

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: P458091

Luminaire Tested: **GALN-SA9C-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45945 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

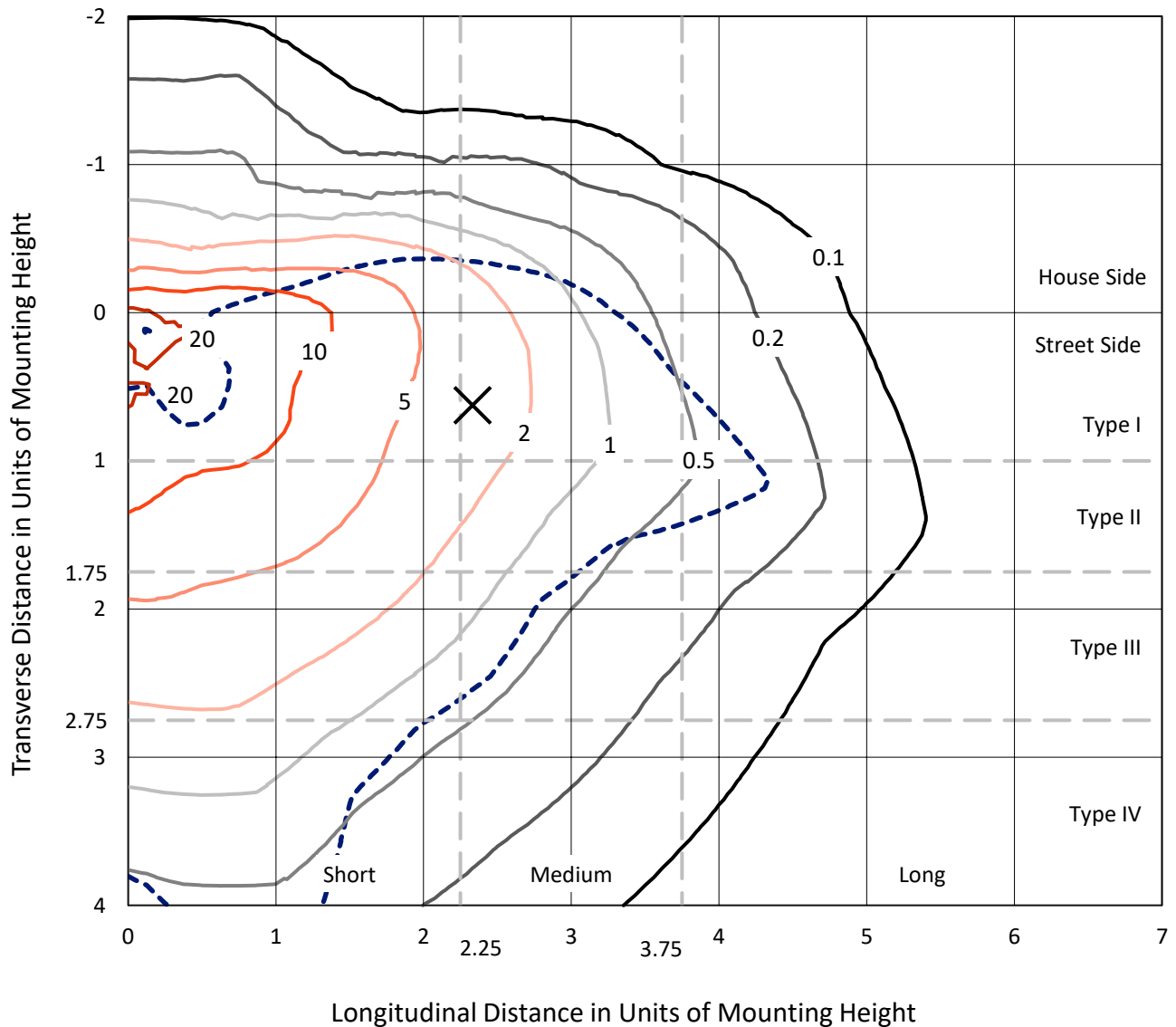
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458091  
 CATALOG NUMBER: GALN-SA9C-727-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

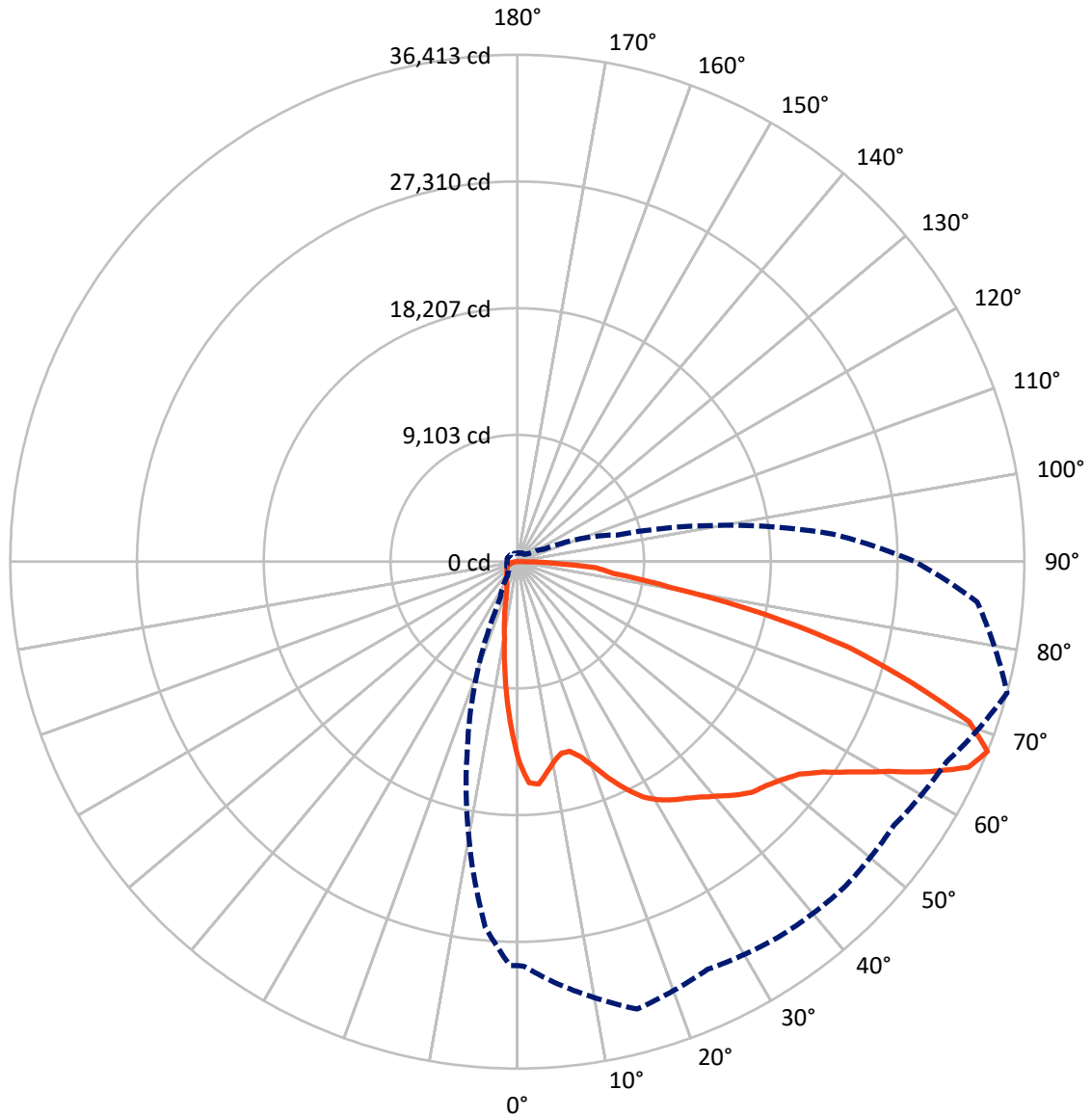
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P458091  
CATALOG NUMBER: GALN-SA9C-727-U-SLL

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P458091

CATALOG NUMBER: GALN-SA9C-727-U-SLL

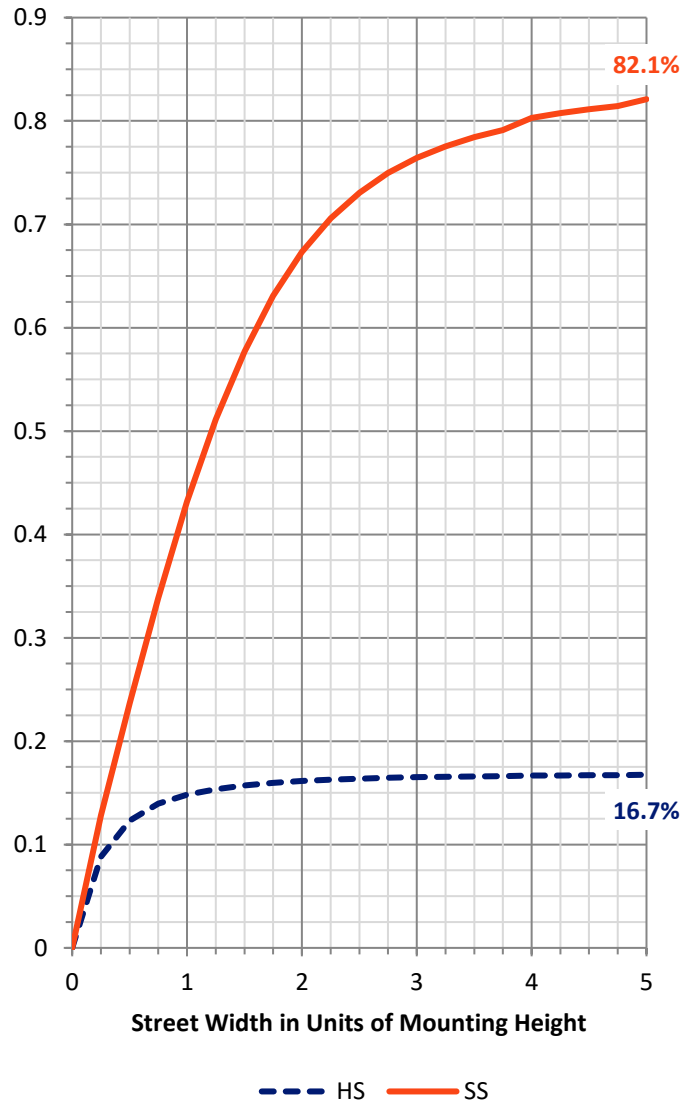
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7765.7	0.0	7765.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	38179.3	0.0	38179.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	45945.0	0.0	45945.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1088.7	2.4
10°-20°	2270.6	4.9
20°-30°	3267.4	7.1
30°-40°	4706.0	10.2
40°-50°	6610.6	14.4
50°-60°	9219.5	20.1
60°-70°	10961.4	23.9
70°-80°	6455.6	14.1
80°-90°	1365.1	3.0
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°	45945.0	100.0
0°-180°	45945.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458091

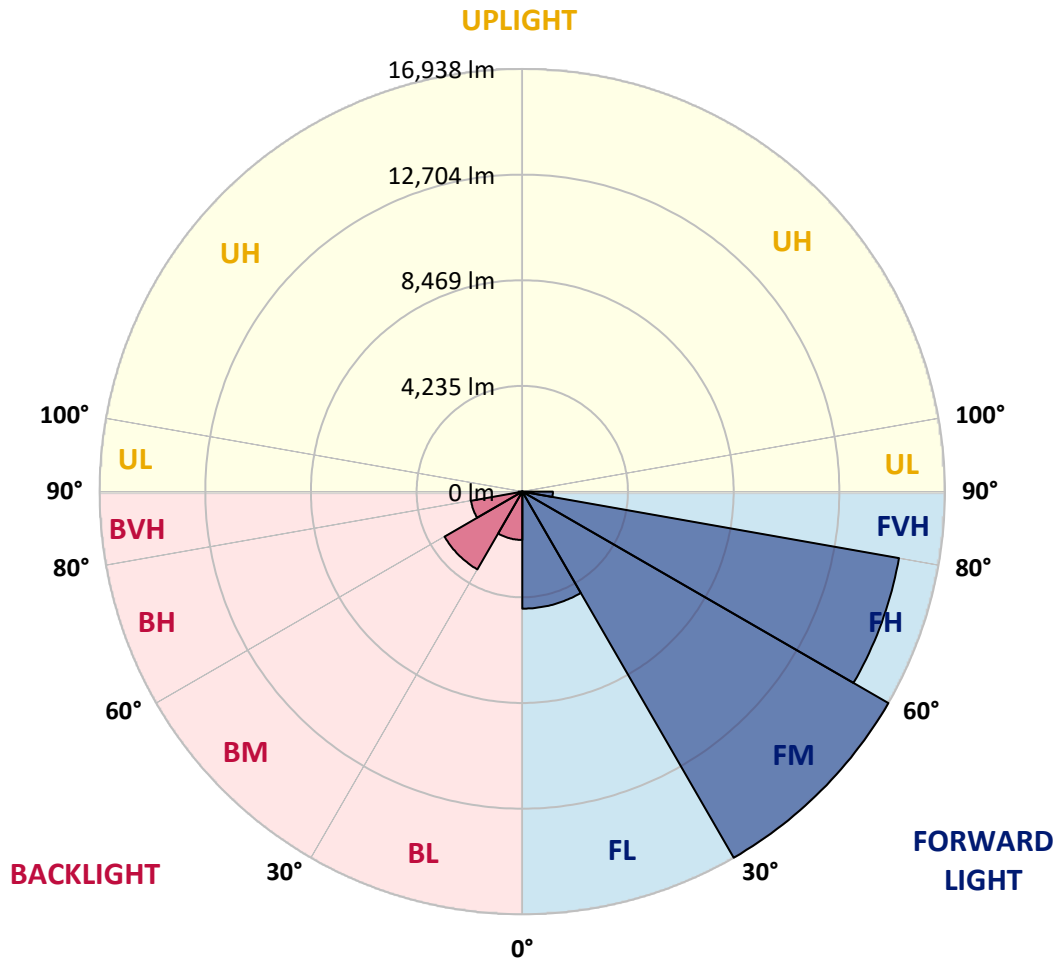
CATALOG NUMBER: GALN-SA9C-727-U-SLL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4689.7	10.2			
FM	(30°-60°)	16938.2	36.9			
FH	(60°-80°)	15327.4	33.4			G5
FVH	(80°-90°)	1223.9	2.7			G5
BL	(0°-30°)	1937.0	4.2	B3/2500		
BM	(30°-60°)	3597.9	7.8	B3/5000		
BH	(60°-80°)	2089.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	141.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





REPORT NUMBER: P458091

CATALOG NUMBER: GALN-SA9C-727-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3
2.5°	15476.8	15497.5	15630.0	16016.0	16281.2	16378.4	16446.2	16319.5	16195.7	15895.2	15441.5
5°	15429.7	15550.5	15895.2	16761.4	17445.0	17739.6	17828.0	17447.9	16820.3	16048.4	15120.3
7.5°	14528.1	14690.2	15220.5	16673.0	17878.1	18567.5	18476.2	17789.7	16658.3	15282.4	13986.0
10°	13458.6	13638.4	14277.7	16033.7	17586.4	18535.1	18535.1	17698.3	16195.7	14560.5	13066.8
12.5°	12610.1	12798.7	13529.3	15376.7	16979.4	17878.1	18028.3	17309.4	15862.8	14103.9	12462.8
15°	12330.2	12512.9	13299.5	14978.9	16337.2	16885.2	16935.3	16699.5	15700.8	14136.3	12436.3
17.5°	12677.9	12913.6	13709.1	15096.8	15747.9	15780.3	15818.6	16004.2	15718.4	14728.5	12972.5
20°	13682.6	13935.9	14766.8	15476.8	15232.3	14896.4	14917.0	15394.3	15927.6	15706.7	14254.1
22.5°	15132.1	15353.1	16204.6	16145.6	15014.3	14321.9	14177.5	14843.4	16237.0	16926.4	15618.3
25°	16696.6	16955.9	17934.0	17138.5	15076.1	13980.1	13888.8	14519.3	16558.1	18066.6	17194.5
27.5°	18487.9	18741.3	19513.3	18140.3	15400.2	13953.6	13844.6	14489.8	16846.9	19121.4	18700.1
30°	19819.7	20052.4	20576.9	18982.9	15798.0	14130.4	13994.9	14722.6	17094.4	19843.2	20167.3
32.5°	20865.6	21107.2	21393.0	19507.4	16322.4	14451.5	14201.1	15146.9	17418.4	20394.2	21254.5
35°	21955.7	22241.5	22220.9	19972.9	16811.5	14822.8	14578.2	15759.7	17928.2	20874.4	22633.4
37.5°	23337.5	23452.4	23305.1	20391.2	17397.8	15491.6	15356.0	16670.1	18652.9	21454.9	24245.0
40°	24740.0	24969.8	24212.6	20898.0	18110.8	16749.6	16734.9	18016.5	19513.3	22135.4	25806.5
42.5°	25942.0	26136.5	25061.1	21339.9	18974.1	18284.7	18396.6	19822.6	20641.7	22925.1	27061.6
45°	26846.6	27020.4	25844.8	21767.2	20111.3	20058.3	20718.3	21758.3	22064.7	23635.1	27798.2
47.5°	27615.5	27783.5	26389.9	22415.3	21516.7	22176.7	23325.7	23776.5	23281.6	24041.7	28623.2
50°	28263.7	28313.8	26764.1	23187.3	23260.9	24772.4	25886.1	26177.8	24483.6	24625.1	29339.1
52.5°	28938.4	28873.6	27409.3	24159.5	25146.6	27235.5	28045.7	28349.2	25635.6	25344.0	30382.1
55°	30449.9	30511.7	28855.9	25385.2	27052.8	29654.4	30720.9	30429.2	26911.4	26666.8	31707.9
57.5°	32276.6	32223.5	30891.8	27303.2	28994.4	31905.3	32700.8	32232.4	28614.3	28484.7	33051.4
60°	32986.6	33057.3	32594.8	29365.6	30909.5	33876.4	34689.6	33961.8	30656.1	30597.2	34065.0
62.5°	32273.6	32671.4	32983.7	31201.2	32541.7	35326.0	36133.3	35302.4	32786.3	33213.5	34775.0
65°	30853.5	30938.9	32002.6	32756.8	33328.4	35564.6	35985.9	35544.0	34565.8	35597.0	34742.6
67.5°	29009.1	29082.8	30329.1	33266.5	32314.9	32854.0	33148.7	33019.0	34014.9	36413.1	33142.8
70°	27253.1	27194.2	28511.2	31967.2	28131.1	27312.1	27556.6	27150.0	29350.9	34418.5	30005.0
72.5°	23835.5	24047.6	25461.8	28355.1	22273.9	20942.2	21475.5	20423.7	22574.4	29477.6	24354.0
75°	18670.6	18720.7	21080.7	23797.2	16802.7	14702.0	15423.8	14984.8	17291.8	24589.7	16817.4
77.5°	12928.3	12816.3	15353.1	18175.6	11982.5	10762.8	10774.6	10565.4	12073.9	18104.9	11425.7
80°	8211.3	8040.4	9610.8	11228.3	8234.9	8809.4	8520.7	8511.8	7860.7	11169.4	6909.0
82.5°	4437.1	4625.7	6072.3	7038.7	5907.3	6808.9	6240.2	6057.6	5394.6	6991.5	4419.4
85°	2021.2	2197.9	3238.0	4787.7	4487.2	4537.3	3031.7	3576.8	4463.6	5677.5	2360.0
87.5°	197.4	253.4	668.8	2259.8	1532.1	1208.0	450.8	869.2	1122.5	2018.2	188.6
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: P458091

CATALOG NUMBER: GALN-SA9C-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3
2.5°	15255.9	15102.7	14581.2	14151.0	13694.3	13346.7	12892.9	12589.5	12380.3	12065.0	12026.7
5°	14554.7	14180.5	13273.0	12347.9	11549.4	10948.4	10338.5	9778.7	9448.7	9345.6	9213.0
7.5°	13373.2	12742.7	11576.0	10515.3	9599.0	8703.3	8013.9	7524.8	7197.8	7006.3	6776.5
10°	12400.9	11670.2	10250.1	8950.8	8196.6	7639.7	7032.8	6508.3	6104.7	5760.0	5571.4
12.5°	11746.8	10921.9	9325.0	8270.2	7686.9	7094.7	6384.6	5795.3	5200.2	4808.3	4640.4
15°	11549.4	10677.3	9039.2	7931.4	7094.7	6319.8	5524.3	4755.3	4166.0	3794.8	3671.1
17.5°	12032.6	10977.9	9036.3	7480.6	6399.3	5474.2	4454.8	3732.9	3129.0	2852.0	2763.6
20°	12934.2	11555.3	9062.8	7035.7	5645.1	4342.8	3240.9	2648.7	2360.0	2242.1	2197.9
22.5°	14192.3	12436.3	9142.3	6596.7	4820.1	3335.2	2427.7	2127.2	2024.1	2003.5	1994.6
25°	15742.0	13526.4	9410.4	6201.9	4124.8	2545.6	2030.0	1894.5	1835.5	1814.9	1812.0
27.5°	17168.0	14934.7	9734.5	5863.1	3453.0	2195.0	1835.5	1720.6	1661.7	1658.8	1664.7
30°	18455.5	16113.2	10005.6	5483.0	2943.3	1950.4	1708.8	1593.9	1538.0	1535.0	1552.7
32.5°	19569.2	17082.6	10205.9	5108.9	2660.5	1800.2	1593.9	1470.2	1423.1	1414.2	1423.1
35°	20759.5	18048.9	10114.6	4817.2	2498.5	1676.4	1508.5	1387.7	1331.7	1305.2	1305.2
37.5°	22117.8	19044.8	9958.4	4575.6	2424.8	1573.3	1434.8	1317.0	1261.0	1234.5	1231.5
40°	23599.8	20040.6	9743.4	4360.5	2351.1	1511.4	1384.8	1261.0	1193.2	1166.7	1160.8
42.5°	24907.9	20892.1	9566.6	4219.1	2230.3	1523.2	1340.6	1219.8	1134.3	1099.0	1096.0
45°	26045.2	21749.5	9534.2	4136.6	2130.2	1505.6	1328.8	1187.4	1087.2	1048.9	1043.0
47.5°	26934.9	22642.2	9719.8	4089.4	2021.2	1411.3	1405.4	1166.7	1045.9	1004.7	998.8
50°	28019.2	23909.1	10144.1	3992.2	1921.0	1322.9	1484.9	1163.8	1013.5	960.5	945.8
52.5°	29462.9	25559.0	10718.6	3818.4	1776.6	1240.4	1417.2	1163.8	975.2	922.2	904.5
55°	31646.1	27662.7	11281.3	3573.8	1573.3	1131.4	1278.7	1128.4	919.2	872.1	860.3
57.5°	33092.7	29200.6	11640.8	3235.0	1319.9	1051.8	1101.9	1072.4	863.3	813.2	813.2
60°	33166.3	29613.1	11469.9	2807.8	1160.8	978.2	957.5	1081.3	813.2	760.1	754.2
62.5°	32317.8	28602.5	10580.1	2424.8	1075.4	898.6	866.2	948.7	763.1	710.1	701.2
65°	30992.0	26024.5	9036.3	2242.1	1028.3	827.9	780.8	777.8	710.1	660.0	648.2
67.5°	28555.4	22742.4	7424.6	2136.1	1004.7	748.4	704.2	689.4	648.2	606.9	601.0
70°	24963.9	19047.7	5954.4	2091.9	992.9	665.9	630.5	612.8	577.5	545.1	542.1
72.5°	19421.9	15450.3	4914.4	2062.4	987.0	589.3	551.0	527.4	506.8	477.3	477.3
75°	13950.7	11366.8	3750.6	1859.1	913.3	506.8	465.5	450.8	421.3	397.7	403.6
77.5°	8794.7	7654.5	2469.0	1367.1	707.1	406.6	371.2	362.4	338.8	306.4	327.0
80°	5939.7	5382.9	1440.7	860.3	444.9	297.6	285.8	282.8	256.3	221.0	223.9
82.5°	4042.3	3965.7	748.4	489.1	256.3	173.8	167.9	173.8	144.4	117.9	117.9
85°	1579.2	2156.7	353.6	191.5	82.5	26.5	38.3	41.2	23.6	11.8	14.7
87.5°	29.5	221.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3
2.5°	11967.8	11941.3	11985.5	11796.9	11835.2	11905.9	11941.3	11961.9	12253.6	12185.8	12371.5
5°	9336.8	9310.3	9481.1	9504.7	9593.1	9575.4	9660.9	9681.5	9787.6	9825.9	10085.1
7.5°	6791.2	6906.1	7100.5	7200.7	7351.0	7398.1	7353.9	7462.9	7242.0	7401.1	7448.2
10°	5456.5	5318.0	5235.6	5465.4	5494.8	5712.8	5624.5	5553.7	5683.4	5689.3	5813.0
12.5°	4543.2	4245.6	4048.2	4113.0	4183.7	4278.0	4292.7	4434.2	4528.4	4616.8	4690.5
15°	3562.1	3458.9	3279.2	3190.8	3291.0	3329.3	3420.6	3538.5	3638.7	3665.2	3765.4
17.5°	2734.2	2751.8	2722.4	2669.3	2731.2	2760.7	2766.6	2769.5	2796.0	2778.3	2925.7
20°	2200.9	2262.7	2336.4	2348.2	2368.8	2383.5	2357.0	2256.9	2259.8	2321.7	2368.8
22.5°	1991.7	2003.5	2086.0	2112.5	2177.3	2150.8	2074.2	2027.0	2021.2	2035.9	2059.5
25°	1826.7	1844.4	1903.3	1944.5	1994.6	1947.5	1891.5	1847.3	1841.4	1856.2	1879.7
27.5°	1679.4	1705.9	1758.9	1800.2	1847.3	1803.1	1750.1	1711.8	1708.8	1705.9	1720.6
30°	1561.5	1591.0	1629.3	1676.4	1708.8	1670.5	1620.5	1599.8	1596.9	1591.0	1596.9
32.5°	1443.7	1490.8	1529.1	1552.7	1585.1	1555.6	1517.3	1505.6	1484.9	1467.3	1458.4
35°	1311.1	1361.2	1420.1	1449.6	1482.0	1452.5	1426.0	1375.9	1340.6	1337.6	1343.5
37.5°	1234.5	1255.1	1302.3	1352.3	1384.8	1370.0	1319.9	1269.8	1261.0	1261.0	1266.9
40°	1166.7	1175.6	1196.2	1261.0	1319.9	1275.7	1213.9	1199.1	1199.1	1196.2	1199.1
42.5°	1099.0	1107.8	1107.8	1157.9	1252.2	1181.5	1134.3	1134.3	1134.3	1137.3	1146.1
45°	1037.1	1040.0	1037.1	1072.4	1160.8	1101.9	1069.5	1078.3	1084.2	1090.1	1096.0
47.5°	984.1	987.0	984.1	1013.5	1057.7	1034.1	1016.5	1028.3	1040.0	1048.9	1054.8
50°	936.9	934.0	939.9	957.5	978.2	984.1	972.3	990.0	995.8	1007.6	1022.4
52.5°	895.7	892.7	898.6	907.5	936.9	936.9	936.9	951.7	963.4	975.2	995.8
55°	848.5	851.5	860.3	872.1	910.4	904.5	907.5	919.2	931.0	948.7	960.5
57.5°	804.3	810.2	822.0	839.7	878.0	875.0	878.0	883.9	898.6	907.5	919.2
60°	754.2	766.0	780.8	792.6	830.9	827.9	842.6	854.4	863.3	863.3	869.2
62.5°	704.2	721.8	736.6	745.4	786.7	789.6	810.2	819.1	825.0	819.1	827.9
65°	654.1	680.6	686.5	698.3	739.5	742.5	766.0	786.7	780.8	774.9	789.6
67.5°	604.0	636.4	633.5	648.2	689.4	695.3	715.9	751.3	739.5	733.6	745.4
70°	548.0	571.6	574.5	583.4	639.3	630.5	662.9	695.3	686.5	689.4	689.4
72.5°	486.1	506.8	506.8	524.4	583.4	568.6	595.1	630.5	630.5	627.6	627.6
75°	412.5	424.3	436.1	462.6	524.4	506.8	524.4	556.8	562.7	556.8	556.8
77.5°	332.9	350.6	356.5	391.9	436.1	433.1	450.8	465.5	477.3	471.4	471.4
80°	235.7	253.4	277.0	315.3	341.8	350.6	359.4	371.2	377.1	377.1	383.0
82.5°	132.6	159.1	179.7	218.0	229.8	274.0	271.1	279.9	271.1	238.6	265.2
85°	29.5	56.0	79.5	100.2	114.9	159.1	167.9	188.6	156.2	144.4	144.4
87.5°	0.0	0.0	0.0	0.0	0.0	23.6	47.1	64.8	56.0	47.1	47.1
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: P458091

CATALOG NUMBER: GALN-SA9C-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3	14354.3
2.5°	12527.6	12783.9	13093.3	13626.6	14000.8	14404.4	14811.0	15244.1	15359.0	15476.8
5°	10155.8	10659.7	10933.7	11649.6	12400.9	13355.5	14136.3	14990.7	15347.2	15429.7
7.5°	7692.8	8034.5	8753.4	9478.2	10409.2	11411.0	12607.2	13938.9	14354.3	14528.1
10°	6098.8	6564.3	7194.8	7972.6	8788.8	9867.1	11216.5	12772.1	13361.4	13458.6
12.5°	5191.4	5709.9	6396.4	7218.4	7990.3	8803.5	10164.7	11770.4	12400.9	12610.1
15°	4151.3	4778.9	5571.4	6437.6	7277.3	8167.1	9546.0	11357.9	12085.7	12330.2
17.5°	3261.5	3768.3	4625.7	5565.5	6561.4	7686.9	9416.3	11555.3	12451.0	12677.9
20°	2495.5	2857.9	3579.7	4572.6	5739.4	7212.5	9448.7	12300.7	13373.2	13682.6
22.5°	2156.7	2342.3	2781.3	3727.1	5032.3	6800.0	9581.3	13323.1	14616.5	15132.1
25°	1953.4	2050.6	2298.1	2916.8	4357.6	6399.3	9884.8	14699.0	16354.8	16696.6
27.5°	1779.6	1850.3	2003.5	2448.4	3744.7	6028.1	10238.3	16225.2	17978.2	18487.9
30°	1614.6	1708.8	1853.2	2174.4	3352.9	5689.3	10683.2	17462.6	19345.3	19819.7
32.5°	1487.9	1582.2	1714.7	1982.9	3019.9	5332.8	10948.4	18549.8	20462.0	20865.6
35°	1384.8	1464.3	1602.8	1829.6	2766.6	5061.7	10895.4	19413.1	21543.2	21955.7
37.5°	1311.1	1378.9	1517.3	1685.3	2575.1	4778.9	10868.8	20553.3	22860.2	23337.5
40°	1243.3	1314.0	1440.7	1591.0	2383.5	4445.9	10883.6	21684.7	24262.7	24740.0
42.5°	1190.3	1269.8	1373.0	1564.5	2186.1	4177.8	10883.6	22668.7	25482.4	25942.0
45°	1146.1	1231.5	1331.7	1561.5	2030.0	3974.5	10809.9	23514.3	26454.7	26846.6
47.5°	1107.8	1202.1	1346.5	1508.5	1991.7	3827.2	10745.1	24192.0	27247.3	27615.5
50°	1081.3	1193.2	1431.9	1446.6	2003.5	3783.0	11057.4	25046.4	27945.5	28263.7
52.5°	1060.7	1196.2	1428.9	1355.3	1982.9	3812.5	11708.5	26381.0	28914.9	28938.4
55°	1019.4	1193.2	1355.3	1252.2	1897.4	3862.6	12545.3	28319.7	30432.2	30449.9
57.5°	978.2	1160.8	1258.1	1163.8	1723.6	3862.6	13552.9	30155.2	32261.8	32276.6
60°	936.9	1208.0	1104.9	1087.2	1496.7	3791.9	14616.5	30962.5	32836.4	32986.6
62.5°	895.7	1216.8	987.0	1019.4	1331.7	3621.0	15409.1	30069.8	32058.5	32273.6
65°	848.5	981.1	910.4	948.7	1246.3	3335.2	15158.6	28434.6	30597.2	30853.5
67.5°	792.6	830.9	827.9	875.0	1216.8	2913.9	13838.7	26366.3	29023.9	29009.1
70°	724.8	745.4	754.2	804.3	1160.8	2586.8	11531.8	23682.2	26923.2	27253.1
72.5°	654.1	671.8	680.6	724.8	1104.9	2401.2	8950.8	19984.7	23319.9	23835.5
75°	577.5	589.3	601.0	639.3	1045.9	2127.2	6375.8	15255.9	17860.4	18670.6
77.5°	497.9	497.9	512.7	551.0	880.9	1756.0	4278.0	10700.9	12100.4	12928.3
80°	403.6	406.6	400.7	441.9	648.2	1202.1	2430.7	7147.7	8052.2	8211.3
82.5°	309.4	300.5	303.5	324.1	483.2	819.1	1296.4	4440.1	4525.5	4437.1
85°	194.5	194.5	188.6	212.1	309.4	427.2	707.1	2719.4	2124.3	2021.2
87.5°	79.5	64.8	73.7	85.4	147.3	173.8	277.0	559.8	215.1	197.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)