	8837.4	7525.3	4672.4	2572.6	1866.4	1716.1	1705.2	1745.9	1803.8	1849.2	1860.2
32.5°	8644.8	7160.4	3958.4	2068.4	1642.5	1572.1	1581.5	1615.9	1651.9	1677.0	1694.2
35°	8555.6	6847.3	3299.2	1744.3	1500.0	1460.9	1473.4	1492.2	1507.9	1526.7	1540.8
37.5°	8571.2	6604.6	2710.4	1542.3	1404.5	1384.2	1384.2	1384.2	1384.2	1393.6	1395.1
40°	8716.8	6465.2	2231.3	1413.9	1340.3	1318.4	1301.2	1285.5	1273.0	1279.3	1276.1
42.5°	9089.5	6452.7	1880.5	1332.5	1288.7	1252.6	1218.2	1196.3	1180.6	1186.9	1190.0
45°	9722.1	6609.3	1644.1	1274.6	1240.1	1185.3	1141.5	1118.0	1107.0	1127.4	1130.5
47.5°	10541.0	6950.6	1500.0	1232.3	1194.7	1122.7	1075.7	1053.8	1056.9	1086.7	1094.5
50°	11596.4	7504.9	1431.1	1205.7	1163.4	1069.4	1020.9	1002.1	1011.5	1053.8	1063.2
52.5°	12755.1	8303.5	1439.0	1197.8	1143.0	1030.3	978.6	956.7	972.4	1011.5	1019.3
55°	14092.3	9263.3	1568.9	1208.8	1113.3	1005.2	944.2	906.6	919.1	955.1	961.4
57.5°	15578.2	10362.5	1830.4	1205.7	1075.7	981.8	908.2	851.8	861.2	883.1	889.4
60°	17125.2	11690.3	2236.0	1215.1	1058.5	953.6	859.6	789.2	786.0	804.8	808.0
62.5°	18982.3	13226.4	2699.5	1221.3	1069.4	917.6	795.4	726.5	717.1	721.8	725.0
65°	20895.7	14338.1	2525.6	1196.3	1103.9	887.8	739.1	665.5	648.2	645.1	646.7
67.5°	20955.2	13146.5	1770.9	1146.2	1118.0	872.2	696.8	613.8	585.6	574.7	573.1
70°	18792.8	10680.4	1379.5	1092.9	1061.6	847.1	657.6	571.5	529.2	512.0	510.5
71°	17737.5	9831.7	1307.4	1066.3	1019.3	822.0	640.4	552.7	508.9	490.1	487.0
72.5°	16082.4	8813.9	1219.8	1024.0	937.9	757.9	607.5	526.1	480.7	458.8	454.1
75°	11541.6	5763.7	1047.5	912.9	776.6	604.4	532.4	472.9	433.7	407.1	404.0
77.5°	4446.9	2293.9	792.3	759.4	595.0	472.9	438.4	408.7	380.5	353.9	352.3
80°	1374.8	1025.6	577.8	571.5	430.6	352.3	341.3	333.5	322.6	294.4	288.1
82.5°	734.4	588.7	397.7	369.5	281.8	234.9	247.4	250.5	252.1	222.3	219.2
85°	350.7	311.6	223.9	209.8	164.4	131.5	151.9	164.4	166.0	136.2	126.8
87.5°	167.5	162.8	104.9	79.9	61.1	43.8	53.2	65.8	72.0	51.7	45.4
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)