

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: P319935

Luminaire Tested: **GAN-SA1D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319935
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-SA1D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6454 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

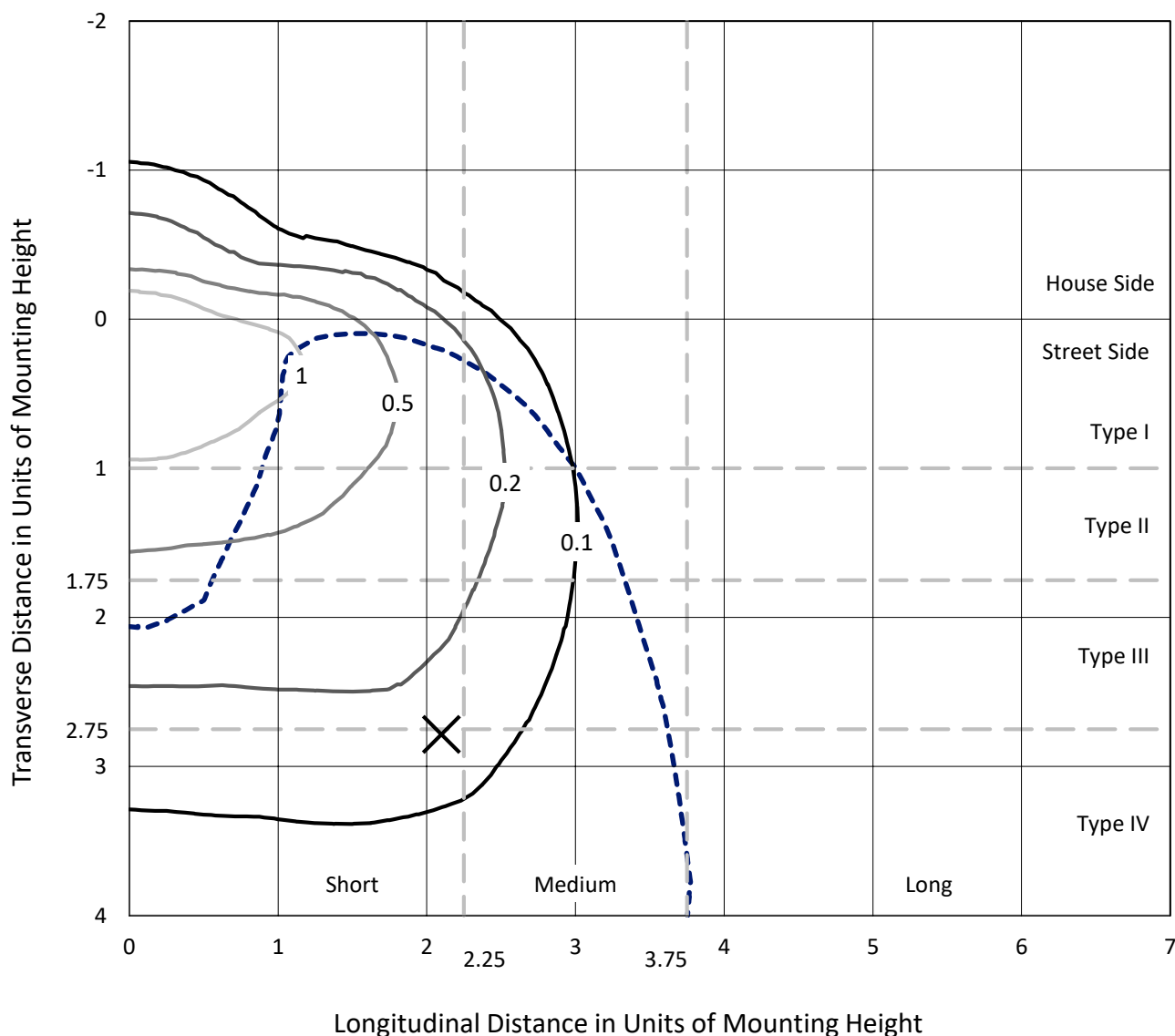
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

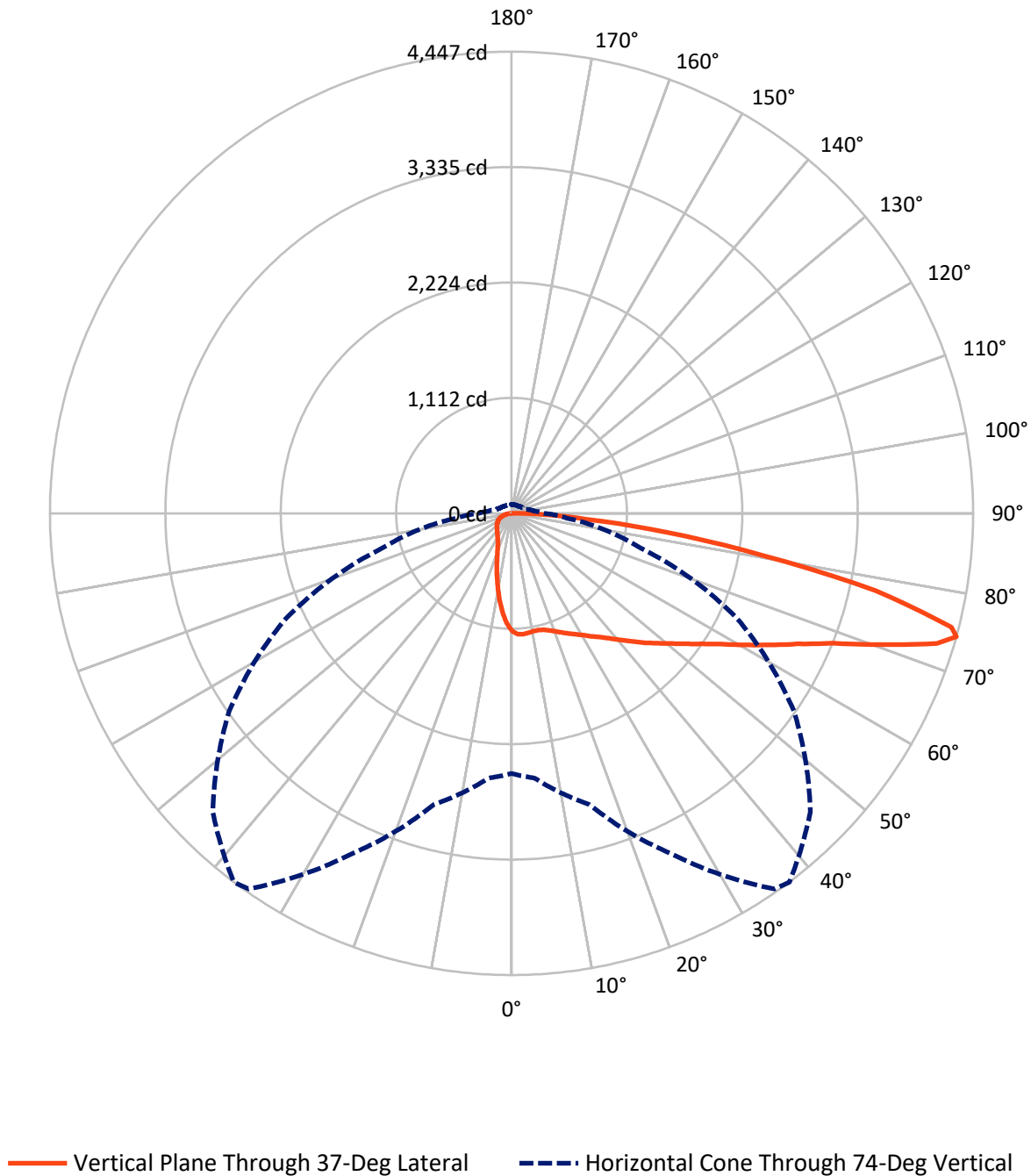
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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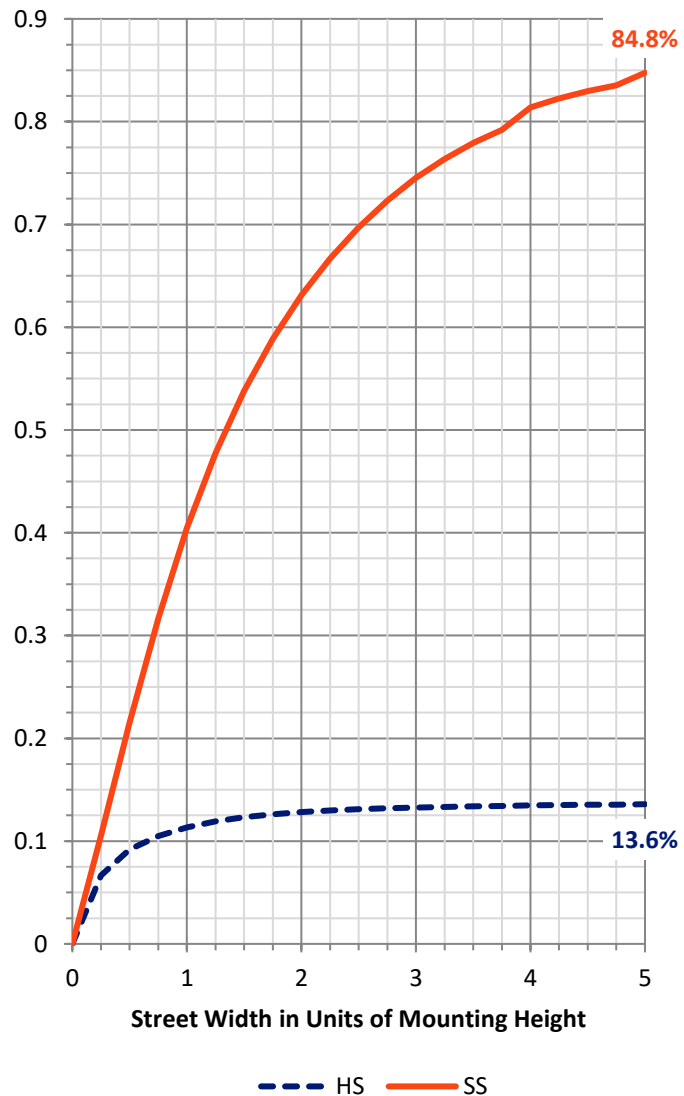
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	888.0	0.0	888.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	5566.0	0.0	5566.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	6454.0	0.0	6454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.6
10°-20°	256.7	4.0
20°-30°	395.5	6.1
30°-40°	575.1	8.9
40°-50°	846.5	13.1
50°-60°	1188.7	18.4
60°-70°	1504.6	23.3
70°-80°	1324.8	20.5
80°-90°	261.9	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°	6454.0	100.0
0°-180°	6454.0	100.0

Coefficient of Utilization



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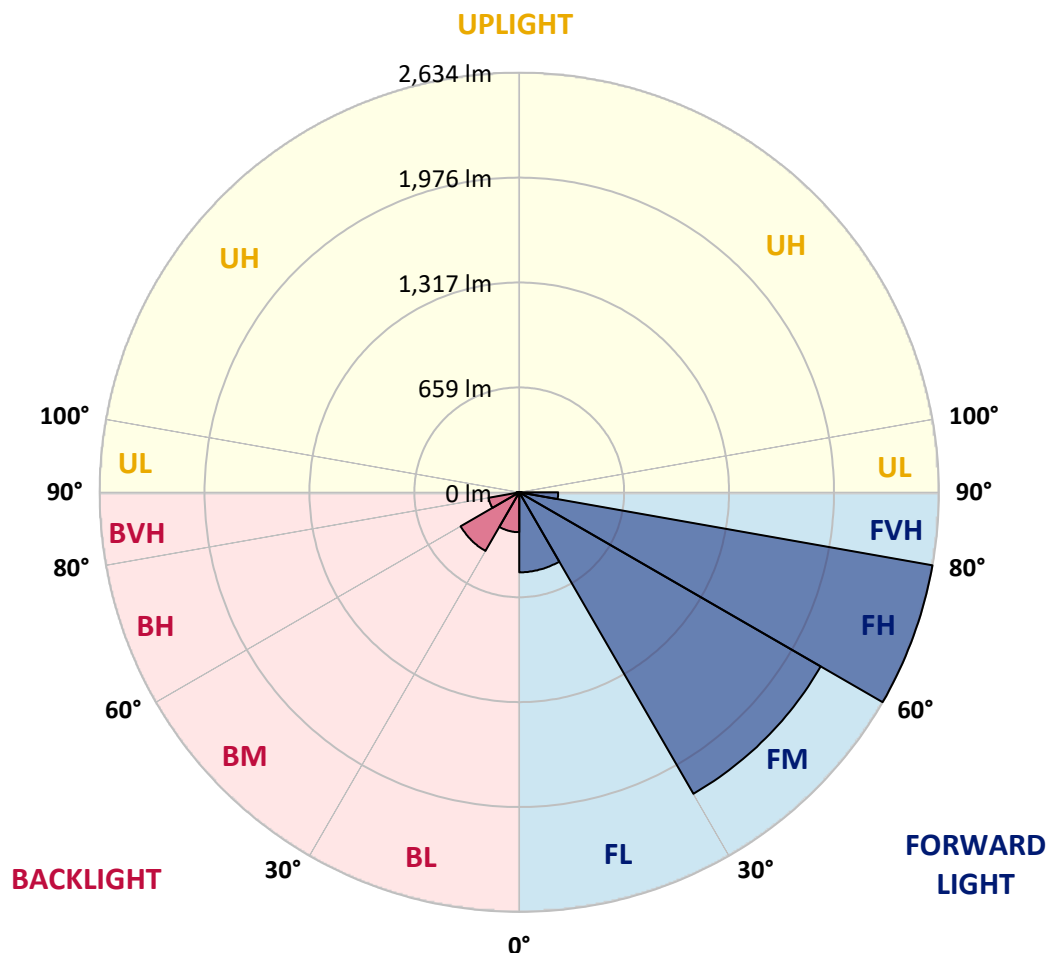
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.2	7.8			
FM	(30°-60°)	2185.4	33.9			
FH	(60°-80°)	2634.2	40.8			G2/5000
FVH	(80°-90°)	244.2	3.8			G3/500
BL	(0°-30°)	250.1	3.9	B1/500		
BM	(30°-60°)	425.0	6.6	B1/1000		
BH	(60°-80°)	195.2	3.0	B1/500		G1/500
BVH	(80°-90°)	17.7	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2
2.5°	1176.0	1176.3	1176.0	1174.2	1169.9	1166.3	1163.3	1159.0	1149.4	1142.2	1131.3
5°	1187.2	1185.8	1184.9	1181.5	1174.7	1170.6	1164.9	1156.7	1141.0	1126.5	1108.8
7.5°	1182.0	1180.4	1178.3	1174.2	1166.5	1163.1	1155.1	1144.4	1125.6	1106.5	1081.0
10°	1165.8	1165.4	1164.5	1163.5	1156.9	1154.2	1146.9	1135.6	1116.9	1093.7	1064.0
12.5°	1147.9	1149.0	1152.6	1157.4	1154.4	1153.1	1148.5	1140.8	1121.7	1096.7	1060.8
15°	1136.5	1139.7	1149.4	1162.0	1164.5	1164.0	1162.9	1157.9	1137.6	1109.9	1068.1
17.5°	1132.6	1137.9	1156.5	1177.2	1184.5	1186.0	1186.5	1177.9	1155.4	1126.0	1075.6
20°	1139.7	1146.3	1173.5	1202.0	1213.6	1214.5	1212.4	1197.4	1172.2	1139.9	1079.7
22.5°	1161.0	1167.0	1201.1	1233.1	1246.3	1247.7	1241.5	1218.8	1189.9	1156.3	1085.3
25°	1202.2	1209.5	1243.6	1275.6	1282.4	1282.7	1273.8	1245.6	1213.1	1179.2	1097.6
27.5°	1255.8	1263.1	1293.8	1325.2	1321.5	1319.5	1307.4	1279.3	1243.3	1210.8	1119.4
30°	1315.6	1323.6	1352.7	1375.0	1366.3	1362.2	1352.5	1316.1	1285.4	1254.0	1152.9
32.5°	1377.5	1384.7	1410.2	1425.4	1414.5	1412.7	1397.9	1364.7	1340.2	1320.0	1207.0
35°	1440.9	1446.1	1471.1	1479.8	1465.2	1464.8	1460.7	1430.2	1414.8	1424.3	1285.6
37.5°	1505.7	1507.1	1528.4	1528.9	1524.6	1526.4	1530.7	1511.6	1515.9	1545.7	1387.9
40°	1563.4	1567.1	1582.5	1587.3	1594.8	1601.2	1622.8	1610.3	1643.7	1696.4	1515.2
42.5°	1606.2	1613.2	1638.0	1650.3	1674.6	1684.6	1715.1	1726.7	1794.0	1873.1	1666.7
45°	1642.3	1653.2	1693.0	1718.3	1759.4	1776.9	1820.6	1859.4	1963.8	2064.7	1826.0
47.5°	1681.4	1695.3	1745.1	1793.3	1849.2	1869.0	1948.3	2006.5	2145.0	2257.5	1976.3
50°	1738.9	1749.6	1798.3	1874.0	1943.8	1969.2	2079.1	2162.5	2329.1	2441.2	2106.6
52.5°	1819.2	1815.1	1856.3	1962.4	2056.1	2087.5	2218.6	2328.4	2515.8	2607.4	2216.6
55°	1899.9	1893.1	1922.0	2055.0	2187.0	2220.0	2372.3	2495.1	2693.3	2757.0	2300.9
57.5°	1989.7	1976.7	2001.1	2159.3	2336.2	2375.5	2544.4	2672.2	2867.9	2877.9	2354.6
60°	2082.2	2064.7	2092.0	2288.7	2525.6	2571.9	2745.8	2845.0	3032.5	2974.8	2371.9
62.5°	2163.2	2150.9	2193.0	2433.0	2739.0	2790.0	2943.6	3028.7	3194.9	3015.0	2309.6
65°	2233.9	2235.9	2308.7	2595.3	2977.1	3031.4	3170.5	3255.1	3322.6	2991.2	2163.9
67.5°	2318.2	2329.8	2453.9	2809.1	3276.7	3336.3	3500.6	3502.0	3394.0	2851.1	1876.9
70°	2441.2	2465.1	2653.8	3105.5	3702.7	3784.6	3911.4	3647.0	3293.7	2471.4	1476.8
72.5°	2550.3	2594.9	2866.3	3444.7	4222.0	4284.1	4151.7	3563.4	2874.8	1852.2	920.1
74°	2506.0	2561.2	2905.0	3611.8	4417.5	4447.3	4070.6	3319.2	2396.9	1282.7	534.7
75°	2410.5	2470.5	2848.6	3610.2	4392.7	4376.1	3874.6	3040.3	1974.0	874.8	355.8
77.5°	1945.4	2008.8	2400.3	3094.1	3601.8	3586.1	2976.4	2039.5	864.6	286.9	180.7
80°	1131.0	1179.5	1490.0	1964.9	2428.7	2457.1	1957.4	1009.2	340.1	161.2	122.5
82.5°	502.4	535.8	719.8	1003.0	1465.7	1502.3	1025.1	528.8	210.1	98.0	73.7
85°	329.6	354.4	437.0	477.6	697.9	723.0	501.7	411.7	138.7	53.9	54.1
87.5°	237.1	261.0	324.6	283.5	320.3	303.3	273.0	381.0	55.7	30.7	18.2
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°	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2
2.5°	1126.5	1122.8	1114.7	1099.2	1090.6	1083.3	1071.2	1064.2	1061.0	1060.8	1062.1
5°	1098.5	1090.1	1069.0	1043.0	1022.4	1003.5	980.1	966.0	956.0	950.1	951.7
7.5°	1066.0	1052.8	1019.6	978.3	945.1	908.5	872.3	850.7	833.9	821.4	823.7
10°	1043.7	1025.5	977.1	917.6	862.3	809.1	759.3	729.5	705.9	687.7	689.1
12.5°	1036.2	1011.7	944.6	865.0	787.5	714.8	649.7	604.1	579.7	559.0	560.6
15°	1037.4	1004.4	917.3	817.8	720.2	628.6	549.7	496.3	463.3	449.0	449.2
17.5°	1038.3	996.0	888.7	767.1	653.6	548.1	462.4	408.3	377.2	364.0	364.2
20°	1035.3	982.3	853.2	708.9	584.0	474.2	391.3	345.3	321.7	311.5	311.5
22.5°	1031.5	966.2	813.2	650.4	515.4	410.1	340.3	305.3	291.7	284.9	284.6
25°	1033.3	954.2	772.3	590.4	452.2	359.0	306.5	283.3	274.2	269.9	269.6
27.5°	1043.0	948.5	734.5	530.6	396.9	320.6	283.7	267.4	261.4	258.7	258.7
30°	1060.8	948.5	695.2	479.7	351.0	292.1	266.2	255.1	251.0	249.2	249.2
32.5°	1091.7	953.7	657.2	429.2	314.4	269.9	251.7	244.2	241.0	240.1	240.1
35°	1144.9	971.4	620.2	381.5	284.9	251.7	237.8	233.5	231.2	231.0	231.7
37.5°	1219.7	1007.6	585.4	346.2	263.9	236.9	226.2	222.8	221.4	222.6	223.5
40°	1313.8	1056.7	553.8	314.4	248.0	225.1	215.5	213.2	212.6	214.2	215.5
42.5°	1427.5	1123.1	527.9	291.5	235.8	215.1	206.4	203.7	203.0	204.8	206.7
45°	1550.5	1194.5	509.7	274.4	226.2	207.6	198.5	195.5	194.2	195.1	197.1
47.5°	1662.3	1262.0	502.4	262.4	217.1	201.2	191.4	187.8	185.5	185.1	186.6
50°	1756.7	1312.2	505.8	255.1	209.8	194.2	184.6	180.5	177.1	175.1	176.2
52.5°	1825.3	1343.8	509.0	251.9	204.2	186.4	177.1	173.2	168.7	165.3	165.3
55°	1875.1	1351.1	502.0	249.4	199.8	178.0	168.7	165.1	160.5	156.6	156.2
57.5°	1894.7	1330.6	475.8	245.8	196.9	170.1	159.8	157.1	153.2	148.7	148.5
60°	1868.3	1267.4	425.4	238.0	193.0	163.5	151.0	149.1	147.3	143.0	142.8
62.5°	1762.4	1128.8	360.1	222.3	185.3	156.4	142.8	143.7	143.9	141.0	140.5
65°	1570.3	938.2	296.5	201.9	173.7	148.0	134.4	138.7	141.2	140.7	140.0
67.5°	1291.1	730.2	251.2	180.3	158.5	136.4	125.3	130.3	132.3	133.9	133.5
70°	958.3	514.9	207.8	157.5	140.0	122.8	113.4	115.9	114.6	116.4	117.1
72.5°	534.3	309.0	169.4	134.8	120.9	106.9	100.3	99.8	96.8	96.8	96.8
74°	320.6	226.7	148.9	120.7	109.4	96.4	90.7	88.7	85.9	86.2	85.9
75°	257.8	194.8	136.6	111.4	101.2	90.3	84.6	81.8	79.8	79.8	79.6
77.5°	162.8	148.0	110.0	88.7	80.9	74.3	70.5	66.8	66.8	66.6	66.4
80°	123.0	117.8	85.7	67.1	62.1	57.1	54.6	53.0	53.0	53.7	53.4
82.5°	84.3	88.7	60.2	46.8	44.3	40.7	40.2	40.5	39.8	38.9	38.6
85°	61.6	66.6	40.7	29.6	27.1	24.8	26.6	27.5	26.4	24.3	23.4
87.5°	23.6	43.6	21.8	12.3	11.4	9.8	11.4	11.8	12.7	10.0	10.2
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)