

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: P320878

Luminaire Tested: **GAN-SA4B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19777 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 171
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

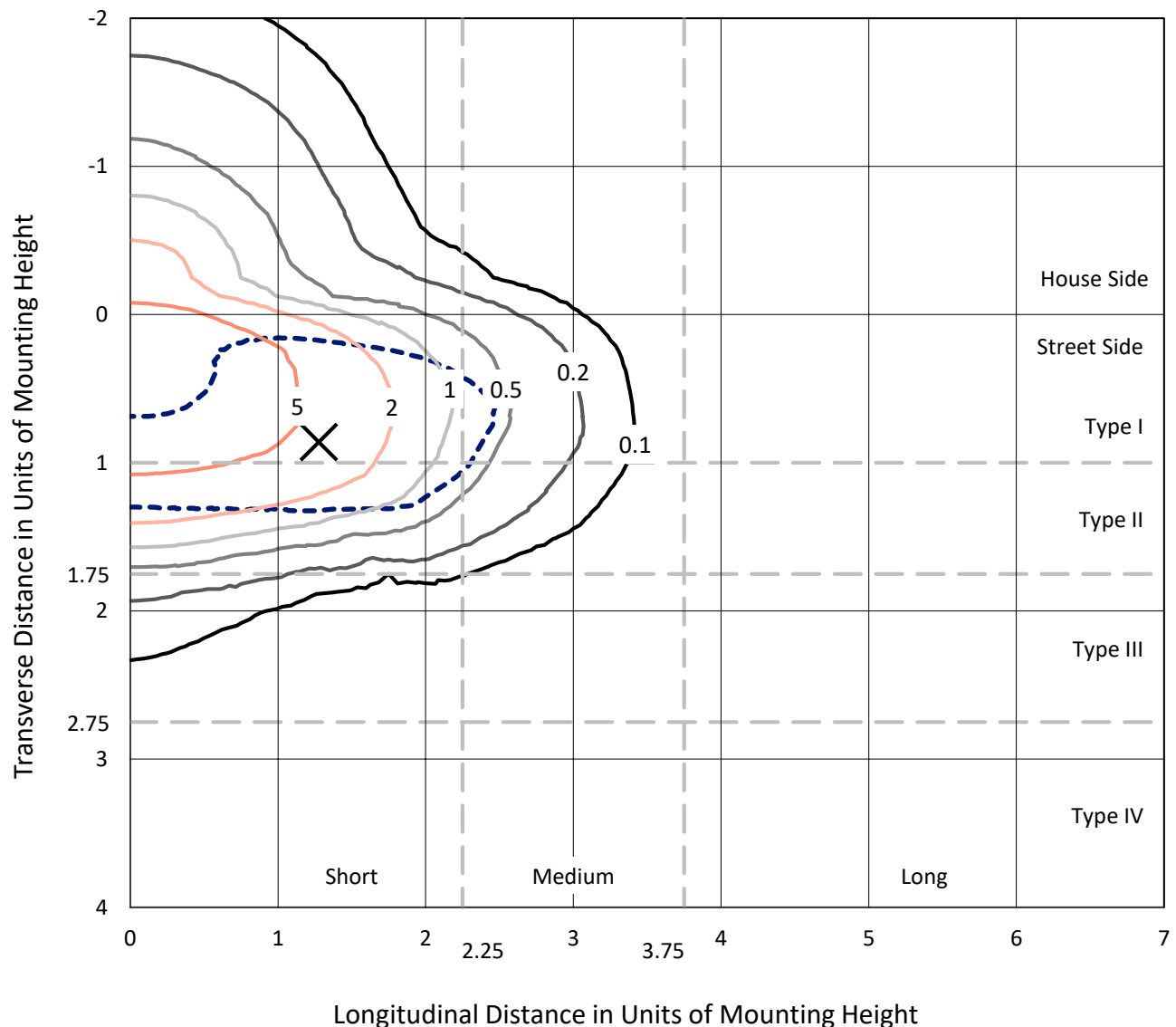


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Iso-Footcandle Lines of Horizontal Illumination

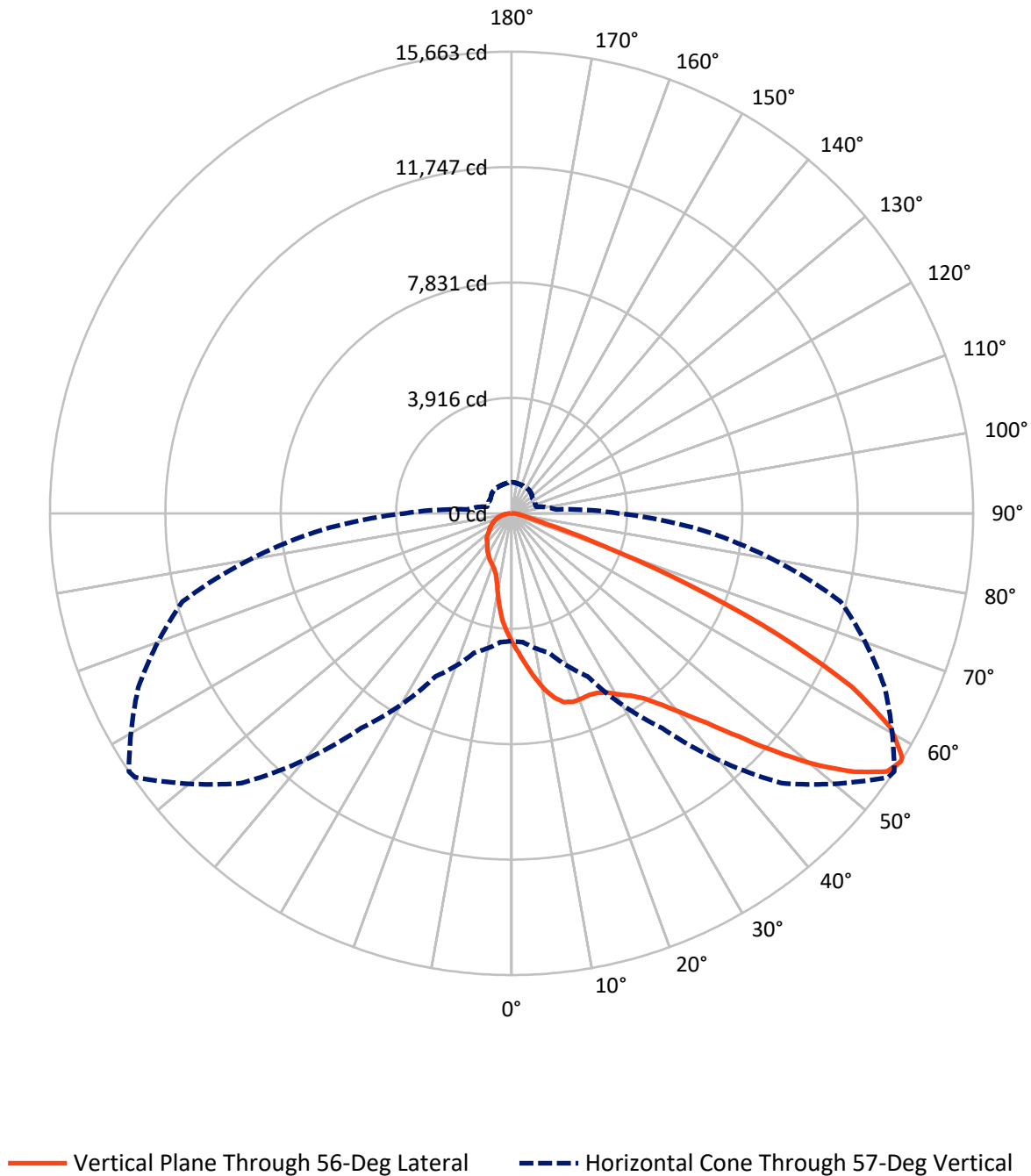
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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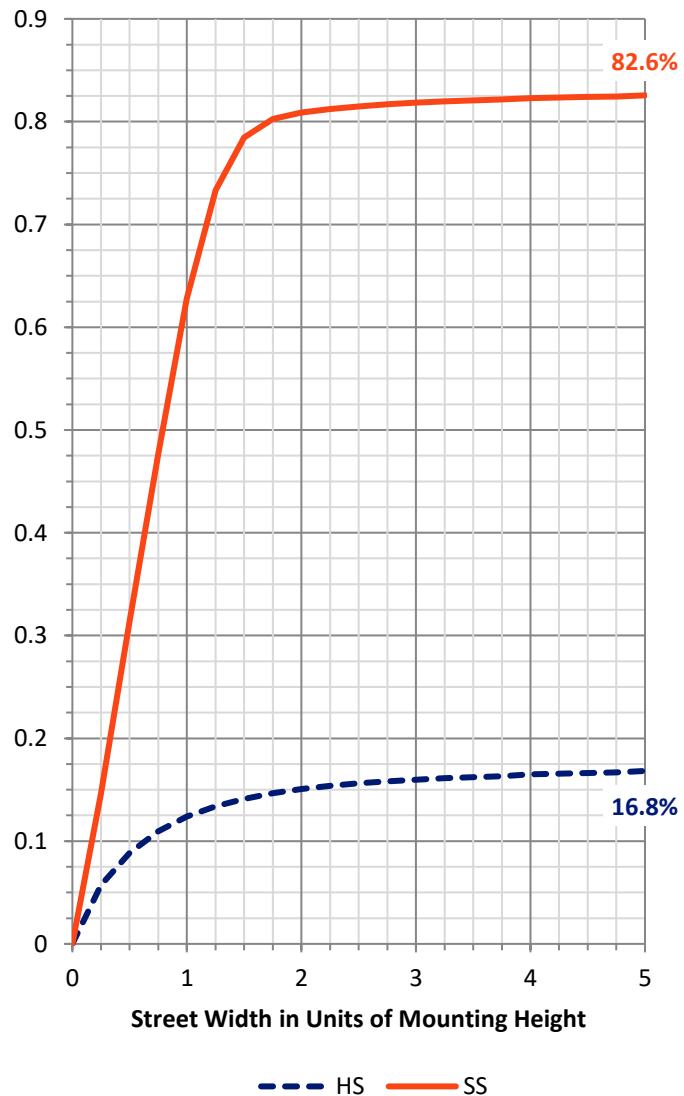
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3409.1	0.0	3409.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	16367.9	0.0	16367.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	19777.0	0.0	19777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.0	2.1
10°-20°	1184.7	6.0
20°-30°	1929.6	9.8
30°-40°	2884.6	14.6
40°-50°	4375.3	22.1
50°-60°	4903.9	24.8
60°-70°	2896.4	14.6
70°-80°	949.0	4.8
80°-90°	234.5	1.2
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°	19777.0	100.0
0°-180°	19777.0	100.0

Coefficient of Utilization



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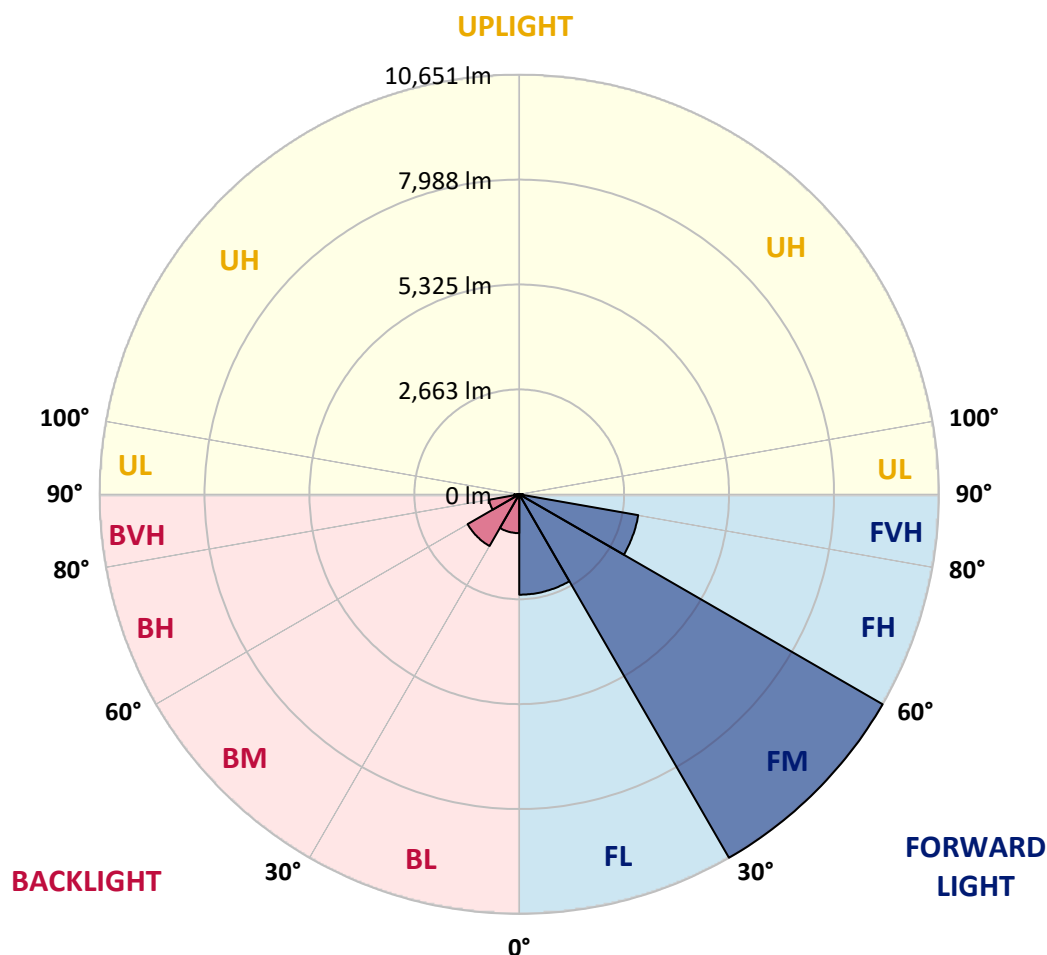
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2547.6	12.9			
FM	(30°-60°)	10650.6	53.9			
FH	(60°-80°)	3066.5	15.5			G2/5000
FVH	(80°-90°)	103.2	0.5			G2/225
BL	(0°-30°)	985.8	5.0	B2/1000		
BM	(30°-60°)	1513.2	7.7	B2/2500		
BH	(60°-80°)	778.9	3.9	B2/1000		G2/1000
BVH	(80°-90°)	131.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6
2.5°	5037.0	5083.2	5062.8	4992.1	4937.8	4861.0	4775.3	4749.5	4659.1	4557.8	4436.2
5°	5834.2	5811.1	5777.8	5667.7	5551.5	5416.2	5201.5	5167.5	4966.3	4737.3	4495.3
7.5°	6288.3	6286.2	6266.5	6201.9	6095.9	5919.2	5660.2	5620.1	5316.3	4948.0	4572.8
10°	6222.3	6217.6	6250.2	6317.5	6349.4	6312.7	6094.6	6054.5	5681.3	5181.1	4662.5
12.5°	5847.8	5850.6	5902.9	6044.3	6236.6	6467.7	6432.3	6412.6	6059.9	5444.8	4771.2
15°	5556.3	5562.4	5603.8	5726.9	5953.9	6373.2	6637.6	6644.4	6426.2	5735.7	4898.3
17.5°	5428.5	5441.4	5460.4	5546.7	5754.7	6184.9	6686.5	6723.2	6747.0	6037.5	5020.7
20°	5469.3	5481.5	5486.9	5542.0	5712.6	6070.8	6652.6	6718.5	6993.1	6321.6	5143.0
22.5°	5652.1	5659.6	5663.0	5677.2	5809.8	6103.4	6630.1	6699.5	7171.1	6576.4	5235.5
25°	5955.2	5949.8	5928.0	5909.7	5998.7	6232.5	6681.8	6747.7	7315.9	6807.5	5295.9
27.5°	6318.2	6311.4	6269.2	6218.9	6269.9	6433.7	6830.6	6883.0	7445.7	7023.7	5326.5
30°	6753.8	6736.2	6656.6	6596.8	6616.5	6735.5	7076.0	7123.6	7646.2	7269.0	5356.4
32.5°	7257.5	7238.4	7123.6	7024.3	7024.3	7123.6	7328.8	7368.2	7816.1	7546.3	5404.7
35°	7888.2	7864.4	7714.9	7548.4	7501.5	7551.8	7673.4	7701.3	8122.0	7895.7	5492.4
37.5°	8631.7	8599.8	8406.1	8183.2	8080.5	8077.8	8165.5	8222.6	8610.7	8354.4	5641.2
40°	9377.3	9354.9	9185.7	9010.3	8809.1	8744.6	8879.8	8897.5	9249.6	8924.0	5831.5
42.5°	9953.7	9949.6	9918.3	9941.5	9735.5	9605.0	9711.1	9725.3	10029.8	9540.5	6034.1
45°	10258.2	10265.0	10416.5	10752.3	10828.4	10733.3	10785.6	10789.7	10921.5	10162.3	6219.6
47.5°	10014.2	10049.5	10432.9	11183.9	11807.1	12123.2	12036.2	12086.5	11786.1	10696.6	6365.1
50°	9063.3	9106.8	9759.3	10991.5	12263.9	13468.2	13422.7	13411.1	12483.4	11088.1	6443.9
52.5°	7885.5	7919.5	8457.7	9991.8	11928.8	14211.8	14629.8	14570.0	13103.3	11381.0	6458.9
55°	6091.8	6144.8	6660.7	7996.3	10573.5	13927.7	15517.4	15463.7	13668.1	11534.6	6441.2
57°	4330.8	4386.6	4899.0	6102.7	8894.8	12944.2	15605.8	15662.9	13973.2	11560.4	6460.9
57.5°	3864.6	3921.7	4429.4	5598.4	8371.4	12588.8	15529.7	15624.8	14028.3	11556.3	6471.8
60°	1945.9	1967.6	2291.2	3125.1	5291.9	10177.3	14536.7	14782.0	14077.9	11356.5	6518.7
62.5°	1209.8	1194.2	1184.0	1439.5	2574.6	6749.1	12487.5	12959.8	13128.4	10872.6	6405.2
65°	1063.7	1034.4	922.3	901.9	1137.1	3278.0	9403.8	9991.8	11099.6	10110.0	6134.7
67.5°	999.1	970.6	844.1	768.0	768.7	1299.5	5838.3	6500.3	8646.7	8820.7	5496.4
70°	932.5	906.7	788.4	698.7	654.5	719.8	2686.0	3188.3	5636.5	6933.3	4593.9
72.5°	846.9	829.2	717.0	624.6	577.7	539.0	1028.3	1214.6	3263.1	4656.4	3190.3
75°	757.1	740.8	645.0	556.6	499.6	424.1	579.1	623.9	1657.7	2382.2	1570.7
77.5°	658.6	649.1	573.6	492.1	446.5	351.4	409.8	431.6	710.9	1021.5	787.7
80°	524.0	542.4	501.6	438.4	396.2	281.4	290.2	304.5	413.9	498.9	447.2
82.5°	341.2	373.1	392.8	356.1	326.2	221.6	208.7	214.8	269.8	304.5	194.4
85°	142.0	159.7	258.3	233.1	216.8	161.8	140.0	142.7	167.2	173.3	79.5
87.5°	63.2	67.3	113.5	106.7	91.8	55.7	59.8	65.2	89.0	84.3	30.6
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°	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6	4386.6
2.5°	4390.6	4333.5	4235.7	4127.6	4039.2	3968.6	3897.2	3848.3	3791.2	3760.6	3745.0
5°	4394.0	4281.9	4075.9	3864.6	3675.6	3503.0	3338.5	3212.1	3093.8	3029.9	3012.3
7.5°	4408.3	4239.7	3906.7	3558.7	3223.0	2916.4	2679.9	2531.8	2425.0	2377.5	2363.9
10°	4419.9	4190.1	3697.4	3182.2	2725.5	2414.8	2231.3	2148.4	2111.7	2105.6	2099.5
12.5°	4447.0	4139.2	3477.2	2789.3	2338.7	2124.0	2060.1	2054.6	2064.8	2079.8	2079.8
15°	4489.9	4088.9	3225.7	2452.2	2092.7	2017.2	2030.2	2060.1	2087.9	2111.0	2114.4
17.5°	4521.1	4027.0	2955.2	2182.4	1961.5	1981.9	2028.1	2070.3	2098.8	2121.2	2123.3
20°	4543.6	3931.2	2666.3	1976.5	1886.1	1949.3	2007.1	2044.4	2064.1	2086.6	2090.0
22.5°	4532.0	3802.7	2410.1	1829.0	1824.9	1901.7	1956.8	2001.6	1986.7	1964.9	1979.2
25°	4476.3	3626.0	2146.4	1718.9	1760.3	1837.8	1905.8	1875.9	1825.6	1816.1	1821.5
27.5°	4377.0	3400.4	1902.4	1616.9	1685.6	1778.7	1774.6	1744.7	1727.0	1714.8	1722.3
30°	4270.3	3155.7	1689.0	1527.9	1602.6	1679.5	1663.8	1663.1	1645.5	1625.8	1635.3
32.5°	4165.0	2909.6	1519.7	1454.5	1540.1	1550.3	1584.3	1594.5	1559.8	1518.4	1515.7
35°	4073.2	2677.2	1391.3	1387.9	1464.7	1466.0	1515.7	1501.4	1415.1	1372.2	1372.2
37.5°	4004.6	2445.4	1293.4	1328.1	1365.4	1400.8	1425.9	1366.8	1352.5	1328.7	1328.1
40°	3974.7	2241.5	1232.2	1282.5	1295.4	1340.3	1275.7	1298.8	1305.6	1293.4	1293.4
42.5°	3943.4	2064.1	1179.2	1247.9	1245.8	1239.7	1207.1	1237.0	1264.2	1264.9	1262.8
45°	3912.2	1911.2	1132.3	1173.8	1202.3	1136.4	1142.5	1174.5	1212.5	1226.1	1226.1
47.5°	3877.5	1790.2	1089.5	1095.6	1139.8	1095.6	1090.9	1115.3	1160.2	1181.9	1186.7
50°	3801.4	1681.5	1040.6	1027.0	1039.2	1054.2	1058.2	1069.8	1119.4	1154.1	1162.2
52.5°	3696.0	1584.3	978.0	963.8	963.8	1020.2	1039.2	1042.6	1084.7	1126.2	1134.4
55°	3608.3	1522.4	913.5	910.8	908.0	984.2	1016.8	1022.2	1051.4	1084.1	1088.1
57°	3614.5	1517.7	863.9	866.6	865.9	947.5	995.7	1007.3	1022.2	1050.1	1054.8
57.5°	3617.9	1521.1	853.0	854.3	853.7	937.3	989.6	1002.5	1014.1	1043.3	1048.0
60°	3668.8	1529.9	808.8	793.8	797.2	882.9	954.9	971.2	978.7	1017.5	1023.6
62.5°	3593.4	1490.5	773.5	737.4	737.4	825.8	906.7	932.5	944.1	996.4	1006.6
65°	3374.5	1379.7	732.0	673.5	680.3	768.7	848.9	891.0	908.7	974.0	984.8
67.5°	3036.7	1251.3	687.8	616.5	623.3	708.9	789.1	834.6	862.5	949.5	958.3
70°	2597.0	1094.3	628.0	556.0	564.1	643.6	718.4	770.1	811.5	926.4	929.1
72.5°	1914.6	897.2	544.4	489.4	498.2	567.5	647.0	706.9	762.6	868.6	867.3
75°	1138.4	701.4	452.0	422.1	428.2	492.8	582.5	655.2	738.8	846.2	859.1
77.5°	690.5	528.1	368.4	353.4	360.9	426.8	536.3	613.7	728.6	797.9	793.8
80°	417.3	377.2	294.3	284.8	292.3	365.0	496.2	582.5	636.8	681.7	681.7
82.5°	218.2	230.4	216.1	208.7	218.9	296.3	451.3	508.4	562.8	483.2	451.3
85°	89.0	120.3	131.2	130.5	136.6	205.3	389.4	435.0	362.9	344.6	352.7
87.5°	29.9	51.0	63.9	55.1	57.8	129.1	269.8	210.0	249.4	174.0	165.2
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)