

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: P451017

Luminaire Tested: **GALN-SA1D-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451017
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-SA1D-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6747 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

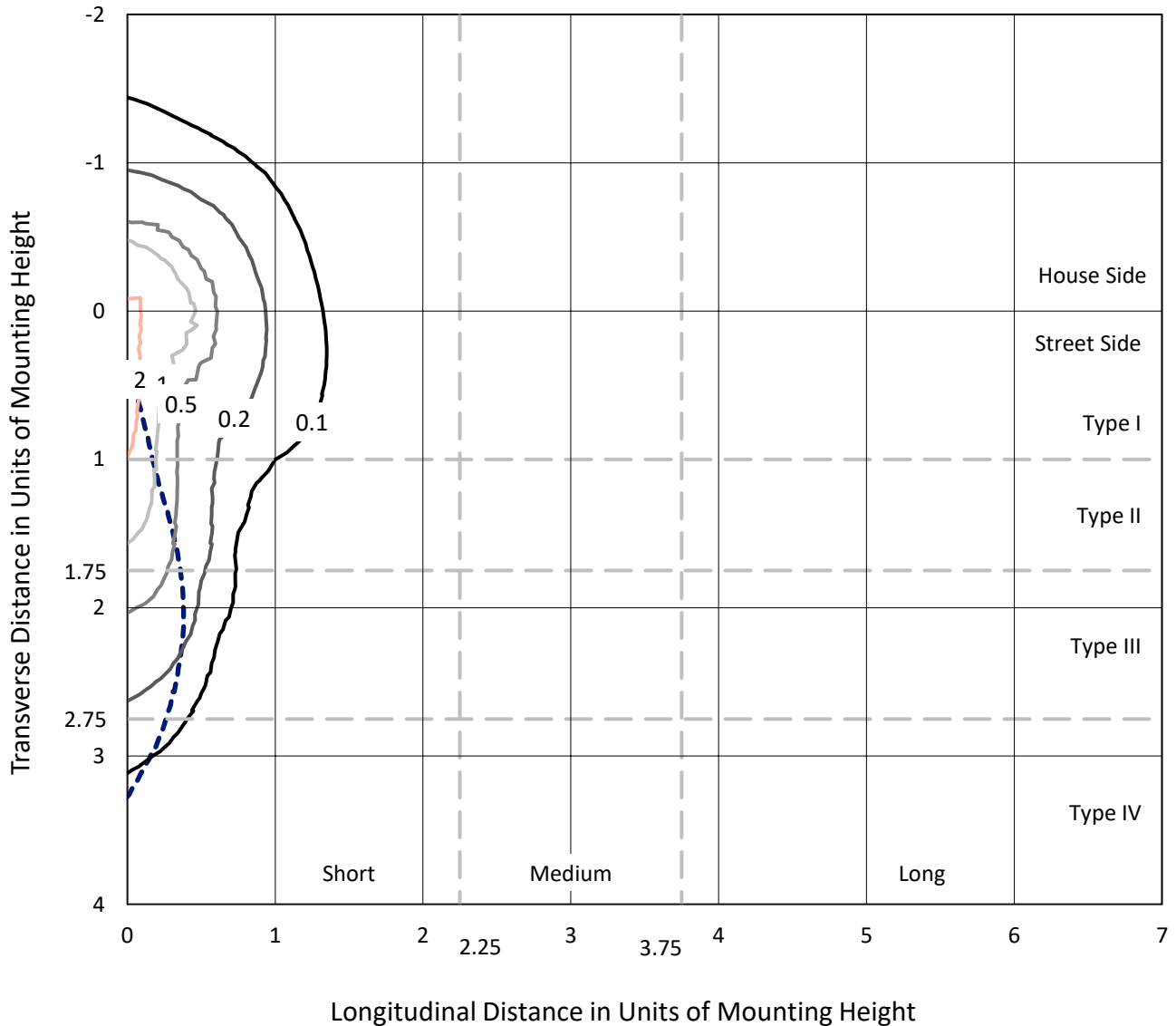
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

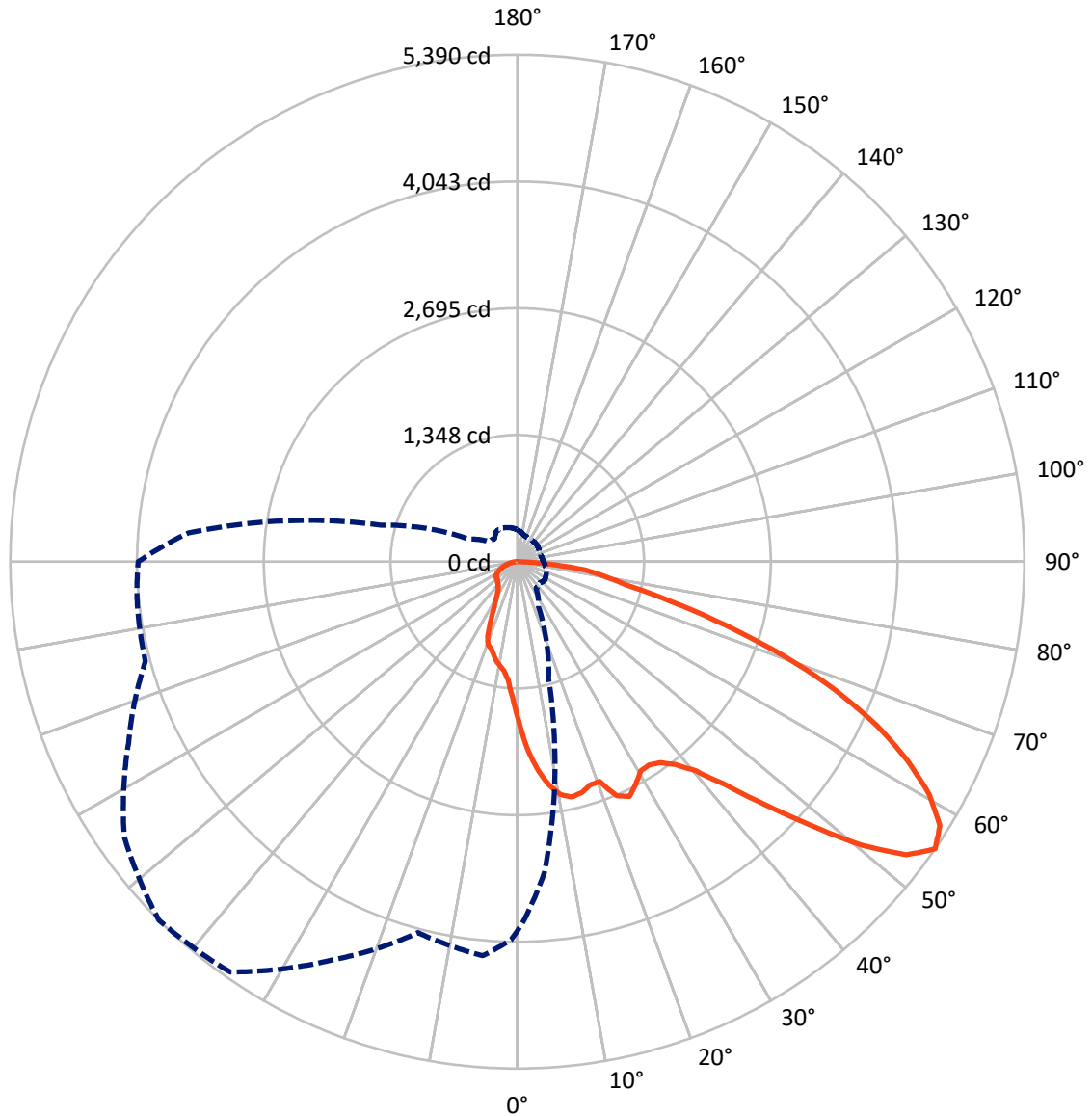
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1475.9	0.0	1475.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5271.1	0.0	5271.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	6747.0	0.0	6747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	2.1
10°-20°	380.7	5.6
20°-30°	657.7	9.7
30°-40°	764.4	11.3
40°-50°	1066.5	15.8
50°-60°	1447.1	21.4
60°-70°	1376.7	20.4
70°-80°	743.7	11.0
80°-90°	166.7	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°	6747.0	100.0
0°-180°	6747.0	100.0

Coefficient of Utilization



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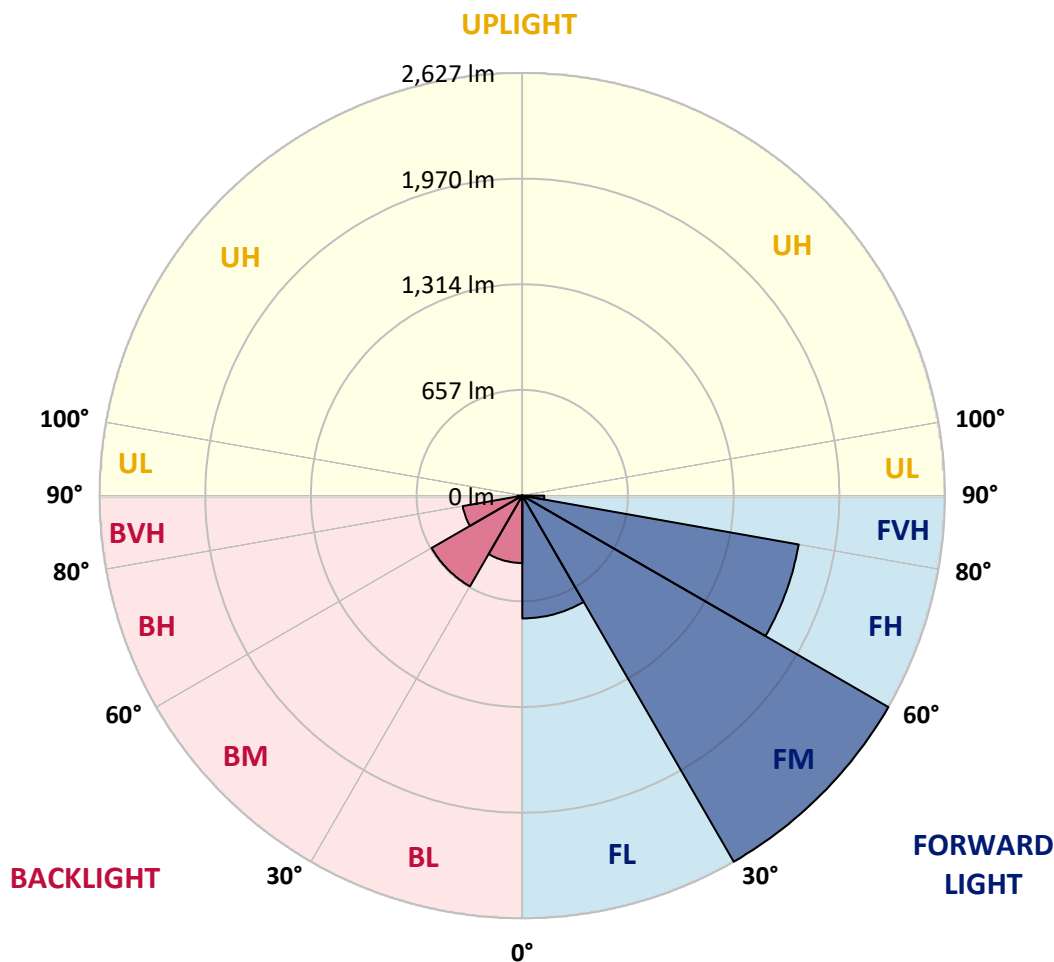
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.1	11.3			
FM	(30°-60°)	2627.1	38.9			
FH	(60°-80°)	1744.7	25.9			G1/1800
FVH	(80°-90°)	136.2	2.0			G2/225
BL	(0°-30°)	418.9	6.2	B1/500		
BM	(30°-60°)	650.8	9.6	B1/1000		
BH	(60°-80°)	375.8	5.6	B1/500		G1/500
BVH	(80°-90°)	30.5	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°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1881.1	1874.0	1853.9	1801.4	1748.4	1694.6	1653.2	1601.5	1547.7	1518.7	1481.8
5°	1906.9	1898.9	1851.7	1733.3	1626.0	1513.4	1423.5	1344.7	1312.7	1265.5	1227.6
7.5°	1846.4	1842.8	1772.0	1602.0	1455.1	1307.8	1205.8	1142.6	1085.2	1063.8	1068.3
10°	1791.2	1776.9	1688.3	1466.2	1294.9	1175.1	1102.1	1040.2	999.7	989.1	991.3
12.5°	1745.3	1726.2	1621.6	1375.0	1225.0	1129.3	1036.2	971.7	934.8	945.0	979.7
15°	1736.0	1710.1	1593.5	1343.8	1186.7	1063.4	961.5	887.1	859.5	881.8	937.4
17.5°	1796.5	1764.0	1641.6	1354.1	1150.2	996.2	871.1	786.1	762.9	798.5	871.1
20°	1991.0	1942.9	1791.6	1413.3	1146.6	962.8	818.6	733.1	742.9	810.6	886.2
22.5°	2350.7	2278.6	2054.2	1499.6	1165.3	954.3	807.9	763.4	817.2	874.7	924.5
25°	2421.9	2365.4	2101.4	1519.2	1161.3	948.5	838.2	860.4	920.5	949.0	931.6
27.5°	2462.0	2397.4	2098.3	1422.2	1038.5	860.4	801.2	838.2	853.3	825.7	778.5
30°	2555.4	2488.2	2151.3	1320.2	855.1	638.3	559.5	544.4	554.6	560.0	543.0
32.5°	2684.1	2617.7	2251.0	1253.5	739.3	527.9	450.5	429.1	424.2	418.4	411.7
35°	2850.5	2748.6	2348.9	1210.7	691.7	488.3	417.1	400.6	393.9	385.9	378.8
37.5°	3019.7	2912.9	2472.6	1165.8	660.1	460.7	394.8	387.3	375.7	367.2	357.0
40°	3199.5	3079.8	2585.3	1126.6	629.4	442.9	378.8	377.9	362.8	353.0	341.0
42.5°	3355.3	3232.0	2685.8	1102.6	605.8	424.2	369.0	371.7	356.1	341.4	325.8
45°	3479.1	3358.0	2778.9	1102.6	586.7	405.5	367.2	365.4	349.9	331.6	313.8
47.5°	3587.7	3462.6	2869.7	1130.6	574.6	389.9	357.4	360.5	344.5	321.4	304.0
50°	3671.8	3561.4	2992.1	1174.2	562.6	377.5	345.0	361.9	340.1	316.0	296.0
52.5°	3779.1	3680.2	3139.4	1233.9	552.4	363.7	333.8	361.9	339.6	316.5	294.7
55°	3927.7	3823.6	3317.0	1283.3	535.9	350.8	324.0	351.6	338.3	314.3	291.1
57.5°	4031.9	3954.0	3442.6	1316.2	512.3	334.3	315.1	341.9	332.5	305.8	280.4
58°	4036.8	3960.7	3460.8	1323.8	506.5	331.2	312.9	337.4	329.8	302.2	276.9
60°	3980.7	3915.3	3464.4	1313.1	473.6	315.6	301.3	319.2	315.6	281.3	257.7
62.5°	3776.8	3707.0	3320.6	1226.3	430.0	296.4	283.5	294.7	286.7	251.9	230.1
65°	3487.1	3358.4	3025.0	1090.1	398.8	276.0	259.5	260.4	251.9	227.0	207.9
67.5°	3101.1	2957.4	2561.2	918.7	375.2	253.3	231.0	228.8	218.6	202.5	187.0
70°	2626.2	2527.8	2081.4	747.4	349.0	228.3	199.0	197.6	191.4	179.4	165.6
72.5°	2128.6	2003.5	1680.8	598.2	316.9	204.3	169.1	171.8	163.8	155.3	142.9
75°	1570.8	1488.9	1299.3	479.8	273.7	178.0	141.1	142.0	138.4	129.5	119.7
77.5°	1034.5	1010.0	929.4	315.1	210.5	141.5	115.3	116.2	113.5	105.5	95.3
80°	696.2	679.7	629.8	203.0	140.7	102.4	89.0	89.9	89.5	81.0	67.2
82.5°	429.1	422.0	405.9	137.1	97.5	73.4	58.8	61.4	66.3	57.0	45.8
85°	202.5	203.0	245.3	74.8	57.4	47.2	32.0	34.3	34.3	34.3	25.8
87.5°	26.3	27.6	33.8	31.6	20.9	17.8	11.6	9.8	8.5	11.1	8.0
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°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1468.9	1460.0	1440.9	1436.4	1433.7	1441.3	1421.3	1426.6	1417.7	1442.6	1438.6
5°	1229.9	1230.8	1246.3	1256.6	1260.1	1256.6	1243.2	1220.1	1202.3	1195.1	1196.9
7.5°	1059.8	1075.4	1102.1	1131.9	1159.1	1167.1	1159.5	1115.5	1067.4	1037.1	1027.3
10°	1003.3	1024.2	1054.9	1078.5	1102.6	1121.7	1125.7	1091.4	1034.5	962.8	934.8
12.5°	1006.4	1034.9	1064.3	1071.8	1069.6	1077.2	1073.6	1067.8	1030.5	939.2	892.5
15°	977.0	1010.9	1031.3	1027.3	1020.2	1013.5	1004.2	989.5	976.1	912.0	860.4
17.5°	909.4	944.1	961.0	962.3	962.3	960.6	937.9	932.5	930.7	899.6	868.0
20°	921.8	941.0	933.4	921.0	924.5	936.5	923.2	920.5	930.7	944.5	938.8
22.5°	929.0	922.3	865.3	810.1	797.7	835.0	842.6	872.4	913.8	963.7	996.2
25°	884.9	831.0	729.1	666.8	631.6	666.3	711.7	766.9	828.8	892.9	930.7
27.5°	739.8	698.8	625.8	569.8	539.0	544.4	583.1	633.4	690.8	734.0	761.6
30°	557.3	539.0	501.2	482.1	463.4	458.9	475.4	494.5	519.9	525.2	532.4
32.5°	410.4	407.7	410.0	403.7	400.2	399.7	394.8	399.3	401.9	405.1	398.8
35°	371.2	367.7	361.4	359.7	357.4	358.3	356.1	353.9	355.7	358.3	360.1
37.5°	351.2	345.9	337.0	333.8	333.8	335.2	331.6	330.7	333.8	342.3	346.7
40°	335.6	329.4	319.2	315.1	317.8	321.4	316.5	314.7	322.3	331.2	338.3
42.5°	320.9	316.0	306.2	301.8	304.0	310.7	303.6	302.2	312.0	321.8	330.3
45°	308.5	303.6	294.7	292.4	293.3	299.6	294.7	294.7	304.0	314.7	322.3
47.5°	298.7	292.4	286.7	284.9	285.8	289.3	288.4	288.4	297.3	308.5	316.0
50°	288.9	283.5	276.0	276.9	279.1	284.0	283.5	284.9	293.8	307.6	315.6
52.5°	284.4	276.4	268.0	268.9	275.5	281.3	279.5	280.9	291.1	316.9	328.5
55°	279.5	268.9	259.1	260.4	268.0	276.4	274.2	276.0	288.0	323.2	339.2
57.5°	270.2	257.7	247.0	247.9	259.1	268.0	264.4	266.6	280.9	316.5	333.4
58°	266.2	255.5	245.3	245.7	256.4	266.2	262.2	264.0	278.6	314.7	330.7
60°	249.3	243.0	234.1	234.6	244.8	253.3	251.0	252.8	267.1	301.8	313.8
62.5°	226.1	222.6	220.3	220.3	226.6	234.6	236.8	239.0	251.9	272.9	283.5
65°	201.2	201.2	201.6	201.6	205.6	215.9	217.2	223.0	235.0	245.3	253.3
67.5°	184.3	183.4	184.3	182.1	183.8	190.1	196.7	202.1	214.5	221.7	224.3
70°	162.5	162.0	162.5	159.4	161.6	166.9	171.4	180.3	193.2	198.5	199.9
72.5°	141.1	141.1	142.0	139.8	139.8	145.6	148.7	158.5	170.5	173.6	174.0
75°	118.8	120.2	120.2	117.1	118.0	121.5	125.5	133.5	144.7	146.9	146.9
77.5°	94.4	99.3	99.3	96.1	97.5	97.9	103.3	107.3	115.7	116.6	113.1
80°	68.5	73.4	77.5	74.8	77.0	74.3	77.5	80.1	88.6	84.6	78.8
82.5°	49.0	52.5	55.6	56.1	53.9	49.0	53.0	53.4	57.4	52.1	49.0
85°	27.2	30.3	34.3	32.5	28.9	25.8	27.2	28.0	27.6	26.3	24.5
87.5°	7.1	7.6	8.5	6.2	5.8	4.9	6.7	6.7	7.6	8.0	7.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1441.7	1461.3	1503.6	1535.7	1574.8	1622.5	1678.5	1735.1	1796.1	1815.2	1841.9
5°	1192.9	1241.9	1262.4	1320.7	1378.5	1465.3	1557.9	1665.2	1782.7	1839.2	1893.5
7.5°	1019.3	1045.6	1067.0	1109.7	1179.1	1284.6	1400.8	1534.8	1701.2	1783.6	1863.3
10°	925.8	928.5	954.8	1007.7	1068.3	1161.3	1271.3	1421.3	1606.9	1707.0	1800.5
12.5°	864.0	852.4	880.9	936.1	1004.6	1090.5	1191.6	1334.5	1538.8	1641.6	1754.7
15°	809.7	791.4	812.8	869.3	937.0	1038.0	1146.6	1298.0	1512.1	1631.8	1757.3
17.5°	811.0	760.7	768.3	815.9	883.1	985.9	1117.7	1296.6	1552.6	1690.6	1839.2
20°	911.2	830.6	796.3	805.2	870.2	982.4	1131.0	1358.9	1685.7	1886.9	2045.8
22.5°	1009.5	961.0	905.8	887.6	923.2	1040.7	1216.1	1506.3	1975.0	2278.1	2565.2
25°	975.3	1016.7	1002.9	977.0	985.0	1082.5	1273.9	1627.4	2199.8	2541.2	2810.9
27.5°	780.3	855.5	870.7	870.2	873.3	953.4	1145.7	1545.9	2227.8	2591.5	2849.2
30°	548.4	555.1	563.1	578.7	592.9	664.6	896.5	1357.2	2215.4	2614.2	2872.4
32.5°	395.7	404.6	415.7	437.1	470.9	562.2	784.3	1297.1	2281.2	2708.1	2940.0
35°	361.9	372.1	382.8	407.3	439.3	523.9	739.8	1272.2	2389.4	2860.3	3061.5
37.5°	351.2	362.8	372.1	389.9	415.7	496.3	699.3	1255.2	2500.2	3021.5	3224.4
40°	343.6	357.0	364.6	378.8	396.6	470.9	663.2	1241.9	2607.5	3168.8	3355.3
42.5°	337.0	350.8	360.5	370.8	385.5	448.2	631.2	1228.5	2700.5	3311.7	3485.7
45°	328.9	346.3	358.8	366.8	379.7	429.1	606.7	1217.8	2806.5	3438.5	3617.5
47.5°	322.3	341.4	357.0	366.3	371.2	415.7	587.1	1232.5	2933.8	3571.2	3739.9
50°	322.7	341.0	360.5	375.2	362.3	404.6	575.1	1290.8	3099.4	3728.8	3836.5
52.5°	337.0	359.2	374.8	378.4	349.9	391.3	568.9	1392.8	3295.2	3868.1	3934.0
55°	353.0	376.1	393.0	390.8	343.2	374.3	567.5	1501.4	3509.8	4030.6	4060.8
57.5°	347.2	381.0	406.8	395.3	343.6	357.9	561.7	1589.1	3689.1	4152.1	4186.3
58°	345.4	379.2	408.6	394.4	342.3	353.0	560.4	1596.6	3714.1	4160.5	4204.2
60°	328.1	363.7	407.3	387.7	334.7	339.6	545.7	1621.1	3707.4	4116.9	4214.8
62.5°	296.4	325.8	376.6	355.2	311.6	321.8	512.8	1590.9	3526.7	3906.8	4058.6
65°	260.8	282.7	316.5	312.5	278.6	303.6	467.8	1471.1	3164.8	3565.8	3725.6
67.5°	234.1	251.9	273.3	267.5	250.6	279.1	419.3	1268.6	2758.8	3156.3	3357.5
70°	207.0	220.8	231.5	227.5	222.1	255.1	376.1	1029.6	2369.8	2767.3	2962.3
72.5°	179.4	192.3	201.2	195.4	192.3	229.7	341.0	799.0	1871.7	2283.0	2533.6
75°	150.0	162.9	169.1	162.5	160.7	202.5	288.9	596.9	1404.4	1760.0	1976.3
77.5°	116.2	130.0	138.0	135.8	136.7	166.5	233.2	408.6	1004.2	1199.6	1427.5
80°	81.5	96.6	101.9	99.7	105.9	126.9	164.7	259.5	692.6	778.5	939.2
82.5°	50.3	64.5	65.4	67.7	72.1	93.9	124.2	158.0	434.9	449.6	566.2
85°	25.4	30.7	32.9	36.5	40.5	57.4	70.8	97.9	280.0	211.9	316.5
87.5°	8.5	8.9	10.7	13.4	16.5	23.6	30.3	40.1	69.4	38.3	97.9
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°	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1895.8	1933.6	1961.2	1986.6	1962.1	1959.9	1935.8	1897.1	1881.1	1881.1
5°	2007.5	2096.1	2167.7	2213.6	2194.0	2146.8	2068.9	1969.7	1916.2	1906.9
7.5°	2038.2	2213.1	2346.2	2393.4	2360.5	2256.3	2107.2	1939.8	1863.3	1846.4
10°	2019.5	2247.0	2442.4	2517.1	2471.3	2313.7	2110.3	1905.1	1810.7	1791.2
12.5°	1999.9	2251.4	2460.2	2568.3	2538.5	2360.0	2133.0	1882.4	1773.4	1745.3
15°	2014.2	2253.2	2438.4	2550.1	2569.2	2415.7	2170.4	1898.9	1765.8	1736.0
17.5°	2104.1	2287.0	2407.2	2497.6	2564.8	2491.3	2276.8	1977.7	1833.4	1796.5
20°	2291.9	2368.0	2425.0	2494.9	2603.1	2645.8	2494.4	2194.0	2023.5	1991.0
22.5°	2835.9	2822.1	2705.4	2704.1	2860.8	3032.2	3021.9	2633.8	2377.4	2350.7
25°	3039.7	2975.6	2806.9	2766.0	2835.0	3099.4	3061.1	2723.7	2486.9	2421.9
27.5°	2960.0	2801.1	2690.3	2681.0	2658.3	2908.0	3000.1	2760.2	2525.2	2462.0
30°	2955.1	2721.5	2563.0	2581.7	2603.5	2842.1	3033.9	2874.6	2623.1	2555.4
32.5°	2967.2	2732.6	2572.3	2575.9	2640.9	2851.9	3071.3	2999.2	2751.7	2684.1
35°	3015.7	2795.8	2632.0	2623.5	2725.0	2916.0	3135.0	3195.1	2927.5	2850.5
37.5°	3094.0	2921.8	2741.0	2738.8	2886.2	3031.7	3214.2	3392.7	3102.5	3019.7
40°	3209.3	3069.1	2935.1	2923.1	3105.2	3220.0	3317.0	3603.2	3305.9	3199.5
42.5°	3348.6	3245.8	3191.1	3238.7	3413.6	3431.4	3477.3	3797.8	3479.1	3355.3
45°	3477.7	3472.8	3548.9	3675.3	3777.3	3670.5	3644.6	3928.2	3613.5	3479.1
47.5°	3631.3	3763.9	3993.6	4178.8	4285.6	3948.7	3787.5	4013.2	3711.4	3587.7
50°	3787.1	4112.5	4479.2	4737.4	4760.1	4250.9	3885.9	4093.3	3800.4	3671.8
52.5°	3950.9	4390.7	4879.0	5179.0	5134.9	4514.0	3981.1	4147.6	3892.1	3779.1
55°	4093.3	4561.1	5102.4	5390.4	5325.9	4674.2	4084.0	4206.4	4023.0	3927.7
57.5°	4173.0	4575.4	5046.8	5298.3	5228.4	4643.0	4131.2	4250.0	4106.7	4031.9
58°	4184.6	4556.2	4997.4	5244.8	5173.6	4616.8	4130.7	4248.2	4112.0	4036.8
60°	4174.3	4432.1	4813.5	5033.9	4959.1	4452.1	4113.8	4214.8	4044.4	3980.7
62.5°	4079.5	4216.6	4496.1	4656.4	4635.0	4194.8	4044.4	4088.9	3838.3	3776.8
65°	3954.9	3922.8	4089.8	4203.3	4219.3	4002.1	3975.4	3816.5	3573.9	3487.1
67.5°	3803.5	3589.9	3589.4	3654.0	3680.7	3705.6	3831.6	3520.4	3192.8	3101.1
70°	3546.7	3076.7	2935.1	3011.2	2989.0	3199.5	3574.8	3104.7	2733.5	2626.2
72.5°	3075.8	2441.5	2214.9	2312.8	2256.8	2509.1	3127.9	2555.0	2260.3	2128.6
75°	2493.1	1826.3	1592.6	1682.6	1647.8	1903.3	2602.6	1855.7	1621.1	1570.8
77.5°	1935.8	1323.3	1187.6	1175.1	1200.9	1416.4	1909.1	1253.0	1068.7	1034.5
80°	1243.7	947.2	955.2	939.2	952.6	892.9	1159.1	799.4	723.8	696.2
82.5°	818.6	660.1	787.0	726.4	689.9	600.5	760.3	523.5	444.2	429.1
85°	557.7	486.1	442.4	338.3	398.4	462.5	570.2	281.8	223.4	202.5
87.5°	251.9	169.1	124.2	76.6	121.1	139.8	276.9	32.9	25.4	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)