

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: P451191

Luminaire Tested: **GALN-SA2A-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451191
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-SA2A-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 7927 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

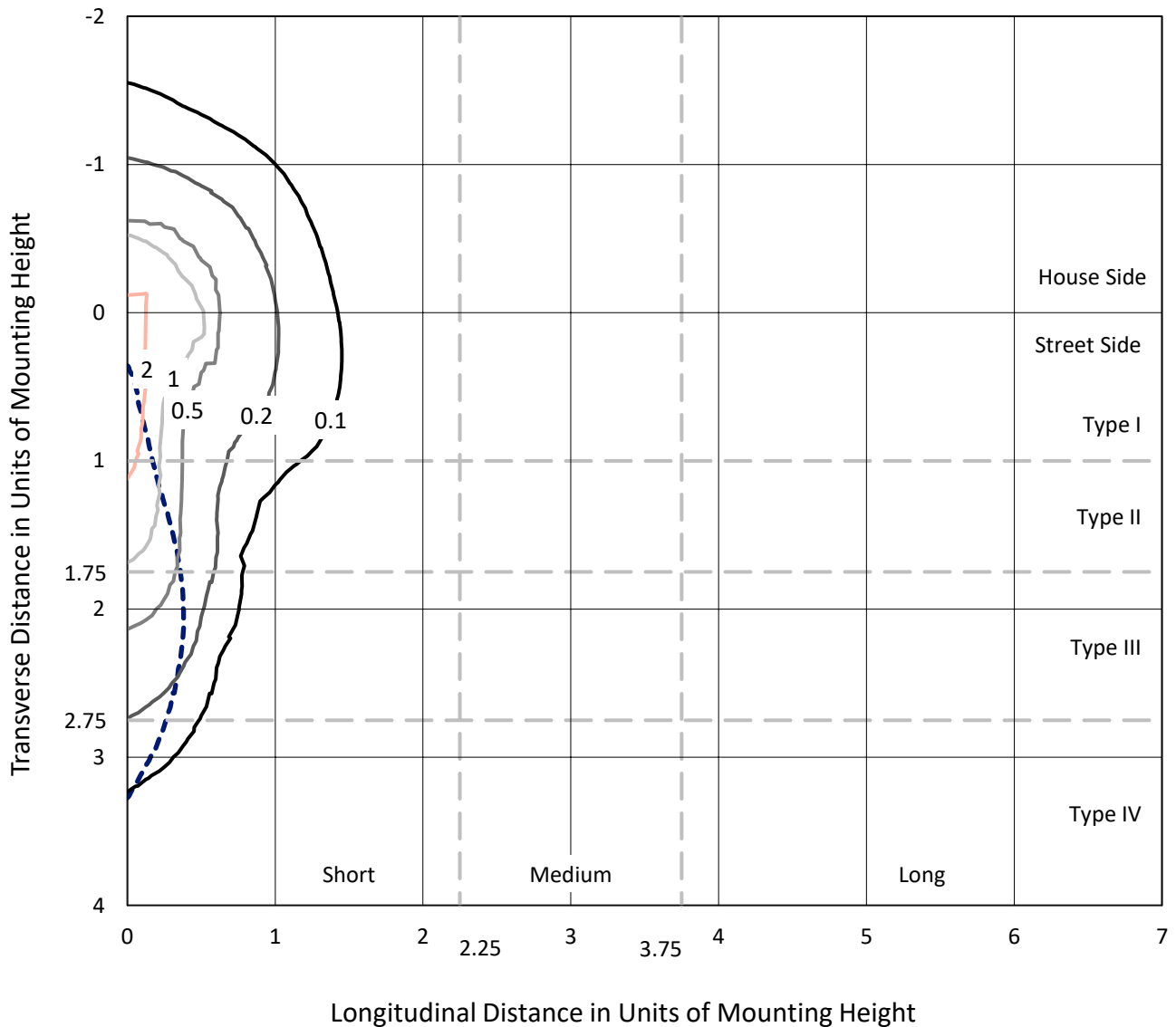
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

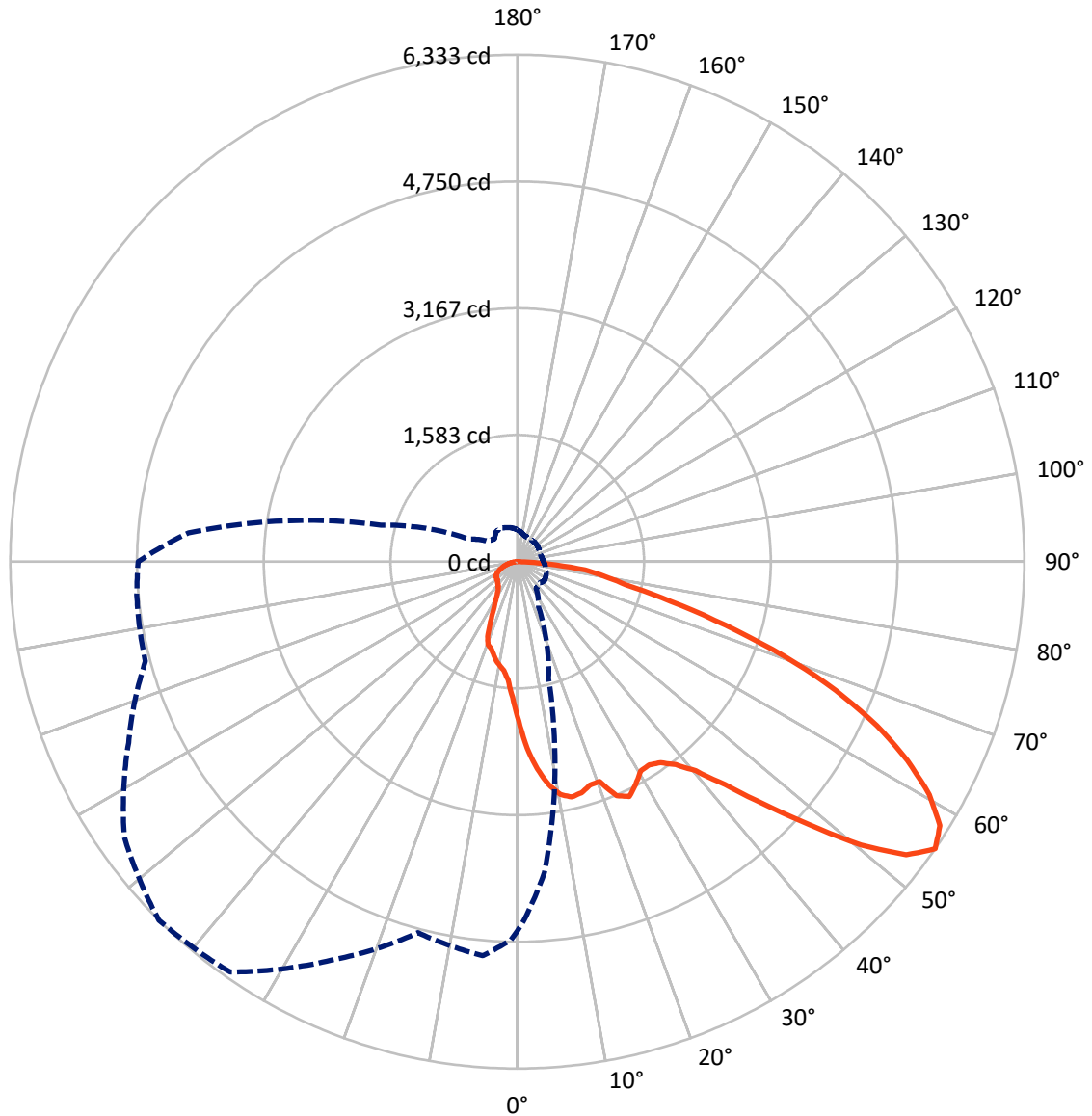
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1734.0	0.0	1734.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6193.0	0.0	6193.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	7927.0	0.0	7927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	2.1
10°-20°	447.3	5.6
20°-30°	772.8	9.7
30°-40°	898.1	11.3
40°-50°	1253.0	15.8
50°-60°	1700.2	21.4
60°-70°	1617.5	20.4
70°-80°	873.8	11.0
80°-90°	195.8	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°	7927.0	100.0
0°-180°	7927.0	100.0

Coefficient of Utilization



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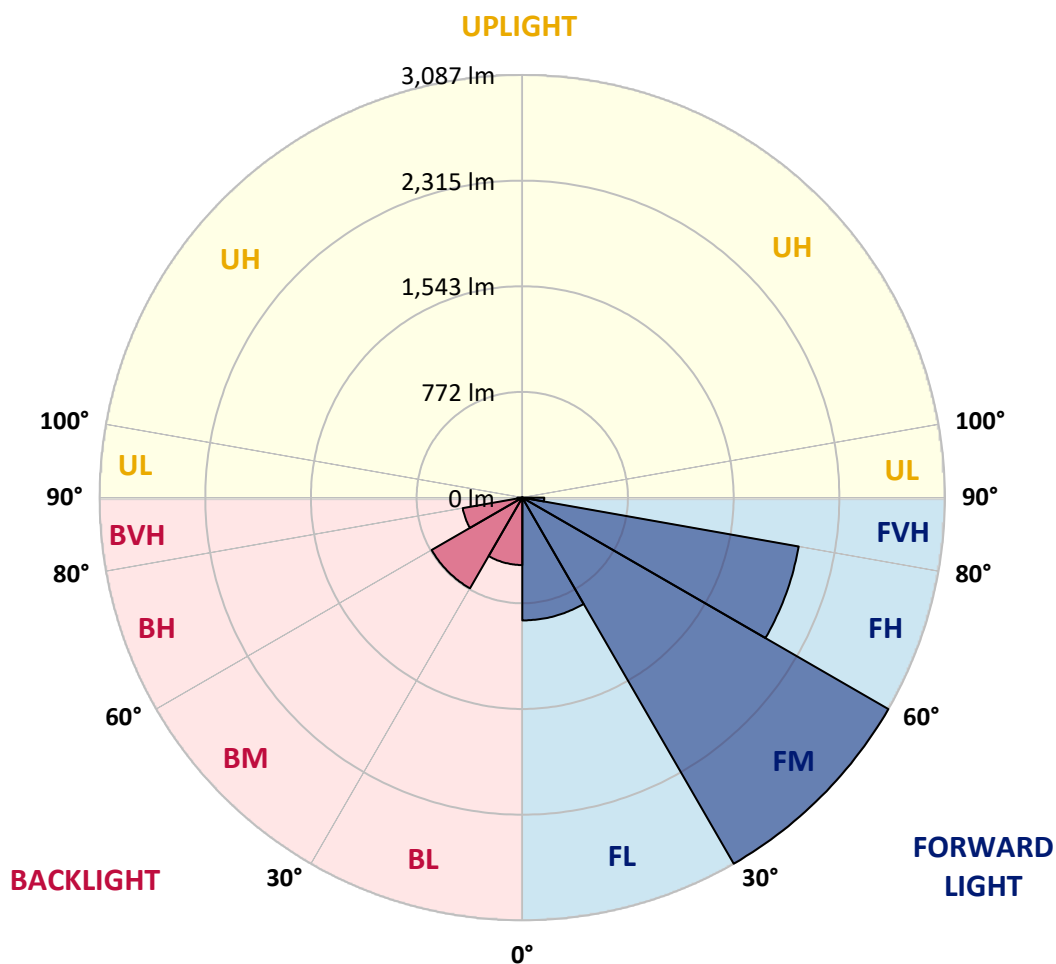
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	896.6	11.3			
FM	(30°-60°)	3086.6	38.9			
FH	(60°-80°)	2049.8	25.9			G2/5000
FVH	(80°-90°)	160.0	2.0			G2/225
BL	(0°-30°)	492.1	6.2	B1/500		
BM	(30°-60°)	764.6	9.6	B1/1000		
BH	(60°-80°)	441.5	5.6	B1/500		G1/500
BVH	(80°-90°)	35.8	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°	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4
2.5°	2210.1	2201.7	2178.2	2116.4	2054.2	1990.9	1942.3	1881.6	1818.4	1784.4	1741.0
5°	2240.4	2231.0	2175.5	2036.4	1910.4	1778.1	1672.4	1579.9	1542.2	1486.8	1442.3
7.5°	2169.3	2165.1	2081.9	1882.2	1709.6	1536.5	1416.7	1342.5	1275.0	1249.9	1255.1
10°	2104.4	2087.7	1983.6	1722.7	1521.3	1380.6	1294.9	1222.2	1174.6	1162.0	1164.6
12.5°	2050.6	2028.1	1905.2	1615.4	1439.2	1326.8	1217.5	1141.6	1098.2	1110.3	1151.1
15°	2039.6	2009.2	1872.2	1578.8	1394.2	1249.4	1129.6	1042.3	1009.8	1036.0	1101.4
17.5°	2110.7	2072.5	1928.7	1590.9	1351.3	1170.4	1023.4	923.6	896.4	938.2	1023.4
20°	2339.2	2282.8	2104.9	1660.4	1347.2	1131.2	961.7	861.3	872.8	952.3	1041.2
22.5°	2761.8	2677.1	2413.5	1761.9	1369.1	1121.2	949.2	896.9	960.2	1027.6	1086.2
25°	2845.5	2779.0	2468.9	1784.9	1364.4	1114.4	984.7	1010.9	1081.5	1115.0	1094.6
27.5°	2892.5	2816.7	2465.3	1670.9	1220.1	1010.9	941.3	984.7	1002.5	970.1	914.7
30°	3002.4	2923.4	2527.5	1551.1	1004.6	749.9	657.4	639.6	651.6	657.9	638.0
32.5°	3153.5	3075.6	2644.6	1472.7	868.6	620.2	529.2	504.1	498.4	491.6	483.7
35°	3349.1	3229.3	2759.7	1422.5	812.7	573.7	490.0	470.7	462.8	453.4	445.0
37.5°	3547.8	3422.3	2905.1	1369.7	775.6	541.3	463.9	455.0	441.4	431.4	419.4
40°	3759.1	3618.4	3037.4	1323.6	739.5	520.4	445.0	444.0	426.2	414.7	400.6
42.5°	3942.1	3797.3	3155.6	1295.4	711.8	498.4	433.5	436.7	418.4	401.1	382.8
45°	4087.5	3945.3	3264.9	1295.4	689.3	476.4	431.4	429.4	411.1	389.6	368.7
47.5°	4215.1	4068.2	3371.6	1328.3	675.2	458.1	419.9	423.6	404.8	377.6	357.2
50°	4314.0	4184.3	3515.4	1379.6	661.0	443.5	405.3	425.2	399.5	371.3	347.8
52.5°	4440.0	4323.9	3688.5	1449.7	649.0	427.3	392.2	425.2	399.0	371.8	346.2
55°	4614.7	4492.3	3897.2	1507.7	629.7	412.1	380.7	413.1	397.5	369.2	342.0
57.5°	4737.0	4645.5	4044.6	1546.4	601.9	392.7	370.3	401.6	390.7	359.3	329.5
58°	4742.8	4653.4	4066.1	1555.3	595.1	389.1	367.6	396.4	387.5	355.1	325.3
60°	4676.9	4600.0	4070.3	1542.8	556.4	370.8	354.0	375.0	370.8	330.5	302.8
62.5°	4437.4	4355.3	3901.3	1440.8	505.2	348.3	333.1	346.2	336.8	296.0	270.4
65°	4096.9	3945.8	3554.1	1280.7	468.6	324.2	304.9	305.9	296.0	266.7	244.2
67.5°	3643.5	3474.6	3009.2	1079.4	440.9	297.6	271.4	268.8	256.8	238.0	219.6
70°	3085.5	2969.9	2445.4	878.1	410.0	268.3	233.8	232.2	224.9	210.8	194.5
72.5°	2500.8	2353.9	1974.7	702.9	372.4	240.0	198.7	201.9	192.5	182.5	167.9
75°	1845.6	1749.3	1526.5	563.8	321.6	209.2	165.8	166.8	162.6	152.2	140.7
77.5°	1215.4	1186.6	1092.0	370.3	247.4	166.3	135.4	136.5	133.4	123.9	111.9
80°	817.9	798.6	740.0	238.5	165.3	120.3	104.6	105.6	105.1	95.2	79.0
82.5°	504.1	495.8	476.9	161.1	114.5	86.3	69.0	72.2	77.9	66.9	53.9
85°	238.0	238.5	288.2	87.9	67.5	55.4	37.7	40.3	40.3	40.3	30.3
87.5°	30.9	32.4	39.7	37.1	24.6	20.9	13.6	11.5	9.9	13.1	9.4
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°	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4
2.5°	1725.8	1715.3	1692.8	1687.6	1684.5	1693.4	1669.8	1676.1	1665.7	1694.9	1690.2
5°	1445.0	1446.0	1464.3	1476.3	1480.5	1476.3	1460.6	1433.5	1412.5	1404.2	1406.3
7.5°	1245.2	1263.5	1294.9	1329.9	1361.8	1371.2	1362.3	1310.6	1254.1	1218.5	1207.0
10°	1178.8	1203.3	1239.4	1267.1	1295.4	1317.9	1322.6	1282.3	1215.4	1131.2	1098.2
12.5°	1182.4	1215.9	1250.4	1259.3	1256.7	1265.6	1261.4	1254.6	1210.7	1103.5	1048.5
15°	1147.9	1187.7	1211.7	1207.0	1198.6	1190.8	1179.8	1162.6	1146.9	1071.6	1010.9
17.5°	1068.4	1109.2	1129.1	1130.7	1130.7	1128.6	1101.9	1095.6	1093.5	1056.9	1019.8
20°	1083.1	1105.6	1096.7	1082.0	1086.2	1100.3	1084.6	1081.5	1093.5	1109.7	1102.9
22.5°	1091.4	1083.6	1016.6	951.8	937.2	981.1	990.0	1025.0	1073.7	1132.2	1170.4
25°	1039.7	976.4	856.6	783.4	742.1	782.9	836.2	901.1	973.8	1049.1	1093.5
27.5°	869.2	821.1	735.3	669.4	633.3	639.6	685.1	744.2	811.6	862.4	894.8
30°	654.8	633.3	588.9	566.4	544.4	539.2	558.5	581.0	610.8	617.1	625.5
32.5°	482.2	479.0	481.7	474.3	470.1	469.6	463.9	469.1	472.2	475.9	468.6
35°	436.2	432.0	424.6	422.6	419.9	421.0	418.4	415.8	417.9	421.0	423.1
37.5°	412.6	406.3	395.9	392.2	392.2	393.8	389.6	388.6	392.2	402.2	407.4
40°	394.3	387.0	375.0	370.3	373.4	377.6	371.8	369.7	378.6	389.1	397.5
42.5°	377.1	371.3	359.8	354.6	357.2	365.0	356.7	355.1	366.6	378.1	388.0
45°	362.4	356.7	346.2	343.6	344.6	352.0	346.2	346.2	357.2	369.7	378.6
47.5°	350.9	343.6	336.8	334.7	335.7	339.9	338.9	338.9	349.3	362.4	371.3
50°	339.4	333.1	324.2	325.3	327.9	333.7	333.1	334.7	345.2	361.4	370.8
52.5°	334.2	324.8	314.8	315.9	323.7	330.5	328.4	330.0	342.0	372.4	385.9
55°	328.4	315.9	304.4	305.9	314.8	324.8	322.1	324.2	338.4	379.7	398.5
57.5°	317.4	302.8	290.2	291.3	304.4	314.8	310.6	313.3	330.0	371.8	391.7
58°	312.7	300.2	288.2	288.7	301.2	312.7	308.0	310.1	327.4	369.7	388.6
60°	292.9	285.5	275.1	275.6	287.6	297.6	295.0	297.0	313.8	354.6	368.7
62.5°	265.7	261.5	258.9	258.9	266.2	275.6	278.2	280.8	296.0	320.6	333.1
65°	236.4	236.4	236.9	236.9	241.6	253.6	255.2	262.0	276.1	288.2	297.6
67.5°	216.5	215.5	216.5	213.9	216.0	223.3	231.2	237.4	252.1	260.4	263.6
70°	190.9	190.4	190.9	187.2	189.8	196.1	201.3	211.8	227.0	233.2	234.8
72.5°	165.8	165.8	166.8	164.2	164.2	171.0	174.7	186.2	200.3	204.0	204.5
75°	139.6	141.2	141.2	137.5	138.6	142.8	147.5	156.9	170.0	172.6	172.6
77.5°	110.9	116.6	116.6	113.0	114.5	115.1	121.3	126.0	136.0	137.0	132.8
80°	80.5	86.3	91.0	87.9	90.5	87.3	91.0	94.1	104.1	99.4	92.6
82.5°	57.5	61.7	65.4	65.9	63.3	57.5	62.2	62.8	67.5	61.2	57.5
85°	31.9	35.6	40.3	38.2	34.0	30.3	31.9	32.9	32.4	30.9	28.8
87.5°	8.4	8.9	9.9	7.3	6.8	5.8	7.8	7.8	8.9	9.4	8.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4
2.5°	1693.9	1716.9	1766.6	1804.2	1850.3	1906.2	1972.1	2038.5	2110.2	2132.7	2164.0
5°	1401.6	1459.1	1483.1	1551.6	1619.6	1721.6	1830.4	1956.4	2094.5	2160.9	2224.7
7.5°	1197.6	1228.5	1253.6	1303.8	1385.3	1509.3	1645.8	1803.2	1998.8	2095.5	2189.1
10°	1087.8	1090.9	1121.8	1184.0	1255.1	1364.4	1493.6	1669.8	1887.9	2005.6	2115.4
12.5°	1015.1	1001.5	1035.0	1099.8	1180.3	1281.3	1400.0	1567.9	1807.9	1928.7	2061.5
15°	951.3	929.8	954.9	1021.4	1100.8	1219.6	1347.2	1525.0	1776.5	1917.2	2064.7
17.5°	952.8	893.8	902.6	958.6	1037.6	1158.4	1313.2	1523.4	1824.1	1986.2	2160.9
20°	1070.5	975.9	935.6	946.0	1022.4	1154.2	1328.9	1596.6	1980.5	2216.9	2403.6
22.5°	1186.1	1129.1	1064.2	1042.8	1084.6	1222.7	1428.7	1769.7	2320.4	2676.5	3013.9
25°	1145.8	1194.5	1178.2	1147.9	1157.3	1271.9	1496.7	1912.0	2584.5	2985.6	3302.5
27.5°	916.8	1005.1	1022.9	1022.4	1026.1	1120.2	1346.1	1816.3	2617.5	3044.7	3347.5
30°	644.3	652.1	661.6	679.9	696.6	780.8	1053.3	1594.5	2602.8	3071.4	3374.7
32.5°	464.9	475.4	488.5	513.6	553.3	660.5	921.5	1523.9	2680.2	3181.7	3454.2
35°	425.2	437.2	449.8	478.5	516.2	615.5	869.2	1494.6	2807.3	3360.6	3597.0
37.5°	412.6	426.2	437.2	458.1	488.5	583.1	821.6	1474.8	2937.5	3549.9	3788.4
40°	403.7	419.4	428.3	445.0	466.0	553.3	779.2	1459.1	3063.5	3723.0	3942.1
42.5°	395.9	412.1	423.6	435.6	452.9	526.6	741.6	1443.4	3172.8	3890.9	4095.4
45°	386.5	406.9	421.5	430.9	446.1	504.1	712.8	1430.8	3297.3	4039.9	4250.2
47.5°	378.6	401.1	419.4	430.4	436.2	488.5	689.8	1448.1	3446.9	4195.8	4394.0
50°	379.2	400.6	423.6	440.9	425.7	475.4	675.7	1516.6	3641.4	4380.9	4507.5
52.5°	395.9	422.0	440.3	444.5	411.1	459.7	668.4	1636.4	3871.5	4544.6	4622.0
55°	414.7	441.9	461.8	459.2	403.2	439.8	666.8	1764.0	4123.6	4735.5	4771.0
57.5°	407.9	447.7	478.0	464.4	403.7	420.5	660.0	1867.0	4334.4	4878.2	4918.5
58°	405.8	445.6	480.1	463.3	402.2	414.7	658.4	1875.9	4363.6	4888.2	4939.4
60°	385.4	427.3	478.5	455.5	393.3	399.0	641.2	1904.6	4355.8	4836.9	4952.0
62.5°	348.3	382.8	442.4	417.3	366.1	378.1	602.5	1869.1	4143.5	4590.1	4768.4
65°	306.5	332.1	371.8	367.1	327.4	356.7	549.6	1728.4	3718.3	4189.5	4377.2
67.5°	275.1	296.0	321.1	314.3	294.4	327.9	492.6	1490.5	3241.4	3708.4	3944.7
70°	243.2	259.4	271.9	267.2	261.0	299.7	441.9	1209.6	2784.3	3251.3	3480.3
72.5°	210.8	225.9	236.4	229.6	225.9	269.9	400.6	938.7	2199.1	2682.3	2976.7
75°	176.2	191.4	198.7	190.9	188.8	238.0	339.4	701.3	1650.0	2067.8	2322.0
77.5°	136.5	152.7	162.1	159.5	160.6	195.6	274.0	480.1	1179.8	1409.4	1677.2
80°	95.7	113.5	119.8	117.1	124.5	149.0	193.5	304.9	813.7	914.7	1103.5
82.5°	59.1	75.8	76.9	79.5	84.7	110.3	145.9	185.7	510.9	528.2	665.2
85°	29.8	36.1	38.7	42.9	47.6	67.5	83.2	115.1	328.9	248.9	371.8
87.5°	9.9	10.5	12.6	15.7	19.3	27.7	35.6	47.1	81.6	45.0	115.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4
2.5°	2227.3	2271.8	2304.2	2334.0	2305.2	2302.6	2274.4	2228.9	2210.1	2210.1
5°	2358.6	2462.7	2546.9	2600.7	2577.7	2522.3	2430.8	2314.1	2251.4	2240.4
7.5°	2394.7	2600.2	2756.6	2812.0	2773.3	2650.9	2475.7	2279.1	2189.1	2169.3
10°	2372.7	2639.9	2869.5	2957.4	2903.5	2718.4	2479.4	2238.3	2127.4	2104.4
12.5°	2349.7	2645.2	2890.4	3017.5	2982.5	2772.8	2506.1	2211.6	2083.5	2050.6
15°	2366.4	2647.3	2864.8	2996.1	3018.6	2838.1	2550.0	2231.0	2074.6	2039.6
17.5°	2472.1	2687.0	2828.2	2934.4	3013.3	2927.0	2675.0	2323.5	2154.1	2110.7
20°	2692.8	2782.2	2849.1	2931.2	3058.3	3108.5	2930.7	2577.7	2377.4	2339.2
22.5°	3331.8	3315.6	3178.6	3177.0	3361.1	3562.5	3550.4	3094.4	2793.2	2761.8
25°	3571.3	3496.0	3297.8	3249.7	3330.8	3641.4	3596.4	3200.0	2921.8	2845.5
27.5°	3477.7	3291.0	3160.8	3149.8	3123.2	3416.5	3524.8	3242.9	2966.8	2892.5
30°	3472.0	3197.4	3011.2	3033.2	3058.8	3339.1	3564.5	3377.3	3081.8	3002.4
32.5°	3486.1	3210.5	3022.2	3026.4	3102.8	3350.7	3608.5	3523.8	3233.0	3153.5
35°	3543.1	3284.8	3092.3	3082.4	3201.6	3426.0	3683.3	3753.9	3439.6	3349.1
37.5°	3635.1	3432.8	3220.4	3217.8	3390.9	3561.9	3776.3	3986.1	3645.1	3547.8
40°	3770.6	3605.9	3448.4	3434.3	3648.2	3783.1	3897.2	4233.4	3884.1	3759.1
42.5°	3934.3	3813.5	3749.2	3805.1	4010.6	4031.6	4085.4	4462.0	4087.5	3942.1
45°	4085.9	4080.2	4169.6	4318.1	4437.9	4312.4	4282.1	4615.2	4245.4	4087.5
47.5°	4266.4	4422.2	4692.1	4909.6	5035.1	4639.2	4449.9	4715.1	4360.5	4215.1
50°	4449.4	4831.7	5262.6	5565.9	5592.6	4994.3	4565.5	4809.2	4465.1	4314.0
52.5°	4641.9	5158.5	5732.2	6084.7	6032.9	5303.4	4677.4	4873.0	4572.8	4440.0
55°	4809.2	5358.8	5994.8	6333.1	6257.3	5491.7	4798.2	4942.0	4726.6	4614.7
57.5°	4902.8	5375.6	5929.4	6224.9	6142.8	5455.1	4853.7	4993.3	4824.9	4737.0
58°	4916.4	5353.1	5871.4	6162.1	6078.4	5424.2	4853.1	4991.2	4831.2	4742.8
60°	4904.4	5207.2	5655.4	5914.2	5826.4	5230.7	4833.3	4952.0	4751.7	4676.9
62.5°	4793.0	4954.1	5282.5	5470.8	5445.7	4928.4	4751.7	4804.0	4509.5	4437.4
65°	4646.6	4608.9	4805.0	4938.4	4957.2	4702.0	4670.6	4483.9	4198.9	4096.9
67.5°	4468.8	4217.7	4217.2	4293.0	4324.4	4353.7	4501.7	4136.1	3751.2	3643.5
70°	4167.0	3614.7	3448.4	3537.9	3511.7	3759.1	4199.9	3647.7	3211.5	3085.5
72.5°	3613.7	2868.5	2602.3	2717.3	2651.4	2948.0	3674.9	3001.8	2655.6	2500.8
75°	2929.1	2145.7	1871.2	1976.8	1936.0	2236.2	3057.8	2180.3	1904.6	1845.6
77.5°	2274.4	1554.8	1395.3	1380.6	1411.0	1664.1	2243.0	1472.2	1255.6	1215.4
80°	1461.2	1112.9	1122.3	1103.5	1119.1	1049.1	1361.8	939.2	850.3	817.9
82.5°	961.7	775.6	924.6	853.5	810.6	705.5	893.2	615.0	521.9	504.1
85°	655.3	571.1	519.8	397.5	468.1	543.4	669.9	331.0	262.5	238.0
87.5°	296.0	198.7	145.9	90.0	142.2	164.2	325.3	38.7	29.8	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)