

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: P459643

Luminaire Tested: **GAN-SA7A-AMB-U-SL2**

Issue Date: 1/6/2021

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P459643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-AMB-U-SL2
Description: GALLEON ROADWAY AND AREA LUMINAIRE
(7) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7159 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

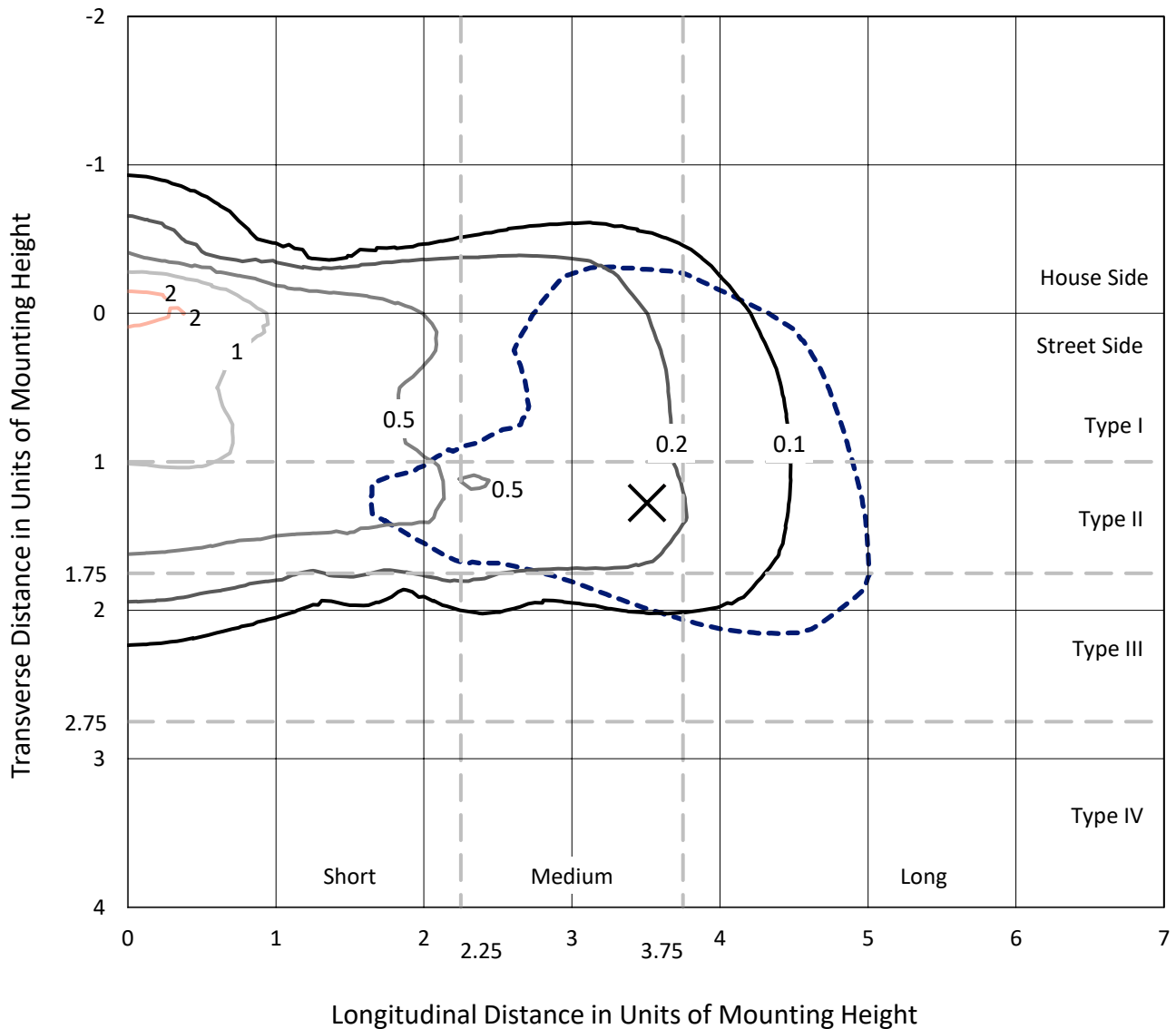
Input Watts (W): 138.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

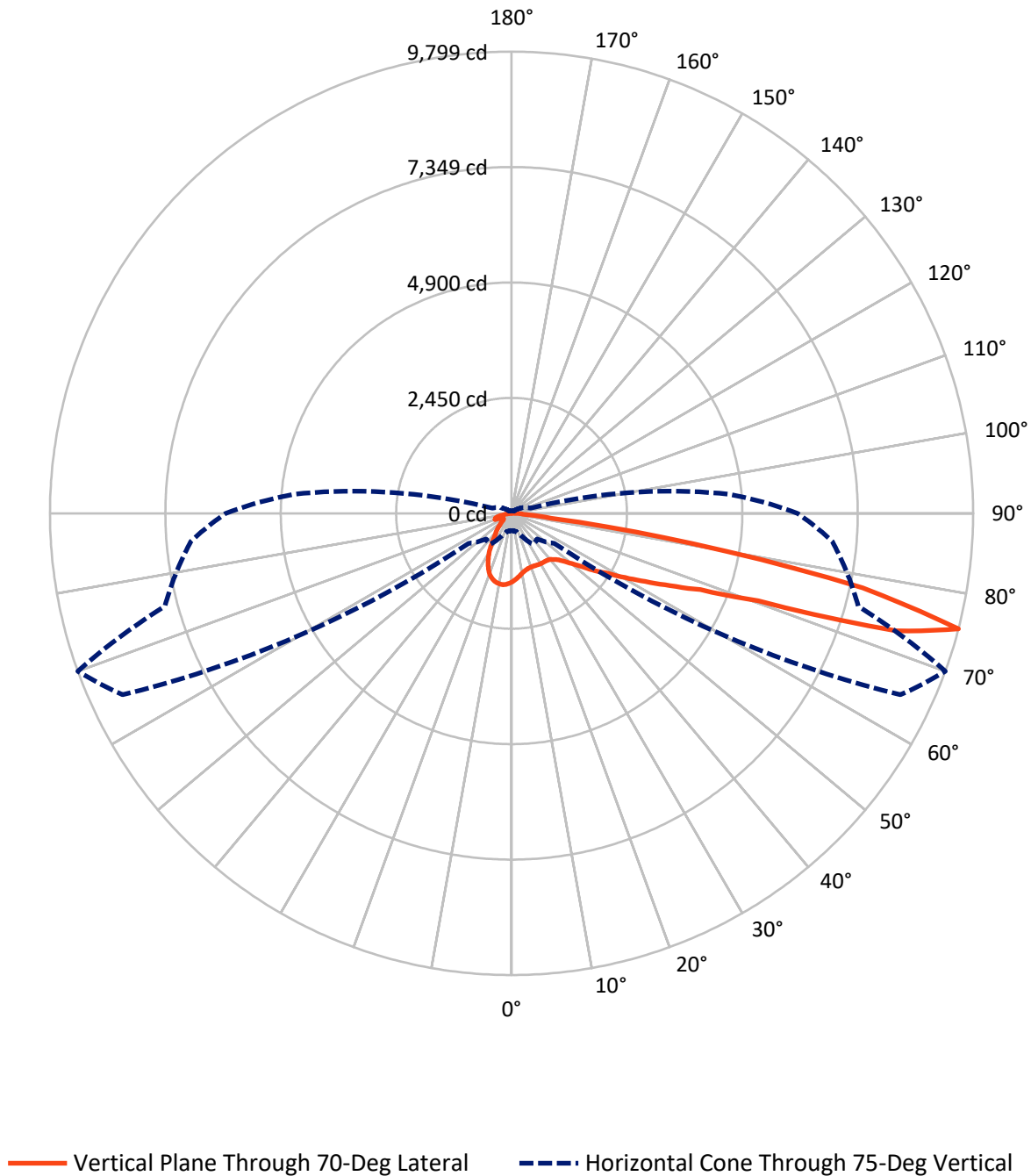
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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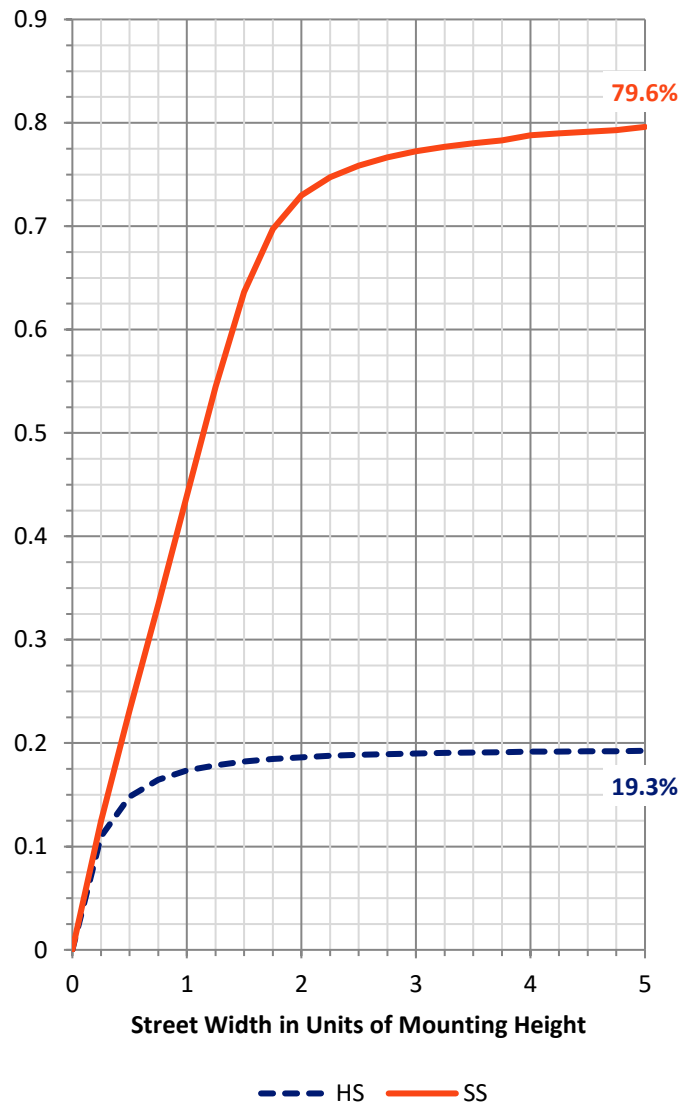
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.9	0.0	1396.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5762.1	0.0	5762.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	7159.0	0.0	7159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.8
10°-20°	320.4	4.5
20°-30°	430.9	6.0
30°-40°	566.7	7.9
40°-50°	808.4	11.3
50°-60°	1259.3	17.6
60°-70°	1644.1	23.0
70°-80°	1747.2	24.4
80°-90°	250.2	3.5
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°	7159.0	100.0
0°-180°	7159.0	100.0

Coefficient of Utilization



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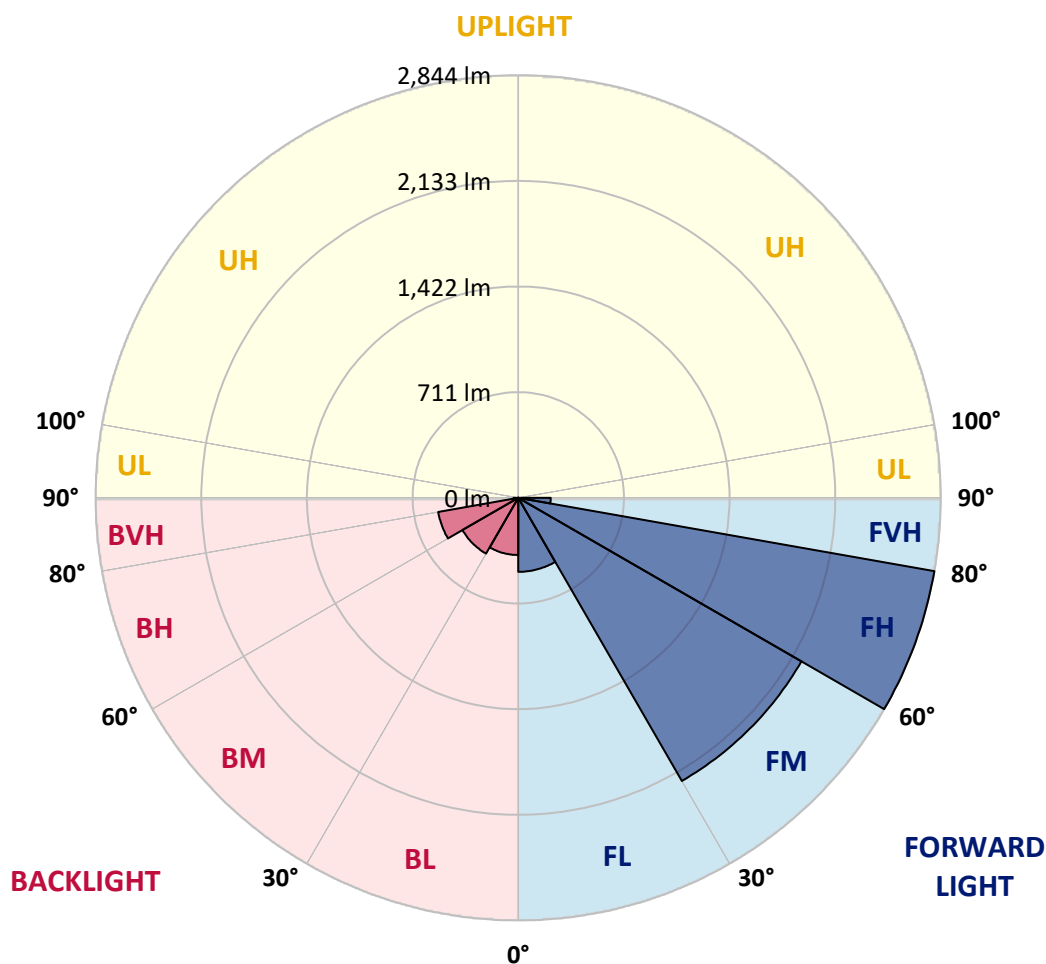
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.1	7.0			
FM	(30°-60°)	2200.9	30.7			
FH	(60°-80°)	2844.4	39.7			G2/5000
FVH	(80°-90°)	218.7	3.1			G2/225
BL	(0°-30°)	384.9	5.4	B1/500		
BM	(30°-60°)	433.6	6.1	B1/1000		
BH	(60°-80°)	546.8	7.6	B2/1000		G2/1000
BVH	(80°-90°)	31.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4
2.5°	1364.4	1364.4	1373.6	1373.6	1385.9	1388.9	1401.2	1407.3	1413.5	1422.7	1441.1
5°	1266.3	1263.2	1272.4	1287.8	1303.1	1318.4	1339.9	1361.3	1370.5	1385.9	1416.5
7.5°	1192.7	1192.7	1198.8	1208.0	1229.5	1247.9	1281.6	1306.1	1327.6	1349.1	1392.0
10°	1137.5	1137.5	1143.6	1152.8	1174.3	1189.6	1220.3	1263.2	1281.6	1312.3	1367.5
12.5°	1085.4	1091.5	1094.6	1106.9	1122.2	1143.6	1174.3	1220.3	1251.0	1287.8	1361.3
15°	1060.9	1060.9	1063.9	1073.1	1088.5	1109.9	1146.7	1195.8	1229.5	1272.4	1364.4
17.5°	1054.7	1051.7	1048.6	1051.7	1067.0	1088.5	1125.3	1180.4	1217.2	1266.3	1379.7
20°	1057.8	1054.7	1051.7	1045.5	1051.7	1073.1	1119.1	1174.3	1211.1	1263.2	1404.3
22.5°	1073.1	1073.1	1067.0	1054.7	1051.7	1067.0	1116.1	1174.3	1214.2	1266.3	1428.8
25°	1116.1	1113.0	1106.9	1082.3	1063.9	1070.1	1116.1	1180.4	1220.3	1272.4	1450.3
27.5°	1162.0	1162.0	1155.9	1134.4	1097.7	1082.3	1122.2	1189.6	1229.5	1278.6	1474.8
30°	1235.6	1232.6	1226.4	1201.9	1155.9	1106.9	1134.4	1198.8	1235.6	1281.6	1496.2
32.5°	1324.5	1324.5	1327.6	1297.0	1229.5	1149.8	1146.7	1205.0	1238.7	1284.7	1520.8
35°	1428.8	1431.9	1441.1	1416.5	1333.7	1214.2	1177.4	1220.3	1244.8	1287.8	1545.3
37.5°	1505.4	1508.5	1542.2	1548.4	1450.3	1300.0	1226.4	1251.0	1257.1	1293.9	1569.8
40°	1594.4	1594.4	1643.4	1680.2	1615.8	1419.6	1293.9	1287.8	1284.7	1318.4	1600.5
42.5°	1692.5	1704.7	1747.7	1809.0	1781.4	1557.6	1388.9	1352.1	1336.8	1361.3	1649.5
45°	1784.5	1790.6	1870.3	1940.8	1943.9	1744.6	1523.8	1453.3	1410.4	1438.0	1738.5
47.5°	1885.6	1894.8	1993.0	2106.4	2127.9	1943.9	1677.1	1579.0	1523.8	1551.4	1867.2
50°	2032.8	2048.1	2130.9	2268.9	2327.2	2180.0	1873.4	1753.8	1692.5	1704.7	2048.1
52.5°	2268.9	2265.8	2305.7	2440.6	2581.6	2440.6	2137.1	1968.4	1885.6	1904.0	2281.2
55°	2409.9	2406.9	2462.1	2609.2	2866.8	2768.7	2428.3	2222.9	2146.3	2137.1	2551.0
57.5°	2284.2	2290.4	2385.4	2615.4	3059.9	3280.7	2747.2	2532.6	2400.7	2416.1	2879.0
60°	1910.2	1873.4	1980.7	2293.4	3001.7	3854.1	3201.0	2906.6	2768.7	2741.1	3293.0
62.5°	1287.8	1300.0	1370.5	1572.9	2569.4	4010.4	4360.0	3372.7	3182.6	3133.5	3682.4
65°	968.9	965.8	968.9	1002.6	1392.0	3863.3	5558.8	3992.0	3694.6	3532.1	4093.2
67.5°	809.4	800.2	797.2	873.8	867.7	2431.4	5957.4	5399.4	4323.2	3979.8	4491.8
70°	686.8	668.4	662.3	784.9	806.4	861.6	5911.4	8017.8	5552.7	4605.2	5019.2
72.5°	521.2	518.2	530.4	668.4	794.1	754.3	3559.7	9164.5	8539.0	5813.3	6107.6
75°	371.0	367.9	401.7	542.7	806.4	766.5	1113.0	9109.3	9799.2	7619.2	6834.3
77.5°	245.3	242.2	272.9	389.4	757.3	769.6	726.7	6595.1	7619.2	7137.8	5601.7
80°	162.5	156.4	177.8	269.8	607.1	824.8	711.3	3265.4	3884.7	3305.2	1861.1
82.5°	95.0	92.0	113.4	187.0	398.6	815.6	717.5	1027.1	840.1	429.3	233.0
85°	49.1	52.1	73.6	113.4	257.6	720.5	766.5	527.4	245.3	174.8	116.5
87.5°	15.3	21.5	39.9	61.3	144.1	496.7	680.7	407.8	177.8	113.4	64.4
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°	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4	1456.4
2.5°	1447.2	1456.4	1474.8	1496.2	1517.7	1526.9	1539.2	1542.2	1548.4	1551.4	1548.4
5°	1438.0	1459.5	1499.3	1526.9	1545.3	1542.2	1539.2	1530.0	1526.9	1523.8	1517.7
7.5°	1419.6	1456.4	1514.6	1539.2	1526.9	1490.1	1459.5	1422.7	1410.4	1395.1	1392.0
10°	1410.4	1462.5	1520.8	1517.7	1468.7	1398.1	1336.8	1278.6	1238.7	1214.2	1201.9
12.5°	1419.6	1484.0	1533.0	1477.8	1392.0	1284.7	1177.4	1088.5	999.5	968.9	953.6
15°	1447.2	1517.7	1533.0	1425.7	1293.9	1140.6	978.1	837.0	732.8	680.7	671.5
17.5°	1480.9	1545.3	1511.6	1361.3	1180.4	959.7	766.5	585.6	505.9	484.4	481.4
20°	1520.8	1579.0	1477.8	1281.6	1033.3	772.7	521.2	429.3	420.1	423.1	426.2
22.5°	1554.5	1594.4	1422.7	1174.3	858.5	518.2	364.9	346.5	364.9	389.4	395.5
25°	1579.0	1585.2	1361.3	1039.4	659.2	331.1	288.2	285.1	312.7	355.7	367.9
27.5°	1594.4	1554.5	1278.6	895.3	404.7	257.6	236.1	245.3	266.7	297.4	303.5
30°	1603.6	1523.8	1198.8	745.1	257.6	217.7	214.6	220.8	230.0	245.3	248.4
32.5°	1606.6	1493.2	1113.0	555.0	217.7	199.3	199.3	205.4	208.5	217.7	217.7
35°	1600.5	1456.4	1027.1	349.5	199.3	193.2	190.1	190.1	190.1	193.2	193.2
37.5°	1585.2	1419.6	926.0	233.0	190.1	184.0	180.9	180.9	177.8	177.8	177.8
40°	1576.0	1388.9	830.9	202.4	180.9	177.8	174.8	168.6	165.6	165.6	165.6
42.5°	1585.2	1373.6	714.4	193.2	174.8	171.7	165.6	159.4	159.4	159.4	159.4
45°	1625.0	1376.7	567.2	187.0	171.7	165.6	156.4	150.2	150.2	153.3	153.3
47.5°	1701.7	1404.3	438.4	180.9	165.6	159.4	147.2	144.1	144.1	144.1	144.1
50°	1818.2	1459.5	346.5	174.8	162.5	153.3	144.1	138.0	138.0	138.0	134.9
52.5°	1983.8	1560.6	272.9	171.7	159.4	150.2	138.0	131.8	128.8	128.8	125.7
55°	2213.7	1720.1	251.4	171.7	153.3	144.1	131.8	122.6	119.6	116.5	116.5
57.5°	2520.3	1947.0	248.4	168.6	144.1	134.9	122.6	113.4	110.4	110.4	107.3
60°	2894.4	2250.5	251.4	162.5	138.0	125.7	113.4	107.3	101.2	101.2	101.2
62.5°	3314.4	2581.6	251.4	159.4	134.9	119.6	107.3	98.1	95.0	92.0	92.0
65°	3740.6	2986.4	269.8	156.4	128.8	107.3	98.1	92.0	85.9	85.9	85.9
67.5°	4209.7	3480.0	367.9	156.4	122.6	98.1	88.9	82.8	79.7	79.7	79.7
70°	4816.8	4295.6	558.0	196.2	125.7	92.0	79.7	76.7	73.6	73.6	73.6
72.5°	6064.7	5236.9	444.6	272.9	147.2	82.8	70.5	67.5	67.5	64.4	64.4
75°	6070.8	4645.1	423.1	291.3	159.4	76.7	64.4	61.3	58.3	58.3	58.3
77.5°	4488.7	3032.4	361.8	226.9	138.0	67.5	58.3	55.2	52.1	52.1	52.1
80°	1324.5	781.8	226.9	165.6	88.9	55.2	49.1	46.0	42.9	42.9	42.9
82.5°	226.9	205.4	104.2	88.9	55.2	42.9	39.9	36.8	33.7	33.7	33.7
85°	110.4	107.3	58.3	49.1	36.8	30.7	30.7	27.6	24.5	24.5	24.5
87.5°	67.5	61.3	42.9	27.6	21.5	15.3	18.4	15.3	15.3	12.3	12.3
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)