

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: P451365

Luminaire Tested: **GALN-SA2B-727-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451365  
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-727-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 8249 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

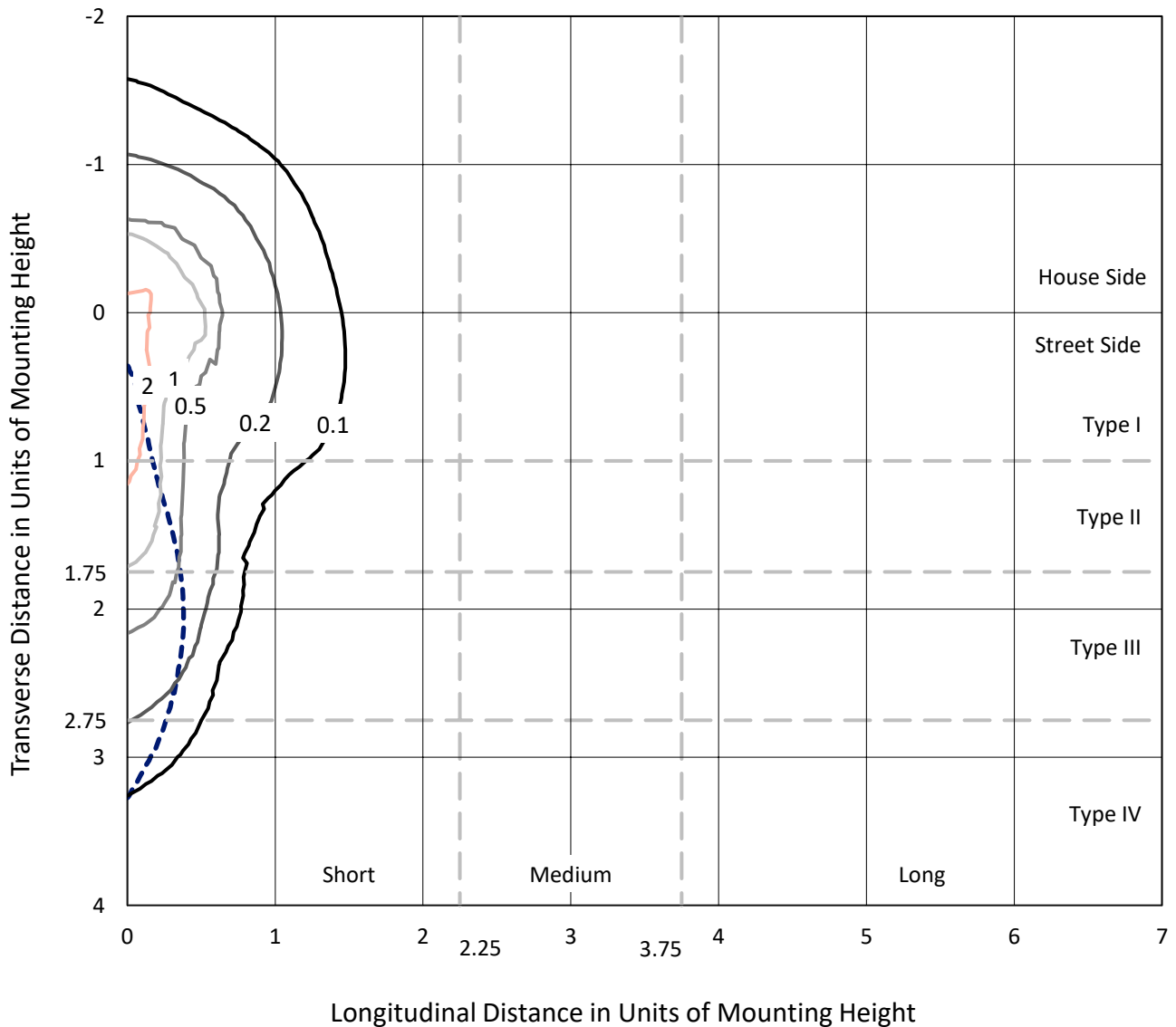
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

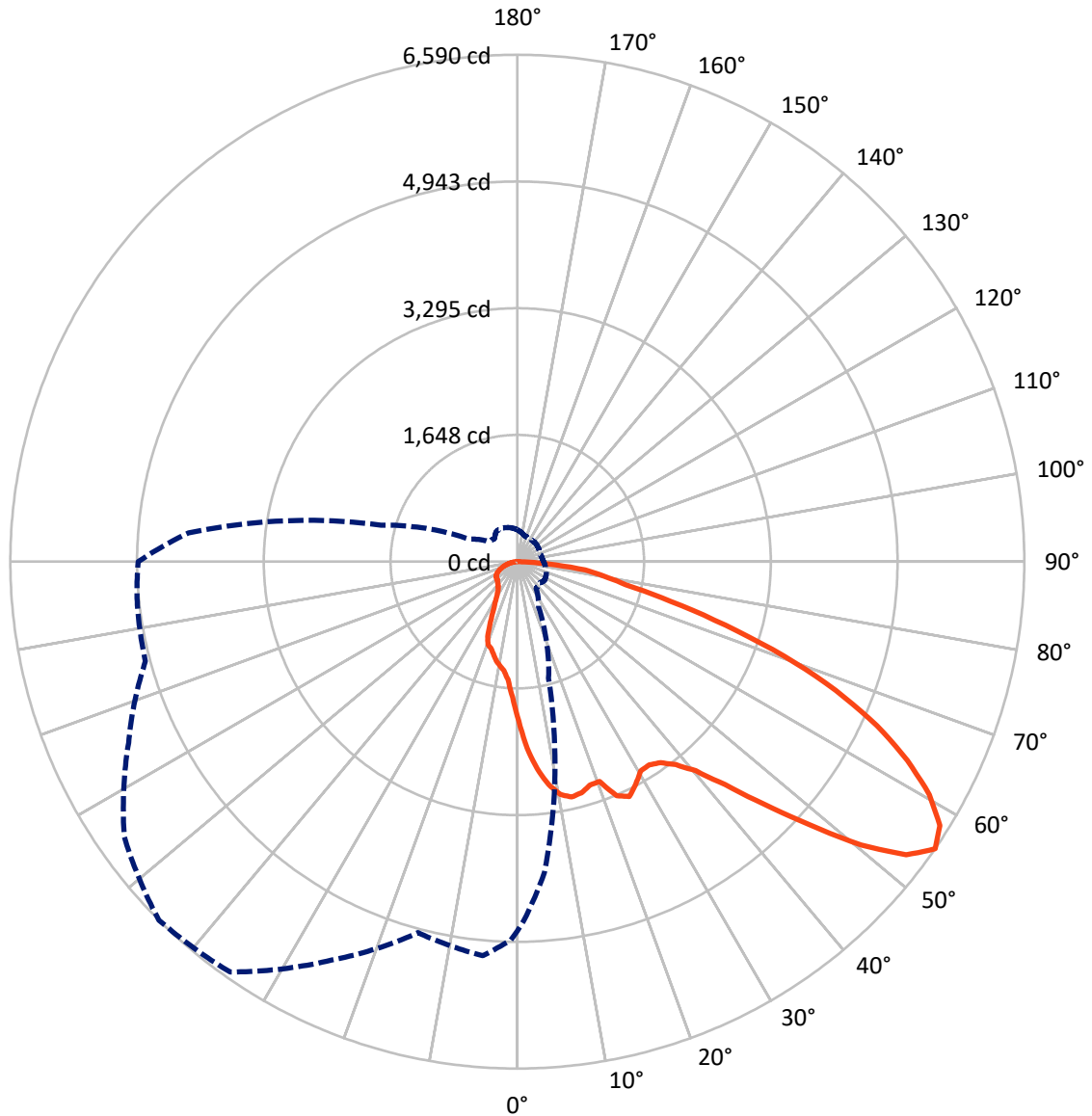
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1804.4	0.0	1804.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	6444.6	0.0	6444.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	8249.0	0.0	8249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	2.1
10°-20°	465.5	5.6
20°-30°	804.1	9.7
30°-40°	934.5	11.3
40°-50°	1303.9	15.8
50°-60°	1769.2	21.4
60°-70°	1683.2	20.4
70°-80°	909.3	11.0
80°-90°	203.8	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°	8249.0	100.0
0°-180°	8249.0	100.0

**Coefficient of Utilization**



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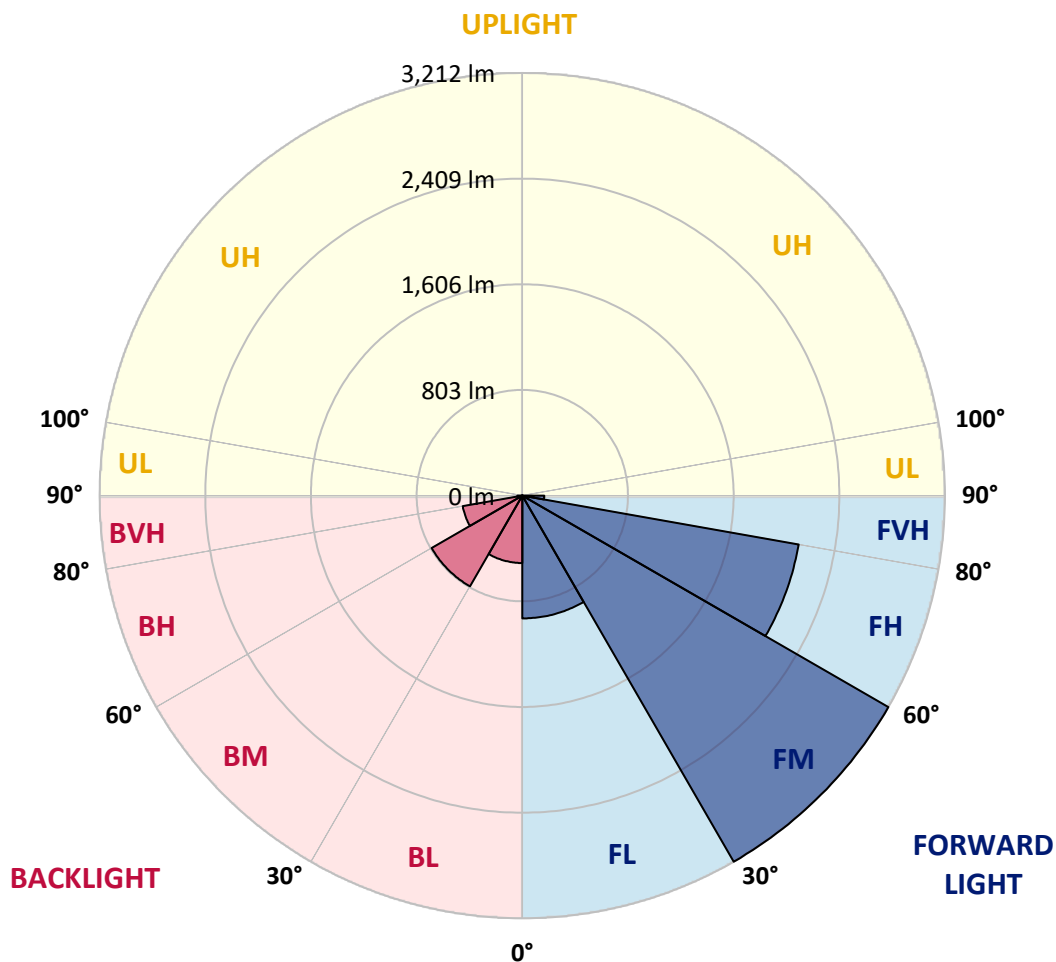
CATALOG NUMBER: GALN-SA2B-727-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	933.0	11.3			
FM	(30°-60°)	3212.0	38.9			
FH	(60°-80°)	2133.1	25.9			G2/5000
FVH	(80°-90°)	166.5	2.0			G2/225
BL	(0°-30°)	512.1	6.2	B2/1000		
BM	(30°-60°)	795.6	9.6	B1/1000		
BH	(60°-80°)	459.5	5.6	B1/500		G1/500
BVH	(80°-90°)	37.2	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°	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	2299.8	2291.1	2266.6	2202.4	2137.7	2071.8	2021.2	1958.1	1892.2	1856.8	1811.7
5°	2331.4	2321.6	2263.9	2119.2	1988.0	1850.3	1740.4	1644.1	1604.9	1547.2	1500.9
7.5°	2257.4	2253.0	2166.5	1958.6	1779.0	1598.9	1474.3	1397.0	1326.8	1300.7	1306.1
10°	2189.9	2172.5	2064.2	1792.6	1583.1	1436.7	1347.5	1271.8	1222.3	1209.2	1212.0
12.5°	2133.8	2110.4	1982.6	1681.1	1497.7	1380.7	1266.9	1188.0	1142.8	1155.4	1197.8
15°	2122.4	2090.9	1948.3	1643.0	1450.9	1300.1	1175.5	1084.6	1050.9	1078.1	1146.1
17.5°	2196.4	2156.7	2007.0	1655.5	1406.2	1217.9	1065.0	961.1	932.8	976.3	1065.0
20°	2434.3	2375.5	2190.4	1727.9	1401.9	1177.1	1000.8	896.3	908.3	991.0	1083.5
22.5°	2874.0	2785.8	2511.5	1833.4	1424.7	1166.8	987.7	933.3	999.2	1069.4	1130.3
25°	2961.0	2891.9	2569.2	1857.4	1419.8	1159.7	1024.7	1052.0	1125.4	1160.3	1139.0
27.5°	3010.0	2931.1	2565.4	1738.8	1269.6	1052.0	979.6	1024.7	1043.3	1009.5	951.8
30°	3124.3	3042.1	2630.2	1614.1	1045.4	780.4	684.1	665.6	678.1	684.6	663.9
32.5°	3281.6	3200.5	2752.1	1532.5	903.9	645.4	550.7	524.6	518.6	511.6	503.4
35°	3485.1	3360.5	2871.8	1480.3	845.7	597.0	509.9	489.8	481.6	471.8	463.1
37.5°	3691.9	3561.3	3023.1	1425.3	807.1	563.3	482.7	473.5	459.3	449.0	436.5
40°	3911.8	3765.4	3160.8	1377.4	769.5	541.5	463.1	462.0	443.5	431.6	416.9
42.5°	4102.3	3951.5	3283.8	1348.0	740.7	518.6	451.2	454.4	435.4	417.4	398.4
45°	4253.5	4105.5	3397.5	1348.0	717.3	495.8	449.0	446.8	427.7	405.4	383.7
47.5°	4386.3	4233.4	3508.5	1382.3	702.6	476.7	437.0	440.8	421.2	392.9	371.7
50°	4489.2	4354.2	3658.2	1435.6	687.9	461.5	421.8	442.4	415.8	386.4	361.9
52.5°	4620.3	4499.5	3838.3	1508.6	675.4	444.6	408.2	442.4	415.2	386.9	360.3
55°	4802.1	4674.8	4055.5	1569.0	655.2	428.8	396.2	429.9	413.6	384.2	355.9
57.5°	4929.5	4834.2	4208.9	1609.2	626.4	408.7	385.3	418.0	406.5	373.9	342.9
58°	4935.4	4842.4	4231.2	1618.5	619.3	404.9	382.6	412.5	403.3	369.5	338.5
60°	4866.9	4786.9	4235.6	1605.4	579.0	385.8	368.4	390.2	385.8	343.9	315.1
62.5°	4617.6	4532.2	4059.8	1499.3	525.7	362.4	346.7	360.3	350.5	308.0	281.4
65°	4263.3	4106.1	3698.5	1332.8	487.6	337.4	317.3	318.4	308.0	277.5	254.1
67.5°	3791.5	3615.7	3131.4	1123.3	458.8	309.7	282.4	279.7	267.2	247.6	228.6
70°	3210.8	3090.6	2544.7	913.7	426.7	279.2	243.3	241.6	234.0	219.3	202.4
72.5°	2602.4	2449.5	2054.9	731.4	387.5	249.8	206.8	210.1	200.3	189.9	174.7
75°	1920.5	1820.4	1588.6	586.7	334.7	217.7	172.5	173.6	169.2	158.4	146.4
77.5°	1264.7	1234.8	1136.3	385.3	257.4	173.1	141.0	142.0	138.8	129.0	116.5
80°	851.1	831.0	770.1	248.2	172.0	125.2	108.8	109.9	109.4	99.0	82.2
82.5°	524.6	515.9	496.3	167.6	119.2	89.8	71.8	75.1	81.1	69.7	56.1
85°	247.6	248.2	299.9	91.4	70.2	57.7	39.2	41.9	41.9	41.9	31.6
87.5°	32.1	33.7	41.4	38.6	25.6	21.8	14.1	12.0	10.3	13.6	9.8
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°	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	1795.9	1785.0	1761.6	1756.2	1752.9	1762.2	1737.7	1744.2	1733.3	1763.8	1758.9
5°	1503.7	1504.7	1523.8	1536.3	1540.7	1536.3	1520.0	1491.7	1469.9	1461.2	1463.4
7.5°	1295.8	1314.8	1347.5	1383.9	1417.1	1426.9	1417.7	1363.8	1305.0	1268.0	1256.0
10°	1226.7	1252.2	1289.8	1318.6	1348.0	1371.4	1376.3	1334.4	1264.7	1177.1	1142.8
12.5°	1230.5	1265.3	1301.2	1310.5	1307.7	1317.0	1312.6	1305.6	1259.8	1148.3	1091.1
15°	1194.5	1235.9	1260.9	1256.0	1247.3	1239.2	1227.7	1209.8	1193.5	1115.1	1052.0
17.5°	1111.8	1154.3	1175.0	1176.6	1176.6	1174.4	1146.7	1140.1	1137.9	1099.8	1061.2
20°	1127.1	1150.5	1141.2	1126.0	1130.3	1145.0	1128.7	1125.4	1137.9	1154.8	1147.7
22.5°	1135.8	1127.6	1057.9	990.5	975.2	1020.9	1030.2	1066.7	1117.3	1178.2	1217.9
25°	1081.9	1016.0	891.4	815.2	772.2	814.7	870.2	937.7	1013.3	1091.7	1137.9
27.5°	904.5	854.4	765.2	696.6	659.0	665.6	712.9	774.4	844.6	897.4	931.1
30°	681.4	659.0	612.8	589.4	566.5	561.1	581.2	604.6	635.6	642.2	650.9
32.5°	501.8	498.5	501.2	493.6	489.2	488.7	482.7	488.2	491.4	495.2	487.6
35°	453.9	449.5	441.9	439.7	437.0	438.1	435.4	432.6	434.8	438.1	440.3
37.5°	429.4	422.9	412.0	408.2	408.2	409.8	405.4	404.3	408.2	418.5	423.9
40°	410.3	402.7	390.2	385.3	388.6	392.9	386.9	384.8	394.0	404.9	413.6
42.5°	392.4	386.4	374.4	369.0	371.7	379.9	371.2	369.5	381.5	393.5	403.8
45°	377.1	371.2	360.3	357.5	358.6	366.3	360.3	360.3	371.7	384.8	394.0
47.5°	365.2	357.5	350.5	348.3	349.4	353.7	352.6	352.6	363.5	377.1	386.4
50°	353.2	346.7	337.4	338.5	341.2	347.2	346.7	348.3	359.2	376.0	385.8
52.5°	347.8	338.0	327.6	328.7	336.9	343.9	341.8	343.4	355.9	387.5	401.6
55°	341.8	328.7	316.7	318.4	327.6	338.0	335.2	337.4	352.1	395.1	414.7
57.5°	330.3	315.1	302.0	303.1	316.7	327.6	323.3	326.0	343.4	386.9	407.6
58°	325.4	312.4	299.9	300.4	313.5	325.4	320.5	322.7	340.7	384.8	404.3
60°	304.8	297.1	286.3	286.8	299.3	309.7	306.9	309.1	326.5	369.0	383.7
62.5°	276.5	272.1	269.4	269.4	277.0	286.8	289.5	292.2	308.0	333.6	346.7
65°	246.0	246.0	246.5	246.5	251.4	263.9	265.6	272.6	287.3	299.9	309.7
67.5°	225.3	224.2	225.3	222.6	224.8	232.4	240.5	247.1	262.3	271.0	274.3
70°	198.6	198.1	198.6	194.8	197.5	204.1	209.5	220.4	236.2	242.7	244.4
72.5°	172.5	172.5	173.6	170.9	170.9	178.0	181.8	193.7	208.4	212.2	212.8
75°	145.3	146.9	146.9	143.1	144.2	148.6	153.5	163.3	176.9	179.6	179.6
77.5°	115.4	121.4	121.4	117.5	119.2	119.7	126.3	131.2	141.5	142.6	138.2
80°	83.8	89.8	94.7	91.4	94.1	90.9	94.7	98.0	108.3	103.4	96.3
82.5°	59.9	64.2	68.0	68.6	65.8	59.9	64.8	65.3	70.2	63.7	59.9
85°	33.2	37.0	41.9	39.7	35.4	31.6	33.2	34.3	33.7	32.1	29.9
87.5°	8.7	9.3	10.3	7.6	7.1	6.0	8.2	8.2	9.3	9.8	9.3
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°	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	1762.7	1786.6	1838.3	1877.5	1925.4	1983.6	2052.2	2121.3	2195.9	2219.3	2251.9
5°	1458.5	1518.3	1543.4	1614.7	1685.4	1791.5	1904.7	2035.9	2179.6	2248.7	2315.1
7.5°	1246.2	1278.4	1304.5	1356.7	1441.6	1570.6	1712.6	1876.4	2080.0	2180.7	2278.1
10°	1132.0	1135.2	1167.3	1232.1	1306.1	1419.8	1554.3	1737.7	1964.6	2087.0	2201.3
12.5°	1056.3	1042.2	1077.0	1144.5	1228.3	1333.3	1456.9	1631.5	1881.3	2007.0	2145.3
15°	989.9	967.6	993.7	1062.8	1145.6	1269.1	1401.9	1586.9	1848.7	1995.1	2148.5
17.5°	991.6	930.1	939.3	997.5	1079.7	1205.4	1366.5	1585.3	1898.2	2066.9	2248.7
20°	1114.0	1015.5	973.6	984.5	1063.9	1201.1	1382.8	1661.5	2060.9	2306.9	2501.2
22.5°	1234.3	1175.0	1107.5	1085.2	1128.7	1272.4	1486.8	1841.6	2414.7	2785.3	3136.3
25°	1192.4	1243.0	1226.1	1194.5	1204.3	1323.5	1557.5	1989.6	2689.5	3106.9	3436.7
27.5°	954.0	1046.0	1064.5	1063.9	1067.7	1165.7	1400.8	1890.0	2723.8	3168.4	3483.5
30°	670.5	678.6	688.4	707.5	724.9	812.5	1096.0	1659.3	2708.5	3196.1	3511.8
32.5°	483.8	494.7	508.3	534.4	575.8	687.3	958.9	1585.8	2789.1	3311.0	3594.5
35°	442.4	455.0	468.0	498.0	537.1	640.5	904.5	1555.4	2921.3	3497.1	3743.1
37.5°	429.4	443.5	455.0	476.7	508.3	606.8	855.0	1534.7	3056.8	3694.1	3942.3
40°	420.1	436.5	445.7	463.1	484.9	575.8	810.9	1518.3	3188.0	3874.2	4102.3
42.5°	412.0	428.8	440.8	453.3	471.3	548.0	771.7	1502.0	3301.7	4048.9	4261.7
45°	402.2	423.4	438.6	448.4	464.2	524.6	741.8	1489.0	3431.2	4204.0	4422.8
47.5°	394.0	417.4	436.5	447.9	453.9	508.3	717.8	1506.9	3586.9	4366.2	4572.5
50°	394.6	416.9	440.8	458.8	443.0	494.7	703.1	1578.2	3789.3	4558.9	4690.6
52.5°	412.0	439.2	458.2	462.6	427.7	478.4	695.5	1702.8	4028.8	4729.2	4809.7
55°	431.6	459.9	480.5	477.8	419.6	457.7	693.9	1835.6	4291.1	4927.8	4964.8
57.5°	424.5	465.8	497.4	483.3	420.1	437.5	686.8	1942.8	4510.4	5076.4	5118.3
58°	422.3	463.7	499.6	482.2	418.5	431.6	685.2	1952.1	4540.9	5086.7	5140.1
60°	401.1	444.6	498.0	474.0	409.2	415.2	667.2	1982.0	4532.7	5033.4	5153.1
62.5°	362.4	398.4	460.4	434.3	380.9	393.5	626.9	1945.0	4311.8	4776.5	4962.1
65°	318.9	345.6	386.9	382.0	340.7	371.2	572.0	1798.6	3869.3	4359.7	4555.0
67.5°	286.3	308.0	334.1	327.1	306.4	341.2	512.6	1551.0	3373.0	3859.0	4105.0
70°	253.1	269.9	283.0	278.1	271.6	311.8	459.9	1258.8	2897.4	3383.4	3621.7
72.5°	219.3	235.1	246.0	238.9	235.1	280.8	416.9	976.9	2288.4	2791.3	3097.6
75°	183.4	199.2	206.8	198.6	196.5	247.6	353.2	729.8	1717.0	2151.8	2416.3
77.5°	142.0	158.9	168.7	166.0	167.1	203.5	285.2	499.6	1227.7	1466.6	1745.3
80°	99.6	118.1	124.6	121.9	129.5	155.1	201.4	317.3	846.8	951.8	1148.3
82.5°	61.5	78.9	80.0	82.7	88.2	114.8	151.8	193.2	531.7	549.7	692.2
85°	31.0	37.6	40.3	44.6	49.5	70.2	86.5	119.7	342.3	259.0	386.9
87.5°	10.3	10.9	13.1	16.3	20.1	28.8	37.0	49.0	84.9	46.8	119.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451365

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2	2070.2
2.5°	2317.8	2364.1	2397.8	2428.8	2398.9	2396.2	2366.8	2319.4	2299.8	2299.8
5°	2454.4	2562.7	2650.3	2706.4	2682.4	2624.7	2529.5	2408.1	2342.8	2331.4
7.5°	2491.9	2705.8	2868.5	2926.2	2885.9	2758.6	2576.3	2371.7	2278.1	2257.4
10°	2469.1	2747.2	2986.1	3077.5	3021.5	2828.8	2580.1	2329.2	2213.8	2189.9
12.5°	2445.1	2752.6	3007.9	3140.1	3103.6	2885.4	2607.9	2301.5	2168.1	2133.8
15°	2462.6	2754.8	2981.2	3117.8	3141.2	2953.4	2653.6	2321.6	2158.9	2122.4
17.5°	2572.5	2796.2	2943.1	3053.6	3135.7	3045.9	2783.6	2417.9	2241.6	2196.4
20°	2802.1	2895.2	2964.9	3050.3	3182.5	3234.8	3049.8	2682.4	2474.0	2434.3
22.5°	3467.2	3450.3	3307.7	3306.1	3497.6	3707.2	3694.6	3220.1	2906.6	2874.0
25°	3716.4	3638.0	3431.8	3381.7	3466.1	3789.3	3742.5	3330.0	3040.5	2961.0
27.5°	3619.0	3424.7	3289.2	3277.8	3250.0	3555.3	3668.0	3374.6	3087.3	3010.0
30°	3613.0	3327.3	3133.6	3156.4	3183.1	3474.8	3709.3	3514.5	3207.0	3124.3
32.5°	3627.7	3340.9	3145.0	3149.3	3228.8	3486.8	3755.1	3666.9	3364.3	3281.6
35°	3687.0	3418.2	3217.9	3207.6	3331.7	3565.1	3832.9	3906.3	3579.3	3485.1
37.5°	3782.8	3572.2	3351.2	3348.5	3528.7	3706.6	3929.7	4148.0	3793.1	3691.9
40°	3923.8	3752.3	3588.5	3573.8	3796.4	3936.8	4055.5	4405.4	4041.9	3911.8
42.5°	4094.1	3968.4	3901.4	3959.7	4173.6	4195.3	4251.4	4643.2	4253.5	4102.3
45°	4251.9	4245.9	4339.0	4493.5	4618.2	4487.6	4456.0	4802.7	4417.9	4253.5
47.5°	4439.7	4601.8	4882.7	5109.0	5239.7	4827.7	4630.7	4906.6	4537.6	4386.3
50°	4630.1	5028.0	5476.4	5792.0	5819.8	5197.2	4751.0	5004.6	4646.5	4489.2
52.5°	4830.4	5368.1	5965.1	6331.9	6278.0	5518.8	4867.4	5071.0	4758.6	4620.3
55°	5004.6	5576.5	6238.3	6590.4	6511.5	5714.8	4993.1	5142.8	4918.6	4802.1
57.5°	5102.0	5593.9	6170.3	6477.7	6392.3	5676.7	5050.8	5196.1	5020.9	4929.5
58°	5116.1	5570.5	6109.9	6412.4	6325.4	5644.6	5050.3	5193.9	5027.4	4935.4
60°	5103.6	5418.7	5885.1	6154.5	6063.0	5443.2	5029.6	5153.1	4944.7	4866.9
62.5°	4987.7	5155.3	5497.1	5693.0	5666.9	5128.6	4944.7	4999.1	4692.7	4617.6
65°	4835.3	4796.1	5000.2	5139.0	5158.6	4893.0	4860.3	4666.1	4369.5	4263.3
67.5°	4650.3	4389.1	4388.5	4467.4	4500.1	4530.6	4684.6	4304.2	3903.6	3791.5
70°	4336.3	3761.6	3588.5	3681.6	3654.4	3911.8	4370.6	3795.9	3342.0	3210.8
72.5°	3760.5	2985.0	2708.0	2827.7	2759.1	3067.7	3824.2	3123.8	2763.5	2602.4
75°	3048.1	2232.9	1947.2	2057.1	2014.7	2327.0	3182.0	2268.8	1982.0	1920.5
77.5°	2366.8	1617.9	1452.0	1436.7	1468.3	1731.7	2334.1	1532.0	1306.6	1264.7
80°	1520.5	1158.1	1167.9	1148.3	1164.6	1091.7	1417.1	977.4	884.9	851.1
82.5°	1000.8	807.1	962.2	888.2	843.5	734.1	929.5	640.0	543.1	524.6
85°	681.9	594.3	540.9	413.6	487.1	565.4	697.1	344.5	273.2	247.6
87.5°	308.0	206.8	151.8	93.6	148.0	170.9	338.5	40.3	31.0	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)