

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: P528784

Luminaire Tested: **GALN-SA3D-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-827-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12643 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

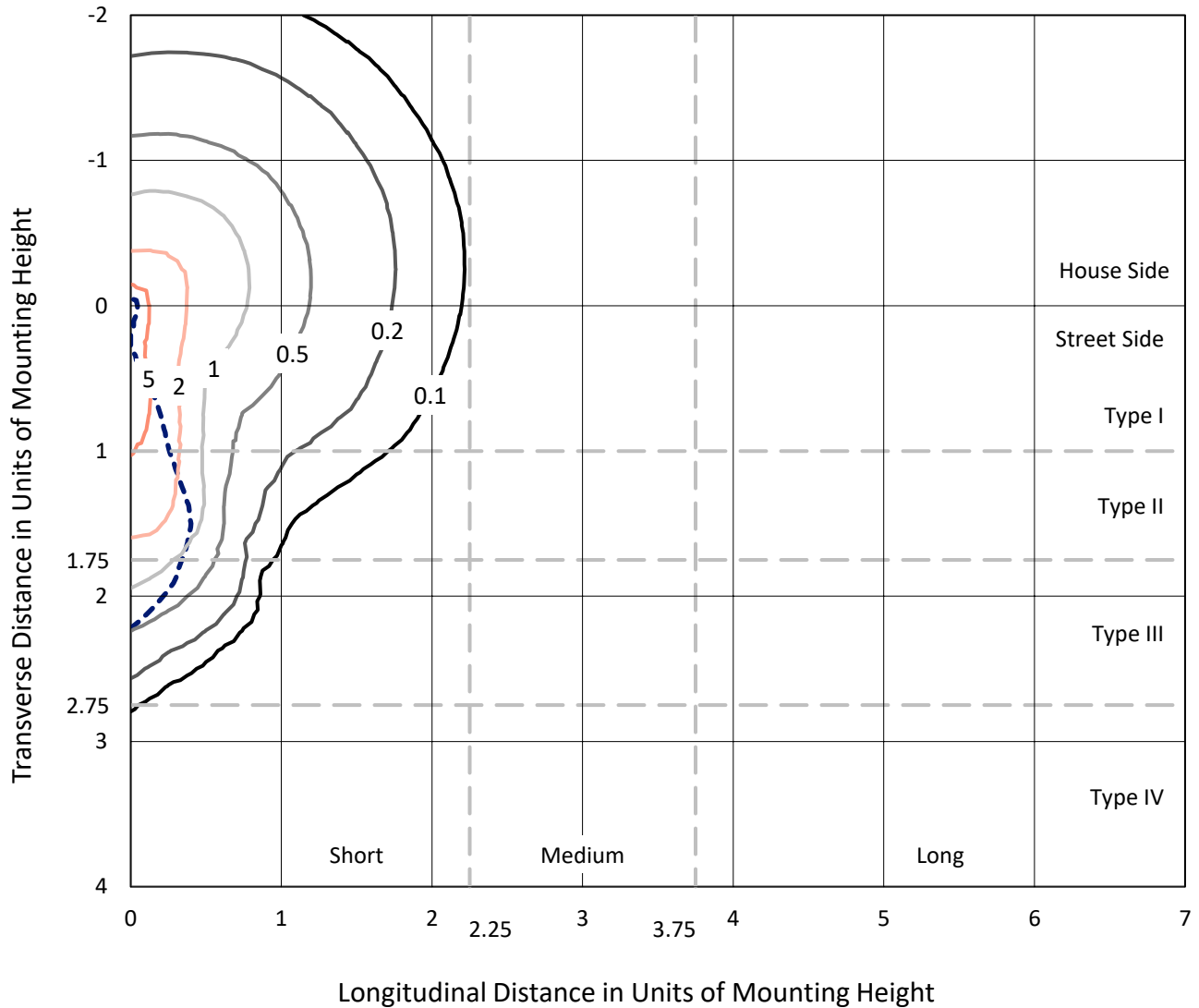
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

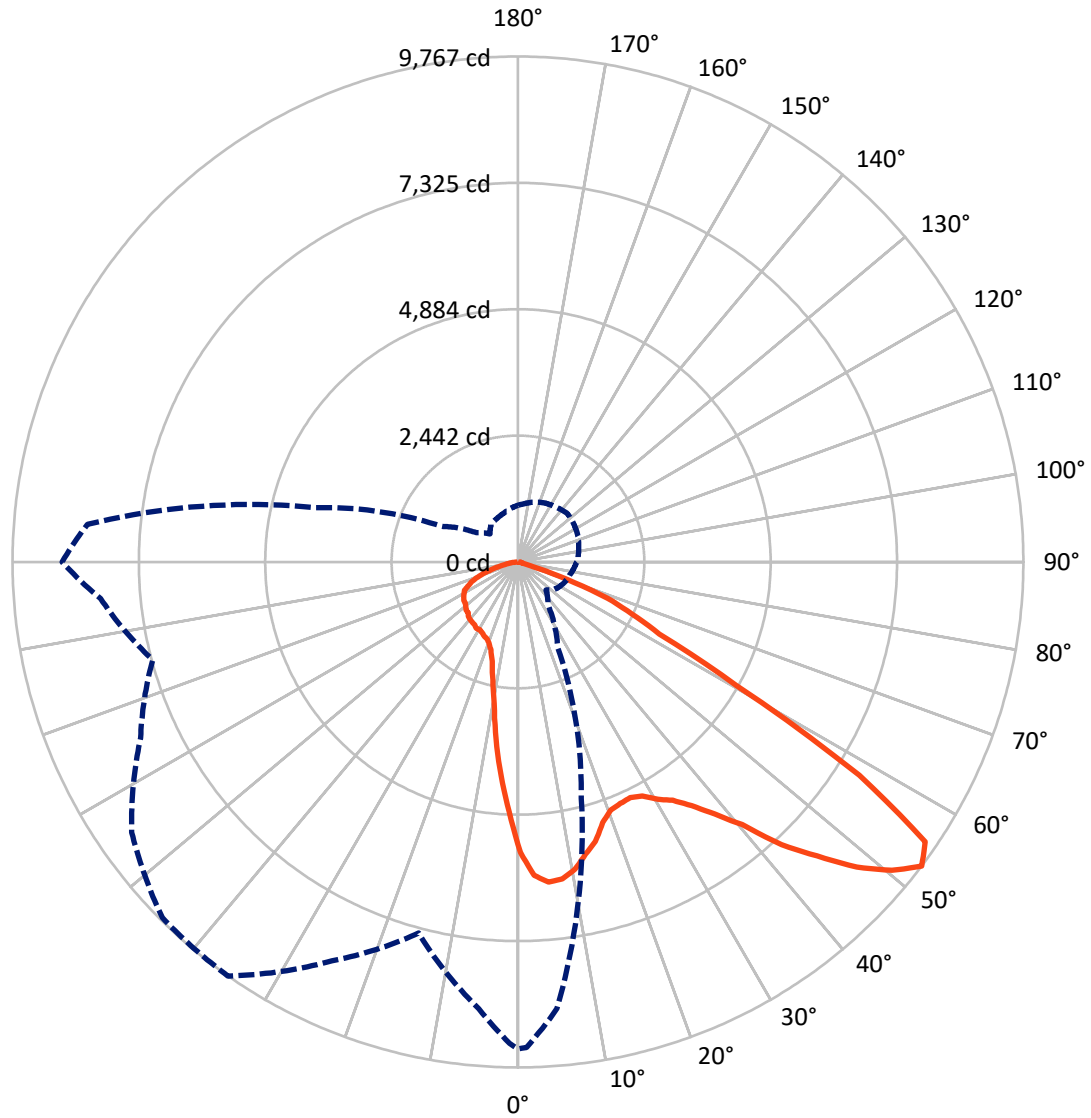
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3811.3	0.0	3811.3
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	8831.7	0.0	8831.7
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	12643.0	0.0	12643.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	3.4
10°-20°	928.0	7.3
20°-30°	1402.1	11.1
30°-40°	2026.1	16.0
40°-50°	2696.4	21.3
50°-60°	3016.0	23.9
60°-70°	1699.8	13.4
70°-80°	378.9	3.0
80°-90°	67.5	0.5
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°	12643.0	100.0
0°-180°	12643.0	100.0

**Coefficient of Utilization**



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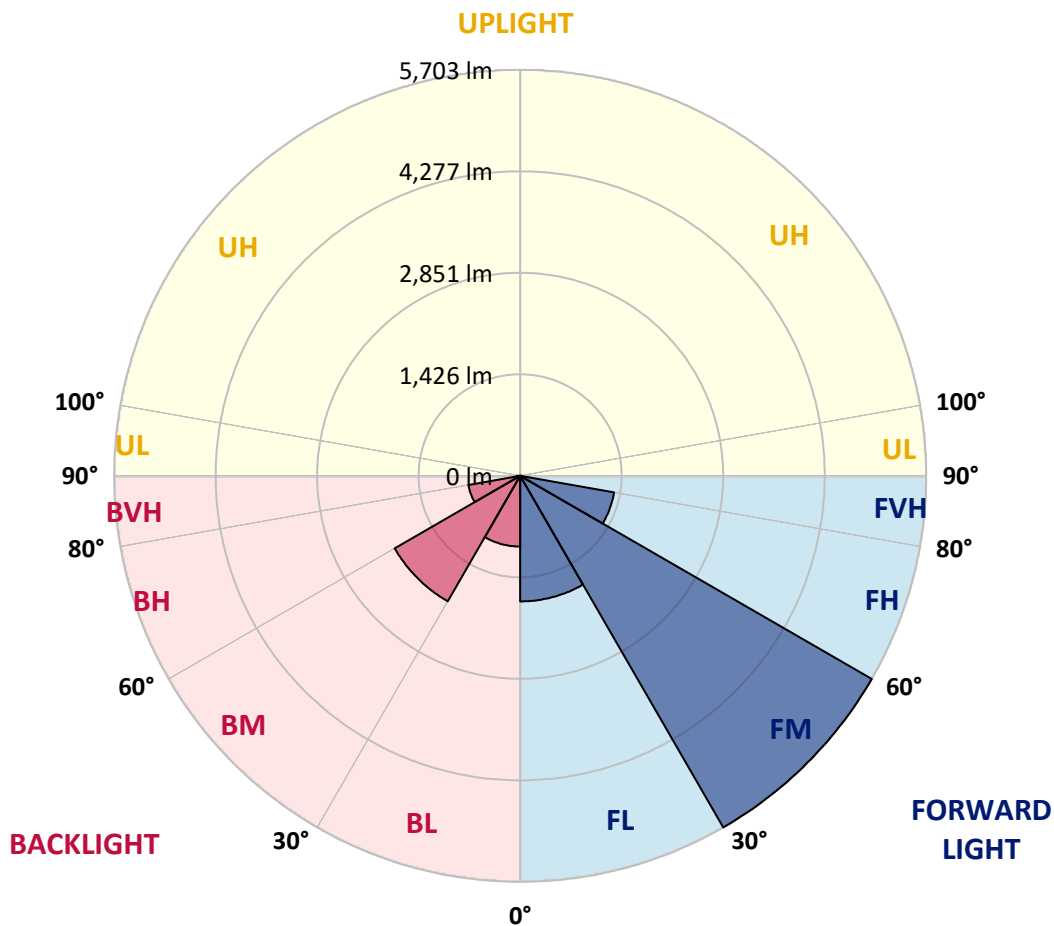
CATALOG NUMBER: GALN-SA3D-827-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.3	14.0			
FM (30°-60°)	5703.0	45.1			
FH (60°-80°)	1340.0	10.6			G1/1800
FVH (80°-90°)	24.4	0.2			G1/100
BL (0°-30°)	993.9	7.9	B2/1000		
BM (30°-60°)	2035.6	16.1	B2/2500		
BH (60°-80°)	738.8	5.8	B2/1000		G2/1000
BVH (80°-90°)	43.0	0.3			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	5704.5	5796.1	5697.2	5521.2	5396.6	5283.0	5163.9	5140.1	4984.3	4956.8	4843.2
5°	5380.1	5360.0	5239.0	5008.2	4753.4	4522.6	4352.1	4187.2	4075.4	3945.3	3936.2
7.5°	4986.2	4868.9	4799.3	4449.3	4134.1	3771.2	3615.5	3364.4	3285.6	3168.4	3107.9
10°	4634.3	4548.2	4385.1	4035.1	3595.3	3355.3	3188.5	3052.9	2961.3	2840.3	2688.2
12.5°	4460.2	4425.4	4242.2	3699.8	3373.6	3117.0	2999.8	2867.8	2712.1	2517.8	2442.7
15°	4491.4	4374.1	4234.9	3635.6	3184.8	2937.5	2750.5	2585.6	2385.9	2200.8	2092.7
17.5°	4724.1	4634.3	4355.8	3675.9	3113.4	2756.0	2417.0	2173.3	1993.7	1827.0	1751.8
20°	5182.2	5052.1	4738.8	3727.3	2959.4	2503.2	2114.7	1814.2	1621.7	1533.8	1508.1
22.5°	5689.8	5612.9	5112.6	3842.7	2836.7	2268.6	1794.0	1493.5	1422.0	1398.2	1445.8
25°	6307.4	6107.6	5693.5	4031.4	2741.4	2068.9	1522.8	1356.0	1319.4	1343.2	1398.2
27.5°	6776.5	6723.4	6100.3	4209.2	2611.3	1828.8	1370.7	1260.7	1271.7	1295.6	1346.9
30°	7333.6	7064.2	6494.3	4332.0	2494.0	1663.9	1264.4	1235.1	1246.1	1286.4	1312.1
32.5°	7668.9	7568.1	6741.7	4517.1	2358.4	1521.0	1181.9	1154.5	1171.0	1231.4	1291.9
35°	8095.9	7896.1	7047.7	4564.7	2263.1	1464.1	1123.3	1103.2	1141.6	1183.8	1251.6
37.5°	8594.3	8456.9	7471.0	4531.7	2211.8	1405.5	1073.8	1064.7	1092.2	1150.8	1229.6
40°	8889.3	8847.2	7692.7	4551.9	2131.2	1354.2	1017.0	1028.0	1084.8	1130.6	1207.6
42.5°	9173.4	8898.5	8020.7	4544.5	2079.9	1284.6	1022.5	1009.7	1053.7	1106.8	1180.1
45°	9235.7	8962.6	8097.7	4493.2	2017.6	1216.8	980.4	985.9	1039.0	1105.0	1152.6
47.5°	9195.4	8993.8	8240.6	4478.6	1958.9	1169.1	918.1	984.0	1015.2	1068.3	1136.1
50°	9167.9	9156.9	8361.6	4548.2	1880.1	1094.0	842.9	960.2	991.4	1044.5	1117.8
52.5°	9409.8	9385.9	8663.9	4731.5	1817.8	1013.4	766.0	899.7	974.9	1026.2	1097.7
55°	9556.4	9451.9	9182.5	4956.8	1713.4	907.1	712.8	824.6	934.6	980.4	1053.7
57.5°	8596.1	8524.7	8306.6	4627.0	1537.4	767.8	646.9	747.7	879.6	951.1	1026.2
60°	7152.2	7040.4	6481.5	3932.5	1134.3	597.4	606.5	687.2	864.9	892.4	980.4
62.5°	6743.5	6466.8	5706.3	3164.7	870.4	513.1	544.2	632.2	788.0	833.8	921.7
65°	5350.8	5145.6	4082.8	2285.1	582.7	445.3	496.6	569.9	679.8	769.6	850.3
67.5°	3349.8	3153.7	2178.8	1081.2	406.8	381.2	443.5	520.4	610.2	690.8	780.6
70°	1750.0	1535.6	1006.0	390.3	280.4	311.5	370.2	443.5	531.4	597.4	667.0
72.5°	652.4	529.6	328.0	168.6	194.2	238.2	300.5	353.7	416.0	496.6	535.1
75°	100.8	86.1	84.3	102.6	131.9	172.3	214.4	267.5	322.5	373.8	399.5
77.5°	47.6	45.8	51.3	67.8	88.0	122.8	155.8	207.1	251.0	284.0	298.7
80°	31.2	29.3	33.0	45.8	66.0	91.6	124.6	159.4	199.7	227.2	223.6
82.5°	18.3	20.2	20.2	31.2	45.8	66.0	89.8	120.9	148.4	172.3	157.6
85°	11.0	9.2	9.2	18.3	31.2	53.1	75.1	51.3	53.1	53.1	60.5
87.5°	3.7	3.7	3.7	1.8	3.7	3.7	5.5	9.2	11.0	12.8	16.5
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°	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	4839.6	4896.4	4876.2	4804.8	4859.7	4868.9	4832.2	4958.7	4982.5	4944.0	4955.0
5°	3923.3	3938.0	3971.0	4040.6	4090.1	4148.7	4148.7	4152.4	4102.9	4227.5	4190.9
7.5°	3056.6	3065.7	3104.2	3252.6	3294.8	3406.6	3454.2	3421.2	3322.3	3280.1	3314.9
10°	2638.8	2585.6	2572.8	2591.1	2686.4	2734.1	2774.4	2763.4	2746.9	2713.9	2677.2
12.5°	2360.2	2321.7	2290.6	2246.6	2252.1	2297.9	2329.1	2303.4	2310.8	2318.1	2329.1
15°	2057.9	2030.4	2013.9	1947.9	1940.6	1971.7	1982.7	1997.4	2024.9	2026.7	2013.9
17.5°	1737.2	1713.4	1750.0	1786.7	1761.0	1762.8	1783.0	1795.8	1788.5	1755.5	1739.0
20°	1517.3	1542.9	1579.6	1614.4	1641.9	1658.4	1665.7	1645.6	1621.7	1553.9	1552.1
22.5°	1453.2	1486.1	1517.3	1570.4	1596.1	1638.2	1599.8	1553.9	1521.0	1488.0	1449.5
25°	1405.5	1433.0	1495.3	1515.5	1564.9	1599.8	1572.3	1526.5	1469.6	1422.0	1392.7
27.5°	1370.7	1401.8	1442.2	1497.1	1535.6	1555.8	1528.3	1510.0	1451.3	1394.5	1352.4
30°	1348.7	1381.7	1455.0	1500.8	1533.8	1550.3	1502.6	1480.6	1438.5	1390.8	1354.2
32.5°	1334.0	1363.4	1425.7	1484.3	1506.3	1506.3	1513.6	1488.0	1429.3	1348.7	1317.6
35°	1286.4	1326.7	1378.0	1445.8	1486.1	1510.0	1473.3	1444.0	1405.5	1323.0	1266.2
37.5°	1258.9	1286.4	1352.4	1416.5	1451.3	1477.0	1462.3	1411.0	1359.7	1291.9	1246.1
40°	1229.6	1273.6	1332.2	1392.7	1431.2	1456.8	1445.8	1385.4	1323.0	1258.9	1227.8
42.5°	1209.4	1238.8	1299.2	1367.0	1412.8	1462.3	1429.3	1354.2	1310.2	1222.3	1187.4
45°	1192.9	1240.6	1304.7	1332.2	1379.9	1431.2	1372.5	1326.7	1275.4	1211.3	1181.9
47.5°	1172.8	1216.8	1258.9	1332.2	1354.2	1378.0	1367.0	1293.7	1249.7	1180.1	1160.0
50°	1165.5	1181.9	1258.9	1299.2	1330.4	1354.2	1324.9	1269.9	1227.8	1156.3	1112.3
52.5°	1136.1	1167.3	1216.8	1269.9	1308.4	1337.7	1290.1	1255.2	1198.4	1123.3	1095.8
55°	1099.5	1117.8	1205.8	1260.7	1280.9	1301.1	1282.7	1225.9	1167.3	1090.3	1062.8
57.5°	1051.8	1094.0	1165.5	1242.4	1268.1	1279.1	1249.7	1203.9	1130.6	1062.8	1018.9
60°	1002.4	1046.3	1125.1	1187.4	1213.1	1253.4	1209.4	1181.9	1097.7	1022.5	974.9
62.5°	952.9	1002.4	1061.0	1139.8	1161.8	1178.3	1167.3	1128.8	1061.0	976.7	918.1
65°	894.2	930.9	1004.2	1044.5	1059.2	1097.7	1059.2	1044.5	984.0	903.4	853.9
67.5°	806.3	837.4	901.6	940.1	951.1	967.5	965.7	949.2	881.4	826.4	782.5
70°	705.5	733.0	773.3	819.1	824.6	844.8	826.4	822.8	778.8	703.7	679.8
72.5°	566.2	591.9	645.0	665.2	667.0	674.4	665.2	652.4	641.4	562.6	538.7
75°	434.3	449.0	474.6	492.9	492.9	502.1	496.6	483.8	454.5	405.0	381.2
77.5°	302.4	317.0	350.0	361.0	359.2	362.8	346.3	333.5	289.5	263.9	243.7
80°	219.9	229.1	245.6	252.9	254.7	260.2	240.1	229.1	203.4	174.1	164.9
82.5°	159.4	164.9	166.8	175.9	175.9	166.8	161.3	150.3	131.9	113.6	106.3
85°	66.0	67.8	69.6	80.6	82.5	99.0	91.6	86.1	75.1	64.1	58.6
87.5°	16.5	18.3	23.8	20.2	23.8	23.8	25.7	29.3	29.3	23.8	23.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	4997.2	5011.8	5198.7	5222.6	5314.2	5407.6	5596.4	5732.0	5841.9	5913.4	5933.6
5°	4229.4	4322.8	4408.9	4548.2	4674.6	4854.2	5061.3	5317.8	5640.4	5805.3	5871.3
7.5°	3311.3	3421.2	3545.8	3681.4	3866.5	4189.0	4465.7	4762.6	5174.9	5345.3	5603.7
10°	2702.9	2825.7	2990.6	3095.1	3318.6	3626.5	3949.0	4291.7	4685.6	4931.2	5229.9
12.5°	2389.5	2490.3	2642.4	2862.3	3029.1	3228.8	3468.9	3901.3	4465.7	4698.5	4903.7
15°	2043.2	2155.0	2330.9	2574.6	2774.4	3012.6	3282.0	3752.9	4354.0	4713.1	4887.2
17.5°	1757.3	1838.0	2023.1	2233.8	2462.8	2723.1	3109.7	3745.6	4471.2	4931.2	5215.2
20°	1559.4	1570.4	1671.2	1850.8	2162.3	2501.3	3003.4	3708.9	4846.9	5306.9	5666.0
22.5°	1434.8	1423.8	1425.7	1577.8	1795.8	2283.3	2836.7	3833.5	5273.9	5904.2	6146.1
25°	1372.5	1343.2	1324.9	1357.9	1555.8	2024.9	2710.2	3998.5	5733.8	6397.2	6694.0
27.5°	1339.5	1288.2	1251.6	1257.1	1401.8	1894.8	2631.4	4069.9	6190.1	7084.4	7188.8
30°	1326.7	1262.6	1209.4	1191.1	1286.4	1713.4	2462.8	4192.7	6598.7	7461.8	7551.6
32.5°	1280.9	1202.1	1150.8	1134.3	1172.8	1553.9	2341.9	4280.7	6959.7	7872.3	7841.2
35°	1227.8	1161.8	1097.7	1066.5	1094.0	1451.3	2244.8	4238.5	7384.9	8191.2	8174.7
37.5°	1222.3	1136.1	1083.0	1031.7	1029.9	1324.9	2112.8	4278.8	7656.1	8762.9	8537.5
40°	1174.6	1119.6	1050.0	1007.9	984.0	1260.7	1984.6	4183.5	8053.7	8993.8	8772.1
42.5°	1176.4	1094.0	1033.5	984.0	960.2	1167.3	1896.6	4157.9	8193.0	9369.4	8882.0
45°	1147.1	1066.5	1015.2	956.6	943.7	1095.8	1812.3	4038.8	8438.6	9387.8	8744.6
47.5°	1117.8	1046.3	991.4	921.7	892.4	1070.2	1746.3	3939.8	8310.3	9215.5	8554.0
50°	1097.7	1015.2	963.9	914.4	831.9	1026.2	1660.2	3916.0	8130.7	8982.8	8200.3
52.5°	1062.8	989.5	936.4	897.9	766.0	985.9	1627.2	4055.3	8350.6	8808.7	8097.7
55°	1029.9	954.7	886.9	811.8	711.0	879.6	1535.6	4185.4	8671.3	9210.0	8563.2
57.5°	995.0	923.6	850.3	760.5	657.9	769.6	1440.3	4209.2	8070.2	8511.9	8128.9
60°	949.2	857.6	802.6	685.3	601.1	637.7	1141.6	3710.8	6259.7	7108.2	7121.0
62.5°	897.9	799.0	751.3	613.9	542.4	549.7	930.9	3118.9	5077.8	5884.1	6234.1
65°	830.1	734.8	678.0	568.1	500.3	476.4	681.7	2285.1	3857.4	4773.6	5171.2
67.5°	742.2	652.4	580.9	494.8	447.1	408.6	465.4	1286.4	2277.8	3205.0	3325.9
70°	648.7	571.7	496.6	425.1	372.0	344.5	340.8	569.9	1088.5	1724.4	1962.6
72.5°	511.3	456.3	395.8	342.7	307.9	267.5	243.7	236.4	368.3	701.8	969.4
75°	366.5	320.7	285.9	251.0	225.4	203.4	185.1	168.6	153.9	175.9	241.9
77.5°	230.9	214.4	186.9	177.8	163.1	157.6	150.3	141.1	130.1	122.8	122.8
80°	155.8	144.8	135.6	133.8	128.3	126.4	128.3	119.1	108.1	99.0	102.6
82.5°	104.5	102.6	100.8	99.0	100.8	102.6	106.3	104.5	95.3	89.8	91.6
85°	62.3	66.0	69.6	73.3	80.6	71.5	58.6	49.5	44.0	40.3	38.5
87.5°	23.8	33.0	29.3	27.5	29.3	27.5	25.7	23.8	20.2	18.3	18.3
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	6067.3	6104.0	6135.1	6127.8	6063.7	5977.5	5942.7	5765.0	5728.3	5704.5
5°	6149.8	6362.4	6408.2	6380.7	6213.9	6003.2	5798.0	5537.7	5385.6	5380.1
7.5°	5997.7	6259.7	6342.2	6404.5	6182.8	5816.3	5464.4	5074.1	4978.8	4986.2
10°	5611.0	6028.8	6232.3	6296.4	6041.7	5724.7	5237.2	4841.4	4638.0	4634.3
12.5°	5396.6	5724.7	5781.5	5871.3	5796.1	5475.4	5105.3	4661.8	4463.9	4460.2
15°	5206.1	5422.3	5438.8	5565.2	5605.5	5389.3	5140.1	4667.3	4507.9	4491.4
17.5°	5372.8	5222.6	5160.3	5176.7	5295.9	5374.7	5341.7	4978.8	4815.7	4724.1
20°	5484.6	5149.3	4960.5	4978.8	5119.9	5407.6	5642.2	5429.6	5171.2	5182.2
22.5°	5783.3	5160.3	4865.2	4845.1	5068.6	5579.9	5981.2	5999.5	5750.3	5689.8
25°	6230.4	5286.7	4835.9	4830.4	5044.8	5765.0	6377.0	6673.9	6419.2	6307.4
27.5°	6589.6	5484.6	4927.5	4945.9	5119.9	5915.2	6714.2	7108.2	6913.9	6776.5
30°	6904.8	5689.8	5055.8	4971.5	5321.5	5994.0	6859.0	7602.9	7447.2	7333.6
32.5°	7034.9	5981.2	5259.2	5119.9	5488.3	6089.3	7159.5	8083.1	7949.3	7668.9
35°	7254.8	6144.3	5369.2	5358.2	5779.6	6318.4	7300.6	8400.1	8345.1	8095.9
37.5°	7430.7	6309.2	5759.5	5638.5	6179.1	6703.2	7527.8	8838.0	8711.6	8594.3
40°	7566.3	6604.2	6124.1	6283.6	6670.2	7053.2	7736.7	8865.5	9230.2	8889.3
42.5°	7441.7	6868.1	6723.4	7104.5	7471.0	7452.7	7760.5	9078.1	9351.1	9173.4
45°	7410.5	7315.2	7670.7	8017.1	8101.4	7784.4	7590.1	8843.5	9314.5	9235.7
47.5°	7335.4	7755.0	8374.4	8938.8	8810.5	8006.1	7386.7	8801.4	9336.5	9195.4
50°	7309.7	7850.3	8894.8	9444.6	9367.6	8198.5	7291.4	8530.2	9180.7	9167.9
52.5°	7307.9	8046.4	9111.1	9719.5	9767.1	8502.7	7421.5	8667.6	9301.6	9409.8
55°	7390.4	7984.1	9083.6	9567.4	9549.0	8367.1	7436.2	8759.2	9450.1	9556.4
57.5°	6970.7	7152.2	7496.7	7879.6	7780.7	6930.4	6640.9	8097.7	8673.1	8596.1
60°	6019.7	5451.6	5063.1	5044.8	4852.4	4586.7	5435.1	7227.3	7227.3	7152.2
62.5°	5272.0	3578.8	3074.9	2932.0	3069.4	3375.4	5242.7	7029.4	6829.6	6743.5
65°	4610.5	2732.2	2222.8	2182.5	2420.7	2882.5	4740.6	5988.5	5636.7	5350.8
67.5°	2966.8	2001.1	1652.9	1581.4	1869.1	2116.5	3155.5	3683.3	3461.5	3349.8
70°	1913.1	1302.9	919.9	863.1	974.9	1304.7	2015.7	2147.7	1825.1	1750.0
72.5°	905.2	562.6	322.5	265.7	298.7	498.4	797.1	857.6	712.8	652.4
75°	287.7	207.1	131.9	113.6	108.1	128.3	183.2	141.1	102.6	100.8
77.5°	128.3	122.8	104.5	88.0	77.0	64.1	53.1	44.0	45.8	47.6
80°	106.3	97.1	86.1	77.0	64.1	49.5	38.5	29.3	29.3	31.2
82.5°	93.5	84.3	75.1	64.1	55.0	40.3	29.3	20.2	18.3	18.3
85°	40.3	47.6	51.3	55.0	44.0	33.0	20.2	12.8	11.0	11.0
87.5°	16.5	14.7	12.8	11.0	9.2	9.2	7.3	5.5	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)