

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: P647836

Luminaire Tested: **GALN-SA3A-835-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647836  
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-SA3A-835-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 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: 9214.4 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

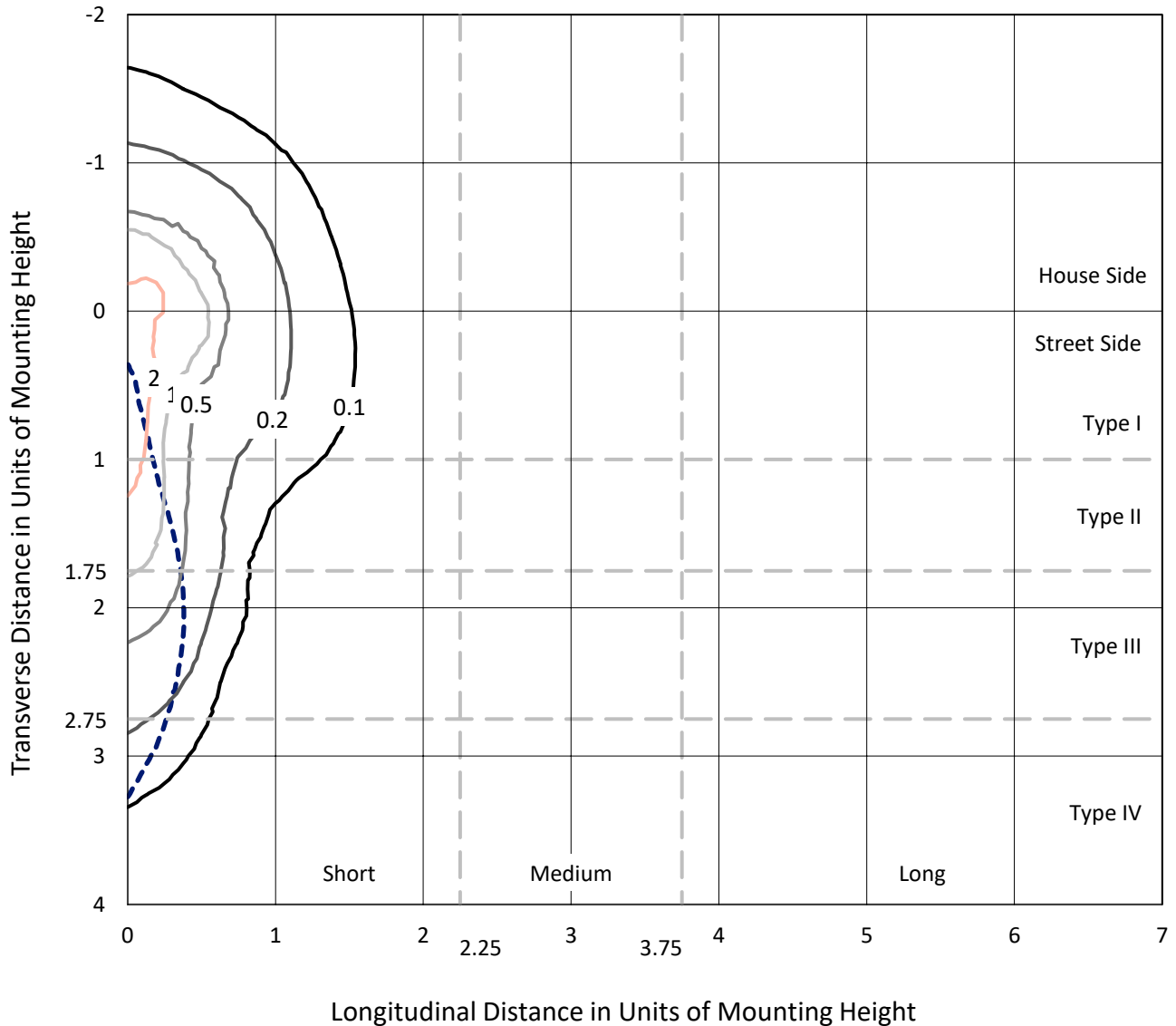
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

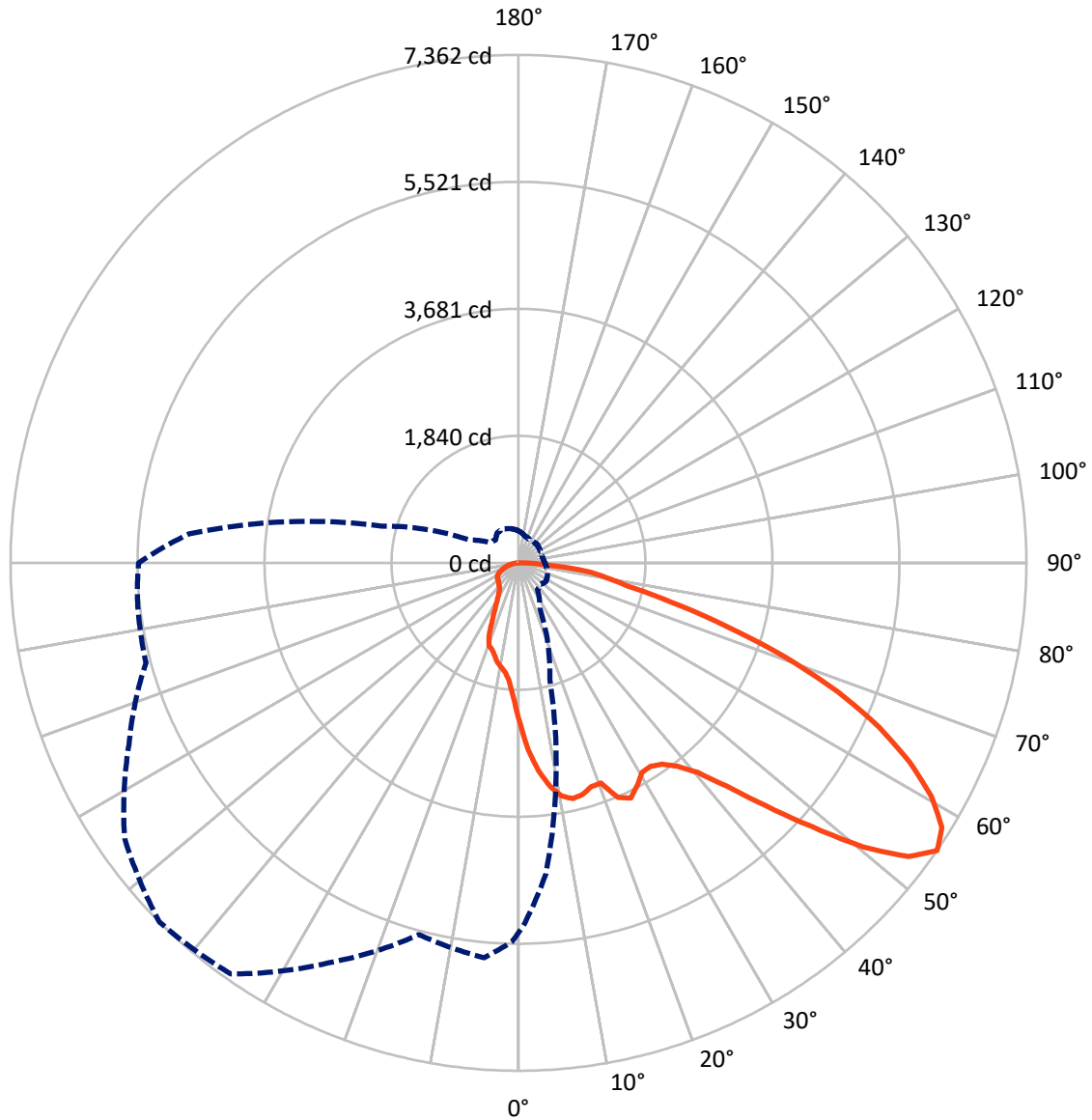
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	2015.6	0.0	2015.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	7198.8	0.0	7198.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	9214.4	0.0	9214.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.0	2.1
10°-20°	520.0	5.6
20°-30°	898.2	9.7
30°-40°	1043.9	11.3
40°-50°	1456.5	15.8
50°-60°	1976.3	21.4
60°-70°	1880.2	20.4
70°-80°	1015.7	11.0
80°-90°	227.6	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°	9214.4	100.0
0°-180°	9214.4	100.0

**Coefficient of Utilization**

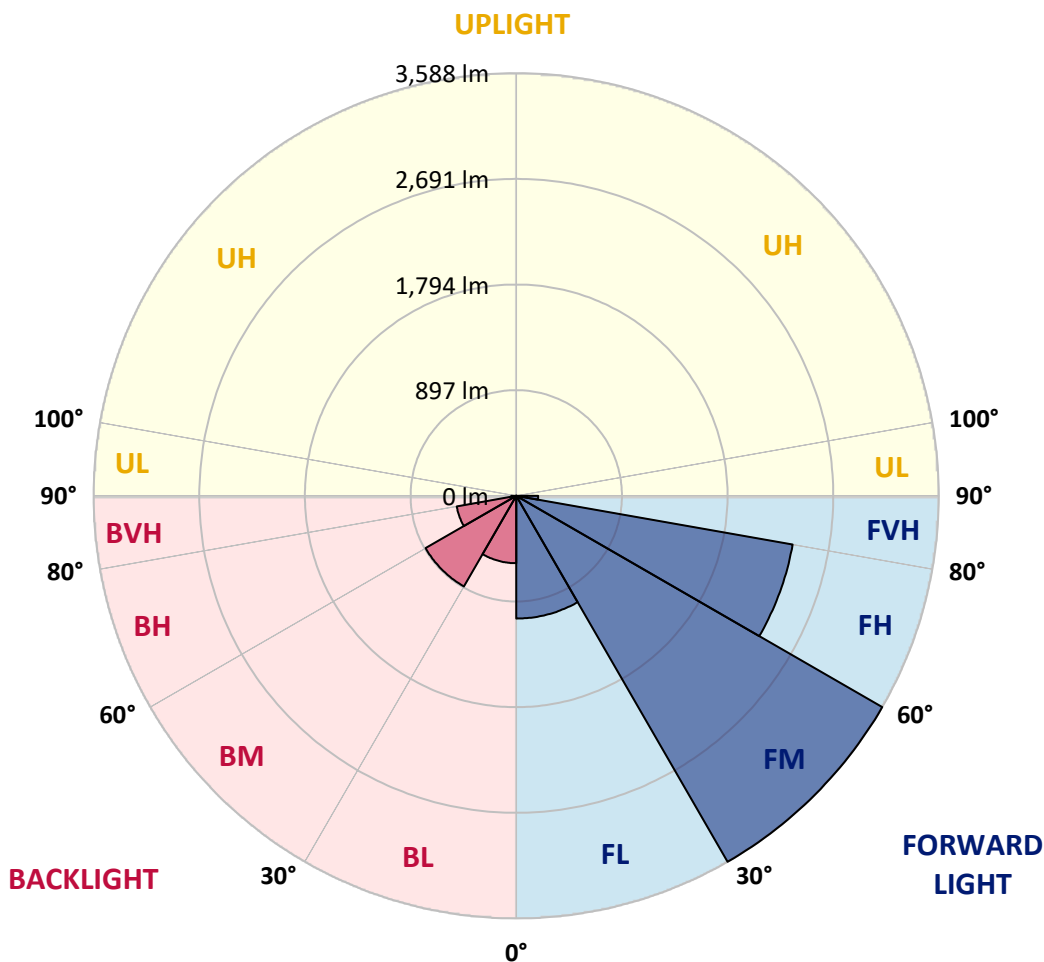


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.2	11.3			
FM (30°-60°)	3587.9	38.9			
FH (60°-80°)	2382.7	25.9			G2/5000
FVH (80°-90°)	186.0	2.0			G2/225
BL (0°-30°)	572.0	6.2	B2/1000		
BM (30°-60°)	888.7	9.6	B1/1000		
BH (60°-80°)	513.2	5.6	B2/1000		G2/1000
BVH (80°-90°)	41.6	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4
2.5°	2568.9	2559.2	2531.9	2460.2	2387.8	2314.2	2257.7	2187.2	2113.6	2074.2	2023.7
5°	2604.3	2593.3	2528.9	2367.2	2220.7	2066.9	1944.0	1836.4	1792.7	1728.2	1676.6
7.5°	2521.6	2516.7	2420.0	2187.9	1987.3	1786.0	1646.8	1560.4	1482.1	1452.9	1459.0
10°	2446.2	2426.8	2305.8	2002.4	1768.4	1604.8	1505.2	1420.7	1365.3	1350.8	1353.8
12.5°	2383.5	2357.5	2214.6	1877.8	1673.0	1542.2	1415.2	1327.0	1276.6	1290.5	1338.0
15°	2370.8	2335.5	2176.3	1835.3	1620.7	1452.2	1313.1	1211.5	1173.9	1204.3	1280.2
17.5°	2453.5	2409.1	2241.9	1849.2	1570.8	1360.5	1189.7	1073.6	1041.9	1090.6	1189.7
20°	2719.1	2653.5	2446.8	1930.1	1565.9	1314.9	1117.9	1001.2	1014.6	1107.0	1210.4
22.5°	3210.3	3111.8	2805.4	2048.0	1591.4	1303.3	1103.3	1042.6	1116.1	1194.5	1262.6
25°	3307.5	3230.3	2869.9	2074.7	1586.0	1295.4	1144.7	1175.0	1257.1	1296.0	1272.3
27.5°	3362.3	3274.1	2865.6	1942.2	1418.2	1175.0	1094.2	1144.7	1165.3	1127.7	1063.2
30°	3489.9	3398.1	2938.0	1803.0	1167.8	871.7	764.1	743.5	757.5	764.8	741.7
32.5°	3665.6	3575.0	3074.1	1711.9	1009.7	721.0	615.2	586.0	579.3	571.4	562.3
35°	3893.0	3753.8	3207.9	1653.5	944.7	666.9	569.6	547.1	538.0	527.0	517.3
37.5°	4124.0	3978.1	3376.8	1592.1	901.5	629.1	539.2	528.8	513.1	501.5	487.5
40°	4369.5	4206.0	3530.7	1538.6	859.6	604.9	517.3	516.1	495.4	482.1	465.7
42.5°	4582.4	4413.9	3668.0	1505.8	827.3	579.3	503.9	507.6	486.3	466.3	445.0
45°	4751.3	4586.0	3795.1	1505.8	801.2	553.8	501.5	499.1	477.8	452.9	428.5
47.5°	4899.6	4728.9	3919.1	1544.1	784.8	532.5	488.1	492.4	470.5	438.9	415.2
50°	5014.6	4863.8	4086.3	1603.7	768.4	515.5	471.1	494.2	464.4	431.6	404.3
52.5°	5161.1	5026.1	4287.5	1685.1	754.4	496.7	455.9	494.2	463.8	432.2	402.5
55°	5364.1	5221.8	4530.0	1752.6	731.9	479.0	442.6	480.2	462.0	429.2	397.5
57.5°	5506.4	5400.0	4701.4	1797.5	699.7	456.6	430.4	466.9	454.1	417.7	383.0
58°	5513.0	5409.0	4726.4	1807.9	691.8	452.3	427.4	460.8	450.5	412.8	378.1
60°	5436.4	5347.0	4731.3	1793.3	646.8	431.0	411.5	435.9	431.0	384.2	352.0
62.5°	5158.0	5062.6	4534.9	1674.8	587.2	404.9	387.2	402.5	391.5	344.1	314.3
65°	4762.3	4586.6	4131.3	1488.7	544.7	376.9	354.4	355.6	344.1	310.0	283.9
67.5°	4235.2	4038.9	3497.8	1254.7	512.5	345.9	315.5	312.5	298.5	276.6	255.3
70°	3586.6	3452.2	2842.5	1020.6	476.6	311.9	271.7	269.9	261.4	245.0	226.1
72.5°	2907.0	2736.1	2295.4	817.0	432.8	279.1	231.0	234.7	223.7	212.2	195.1
75°	2145.3	2033.5	1774.4	655.3	373.9	243.1	192.7	193.9	189.1	176.9	163.5
77.5°	1412.8	1379.3	1269.3	430.4	287.5	193.3	157.5	158.6	155.0	144.1	130.1
80°	950.7	928.2	860.2	277.2	192.1	139.8	121.6	122.8	122.2	110.6	91.8
82.5°	586.0	576.3	554.4	187.2	133.1	100.3	80.3	83.9	90.6	77.8	62.6
85°	276.6	277.2	335.0	102.1	78.5	64.4	43.8	46.8	46.8	46.8	35.2
87.5°	35.9	37.7	46.2	43.1	28.6	24.4	15.8	13.4	11.6	15.2	11.0
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°	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4
2.5°	2006.0	1993.9	1967.8	1961.6	1958.0	1968.4	1941.0	1948.3	1936.1	1970.2	1964.7
5°	1679.6	1680.9	1702.1	1716.1	1721.0	1716.1	1697.9	1666.2	1642.0	1632.2	1634.7
7.5°	1447.4	1468.7	1505.2	1545.9	1583.0	1593.9	1583.5	1523.4	1457.7	1416.4	1403.1
10°	1370.2	1398.8	1440.7	1472.9	1505.8	1531.9	1537.3	1490.6	1412.8	1314.9	1276.6
12.5°	1374.5	1413.4	1453.5	1463.8	1460.8	1471.1	1466.2	1458.3	1407.3	1282.6	1218.8
15°	1334.3	1380.5	1408.5	1403.1	1393.3	1384.2	1371.4	1351.4	1333.1	1245.6	1175.0
17.5°	1241.9	1289.4	1312.5	1314.3	1314.3	1311.8	1280.8	1273.5	1271.1	1228.5	1185.4
20°	1259.0	1285.1	1274.7	1257.7	1262.6	1279.0	1260.8	1257.1	1271.1	1290.0	1282.1
22.5°	1268.7	1259.5	1181.8	1106.4	1089.4	1140.4	1150.8	1191.5	1248.0	1316.1	1360.5
25°	1208.5	1135.0	995.7	910.6	862.6	910.0	972.0	1047.4	1131.9	1219.4	1271.1
27.5°	1010.3	954.4	854.7	778.1	736.2	743.5	796.3	865.1	943.4	1002.4	1040.1
30°	761.1	736.2	684.5	658.3	632.8	626.7	649.3	675.3	710.0	717.3	727.0
32.5°	560.5	556.9	559.8	551.4	546.5	545.9	539.2	545.3	549.0	553.2	544.7
35°	507.0	502.1	493.6	491.2	488.1	489.4	486.3	483.3	485.7	489.4	491.8
37.5°	479.7	472.3	460.2	455.9	455.9	457.7	452.9	451.6	455.9	467.5	473.6
40°	458.4	449.8	435.9	430.4	434.0	438.9	432.2	429.8	440.1	452.3	462.0
42.5°	438.3	431.6	418.2	412.2	415.2	424.3	414.6	412.8	426.1	439.5	451.1
45°	421.3	414.6	402.5	399.4	400.6	409.1	402.5	402.5	415.2	429.8	440.1
47.5°	407.9	399.4	391.5	389.1	390.2	395.1	393.9	393.9	406.1	421.3	431.6
50°	394.6	387.2	376.9	378.1	381.2	387.8	387.2	389.1	401.2	420.1	431.0
52.5°	388.4	377.5	366.0	367.1	376.3	384.2	381.8	383.6	397.5	432.8	448.7
55°	381.8	367.1	353.8	355.6	366.0	377.5	374.4	376.9	393.3	441.3	463.2
57.5°	369.0	352.0	337.4	338.6	353.8	366.0	361.1	364.1	383.6	432.2	455.3
58°	363.5	348.9	335.0	335.6	350.2	363.5	358.1	360.5	380.5	429.8	451.6
60°	340.4	331.9	319.8	320.3	334.3	345.9	342.9	345.3	364.7	412.2	428.5
62.5°	308.8	304.0	300.9	300.9	309.4	320.3	323.4	326.4	344.1	372.6	387.2
65°	274.8	274.8	275.4	275.4	280.9	294.8	296.7	304.6	321.0	335.0	345.9
67.5°	251.7	250.5	251.7	248.6	251.0	259.6	268.7	276.0	293.0	302.7	306.4
70°	221.9	221.3	221.9	217.6	220.6	227.9	234.0	246.2	263.8	271.2	273.0
72.5°	192.7	192.7	193.9	190.9	190.9	198.8	203.0	216.4	232.8	237.1	237.7
75°	162.3	164.1	164.1	159.9	161.1	165.9	171.4	182.4	197.6	200.6	200.6
77.5°	128.9	135.5	135.5	131.3	133.1	133.7	141.0	146.5	158.1	159.3	154.4
80°	93.6	100.3	105.8	102.1	105.2	101.6	105.8	109.4	121.0	115.5	107.6
82.5°	66.9	71.7	76.0	76.6	73.5	66.9	72.3	73.0	78.5	71.1	66.9
85°	37.1	41.3	46.8	44.4	39.5	35.2	37.1	38.3	37.7	35.9	33.4
87.5°	9.7	10.3	11.6	8.5	7.9	6.7	9.1	9.1	10.3	11.0	10.3
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°	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4
2.5°	1969.0	1995.7	2053.5	2097.3	2150.7	2215.8	2292.4	2369.6	2452.8	2479.0	2515.5
5°	1629.2	1696.1	1724.0	1803.6	1882.6	2001.2	2127.6	2274.1	2434.7	2511.9	2586.0
7.5°	1392.1	1428.0	1457.2	1515.5	1610.3	1754.4	1913.0	2096.0	2323.4	2435.8	2544.7
10°	1264.4	1268.1	1303.9	1376.3	1459.0	1586.0	1736.1	1941.0	2194.5	2331.3	2458.9
12.5°	1179.9	1164.1	1203.0	1278.4	1372.1	1489.3	1627.3	1822.5	2101.5	2241.9	2396.3
15°	1105.8	1080.9	1110.1	1187.2	1279.7	1417.6	1565.9	1772.6	2065.0	2228.6	2400.0
17.5°	1107.6	1038.9	1049.2	1114.3	1206.1	1346.5	1526.5	1770.8	2120.4	2308.8	2511.9
20°	1244.3	1134.3	1087.5	1099.7	1188.4	1341.6	1544.7	1855.9	2302.1	2576.9	2793.9
22.5°	1378.7	1312.5	1237.1	1212.2	1260.8	1421.3	1660.7	2057.1	2697.2	3111.3	3503.3
25°	1331.9	1388.4	1369.6	1334.3	1345.3	1478.4	1739.8	2222.5	3004.2	3470.5	3838.9
27.5°	1065.7	1168.4	1189.1	1188.4	1192.7	1302.1	1564.7	2111.2	3042.5	3539.2	3891.1
30°	748.9	758.0	769.0	790.3	809.7	907.6	1224.3	1853.4	3025.5	3570.2	3922.8
32.5°	540.4	552.6	567.8	597.0	643.2	767.8	1071.1	1771.4	3115.5	3698.4	4015.1
35°	494.2	508.2	522.8	556.2	600.0	715.5	1010.3	1737.4	3263.2	3906.3	4181.1
37.5°	479.7	495.4	508.2	532.5	567.8	677.8	955.0	1714.3	3414.6	4126.4	4403.6
40°	469.3	487.5	497.8	517.3	541.6	643.2	905.8	1696.1	3561.1	4327.6	4582.4
42.5°	460.2	479.0	492.4	506.4	526.4	612.1	862.0	1677.8	3688.1	4522.8	4760.4
45°	449.2	472.9	490.0	500.9	518.5	586.0	828.6	1663.2	3832.8	4696.0	4940.4
47.5°	440.1	466.3	487.5	500.3	507.0	567.8	801.8	1683.3	4006.6	4877.2	5107.6
50°	440.8	465.7	492.4	512.5	494.9	552.6	785.4	1762.9	4232.8	5092.3	5239.4
52.5°	460.2	490.5	511.8	516.7	477.8	534.3	776.9	1902.1	4500.3	5282.6	5372.6
55°	482.1	513.6	536.7	533.8	468.7	511.2	775.1	2050.4	4793.3	5504.5	5545.8
57.5°	474.2	520.4	555.6	539.8	469.3	488.7	767.2	2170.2	5038.2	5670.5	5717.3
58°	471.8	518.0	558.0	538.6	467.5	482.1	765.3	2180.5	5072.3	5682.0	5741.6
60°	448.0	496.7	556.2	529.5	457.1	463.8	745.3	2213.9	5063.2	5622.4	5756.1
62.5°	404.9	445.0	514.3	485.1	425.6	439.5	700.3	2172.6	4816.4	5335.5	5542.8
65°	356.3	386.0	432.2	426.7	380.5	414.6	638.9	2009.1	4322.2	4869.9	5088.1
67.5°	319.8	344.1	373.3	365.3	342.2	381.2	572.6	1732.5	3767.7	4310.6	4585.4
70°	282.7	301.5	316.1	310.6	303.3	348.4	513.6	1406.0	3236.5	3779.3	4045.5
72.5°	245.0	262.6	274.8	266.8	262.6	313.7	465.7	1091.2	2556.2	3117.9	3460.2
75°	204.8	222.5	231.0	221.9	219.5	276.6	394.6	815.2	1917.9	2403.7	2699.1
77.5°	158.6	177.5	188.5	185.4	186.6	227.4	318.5	558.0	1371.4	1638.3	1949.5
80°	111.3	131.9	139.2	136.2	144.7	173.3	225.0	354.4	945.9	1063.2	1282.6
82.5°	68.7	88.2	89.3	92.4	98.5	128.3	169.6	215.8	593.9	614.0	773.2
85°	34.7	42.0	45.0	49.9	55.3	78.5	96.6	133.7	382.3	289.4	432.2
87.5°	11.6	12.1	14.6	18.2	22.5	32.2	41.3	54.7	94.8	52.3	133.7
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°	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4
2.5°	2589.1	2640.7	2678.4	2713.0	2679.6	2676.6	2643.7	2590.9	2568.9	2568.9
5°	2741.6	2862.6	2960.4	3023.1	2996.3	2931.9	2825.5	2689.9	2617.0	2604.3
7.5°	2783.6	3022.5	3204.2	3268.6	3223.7	3081.4	2877.8	2649.2	2544.7	2521.6
10°	2758.0	3068.7	3335.5	3437.7	3375.0	3159.9	2882.1	2601.8	2472.9	2446.2
12.5°	2731.3	3074.8	3359.9	3507.6	3466.8	3223.1	2913.1	2570.8	2421.9	2383.5
15°	2750.8	3077.2	3330.1	3482.6	3508.8	3299.1	2964.1	2593.3	2411.6	2370.8
17.5°	2873.5	3123.4	3287.5	3410.9	3502.7	3402.4	3109.4	2700.9	2504.0	2453.5
20°	3130.0	3234.0	3311.9	3407.2	3555.0	3613.3	3406.7	2996.3	2763.5	2719.1
22.5°	3872.9	3854.1	3694.8	3692.9	3906.9	4141.0	4127.0	3596.9	3246.8	3210.3
25°	4151.3	4063.8	3833.4	3777.5	3871.7	4232.8	4180.5	3719.7	3396.3	3307.5
27.5°	4042.6	3825.5	3674.1	3661.4	3630.4	3971.4	4097.2	3769.6	3448.6	3362.3
30°	4035.8	3716.7	3500.2	3525.8	3555.6	3881.4	4143.4	3925.8	3582.3	3489.9
32.5°	4052.3	3731.9	3513.0	3517.9	3606.7	3894.8	4194.5	4096.0	3758.0	3665.6
35°	4118.5	3818.2	3594.5	3582.9	3721.5	3982.3	4281.4	4363.5	3998.2	3893.0
37.5°	4225.5	3990.2	3743.4	3740.4	3941.6	4140.4	4389.7	4633.4	4237.0	4124.0
40°	4382.9	4191.5	4008.5	3992.0	4240.7	4397.6	4530.0	4920.9	4514.9	4369.5
42.5°	4573.2	4432.8	4358.0	4423.1	4662.0	4686.3	4748.9	5186.6	4751.3	4582.4
45°	4749.5	4742.8	4846.8	5019.4	5158.6	5012.7	4977.5	5364.7	4934.9	4751.3
47.5°	4959.2	5140.4	5454.1	5707.0	5852.8	5392.7	5172.6	5480.8	5068.7	4899.6
50°	5171.9	5616.4	6117.3	6469.9	6500.9	5805.4	5306.9	5590.2	5190.2	5014.6
52.5°	5395.7	5996.3	6663.2	7072.9	7012.7	6164.7	5437.0	5664.4	5315.5	5161.1
55°	5590.2	6229.2	6968.3	7361.6	7273.5	6383.6	5577.5	5744.6	5494.2	5364.1
57.5°	5699.1	6248.6	6892.4	7235.8	7140.3	6341.0	5641.9	5804.2	5608.5	5506.4
58°	5714.8	6222.4	6824.9	7162.9	7065.6	6305.1	5641.3	5801.8	5615.8	5513.0
60°	5700.9	6052.8	6573.8	6874.7	6772.6	6080.2	5618.2	5756.1	5523.4	5436.4
62.5°	5571.4	5758.6	6140.4	6359.2	6330.0	5728.8	5523.4	5584.1	5241.9	5158.0
65°	5401.1	5357.4	5585.4	5740.4	5762.3	5465.6	5429.2	5212.1	4880.8	4762.3
67.5°	5194.5	4902.7	4902.0	4990.2	5026.7	5060.8	5232.8	4807.9	4360.4	4235.2
70°	4843.7	4201.8	4008.5	4112.4	4082.0	4369.5	4882.0	4240.1	3733.1	3586.6
72.5°	4200.6	3334.3	3024.9	3158.6	3082.0	3426.7	4271.7	3489.4	3086.9	2907.0
75°	3404.8	2494.2	2175.0	2297.9	2250.4	2599.4	3554.4	2534.3	2213.9	2145.3
77.5°	2643.7	1807.2	1621.9	1604.8	1640.1	1934.3	2607.2	1711.2	1459.6	1412.8
80°	1698.5	1293.6	1304.6	1282.6	1300.9	1219.4	1583.0	1091.8	988.5	950.7
82.5°	1117.9	901.5	1074.7	992.1	942.3	820.0	1038.3	714.9	606.7	586.0
85°	761.7	663.8	604.2	462.0	544.1	631.6	778.7	384.8	305.1	276.6
87.5°	344.1	231.0	169.6	104.5	165.4	190.9	378.1	45.0	34.7	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)