

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: P459647

Luminaire Tested: **GAN-SA7A-AMB-U-SL4**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-AMB-U-SL4
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(7) NARROW BAND AMBER, 500mA 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: 6828 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

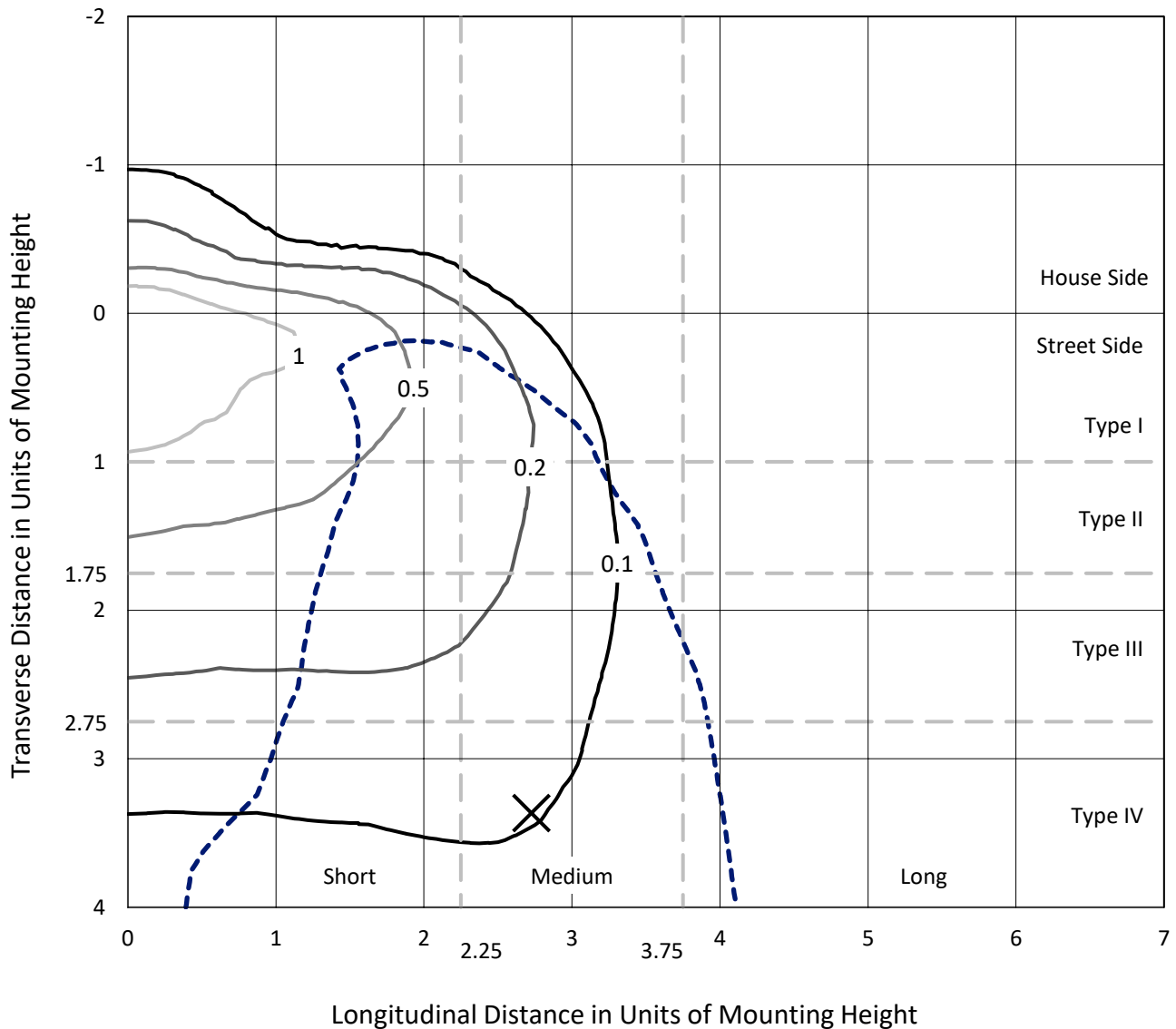
Input Watts (W): 138.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

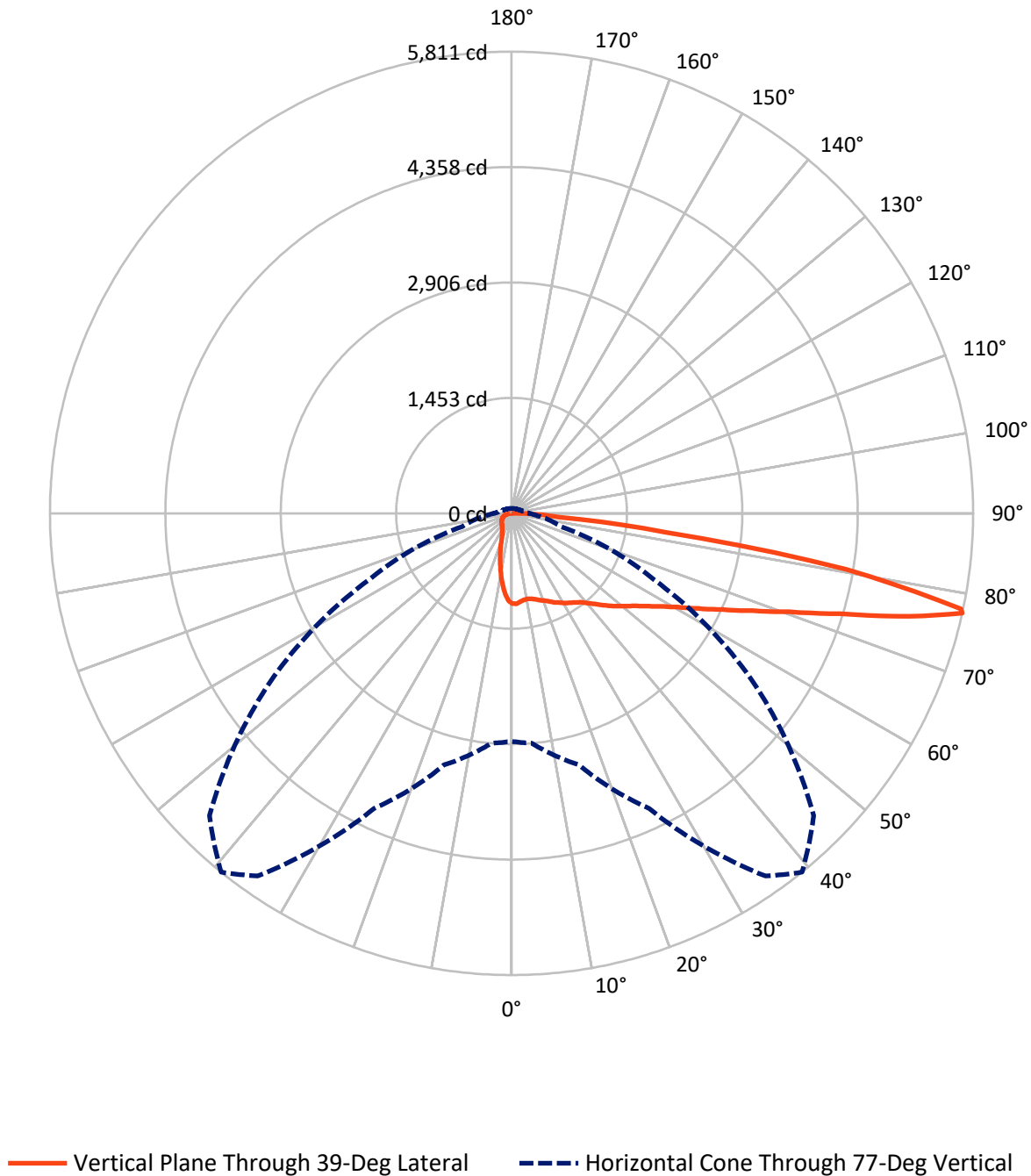
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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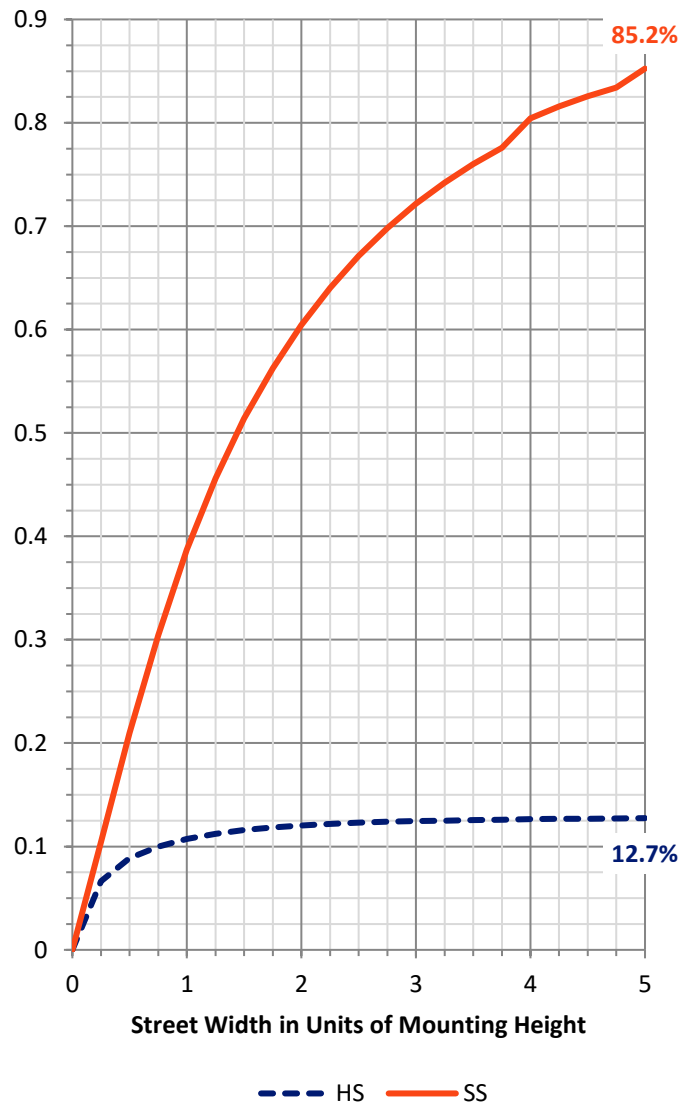
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.9	0.0	880.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5947.1	0.0	5947.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	6828.0	0.0	6828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.5
10°-20°	248.7	3.6
20°-30°	379.9	5.6
30°-40°	546.4	8.0
40°-50°	793.2	11.6
50°-60°	1138.6	16.7
60°-70°	1568.1	23.0
70°-80°	1692.1	24.8
80°-90°	362.0	5.3
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°	6828.0	100.0
0°-180°	6828.0	100.0

Coefficient of Utilization



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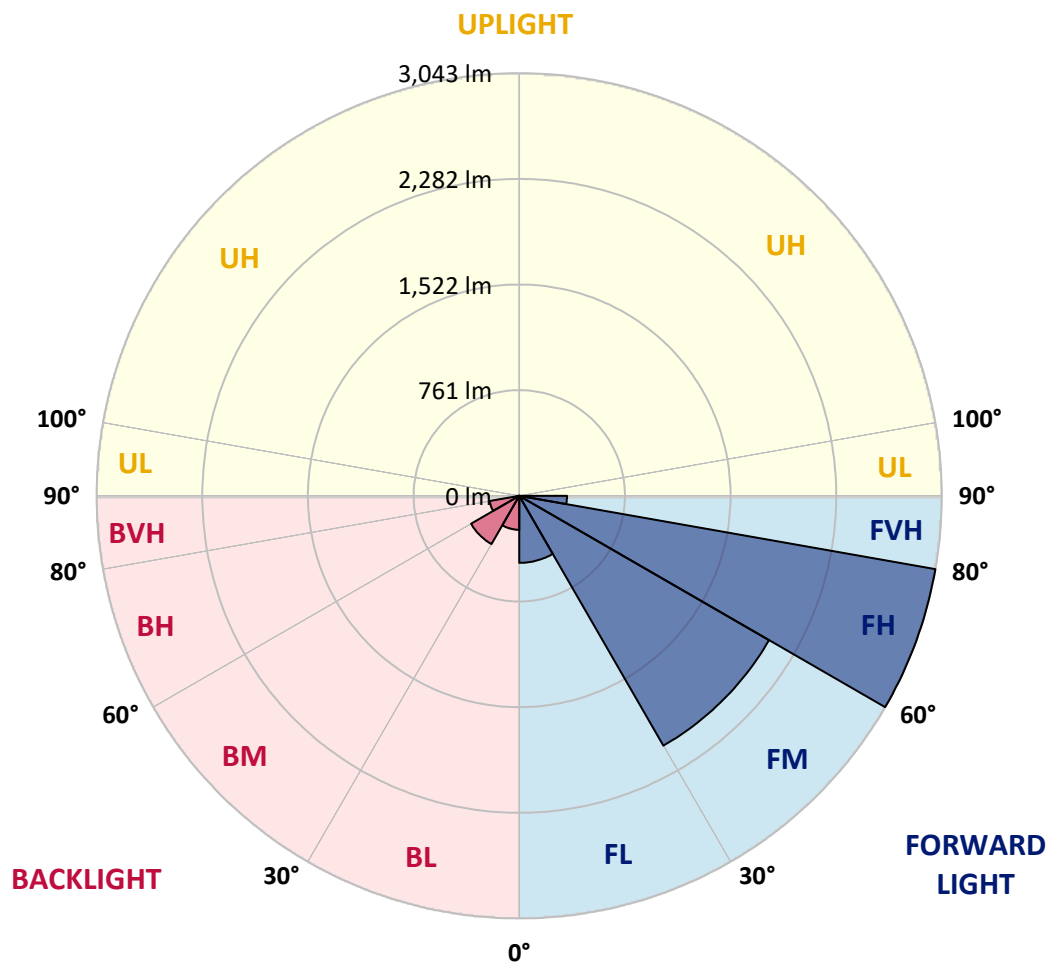
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.9	7.1			
FM	(30°-60°)	2077.2	30.4			
FH	(60°-80°)	3043.2	44.6			G2/5000
FVH	(80°-90°)	343.8	5.0			G3/500
BL	(0°-30°)	244.8	3.6	B1/500		
BM	(30°-60°)	400.9	5.9	B1/1000		
BH	(60°-80°)	217.0	3.2	B1/500		G1/500
BVH	(80°-90°)	18.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7
2.5°	1146.9	1137.7	1137.7	1146.9	1140.8	1140.8	1134.7	1140.8	1134.7	1128.5	1134.7
5°	1131.6	1125.5	1122.4	1131.6	1125.5	1119.3	1125.5	1122.4	1119.3	1107.1	1107.1
7.5°	1104.0	1097.9	1097.9	1107.1	1110.1	1100.9	1104.0	1107.1	1097.9	1085.6	1088.7
10°	1079.5	1076.4	1082.5	1094.8	1100.9	1094.8	1100.9	1097.9	1085.6	1073.3	1070.3
12.5°	1061.1	1058.0	1067.2	1091.7	1104.0	1104.0	1107.1	1097.9	1088.7	1073.3	1061.1
15°	1048.8	1048.8	1067.2	1097.9	1116.3	1122.4	1125.5	1119.3	1097.9	1076.4	1061.1
17.5°	1054.9	1051.9	1076.4	1113.2	1134.7	1150.0	1150.0	1140.8	1113.2	1085.6	1067.2
20°	1070.3	1064.1	1094.8	1140.8	1168.4	1171.5	1177.6	1159.2	1131.6	1100.9	1079.5
22.5°	1076.4	1091.7	1125.5	1177.6	1192.9	1202.1	1202.1	1183.7	1143.9	1122.4	1097.9
25°	1125.5	1128.5	1168.4	1214.4	1229.7	1242.0	1235.9	1196.0	1162.3	1150.0	1128.5
27.5°	1177.6	1180.7	1220.5	1254.3	1263.5	1272.7	1275.7	1220.5	1186.8	1183.7	1156.1
30°	1223.6	1235.9	1275.7	1300.3	1300.3	1309.5	1306.4	1257.3	1220.5	1226.7	1199.1
32.5°	1303.3	1300.3	1340.1	1343.2	1327.9	1343.2	1343.2	1288.0	1263.5	1291.1	1248.1
35°	1370.8	1383.1	1401.5	1386.1	1364.7	1376.9	1383.1	1330.9	1318.7	1373.9	1327.9
37.5°	1462.8	1453.6	1462.8	1435.2	1404.5	1419.9	1435.2	1389.2	1395.3	1475.1	1416.8
40°	1533.3	1518.0	1524.1	1487.3	1456.7	1487.3	1502.7	1459.7	1487.3	1616.1	1545.6
42.5°	1591.6	1579.3	1567.1	1545.6	1521.1	1560.9	1585.5	1551.7	1610.0	1772.5	1705.1
45°	1631.5	1622.3	1603.9	1600.8	1603.9	1652.9	1683.6	1656.0	1735.7	1968.8	1882.9
47.5°	1656.0	1646.8	1649.9	1656.0	1680.5	1744.9	1800.1	1772.5	1901.3	2174.2	2051.6
50°	1689.7	1674.4	1677.5	1729.6	1766.4	1833.9	1922.8	1910.5	2079.2	2392.0	2235.6
52.5°	1732.7	1708.1	1708.1	1800.1	1858.4	1935.1	2048.5	2063.8	2263.2	2615.8	2422.6
55°	1803.2	1772.5	1751.1	1876.8	1978.0	2060.8	2192.6	2260.1	2462.5	2848.9	2594.4
57.5°	1879.9	1849.2	1815.5	1974.9	2109.8	2208.0	2358.2	2456.4	2689.4	3057.4	2717.0
60°	1999.5	1944.3	1910.5	2100.6	2293.8	2395.0	2579.0	2704.8	2928.6	3247.6	2827.4
62.5°	2085.3	2042.4	2033.2	2260.1	2520.8	2637.3	2812.1	2944.0	3149.4	3431.6	2922.5
65°	2174.2	2149.7	2152.8	2431.8	2790.6	2919.4	3109.6	3250.6	3434.6	3600.2	2931.7
67.5°	2300.0	2275.4	2327.6	2640.4	3103.4	3272.1	3465.3	3588.0	3704.5	3627.8	2766.1
70°	2465.6	2434.9	2530.0	2891.8	3492.9	3710.6	3931.4	4063.3	3836.4	3532.8	2235.6
72.5°	2637.3	2615.8	2772.2	3250.6	4038.8	4317.8	4569.3	4495.7	3900.8	3029.8	1456.7
75°	2845.8	2852.0	3103.4	3713.7	4909.7	5176.5	5388.1	4661.3	3293.6	1790.9	555.1
77°	2870.4	2904.1	3278.2	4100.1	5572.1	5811.3	5378.9	3722.9	1981.1	640.9	312.8
77.5°	2769.2	2799.8	3238.4	4155.3	5651.8	5783.7	5210.2	3477.6	1588.5	515.2	276.0
80°	2063.8	2033.2	2511.6	3465.3	4541.7	4271.8	3118.8	1349.3	463.1	266.8	168.7
82.5°	815.7	870.9	1174.5	1708.1	2220.2	1950.4	1168.4	588.8	279.1	144.1	70.5
85°	377.2	404.8	441.6	453.9	573.5	591.9	438.5	545.9	202.4	67.5	42.9
87.5°	276.0	288.3	325.1	288.3	279.1	263.7	322.0	594.9	101.2	39.9	21.5
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°	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7	1134.7
2.5°	1125.5	1116.3	1119.3	1116.3	1110.1	1104.0	1097.9	1091.7	1094.8	1094.8	1085.6
5°	1100.9	1088.7	1082.5	1067.2	1048.8	1030.4	1008.9	993.6	981.3	975.2	981.3
7.5°	1076.4	1061.1	1048.8	1012.0	981.3	929.2	895.5	849.5	843.3	837.2	831.1
10°	1058.0	1045.7	1015.1	966.0	901.6	840.3	763.6	714.5	683.9	665.5	671.6
12.5°	1045.7	1030.4	981.3	904.7	821.9	729.9	644.0	579.6	542.8	518.3	512.1
15°	1042.7	1015.1	944.5	843.3	732.9	628.7	542.8	466.1	407.9	389.5	383.3
17.5°	1042.7	1005.9	910.8	778.9	650.1	533.6	438.5	368.0	318.9	300.5	294.4
20°	1048.8	1002.8	870.9	714.5	567.3	438.5	355.7	297.5	269.9	257.6	257.6
22.5°	1058.0	999.7	828.0	644.0	487.6	368.0	294.4	260.7	248.4	239.2	239.2
25°	1076.4	996.7	791.2	579.6	417.1	315.9	263.7	242.3	230.0	226.9	226.9
27.5°	1100.9	999.7	754.4	518.3	352.7	279.1	242.3	230.0	223.9	220.8	220.8
30°	1125.5	1005.9	714.5	450.8	306.7	251.5	226.9	217.7	214.7	211.6	211.6
32.5°	1153.1	1012.0	668.5	395.6	272.9	230.0	214.7	208.5	208.5	205.5	202.4
35°	1199.1	1024.3	616.4	343.5	245.3	214.7	205.5	199.3	199.3	196.3	196.3
37.5°	1263.5	1039.6	564.3	306.7	226.9	202.4	193.2	193.2	190.1	190.1	187.1
40°	1358.5	1082.5	521.3	276.0	211.6	193.2	187.1	184.0	184.0	180.9	180.9
42.5°	1465.9	1134.7	481.5	254.5	202.4	184.0	177.9	177.9	177.9	174.8	171.7
45°	1591.6	1183.7	444.7	239.2	193.2	177.9	171.7	171.7	168.7	165.6	165.6
47.5°	1726.5	1245.1	420.1	230.0	190.1	174.8	168.7	162.5	162.5	159.5	159.5
50°	1861.5	1297.2	398.7	223.9	187.1	168.7	162.5	159.5	156.4	150.3	150.3
52.5°	1990.3	1352.4	392.5	217.7	180.9	165.6	156.4	153.3	150.3	144.1	144.1
55°	2100.6	1416.8	398.7	214.7	177.9	159.5	150.3	147.2	144.1	138.0	138.0
57.5°	2180.4	1450.5	401.7	214.7	174.8	150.3	141.1	144.1	138.0	134.9	134.9
60°	2263.2	1481.2	398.7	214.7	171.7	141.1	131.9	138.0	134.9	131.9	131.9
62.5°	2318.4	1468.9	383.3	214.7	168.7	134.9	125.7	134.9	138.0	131.9	134.9
65°	2238.6	1330.9	337.3	208.5	168.7	128.8	116.5	131.9	141.1	138.0	138.0
67.5°	1950.4	1005.9	282.1	196.3	162.5	125.7	107.3	119.6	131.9	128.8	131.9
70°	1383.1	607.2	233.1	174.8	147.2	119.6	101.2	101.2	104.3	107.3	110.4
72.5°	717.6	331.2	190.1	153.3	128.8	107.3	92.0	85.9	85.9	85.9	88.9
75°	315.9	217.7	156.4	125.7	107.3	92.0	82.8	73.6	73.6	70.5	70.5
77°	220.8	171.7	128.8	104.3	88.9	76.7	73.6	64.4	64.4	61.3	61.3
77.5°	199.3	159.5	125.7	98.1	85.9	73.6	70.5	61.3	61.3	61.3	61.3
80°	134.9	125.7	95.1	73.6	67.5	58.3	55.2	52.1	49.1	49.1	49.1
82.5°	79.7	92.0	67.5	52.1	49.1	42.9	39.9	39.9	39.9	36.8	33.7
85°	49.1	67.5	42.9	33.7	33.7	27.6	27.6	24.5	24.5	21.5	21.5
87.5°	21.5	42.9	24.5	15.3	12.3	9.2	12.3	9.2	9.2	6.1	9.2
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)