

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: P527770

Luminaire Tested: **GALN-SA2D-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527770  
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-SA2D-740-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 11586 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

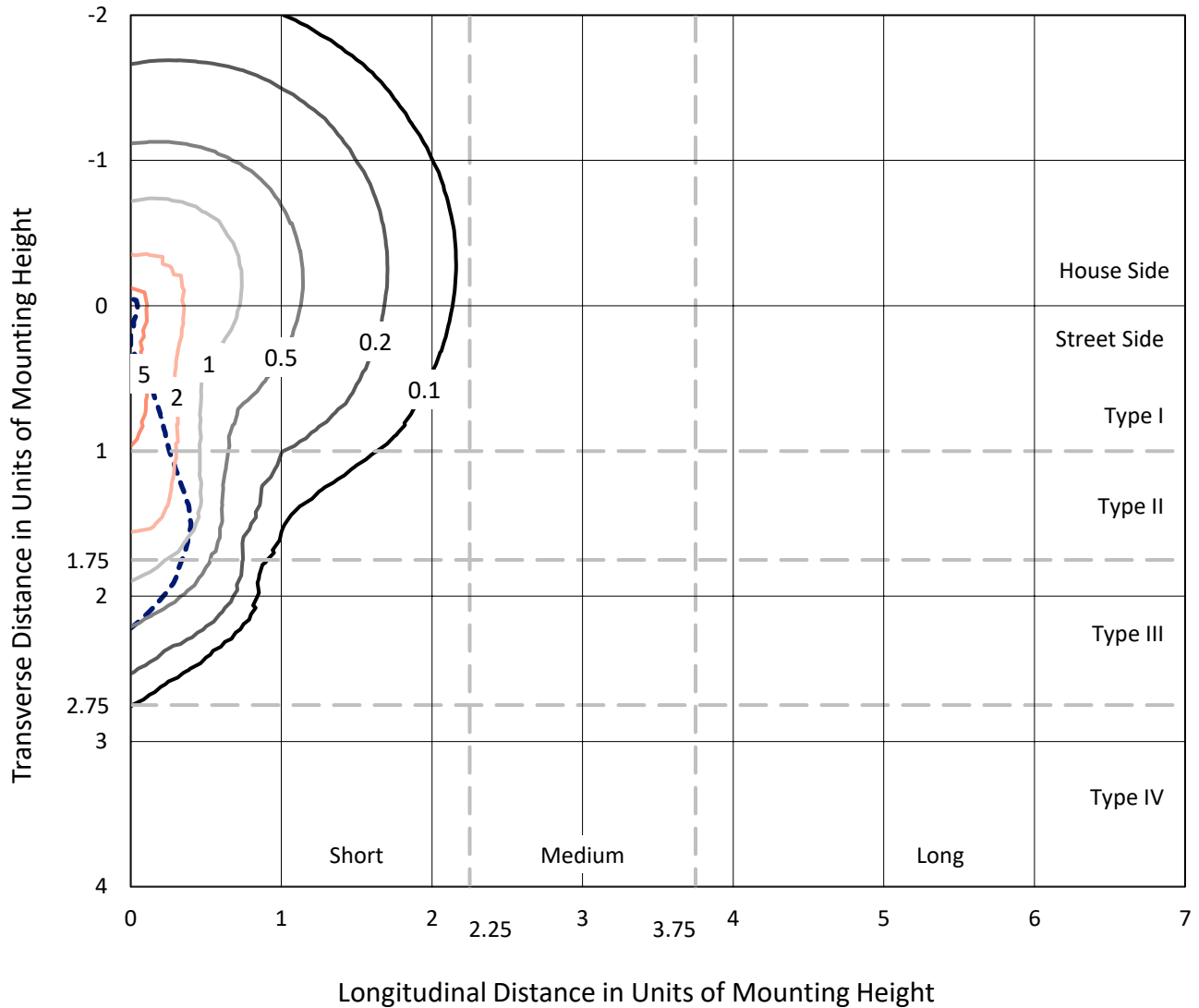
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

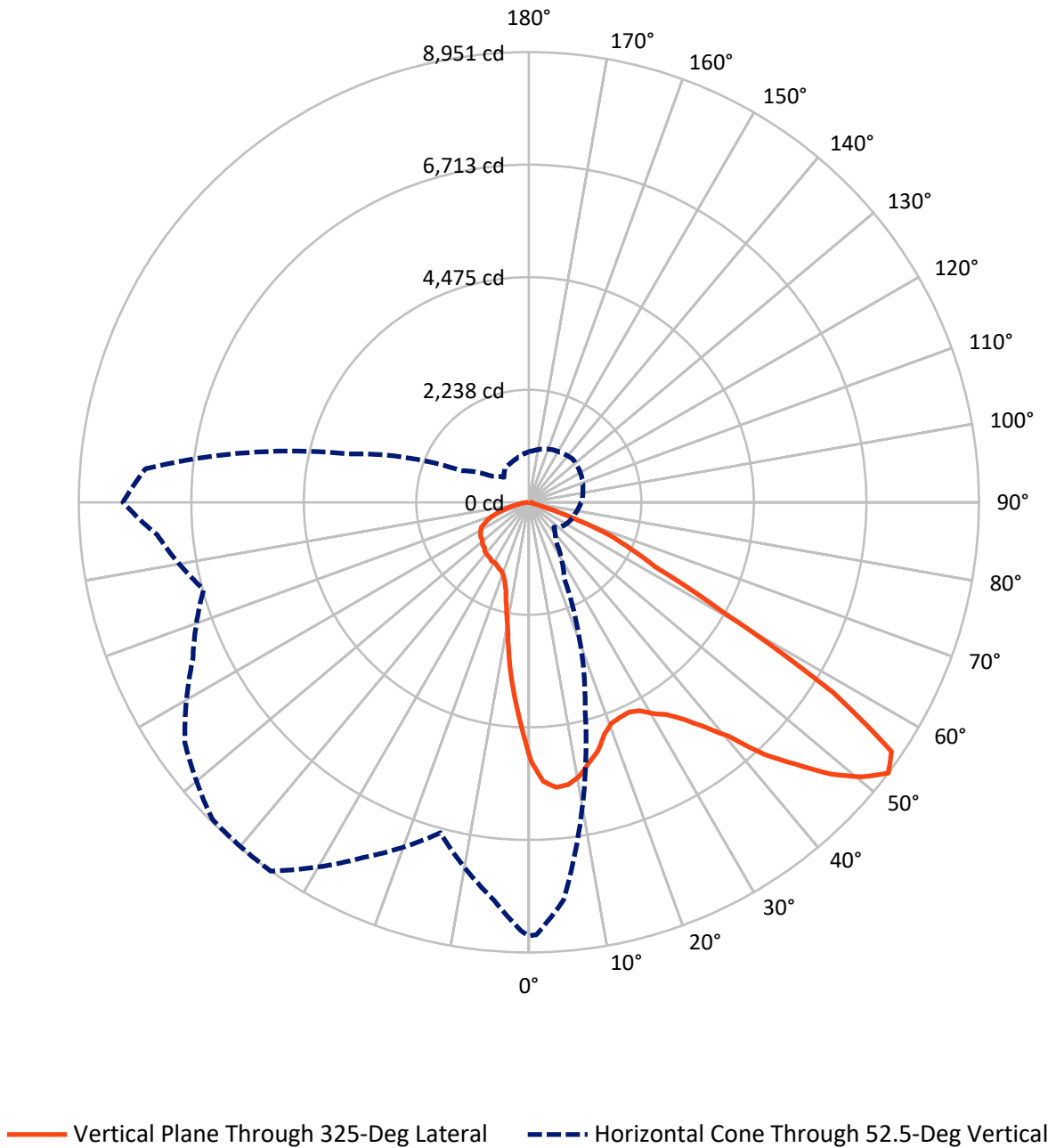
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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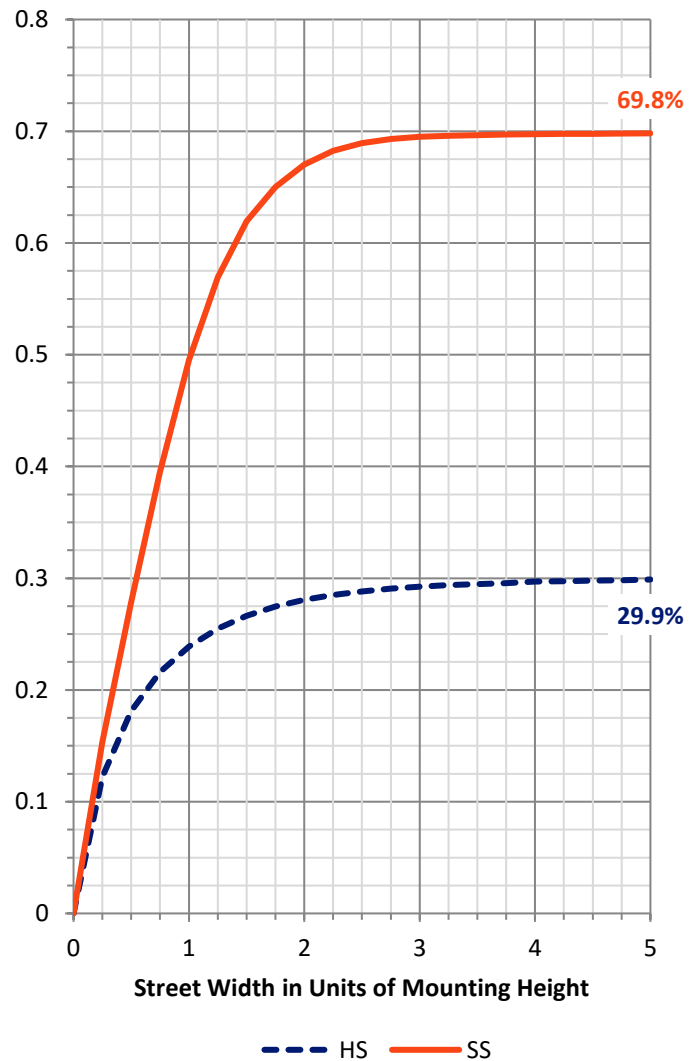
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3492.7	0.0	3492.7
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	8093.3	0.0	8093.3
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	11586.0	0.0	11586.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.3	3.4
10°-20°	850.4	7.3
20°-30°	1284.9	11.1
30°-40°	1856.7	16.0
40°-50°	2471.0	21.3
50°-60°	2763.9	23.9
60°-70°	1557.7	13.4
70°-80°	347.2	3.0
80°-90°	61.8	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°	11586.0	100.0
0°-180°	11586.0	100.0



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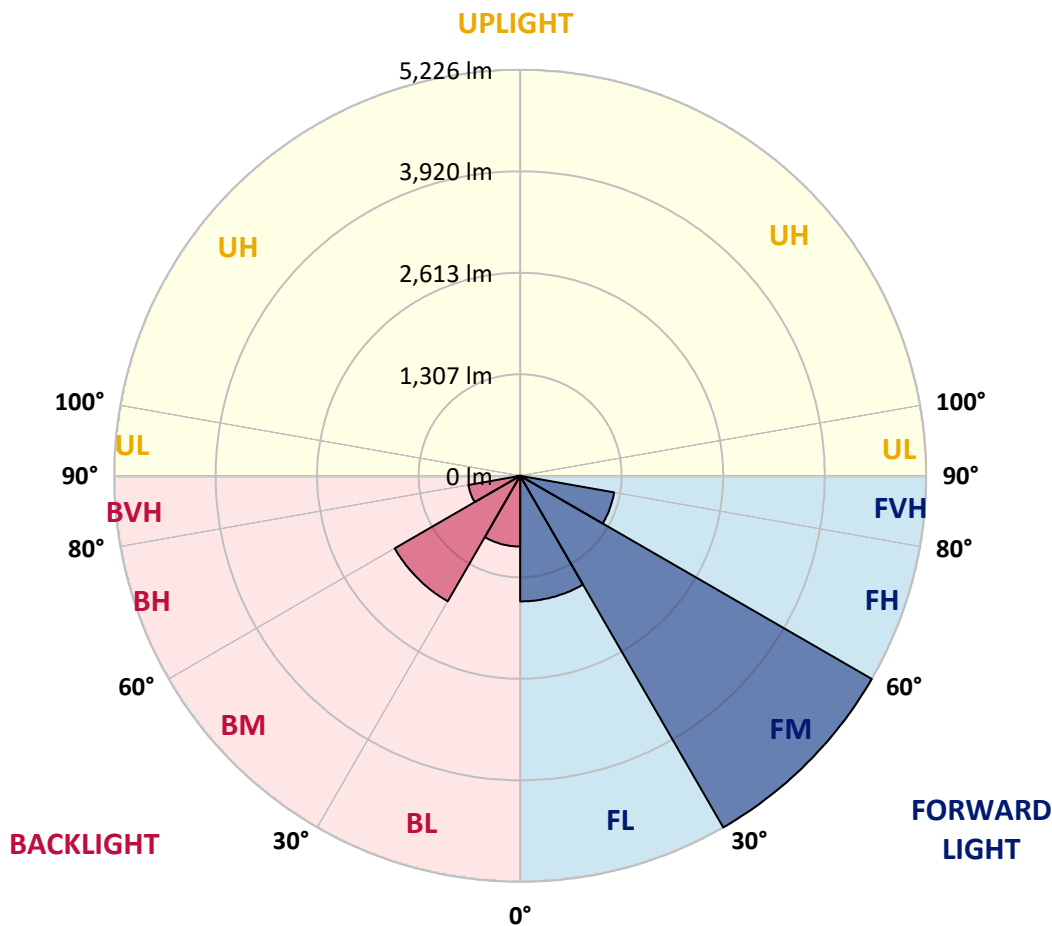
CATALOG NUMBER: GALN-SA2D-740-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.8	14.0			
FM (30°-60°)	5226.2	45.1			
FH (60°-80°)	1227.9	10.6			G1/1800
FVH (80°-90°)	22.4	0.2			G1/100
BL (0°-30°)	910.8	7.9	B2/1000		
BM (30°-60°)	1865.4	16.1	B2/2500		
BH (60°-80°)	677.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	39.4	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°	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9
2.5°	5227.6	5311.5	5220.9	5059.7	4945.5	4841.3	4732.2	4710.4	4567.6	4542.4	4438.3
5°	4930.3	4911.9	4801.0	4589.5	4356.0	4144.4	3988.3	3837.1	3734.7	3615.5	3607.1
7.5°	4569.3	4461.8	4398.0	4077.3	3788.4	3455.9	3313.2	3083.1	3010.9	2903.5	2848.0
10°	4246.9	4168.0	4018.5	3697.8	3294.7	3074.8	2921.9	2797.7	2713.7	2602.9	2463.5
12.5°	4087.4	4055.4	3887.5	3390.5	3091.5	2856.4	2749.0	2628.1	2485.3	2307.3	2238.5
15°	4115.9	4008.4	3880.8	3331.7	2918.6	2691.9	2520.6	2369.5	2186.4	2016.8	1917.7
17.5°	4329.2	4246.9	3991.6	3368.6	2853.1	2525.6	2215.0	1991.6	1827.1	1674.2	1605.4
20°	4749.0	4629.8	4342.6	3415.6	2712.0	2293.9	1937.9	1662.5	1486.2	1405.6	1382.0
22.5°	5214.1	5143.6	4685.2	3521.4	2599.5	2078.9	1644.0	1368.6	1303.1	1281.3	1324.9
25°	5780.1	5597.0	5217.5	3694.4	2512.2	1895.9	1395.5	1242.7	1209.1	1230.9	1281.3
27.5°	6210.0	6161.3	5590.3	3857.3	2393.0	1675.9	1256.1	1155.3	1165.4	1187.2	1234.3
30°	6720.5	6473.6	5951.3	3969.8	2285.5	1524.8	1158.7	1131.8	1141.9	1178.9	1202.4
32.5°	7027.8	6935.4	6178.1	4139.4	2161.2	1393.8	1083.1	1057.9	1073.1	1128.5	1183.9
35°	7419.0	7236.0	6458.5	4183.1	2073.9	1341.7	1029.4	1010.9	1046.2	1084.8	1146.9
37.5°	7875.8	7749.9	6846.4	4152.8	2026.9	1288.0	984.1	975.7	1000.8	1054.6	1126.8
40°	8146.2	8107.5	7049.6	4171.3	1953.0	1241.0	932.0	942.1	994.1	1036.1	1106.6
42.5°	8406.4	8154.6	7350.2	4164.6	1906.0	1177.2	937.0	925.3	965.6	1014.3	1081.5
45°	8463.5	8213.3	7420.7	4117.6	1848.9	1115.0	898.4	903.4	952.1	1012.6	1056.3
47.5°	8426.6	8241.9	7551.7	4104.1	1795.1	1071.4	841.3	901.8	930.3	979.0	1041.2
50°	8401.4	8391.3	7662.5	4168.0	1722.9	1002.5	772.5	879.9	908.5	957.2	1024.4
52.5°	8623.1	8601.2	7939.6	4335.9	1665.8	928.6	701.9	824.5	893.4	940.4	1005.9
55°	8757.4	8661.7	8414.8	4542.4	1570.1	831.2	653.2	755.7	856.4	898.4	965.6
57.5°	7877.5	7812.0	7612.2	4240.2	1408.9	703.6	592.8	685.1	806.1	871.5	940.4
60°	6554.2	6451.8	5939.6	3603.7	1039.5	547.4	555.8	629.7	792.6	817.8	898.4
62.5°	6179.7	5926.2	5229.3	2900.1	797.7	470.2	498.7	579.3	722.1	764.1	844.7
65°	4903.5	4715.4	3741.4	2094.1	534.0	408.1	455.1	522.3	623.0	705.3	779.2
67.5°	3069.7	2890.0	1996.7	990.8	372.8	349.3	406.4	476.9	559.2	633.1	715.4
70°	1603.7	1407.2	921.9	357.7	256.9	285.5	339.2	406.4	487.0	547.4	611.3
72.5°	597.8	485.3	300.6	154.5	178.0	218.3	275.4	324.1	381.2	455.1	490.3
75°	92.4	78.9	77.2	94.0	120.9	157.9	196.5	245.2	295.6	342.6	366.1
77.5°	43.7	42.0	47.0	62.1	80.6	112.5	142.7	189.8	230.1	260.3	273.7
80°	28.5	26.9	30.2	42.0	60.5	84.0	114.2	146.1	183.0	208.2	204.9
82.5°	16.8	18.5	18.5	28.5	42.0	60.5	82.3	110.8	136.0	157.9	144.4
85°	10.1	8.4	8.4	16.8	28.5	48.7	68.9	47.0	48.7	48.7	55.4
87.5°	3.4	3.4	3.4	1.7	3.4	3.4	5.0	8.4	10.1	11.8	15.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9
2.5°	4435.0	4487.0	4468.5	4403.1	4453.4	4461.8	4428.2	4544.1	4565.9	4530.7	4540.8
5°	3595.3	3608.8	3639.0	3702.8	3748.1	3801.9	3801.9	3805.2	3759.9	3874.1	3840.5
7.5°	2801.0	2809.4	2844.7	2980.7	3019.3	3121.8	3165.4	3135.2	3044.5	3005.9	3037.8
10°	2418.2	2369.5	2357.7	2374.5	2461.8	2505.5	2542.4	2532.3	2517.2	2487.0	2453.4
12.5°	2162.9	2127.6	2099.1	2058.8	2063.8	2105.8	2134.4	2110.8	2117.6	2124.3	2134.4
15°	1885.8	1860.6	1845.5	1785.1	1778.4	1806.9	1817.0	1830.4	1855.6	1857.3	1845.5
17.5°	1592.0	1570.1	1603.7	1637.3	1613.8	1615.5	1633.9	1645.7	1639.0	1608.7	1593.6
20°	1390.4	1413.9	1447.5	1479.4	1504.6	1519.7	1526.5	1508.0	1486.2	1424.0	1422.3
22.5°	1331.7	1361.9	1390.4	1439.1	1462.6	1501.3	1466.0	1424.0	1393.8	1363.6	1328.3
25°	1288.0	1313.2	1370.3	1388.8	1434.1	1466.0	1440.8	1398.8	1346.8	1303.1	1276.2
27.5°	1256.1	1284.6	1321.6	1372.0	1407.2	1425.7	1400.5	1383.7	1330.0	1277.9	1239.3
30°	1235.9	1266.2	1333.3	1375.3	1405.6	1420.7	1377.0	1356.9	1318.2	1274.6	1241.0
32.5°	1222.5	1249.4	1306.5	1360.2	1380.4	1380.4	1387.1	1363.6	1309.8	1235.9	1207.4
35°	1178.9	1215.8	1262.8	1324.9	1361.9	1383.7	1350.1	1323.3	1288.0	1212.4	1160.4
37.5°	1153.7	1178.9	1239.3	1298.1	1330.0	1353.5	1340.1	1293.0	1246.0	1183.9	1141.9
40°	1126.8	1167.1	1220.8	1276.2	1311.5	1335.0	1324.9	1269.5	1212.4	1153.7	1125.1
42.5°	1108.3	1135.2	1190.6	1252.7	1294.7	1340.1	1309.8	1241.0	1200.7	1120.1	1088.2
45°	1093.2	1136.9	1195.6	1220.8	1264.5	1311.5	1257.8	1215.8	1168.8	1110.0	1083.1
47.5°	1074.7	1115.0	1153.7	1220.8	1241.0	1262.8	1252.7	1185.6	1145.3	1081.5	1063.0
50°	1068.0	1083.1	1153.7	1190.6	1219.2	1241.0	1214.1	1163.7	1125.1	1059.6	1019.3
52.5°	1041.2	1069.7	1115.0	1163.7	1199.0	1225.9	1182.2	1150.3	1098.2	1029.4	1004.2
55°	1007.6	1024.4	1105.0	1155.3	1173.8	1192.3	1175.5	1123.4	1069.7	999.2	974.0
57.5°	963.9	1002.5	1068.0	1138.5	1162.1	1172.1	1145.3	1103.3	1036.1	974.0	933.7
60°	918.6	958.9	1031.1	1088.2	1111.7	1148.6	1108.3	1083.1	1005.9	937.0	893.4
62.5°	873.2	918.6	972.3	1044.5	1064.7	1079.8	1069.7	1034.4	972.3	895.1	841.3
65°	819.5	853.1	920.2	957.2	970.6	1005.9	970.6	957.2	901.8	827.9	782.5
67.5°	738.9	767.4	826.2	861.5	871.5	886.7	885.0	869.9	807.7	757.4	717.1
70°	646.5	671.7	708.7	750.6	755.7	774.1	757.4	754.0	713.7	644.8	623.0
72.5°	518.9	542.4	591.1	609.6	611.3	618.0	609.6	597.8	587.7	515.5	493.7
75°	398.0	411.4	434.9	451.7	451.7	460.1	455.1	443.3	416.5	371.1	349.3
77.5°	277.1	290.5	320.7	330.8	329.1	332.5	317.4	305.6	265.3	241.8	223.3
80°	201.5	209.9	225.0	231.7	233.4	238.5	220.0	209.9	186.4	159.5	151.1
82.5°	146.1	151.1	152.8	161.2	161.2	152.8	147.8	137.7	120.9	104.1	97.4
85°	60.5	62.1	63.8	73.9	75.6	90.7	84.0	78.9	68.9	58.8	53.7
87.5°	15.1	16.8	21.8	18.5	21.8	21.8	23.5	26.9	26.9	21.8	21.8
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°	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9
2.5°	4579.4	4592.8	4764.1	4785.9	4869.9	4955.5	5128.5	5252.8	5353.5	5419.0	5437.5
5°	3875.8	3961.4	4040.3	4168.0	4283.8	4448.4	4638.2	4873.3	5168.8	5319.9	5380.4
7.5°	3034.4	3135.2	3249.4	3373.7	3543.3	3838.8	4092.4	4364.4	4742.3	4898.4	5135.2
10°	2476.9	2589.4	2740.6	2836.3	3041.2	3323.3	3618.8	3932.9	4293.9	4518.9	4792.6
12.5°	2189.8	2282.1	2421.5	2623.0	2775.8	2958.9	3178.9	3575.2	4092.4	4305.7	4493.7
15°	1872.4	1974.8	2136.0	2359.4	2542.4	2760.7	3007.6	3439.2	3990.0	4319.1	4478.6
17.5°	1610.4	1684.3	1853.9	2047.0	2256.9	2495.4	2849.7	3432.4	4097.4	4518.9	4779.2
20°	1429.1	1439.1	1531.5	1696.1	1981.5	2292.2	2752.3	3398.9	4441.7	4863.2	5192.3
22.5°	1314.9	1304.8	1306.5	1445.9	1645.7	2092.4	2599.5	3513.0	4833.0	5410.6	5632.3
25°	1257.8	1230.9	1214.1	1244.3	1425.7	1855.6	2483.6	3664.2	5254.4	5862.3	6134.4
27.5°	1227.5	1180.5	1146.9	1152.0	1284.6	1736.4	2411.4	3729.7	5672.6	6492.1	6587.8
30°	1215.8	1157.0	1108.3	1091.5	1178.9	1570.1	2256.9	3842.2	6047.1	6838.0	6920.3
32.5°	1173.8	1101.6	1054.6	1039.5	1074.7	1424.0	2146.1	3922.8	6377.9	7214.2	7185.6
35°	1125.1	1064.7	1005.9	977.3	1002.5	1330.0	2057.1	3884.2	6767.5	7506.4	7491.2
37.5°	1120.1	1041.2	992.5	945.4	943.8	1214.1	1936.2	3921.1	7016.0	8030.3	7823.7
40°	1076.4	1026.0	962.2	923.6	901.8	1155.3	1818.7	3833.8	7380.4	8241.9	8038.7
42.5°	1078.1	1002.5	947.1	901.8	879.9	1069.7	1738.0	3810.3	7508.0	8586.1	8139.4
45°	1051.2	977.3	930.3	876.6	864.8	1004.2	1660.8	3701.1	7733.1	8602.9	8013.5
47.5°	1024.4	958.9	908.5	844.7	817.8	980.7	1600.3	3610.4	7615.5	8445.1	7838.9
50°	1005.9	930.3	883.3	838.0	762.4	940.4	1521.4	3588.6	7450.9	8231.8	7514.8
52.5°	974.0	906.8	858.1	822.8	701.9	903.4	1491.2	3716.2	7652.5	8072.3	7420.7
55°	943.8	874.9	812.8	743.9	651.6	806.1	1407.2	3835.5	7946.3	8440.0	7847.2
57.5°	911.8	846.4	779.2	696.9	602.9	705.3	1319.9	3857.3	7395.5	7800.2	7449.3
60°	869.9	785.9	735.5	628.0	550.8	584.4	1046.2	3400.5	5736.4	6513.9	6525.7
62.5°	822.8	732.2	688.5	562.6	497.1	503.8	853.1	2858.1	4653.3	5392.1	5712.9
65°	760.7	673.4	621.3	520.6	458.4	436.6	624.7	2094.1	3534.9	4374.5	4738.9
67.5°	680.1	597.8	532.3	453.4	409.7	374.5	426.5	1178.9	2087.3	2937.1	3047.9
70°	594.5	523.9	455.1	389.6	340.9	315.7	312.3	522.3	997.5	1580.2	1798.5
72.5°	468.5	418.1	362.7	314.0	282.1	245.2	223.3	216.6	337.5	643.2	888.3
75°	335.9	293.9	262.0	230.1	206.6	186.4	169.6	154.5	141.1	161.2	221.7
77.5°	211.6	196.5	171.3	162.9	149.5	144.4	137.7	129.3	119.2	112.5	112.5
80°	142.7	132.7	124.3	122.6	117.5	115.9	117.5	109.2	99.1	90.7	94.0
82.5°	95.7	94.0	92.4	90.7	92.4	94.0	97.4	95.7	87.3	82.3	84.0
85°	57.1	60.5	63.8	67.2	73.9	65.5	53.7	45.3	40.3	36.9	35.3
87.5°	21.8	30.2	26.9	25.2	26.9	25.2	23.5	21.8	18.5	16.8	16.8
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: P527770

CATALOG NUMBER: GALN-SA2D-740-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9	5141.9
2.5°	5560.1	5593.7	5622.2	5615.5	5556.7	5477.8	5445.9	5283.0	5249.4	5227.6
5°	5635.6	5830.4	5872.4	5847.2	5694.4	5501.3	5313.2	5074.8	4935.4	4930.3
7.5°	5496.3	5736.4	5812.0	5869.1	5665.9	5330.0	5007.6	4649.9	4562.6	4569.3
10°	5141.9	5524.8	5711.2	5770.0	5536.6	5246.1	4799.4	4436.6	4250.2	4246.9
12.5°	4945.5	5246.1	5298.1	5380.4	5311.5	5017.7	4678.5	4272.1	4090.7	4087.4
15°	4770.8	4969.0	4984.1	5100.0	5136.9	4938.7	4710.4	4277.1	4131.0	4115.9
17.5°	4923.6	4785.9	4728.8	4743.9	4853.1	4925.3	4895.1	4562.6	4413.1	4329.2
20°	5026.1	4718.8	4545.8	4562.6	4691.9	4955.5	5170.5	4975.7	4738.9	4749.0
22.5°	5299.8	4728.8	4458.5	4440.0	4644.9	5113.4	5481.2	5497.9	5269.6	5214.1
25°	5709.5	4844.7	4431.6	4426.6	4623.0	5283.0	5843.9	6115.9	5882.5	5780.1
27.5°	6038.7	5026.1	4515.6	4532.4	4691.9	5420.7	6152.9	6513.9	6335.9	6210.0
30°	6327.5	5214.1	4633.1	4555.9	4876.6	5492.9	6285.5	6967.3	6824.6	6720.5
32.5°	6446.7	5481.2	4819.5	4691.9	5029.4	5580.2	6560.9	7407.3	7284.7	7027.8
35°	6648.2	5630.6	4920.3	4910.2	5296.4	5790.1	6690.2	7697.8	7647.4	7419.0
37.5°	6809.5	5781.7	5278.0	5167.1	5662.5	6142.8	6898.5	8099.1	7983.3	7875.8
40°	6933.7	6052.1	5612.1	5758.2	6112.6	6463.5	7089.9	8124.3	8458.5	8146.2
42.5°	6819.5	6293.9	6161.3	6510.5	6846.4	6829.6	7111.7	8319.1	8569.3	8406.4
45°	6791.0	6703.7	7029.4	7346.8	7424.1	7133.6	6955.6	8104.2	8535.8	8463.5
47.5°	6722.1	7106.7	7674.3	8191.5	8074.0	7336.7	6769.2	8065.6	8555.9	8426.6
50°	6698.6	7194.0	8151.2	8655.0	8584.5	7513.1	6681.8	7817.0	8413.2	8401.4
52.5°	6696.9	7373.7	8349.4	8906.9	8950.5	7791.8	6801.1	7943.0	8524.0	8623.1
55°	6772.5	7316.6	8324.2	8767.5	8750.7	7667.6	6814.5	8026.9	8660.0	8757.4
57.5°	6388.0	6554.2	6869.9	7220.9	7130.2	6351.0	6085.7	7420.7	7948.0	7877.5
60°	5516.4	4995.8	4639.8	4623.0	4446.7	4203.2	4980.7	6623.1	6623.1	6554.2
62.5°	4831.3	3279.6	2817.8	2686.8	2812.8	3093.2	4804.4	6441.7	6258.7	6179.7
65°	4225.1	2503.8	2037.0	2000.0	2218.3	2641.5	4344.3	5487.9	5165.4	4903.5
67.5°	2718.7	1833.8	1514.7	1449.2	1712.9	1939.6	2891.7	3375.3	3172.1	3069.7
70°	1753.2	1194.0	843.0	790.9	893.4	1195.6	1847.2	1968.1	1672.6	1603.7
72.5°	829.6	515.5	295.6	243.5	273.7	456.8	730.5	785.9	653.2	597.8
75°	263.6	189.8	120.9	104.1	99.1	117.5	167.9	129.3	94.0	92.4
77.5°	117.5	112.5	95.7	80.6	70.5	58.8	48.7	40.3	42.0	43.7
80°	97.4	89.0	78.9	70.5	58.8	45.3	35.3	26.9	26.9	28.5
82.5°	85.6	77.2	68.9	58.8	50.4	36.9	26.9	18.5	16.8	16.8
85°	36.9	43.7	47.0	50.4	40.3	30.2	18.5	11.8	10.1	10.1
87.5°	15.1	13.4	11.8	10.1	8.4	8.4	6.7	5.0	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)