

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: McGRAW-EDISON

Report Number: P451510

Luminaire Tested: **GALN-SA2B-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7251 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

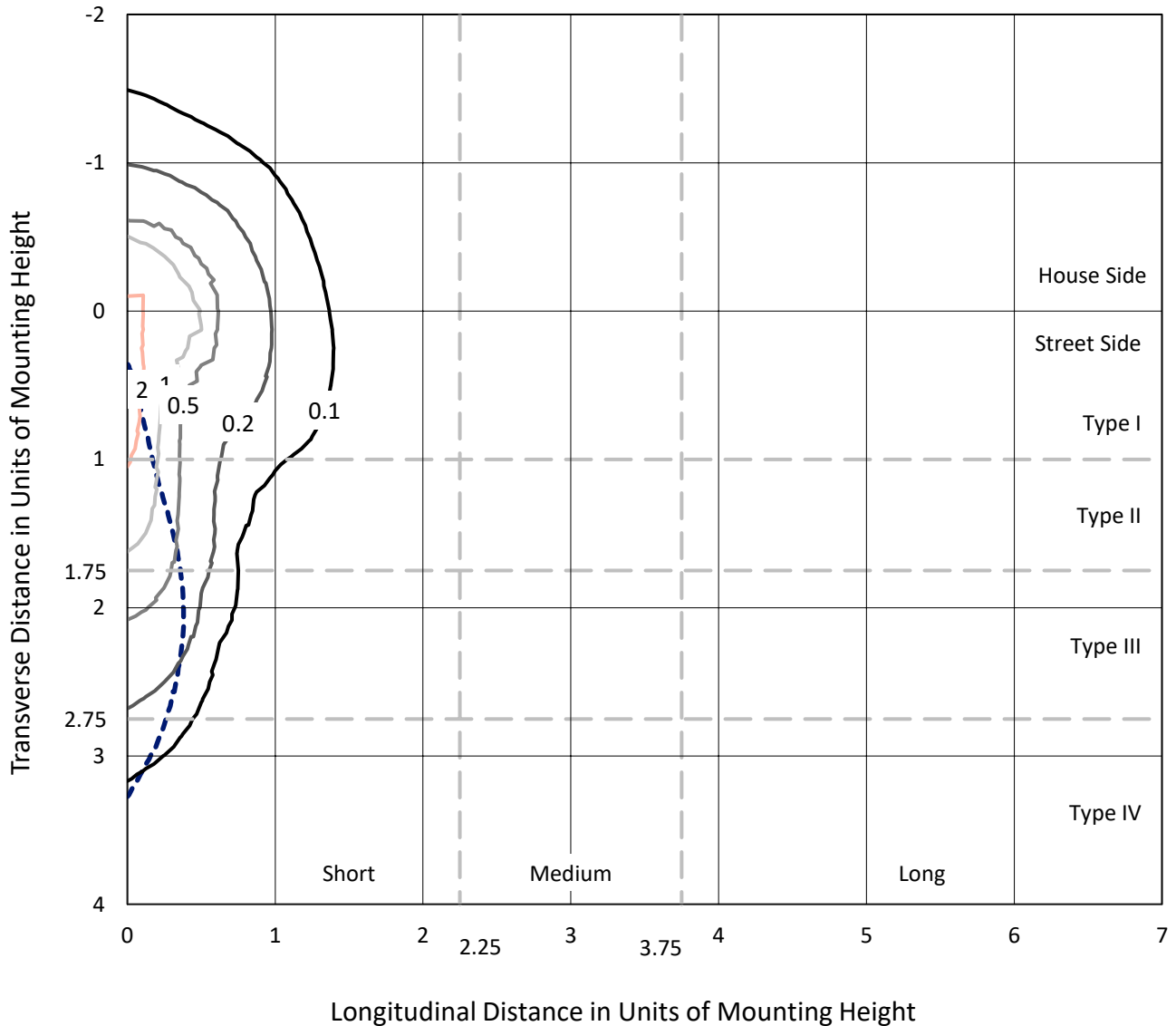
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

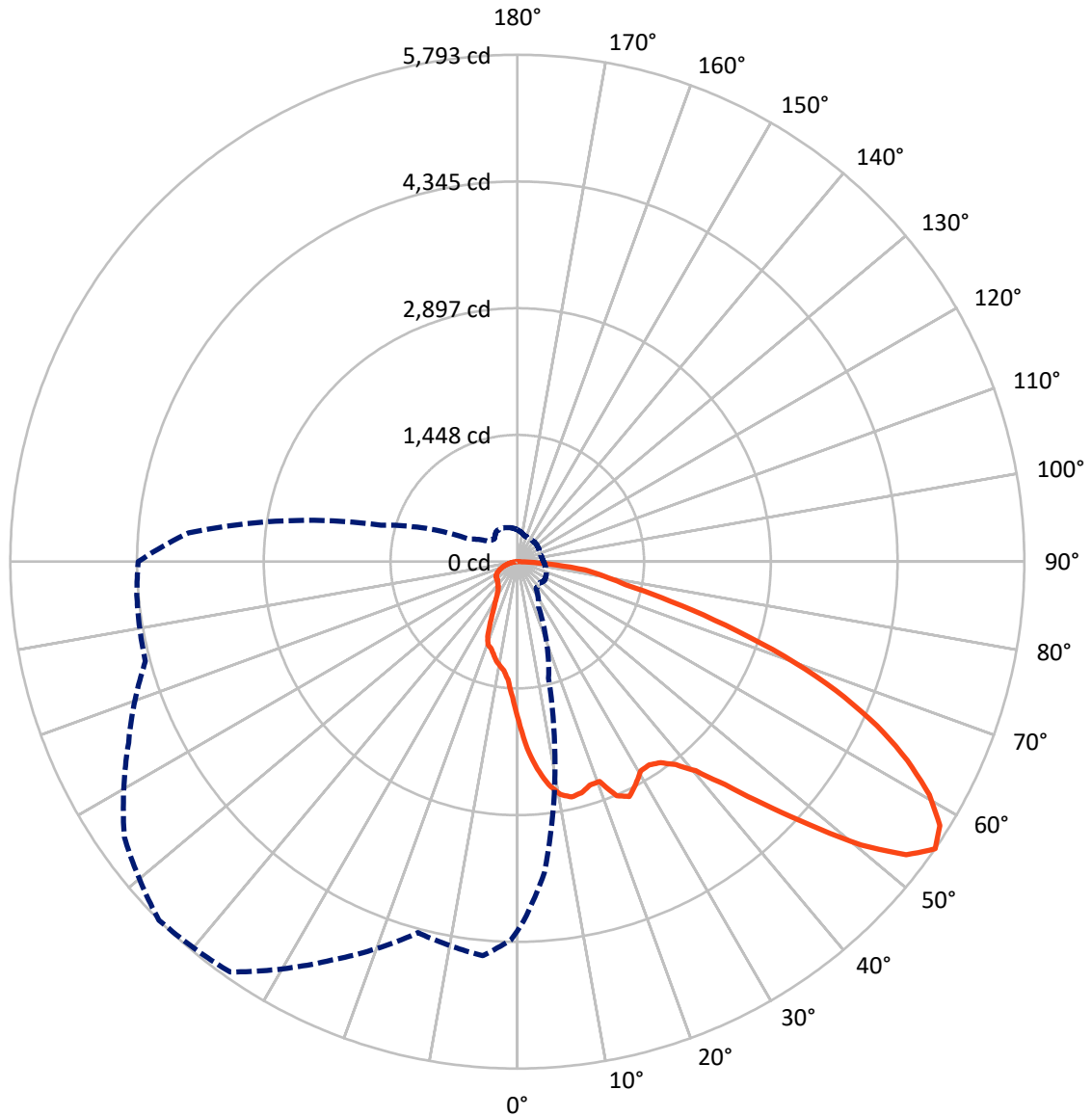
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.1	0.0	1586.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5664.9	0.0	5664.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	7251.0	0.0	7251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	2.1
10°-20°	409.2	5.6
20°-30°	706.9	9.7
30°-40°	821.5	11.3
40°-50°	1146.1	15.8
50°-60°	1555.2	21.4
60°-70°	1479.6	20.4
70°-80°	799.3	11.0
80°-90°	179.1	2.5
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°	7251.0	100.0
0°-180°	7251.0	100.0

Coefficient of Utilization



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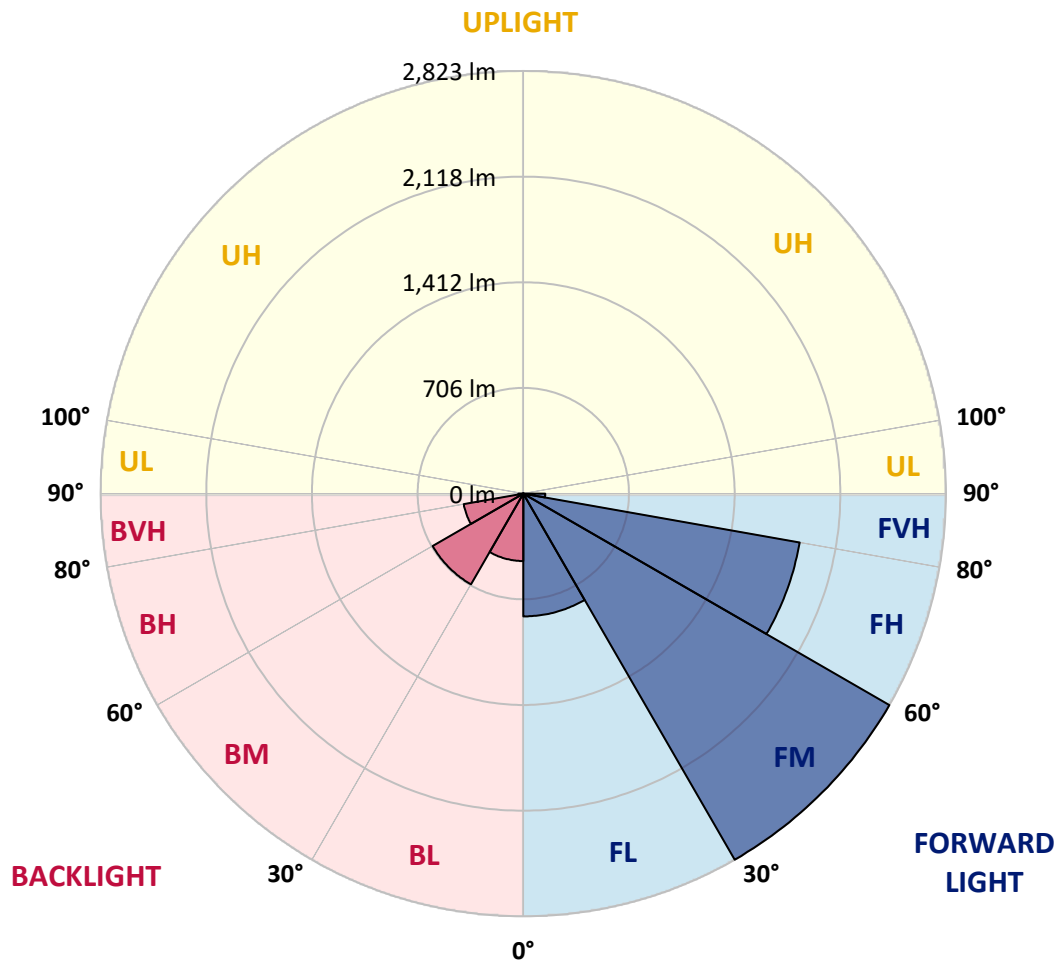
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.1	11.3			
FM	(30°-60°)	2823.4	38.9			
FH	(60°-80°)	1875.0	25.9			G2/5000
FVH	(80°-90°)	146.4	2.0			G2/225
BL	(0°-30°)	450.1	6.2	B1/500		
BM	(30°-60°)	699.4	9.6	B1/1000		
BH	(60°-80°)	403.9	5.6	B1/500		G1/500
BVH	(80°-90°)	32.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7
2.5°	2021.6	2013.9	1992.4	1936.0	1879.0	1821.2	1776.7	1721.2	1663.3	1632.2	1592.5
5°	2049.3	2040.7	1990.0	1862.8	1747.5	1626.5	1529.8	1445.2	1410.7	1360.0	1319.3
7.5°	1984.3	1980.4	1904.4	1721.7	1563.8	1405.4	1295.9	1228.0	1166.3	1143.3	1148.1
10°	1925.0	1909.7	1814.5	1575.7	1391.6	1262.9	1184.4	1117.9	1074.4	1062.9	1065.3
12.5°	1875.7	1855.1	1742.7	1477.7	1316.5	1213.6	1113.6	1044.3	1004.6	1015.6	1052.9
15°	1865.6	1837.9	1712.6	1444.2	1275.3	1142.8	1033.3	953.4	923.7	947.7	1007.4
17.5°	1930.7	1895.8	1764.2	1455.2	1236.1	1070.6	936.2	844.8	819.9	858.2	936.2
20°	2139.7	2088.1	1925.4	1518.8	1232.3	1034.7	879.7	787.9	798.4	871.1	952.4
22.5°	2526.3	2448.8	2207.7	1611.6	1252.4	1025.6	868.2	820.4	878.3	940.0	993.6
25°	2602.8	2542.1	2258.4	1632.7	1248.1	1019.4	900.8	924.7	989.3	1019.9	1001.2
27.5°	2645.9	2576.5	2255.0	1528.4	1116.0	924.7	861.1	900.8	917.0	887.4	836.7
30°	2746.3	2674.1	2312.0	1418.8	918.9	686.0	601.3	585.0	596.0	601.8	583.6
32.5°	2884.6	2813.3	2419.1	1347.1	794.6	567.3	484.1	461.1	455.9	449.7	442.5
35°	3063.5	2953.9	2524.4	1301.2	743.4	524.8	448.2	430.5	423.4	414.7	407.1
37.5°	3245.3	3130.5	2657.3	1252.8	709.4	495.1	424.3	416.2	403.7	394.7	383.7
40°	3438.5	3309.8	2778.4	1210.8	676.4	476.0	407.1	406.1	389.9	379.3	366.4
42.5°	3605.9	3473.4	2886.5	1184.9	651.1	455.9	396.6	399.4	382.7	366.9	350.2
45°	3738.9	3608.8	2986.5	1184.9	630.5	435.8	394.7	392.7	376.0	356.4	337.3
47.5°	3855.7	3721.2	3084.0	1215.1	617.6	419.1	384.1	387.5	370.3	345.4	326.7
50°	3946.1	3827.4	3215.6	1261.9	604.7	405.7	370.7	388.9	365.5	339.6	318.1
52.5°	4061.4	3955.2	3373.9	1326.0	593.7	390.8	358.8	388.9	365.0	340.1	316.7
55°	4221.1	4109.2	3564.8	1379.1	576.0	377.0	348.3	377.9	363.6	337.7	312.9
57.5°	4333.1	4249.4	3699.7	1414.5	550.6	359.3	338.7	367.4	357.3	328.6	301.4
58°	4338.3	4256.5	3719.3	1422.7	544.4	355.9	336.3	362.6	354.5	324.8	297.5
60°	4278.1	4207.7	3723.2	1411.2	509.0	339.2	323.9	343.0	339.2	302.3	277.0
62.5°	4059.0	3983.9	3568.6	1317.9	462.1	318.6	304.7	316.7	308.1	270.8	247.3
65°	3747.5	3609.3	3251.0	1171.5	428.6	296.6	278.9	279.8	270.8	244.0	223.4
67.5°	3332.8	3178.3	2752.5	987.4	403.3	272.2	248.3	245.9	234.9	217.7	200.9
70°	2822.4	2716.7	2236.9	803.2	375.0	245.4	213.8	212.4	205.7	192.8	178.0
72.5°	2287.6	2153.1	1806.3	642.9	340.6	219.6	181.8	184.7	176.0	167.0	153.6
75°	1688.2	1600.1	1396.4	515.7	294.2	191.3	151.6	152.6	148.8	139.2	128.7
77.5°	1111.7	1085.4	998.8	338.7	226.3	152.1	123.9	124.9	122.0	113.4	102.4
80°	748.2	730.5	676.9	218.1	151.2	110.0	95.7	96.6	96.2	87.1	72.2
82.5°	461.1	453.5	436.3	147.3	104.8	78.9	63.1	66.0	71.3	61.2	49.3
85°	217.7	218.1	263.6	80.4	61.7	50.7	34.4	36.8	36.8	36.8	27.7
87.5°	28.2	29.7	36.4	34.0	22.5	19.1	12.4	10.5	9.1	12.0	8.6
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°	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7
2.5°	1578.6	1569.1	1548.5	1543.7	1540.8	1549.0	1527.4	1533.2	1523.6	1550.4	1546.1
5°	1321.7	1322.7	1339.4	1350.4	1354.3	1350.4	1336.1	1311.2	1292.1	1284.4	1286.3
7.5°	1139.0	1155.7	1184.4	1216.5	1245.7	1254.3	1246.2	1198.8	1147.1	1114.6	1104.1
10°	1078.2	1100.7	1133.7	1159.1	1184.9	1205.5	1209.8	1173.0	1111.7	1034.7	1004.6
12.5°	1081.6	1112.2	1143.8	1151.9	1149.5	1157.7	1153.8	1147.6	1107.4	1009.4	959.1
15°	1050.0	1086.4	1108.4	1104.1	1096.4	1089.2	1079.2	1063.4	1049.1	980.2	924.7
17.5°	977.3	1014.6	1032.8	1034.2	1034.2	1032.3	1007.9	1002.2	1000.3	966.8	932.8
20°	990.7	1011.3	1003.1	989.7	993.6	1006.5	992.1	989.3	1000.3	1015.1	1008.9
22.5°	998.4	991.2	930.0	870.6	857.2	897.4	905.6	937.6	982.1	1035.7	1070.6
25°	951.0	893.1	783.6	716.6	678.8	716.1	764.9	824.2	890.7	959.6	1000.3
27.5°	795.1	751.0	672.6	612.3	579.3	585.0	626.7	680.7	742.4	788.8	818.5
30°	598.9	579.3	538.6	518.1	498.0	493.2	510.9	531.5	558.7	564.5	572.1
32.5°	441.1	438.2	440.6	433.9	430.1	429.6	424.3	429.1	432.0	435.3	428.6
35°	399.0	395.1	388.4	386.5	384.1	385.1	382.7	380.3	382.2	385.1	387.0
37.5°	377.4	371.7	362.1	358.8	358.8	360.2	356.4	355.4	358.8	367.9	372.6
40°	360.7	354.0	343.0	338.7	341.6	345.4	340.1	338.2	346.3	355.9	363.6
42.5°	344.9	339.6	329.1	324.3	326.7	333.9	326.2	324.8	335.3	345.9	355.0
45°	331.5	326.2	316.7	314.3	315.2	321.9	316.7	316.7	326.7	338.2	346.3
47.5°	321.0	314.3	308.1	306.2	307.1	310.9	310.0	310.0	319.6	331.5	339.6
50°	310.5	304.7	296.6	297.5	299.9	305.2	304.7	306.2	315.7	330.6	339.2
52.5°	305.7	297.1	288.0	288.9	296.1	302.3	300.4	301.9	312.9	340.6	353.0
55°	300.4	288.9	278.4	279.8	288.0	297.1	294.7	296.6	309.5	347.3	364.5
57.5°	290.4	277.0	265.5	266.5	278.4	288.0	284.2	286.5	301.9	340.1	358.3
58°	286.1	274.6	263.6	264.1	275.5	286.1	281.8	283.7	299.5	338.2	355.4
60°	267.9	261.2	251.6	252.1	263.1	272.2	269.8	271.7	287.0	324.3	337.3
62.5°	243.0	239.2	236.8	236.8	243.5	252.1	254.5	256.9	270.8	293.2	304.7
65°	216.2	216.2	216.7	216.7	221.0	232.0	233.4	239.7	252.6	263.6	272.2
67.5°	198.0	197.1	198.0	195.7	197.6	204.3	211.4	217.2	230.6	238.2	241.1
70°	174.6	174.1	174.6	171.3	173.6	179.4	184.2	193.7	207.6	213.4	214.8
72.5°	151.6	151.6	152.6	150.2	150.2	156.4	159.8	170.3	183.2	186.6	187.0
75°	127.7	129.2	129.2	125.8	126.8	130.6	134.9	143.5	155.5	157.9	157.9
77.5°	101.4	106.7	106.7	103.3	104.8	105.2	111.0	115.3	124.4	125.3	121.5
80°	73.7	78.9	83.2	80.4	82.8	79.9	83.2	86.1	95.2	90.9	84.7
82.5°	52.6	56.4	59.8	60.3	57.9	52.6	56.9	57.4	61.7	56.0	52.6
85°	29.2	32.5	36.8	34.9	31.1	27.7	29.2	30.1	29.7	28.2	26.3
87.5°	7.7	8.1	9.1	6.7	6.2	5.3	7.2	7.2	8.1	8.6	8.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7
2.5°	1549.4	1570.5	1615.9	1650.4	1692.5	1743.7	1803.9	1864.7	1930.2	1950.8	1979.5
5°	1282.0	1334.7	1356.7	1419.3	1481.5	1574.8	1674.3	1789.6	1915.9	1976.6	2035.0
7.5°	1095.5	1123.7	1146.7	1192.6	1267.2	1380.6	1505.4	1649.4	1828.3	1916.8	2002.5
10°	995.0	997.9	1026.1	1083.0	1148.1	1248.1	1366.2	1527.4	1726.9	1834.5	1935.0
12.5°	928.5	916.1	946.7	1006.0	1079.7	1172.0	1280.6	1434.2	1653.7	1764.2	1885.7
15°	870.2	850.5	873.5	934.3	1007.0	1115.6	1232.3	1394.9	1625.0	1753.7	1888.6
17.5°	871.6	817.5	825.7	876.9	949.1	1059.6	1201.2	1393.5	1668.6	1816.8	1976.6
20°	979.2	892.6	855.8	865.4	935.2	1055.8	1215.5	1460.5	1811.6	2027.8	2198.6
22.5°	1084.9	1032.8	973.5	953.9	992.1	1118.4	1306.9	1618.8	2122.5	2448.3	2756.8
25°	1048.1	1092.6	1077.8	1050.0	1058.6	1163.4	1369.1	1748.9	2364.1	2731.0	3020.9
27.5°	838.6	919.4	935.7	935.2	938.6	1024.7	1231.3	1661.4	2394.2	2785.1	3062.0
30°	589.4	596.5	605.1	621.9	637.2	714.2	963.4	1458.5	2380.8	2809.5	3086.9
32.5°	425.3	434.8	446.8	469.8	506.1	604.2	842.9	1394.0	2451.6	2910.4	3159.6
35°	388.9	399.9	411.4	437.7	472.2	563.0	795.1	1367.2	2567.9	3074.0	3290.2
37.5°	377.4	389.9	399.9	419.1	446.8	533.4	751.5	1349.0	2687.0	3247.2	3465.3
40°	369.3	383.7	391.8	407.1	426.2	506.1	712.8	1334.7	2802.3	3405.5	3605.9
42.5°	362.1	377.0	387.5	398.5	414.3	481.7	678.3	1320.3	2902.3	3559.1	3746.1
45°	353.5	372.2	385.6	394.2	408.0	461.1	652.0	1308.8	3016.1	3695.4	3887.7
47.5°	346.3	366.9	383.7	393.7	399.0	446.8	631.0	1324.6	3152.9	3838.0	4019.3
50°	346.8	366.4	387.5	403.3	389.4	434.8	618.1	1387.3	3330.9	4007.3	4123.1
52.5°	362.1	386.0	402.8	406.6	376.0	420.5	611.4	1496.8	3541.4	4157.0	4227.8
55°	379.3	404.2	422.4	420.0	368.8	402.3	609.9	1613.5	3771.9	4331.6	4364.2
57.5°	373.1	409.5	437.2	424.8	369.3	384.6	603.7	1707.8	3964.7	4462.2	4499.1
58°	371.2	407.6	439.1	423.8	367.9	379.3	602.3	1715.9	3991.5	4471.3	4518.2
60°	352.6	390.8	437.7	416.7	359.7	365.0	586.5	1742.2	3984.3	4424.4	4529.7
62.5°	318.6	350.2	404.7	381.7	334.9	345.9	551.1	1709.7	3790.1	4198.6	4361.8
65°	280.3	303.8	340.1	335.8	299.5	326.2	502.8	1581.0	3401.2	3832.2	4004.0
67.5°	251.6	270.8	293.7	287.5	269.3	299.9	450.6	1363.4	2964.9	3392.1	3608.3
70°	222.4	237.3	248.8	244.4	238.7	274.1	404.2	1106.5	2546.8	2974.0	3183.5
72.5°	192.8	206.7	216.2	210.0	206.7	246.8	366.4	858.7	2011.5	2453.6	2722.9
75°	161.2	175.1	181.8	174.6	172.7	217.7	310.5	641.5	1509.3	1891.5	2124.0
77.5°	124.9	139.7	148.3	145.9	146.9	178.9	250.7	439.1	1079.2	1289.2	1534.1
80°	87.5	103.8	109.5	107.2	113.9	136.3	177.0	278.9	744.3	836.7	1009.4
82.5°	54.1	69.4	70.3	72.7	77.5	100.9	133.5	169.8	467.4	483.2	608.5
85°	27.3	33.0	35.4	39.2	43.5	61.7	76.1	105.2	300.9	227.7	340.1
87.5°	9.1	9.6	11.5	14.4	17.7	25.4	32.5	43.1	74.6	41.1	105.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7	1819.7
2.5°	2037.4	2078.0	2107.7	2135.0	2108.7	2106.3	2080.4	2038.8	2021.6	2021.6
5°	2157.4	2252.6	2329.7	2378.9	2357.9	2307.2	2223.5	2116.8	2059.4	2049.3
7.5°	2190.5	2378.5	2521.5	2572.2	2536.8	2424.9	2264.6	2084.7	2002.5	1984.3
10°	2170.4	2414.8	2624.8	2705.2	2655.9	2486.6	2268.0	2047.4	1946.0	1925.0
12.5°	2149.3	2419.6	2643.9	2760.2	2728.1	2536.3	2292.3	2023.0	1905.8	1875.7
15°	2164.6	2421.5	2620.5	2740.6	2761.1	2596.1	2332.5	2040.7	1897.7	1865.6
17.5°	2261.3	2457.9	2587.0	2684.1	2756.4	2677.4	2446.9	2125.4	1970.4	1930.7
20°	2463.1	2544.9	2606.2	2681.3	2797.5	2843.4	2680.8	2357.9	2174.7	2139.7
22.5°	3047.7	3032.9	2907.5	2906.1	3074.5	3258.7	3247.7	2830.5	2555.0	2526.3
25°	3266.8	3197.9	3016.6	2972.6	3046.7	3330.9	3289.7	2927.1	2672.7	2602.8
27.5°	3181.2	3010.4	2891.3	2881.2	2856.8	3125.2	3224.2	2966.4	2713.8	2645.9
30°	3175.9	2924.8	2754.5	2774.5	2798.0	3054.4	3260.6	3089.3	2819.0	2746.3
32.5°	3188.8	2936.7	2764.5	2768.3	2838.2	3064.9	3300.7	3223.3	2957.3	2884.6
35°	3241.0	3004.6	2828.6	2819.5	2928.6	3133.8	3369.2	3433.7	3146.2	3063.5
37.5°	3325.1	3140.0	2945.8	2943.4	3101.7	3258.2	3454.3	3646.1	3334.2	3245.3
40°	3449.0	3298.4	3154.4	3141.5	3337.1	3460.5	3564.8	3872.4	3552.9	3438.5
42.5°	3598.8	3488.3	3429.4	3480.6	3668.6	3687.8	3737.0	4081.4	3738.9	3605.9
45°	3737.5	3732.2	3814.0	3949.9	4059.4	3944.6	3916.9	4221.6	3883.4	3738.9
47.5°	3902.5	4045.1	4291.9	4490.9	4605.7	4243.6	4070.4	4313.0	3988.6	3855.7
50°	4070.0	4419.7	4813.8	5091.3	5115.7	4568.4	4176.2	4399.1	4084.3	3946.1
52.5°	4246.0	4718.6	5243.4	5565.8	5518.5	4851.1	4278.5	4457.4	4182.9	4061.4
55°	4399.1	4901.9	5483.6	5793.1	5723.7	5023.4	4389.0	4520.6	4323.5	4221.1
57.5°	4484.7	4917.2	5423.8	5694.0	5618.9	4989.9	4439.7	4567.5	4413.4	4333.1
58°	4497.2	4896.6	5370.7	5636.6	5560.1	4961.6	4439.3	4565.6	4419.2	4338.3
60°	4486.1	4763.1	5173.1	5409.9	5329.5	4784.7	4421.1	4529.7	4346.5	4278.1
62.5°	4384.3	4531.6	4832.0	5004.2	4981.3	4508.2	4346.5	4394.3	4125.0	4059.0
65°	4250.3	4215.9	4395.3	4517.2	4534.5	4301.0	4272.3	4101.5	3840.8	3747.5
67.5°	4087.7	3858.1	3857.6	3926.9	3955.6	3982.4	4117.8	3783.4	3431.3	3332.8
70°	3811.6	3306.5	3154.4	3236.2	3212.3	3438.5	3841.8	3336.6	2937.7	2822.4
72.5°	3305.5	2623.9	2380.4	2485.6	2425.3	2696.6	3361.5	2745.8	2429.2	2287.6
75°	2679.3	1962.8	1711.6	1808.2	1770.9	2045.5	2797.0	1994.3	1742.2	1688.2
77.5°	2080.4	1422.2	1276.3	1262.9	1290.6	1522.2	2051.7	1346.6	1148.6	1111.7
80°	1336.6	1018.0	1026.6	1009.4	1023.7	959.6	1245.7	859.2	777.8	748.2
82.5°	879.7	709.4	845.8	780.7	741.5	645.3	817.1	562.6	477.4	461.1
85°	599.4	522.4	475.5	363.6	428.1	497.0	612.8	302.8	240.1	217.7
87.5°	270.8	181.8	133.5	82.3	130.1	150.2	297.5	35.4	27.3	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)