

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: P651240

Luminaire Tested: **GALN-SA2D-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9743.8 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

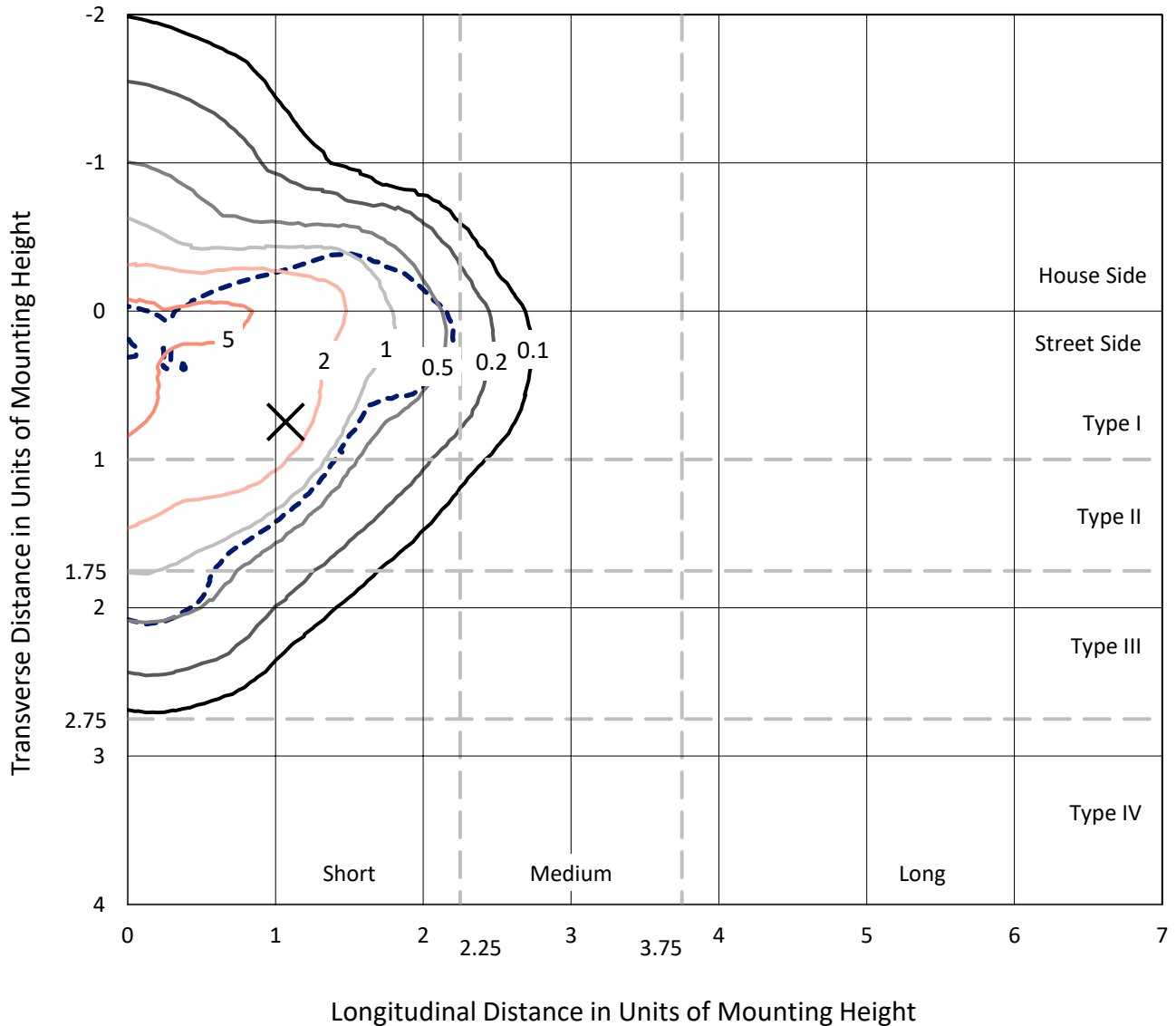
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

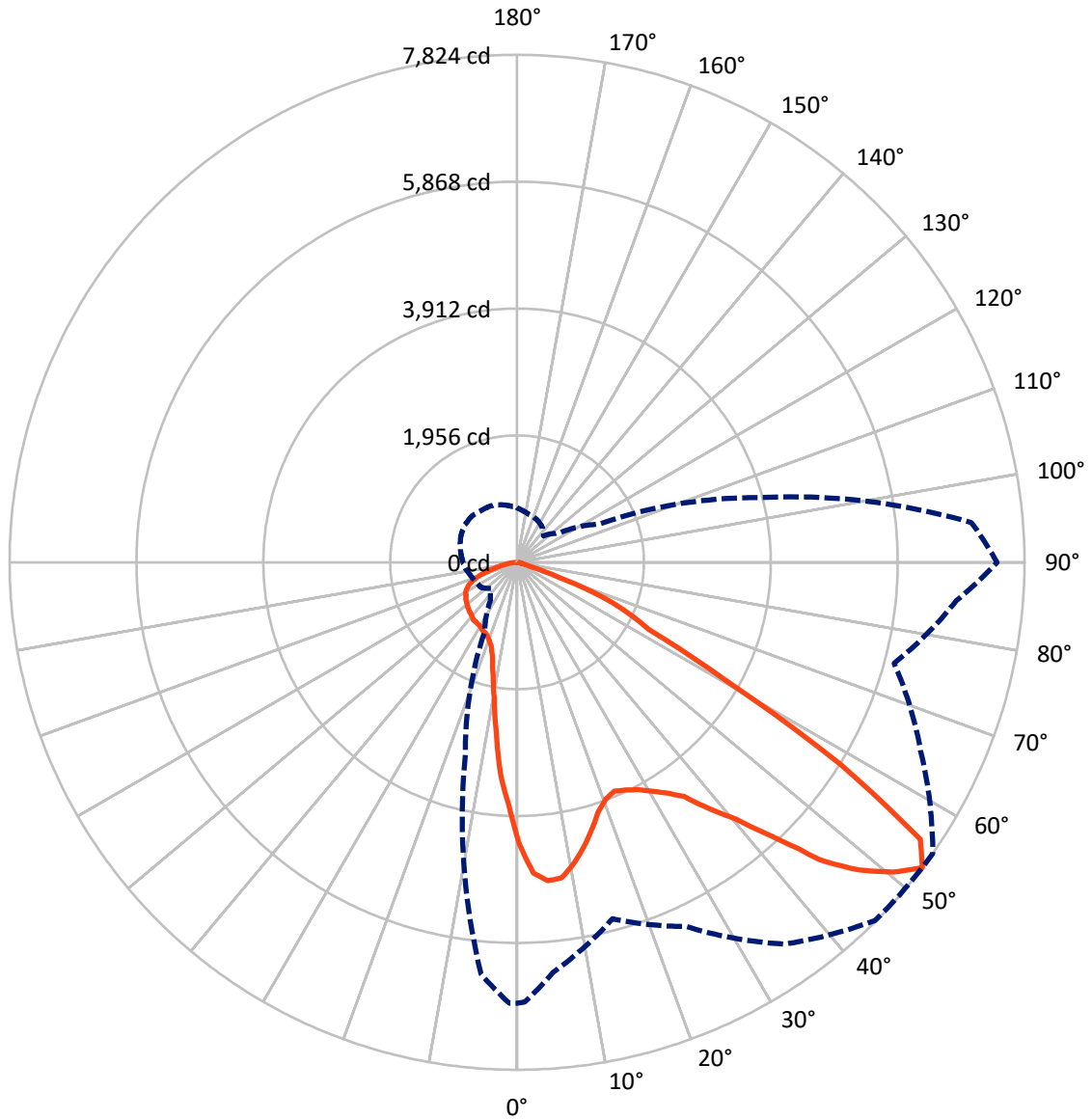
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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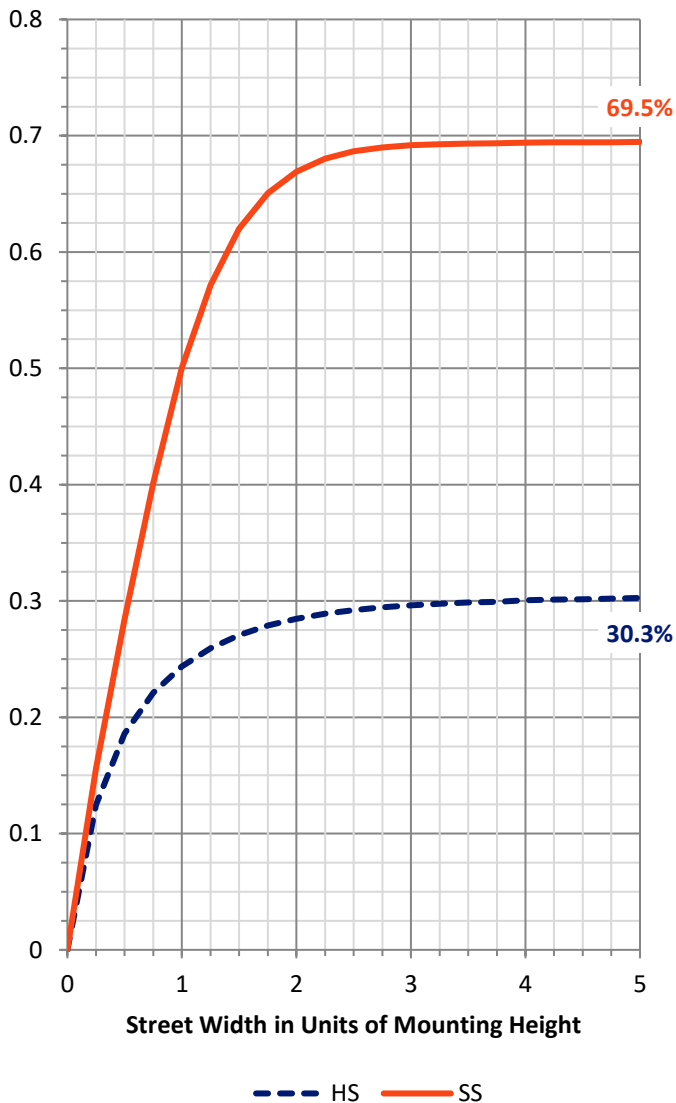
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2972.4	0.0	2972.4
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	6771.4	0.0	6771.4
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	9743.8	0.0	9743.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.1	3.4
10°-20°	716.0	7.3
20°-30°	1085.7	11.1
30°-40°	1568.6	16.1
40°-50°	2096.1	21.5
50°-60°	2339.7	24.0
60°-70°	1283.4	13.2
70°-80°	277.5	2.8
80°-90°	44.9	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°	9743.8	100.0
0°-180°	9743.8	100.0

**Coefficient of Utilization**



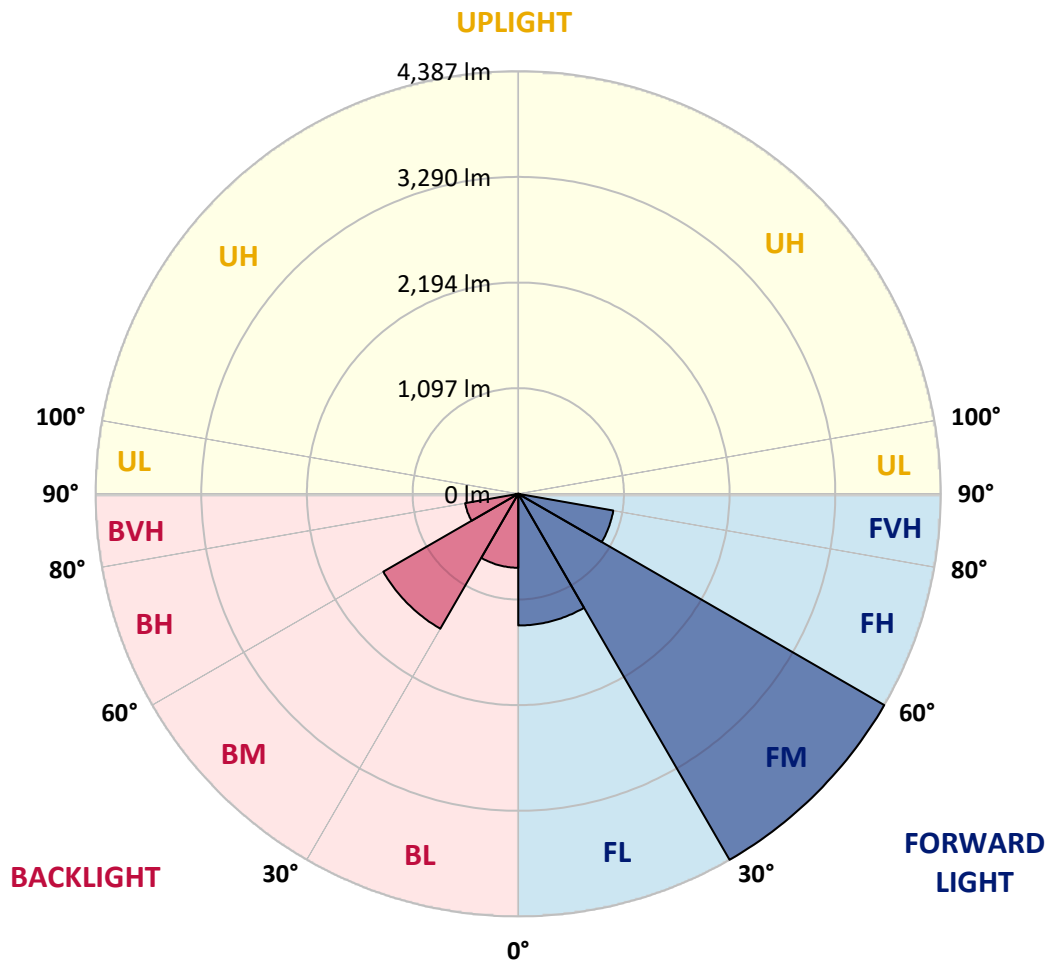
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.3	14.0			
FM (30°-60°)	4387.1	45.0			
FH (60°-80°)	1001.4	10.3			G1/1800
FVH (80°-90°)	16.6	0.2			G1/100
BL (0°-30°)	767.4	7.9	B2/1000		
BM (30°-60°)	1617.2	16.6	B2/2500		
BH (60°-80°)	559.5	5.7	B2/1000		G2/1000
BVH (80°-90°)	28.3	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5
2.5°	4561.3	4535.8	4558.5	4666.6	4729.2	4771.9	4798.9	4794.6	4692.2	4592.6	4592.6
5°	4427.6	4394.9	4441.8	4686.6	4932.6	4954.0	4989.6	4931.3	4780.4	4598.3	4370.7
7.5°	4040.6	4064.8	4143.0	4464.6	4784.7	4945.5	4988.1	4914.2	4669.5	4329.5	3995.1
10°	3706.3	3763.1	3943.9	4291.0	4585.6	4794.6	4841.6	4737.8	4544.3	4127.4	3828.7
12.5°	3591.0	3555.4	3756.1	4103.2	4384.9	4497.3	4518.7	4525.8	4394.9	4024.9	3660.7
15°	3576.8	3599.6	3756.1	4019.3	4192.8	4198.5	4234.1	4289.6	4306.7	4094.7	3739.0
17.5°	3781.6	3754.6	3915.4	4124.5	4042.0	3959.5	3968.1	4047.7	4188.6	4154.5	3985.2
20°	4084.7	4145.9	4272.5	4251.2	4029.2	3820.1	3821.5	3896.9	4174.4	4402.0	4328.0
22.5°	4588.3	4648.1	4742.1	4484.5	4029.2	3778.8	3730.4	3832.9	4265.4	4696.5	4715.0
25°	5047.9	5157.4	5183.1	4880.1	4231.2	3817.2	3785.9	3886.9	4356.5	4983.9	5158.9
27.5°	5466.2	5506.0	5618.5	5134.7	4343.7	3842.9	3840.0	3969.4	4471.7	5127.6	5555.8
30°	5796.3	5792.1	5856.1	5295.4	4522.9	3986.5	3848.5	4093.2	4622.5	5365.2	5922.9
32.5°	6021.1	6069.4	6204.6	5518.8	4598.3	4123.1	4015.0	4238.4	4806.1	5477.6	6181.9
35°	6416.6	6500.5	6329.8	5642.6	4837.3	4258.3	4131.7	4436.1	4897.1	5600.0	6499.1
37.5°	6789.4	6725.3	6551.7	5709.5	4992.4	4508.7	4390.6	4818.8	5180.2	5866.0	6709.7
40°	7028.4	7027.0	6718.2	5763.5	5102.0	4891.4	4884.3	5207.3	5527.4	6033.9	6945.9
42.5°	7132.3	7231.8	6786.5	5757.9	5332.4	5355.2	5499.0	5787.8	5773.5	6068.1	6940.2
44°	7274.5	7334.3	6904.6	5770.7	5486.1	5668.3	6006.8	6190.3	5988.3	6049.6	6933.0
45°	7268.8	7273.1	6736.7	5787.8	5617.0	5930.1	6233.1	6543.2	6177.6	6009.7	7027.0
47.5°	7102.3	7054.0	6594.4	5661.1	6025.3	6621.4	6901.8	7089.5	6410.9	5924.3	6910.3
50°	6773.8	6718.2	6248.7	5607.0	6110.7	7051.1	7438.1	7506.4	6622.9	5840.4	6795.0
52.5°	6796.5	6780.8	6346.9	5688.2	6196.1	7186.3	7806.7	7823.7	6863.3	6016.8	6796.5
55°	7203.4	7149.3	6628.6	5789.2	6133.5	7028.4	7571.9	7542.0	6782.2	5910.1	6921.7
57.5°	6591.6	6627.2	6238.8	5389.4	5368.0	5713.8	5952.8	5878.8	5659.7	5333.9	6439.4
60°	5318.2	5419.2	5456.2	4507.3	4050.6	3872.7	3801.6	3670.7	3707.7	4382.0	5656.8
62.5°	4561.3	4555.6	4787.6	4086.2	2653.4	2282.1	2247.9	2277.8	2704.7	4313.7	5540.2
65°	3616.6	3713.4	3784.5	3463.0	2100.0	1694.5	1693.1	1882.3	2340.4	3605.3	4473.1
67.5°	2296.4	2422.9	2511.1	2215.2	1404.2	1206.5	1173.8	1401.4	1622.0	2364.6	2693.3
70°	1294.7	1354.4	1394.3	1277.6	893.5	626.0	589.0	643.1	980.3	1530.9	1596.3
72.5°	499.4	526.4	580.5	584.7	337.2	202.0	163.6	196.4	412.6	606.1	577.6
75°	76.9	82.5	116.6	139.4	96.7	74.0	78.2	81.1	115.2	156.5	130.9
77.5°	37.0	37.0	35.6	41.3	48.4	52.6	56.9	62.6	68.3	75.4	72.6
80°	24.2	24.2	24.2	28.4	35.6	42.7	48.4	51.2	54.1	59.8	56.9
82.5°	15.6	15.6	15.6	21.4	28.4	35.6	38.4	45.5	51.2	59.8	55.5
85°	8.6	8.6	8.6	14.2	21.4	29.9	28.4	22.8	12.8	1.4	2.9
87.5°	2.9	2.9	2.9	2.9	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5
2.5°	4473.1	4407.7	4402.0	4268.2	4148.7	4090.4	4043.4	3912.6	3941.0	3865.6	3864.2
5°	4256.9	4123.1	3906.9	3729.0	3551.2	3515.6	3360.6	3225.4	3229.6	3132.9	3150.0
7.5°	3868.4	3776.0	3512.8	3233.9	2997.7	2829.9	2683.3	2595.1	2482.7	2444.3	2424.4
10°	3622.4	3508.5	3212.5	2862.6	2597.9	2508.3	2367.4	2289.2	2174.0	2117.0	2077.2
12.5°	3514.2	3347.8	2977.8	2622.2	2445.7	2353.2	2233.7	2091.5	1954.8	1902.3	1829.7
15°	3525.6	3326.4	2909.5	2525.4	2313.4	2134.1	2027.4	1869.5	1730.1	1637.6	1584.9
17.5°	3697.7	3455.8	2940.8	2451.4	2146.9	1922.1	1712.9	1542.2	1431.3	1361.6	1344.5
20°	4104.7	3776.0	2993.5	2331.9	1980.5	1700.2	1442.7	1264.9	1179.4	1178.1	1179.4
22.5°	4443.3	4117.5	3100.2	2260.8	1814.0	1415.7	1159.6	1102.6	1085.6	1121.1	1125.4
25°	4899.9	4501.6	3283.7	2223.8	1660.4	1206.5	1048.6	1027.2	1025.8	1071.3	1072.8
27.5°	5368.0	4837.3	3393.3	2115.6	1503.9	1098.3	981.7	977.4	1000.2	1048.6	1044.3
30°	5686.8	5119.1	3591.0	1986.2	1318.9	1003.1	954.7	960.3	991.6	1028.6	1034.3
32.5°	6058.1	5396.5	3642.2	1915.0	1205.1	923.3	889.2	902.1	941.8	1000.2	1031.5
35°	6483.4	5592.8	3720.5	1818.2	1162.3	862.2	845.1	859.3	907.7	946.1	980.3
37.5°	6797.9	5940.0	3734.7	1742.9	1115.4	828.0	801.0	848.0	876.4	930.5	947.6
40°	7031.3	6191.8	3771.7	1695.9	1078.4	783.9	783.9	815.3	853.6	903.5	937.6
42.5°	7180.6	6375.4	3798.7	1653.2	1007.3	771.1	764.0	795.3	846.6	894.9	910.6
44°	7271.7	6453.6	3771.7	1613.4	987.4	755.5	755.5	782.6	822.3	879.3	897.8
45°	7294.4	6551.7	3711.9	1611.9	963.2	737.0	734.1	785.3	812.4	882.1	893.5
47.5°	7382.6	6672.7	3719.1	1566.4	904.8	692.9	742.7	765.5	789.6	850.8	889.2
50°	7379.8	6748.1	3703.4	1499.6	862.2	643.1	725.6	751.2	775.4	838.0	853.6
52.5°	7399.7	7029.8	3847.2	1392.9	785.3	579.0	668.7	725.6	755.5	808.1	840.8
55°	7389.8	7190.6	3989.4	1313.2	677.3	540.7	620.3	687.2	729.9	785.3	801.0
57.5°	6749.5	6355.4	3692.1	1163.8	560.5	495.1	552.0	647.3	701.4	758.3	778.3
60°	5514.6	4898.5	3044.7	856.5	461.0	455.3	513.6	634.5	657.3	707.1	741.3
62.5°	5096.3	4296.7	2414.4	654.5	394.1	416.9	473.7	573.4	609.0	670.1	701.4
65°	3987.9	2854.0	1495.3	442.5	347.2	374.2	428.2	502.2	560.5	617.5	654.5
67.5°	2361.8	1559.3	739.8	310.2	303.0	331.5	387.0	442.5	509.3	572.0	590.5
70°	1286.1	766.8	315.9	236.2	257.5	283.2	337.2	375.6	439.6	488.0	519.3
72.5°	412.6	233.3	157.9	175.0	196.4	226.2	258.9	305.9	351.5	379.9	405.4
75°	99.6	98.1	112.4	122.4	142.3	165.0	192.1	216.2	251.8	278.9	301.6
77.5°	69.7	75.4	86.8	101.0	108.2	116.6	133.7	152.2	167.9	187.8	202.0
80°	54.1	58.4	66.9	74.0	81.1	88.2	96.7	103.9	113.8	126.7	133.7
82.5°	51.2	54.1	62.6	66.9	64.0	62.6	68.3	71.1	72.6	76.9	81.1
85°	4.3	0.0	2.9	9.9	24.2	35.6	38.4	38.4	37.0	39.9	39.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.7	4.3
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°	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5
2.5°	3847.2	3798.7	3817.2	3840.0	3807.3	3731.9	3751.8	3743.3	3820.1	3814.4	3891.2
5°	3225.4	3150.0	3158.5	3269.5	3233.9	3272.3	3195.5	3185.5	3199.8	3206.9	3219.7
7.5°	2468.5	2458.5	2543.9	2637.8	2681.9	2636.4	2560.9	2543.9	2528.2	2496.9	2568.1
10°	2014.6	2017.5	2011.8	2082.9	2132.7	2122.8	2077.2	2071.6	2041.6	2030.3	2070.1
12.5°	1798.4	1760.0	1741.5	1718.7	1757.1	1782.7	1762.8	1748.5	1750.0	1764.2	1769.9
15°	1589.2	1565.0	1525.2	1499.6	1518.1	1505.3	1498.2	1526.6	1519.5	1516.7	1550.8
17.5°	1354.4	1374.4	1371.5	1343.1	1367.3	1357.3	1355.9	1335.9	1308.9	1289.0	1300.4
20°	1199.4	1236.4	1264.9	1266.2	1279.1	1277.6	1256.3	1195.1	1175.2	1170.9	1173.8
22.5°	1143.9	1163.8	1197.9	1246.4	1246.4	1223.6	1197.9	1126.9	1108.4	1088.4	1079.8
25°	1099.8	1138.2	1182.3	1188.0	1210.8	1189.4	1148.1	1112.6	1074.2	1047.1	1047.1
27.5°	1077.0	1119.7	1152.4	1162.3	1193.7	1176.6	1133.9	1088.4	1042.8	1041.5	1017.3
30°	1067.1	1106.9	1128.2	1152.4	1166.6	1139.6	1126.9	1078.4	1032.9	1021.6	981.7
32.5°	1037.2	1094.1	1133.9	1128.2	1139.6	1128.2	1109.8	1069.9	1018.7	993.1	988.8
35°	1003.1	1059.9	1102.6	1132.5	1139.6	1115.4	1104.1	1050.0	980.3	967.5	923.3
37.5°	984.6	1018.7	1071.3	1119.7	1129.6	1116.8	1078.4	1023.0	953.3	939.0	900.6
40°	961.8	1005.9	1047.1	1087.0	1116.8	1085.6	1041.5	987.4	956.0	913.4	902.1
42.5°	944.7	994.5	1028.6	1072.8	1106.9	1065.6	1014.4	977.4	933.3	904.8	872.1
44°	939.0	984.6	1007.3	1061.3	1089.9	1058.6	1015.8	977.4	926.2	900.6	872.1
45°	919.1	981.7	1005.9	1054.3	1078.4	1052.8	998.8	960.3	923.3	892.0	862.2
47.5°	899.2	941.8	983.1	1021.6	1038.6	1030.1	984.6	937.6	893.5	875.0	846.6
50°	893.5	936.2	974.6	1010.1	1030.1	1013.0	971.8	926.2	875.0	845.1	820.9
52.5°	865.1	917.7	960.3	971.8	997.3	987.4	956.0	906.3	857.9	832.3	812.4
55°	823.8	879.3	937.6	951.8	988.8	973.1	926.2	879.3	838.0	799.6	774.0
57.5°	808.1	862.2	919.1	937.6	960.3	934.8	923.3	873.5	808.1	788.2	748.4
60°	768.3	836.5	883.6	926.2	927.6	920.6	900.6	843.7	789.6	752.6	724.2
62.5°	737.0	801.0	838.0	877.8	902.1	882.1	862.2	809.5	751.2	710.0	677.3
65°	691.5	749.8	781.1	805.3	832.3	829.5	795.3	756.9	695.8	663.0	631.7
67.5°	621.8	673.0	715.6	738.4	755.5	751.2	725.6	698.5	636.0	603.2	580.5
70°	537.8	590.5	617.5	630.2	647.3	655.9	636.0	623.2	567.7	525.0	503.7
72.5°	432.5	466.7	506.5	517.9	525.0	530.7	530.7	519.3	462.4	445.3	408.3
75°	318.7	345.7	375.6	375.6	388.4	389.8	392.7	385.6	342.9	320.1	311.6
77.5°	216.2	236.2	260.4	270.3	278.9	277.4	276.0	256.1	233.3	223.4	214.9
80°	140.9	160.8	172.2	184.9	193.5	192.1	194.9	180.7	170.7	153.7	156.5
82.5°	83.9	99.6	111.0	126.7	126.7	130.9	130.9	126.7	116.6	108.2	108.2
85°	39.9	52.6	59.8	69.7	75.4	76.9	68.3	58.4	48.4	44.1	48.4
87.5°	7.1	9.9	14.2	12.8	15.6	14.2	14.2	14.2	14.2	11.4	12.8
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: P651240

CATALOG NUMBER: GALN-SA2D-840-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5	4346.5
2.5°	3862.8	3933.9	3983.7	4066.2	4208.5	4322.3	4439.0	4525.8	4535.8	4561.3
5°	3266.6	3305.0	3431.7	3596.7	3713.4	3905.4	4029.2	4254.0	4338.0	4427.6
7.5°	2551.0	2613.6	2782.9	2893.9	3150.0	3390.4	3639.4	3916.8	4027.8	4040.6
10°	2151.2	2242.3	2357.5	2535.4	2674.8	2942.2	3252.4	3561.1	3684.9	3706.3
12.5°	1889.4	2006.0	2159.8	2287.8	2421.5	2654.9	2952.2	3333.5	3494.3	3591.0
15°	1637.6	1758.5	1927.8	2105.7	2223.8	2502.6	2852.6	3282.3	3491.4	3576.8
17.5°	1378.7	1491.0	1630.4	1822.5	2060.1	2373.1	2836.9	3453.0	3682.1	3781.6
20°	1156.7	1219.3	1381.5	1579.2	1876.6	2240.8	2842.7	3704.9	4040.6	4084.7
22.5°	1069.9	1084.1	1148.1	1330.3	1656.1	2105.7	2943.7	4061.9	4443.3	4588.3
25°	1003.1	1000.2	1017.3	1139.6	1495.3	2053.0	3043.2	4390.6	4890.0	5047.9
27.5°	966.1	937.6	939.0	1054.3	1381.5	1967.7	3171.3	4767.6	5396.5	5466.2
30°	947.6	941.8	924.8	971.8	1257.7	1839.6	3192.7	5138.9	5695.3	5796.3
32.5°	936.2	880.7	859.3	876.4	1141.1	1700.2	3272.3	5383.7	6065.2	6021.1
35°	879.3	829.5	815.3	832.3	1058.6	1622.0	3219.7	5597.1	6342.7	6416.6
37.5°	857.9	813.8	785.3	771.1	981.7	1556.5	3192.7	5925.8	6611.5	6789.4
40°	838.0	791.0	756.9	742.7	921.9	1469.7	3184.1	6179.0	6921.7	7028.4
42.5°	815.3	785.3	747.0	721.3	849.4	1382.9	3086.0	6257.3	7017.0	7132.3
44°	808.1	762.6	722.8	714.3	820.9	1338.8	3066.0	6328.4	7099.6	7274.5
45°	801.0	758.3	712.8	701.4	811.0	1314.7	3039.0	6345.4	7236.1	7268.8
47.5°	781.1	754.0	710.0	678.7	789.6	1262.0	2957.9	6248.7	7096.7	7102.3
50°	765.5	734.1	688.6	627.5	761.2	1217.9	2994.9	6213.1	6760.9	6773.8
52.5°	748.4	701.4	675.8	570.5	714.3	1180.8	3073.1	6373.9	6799.3	6796.5
55°	728.5	677.3	614.6	522.2	636.0	1133.9	3262.3	6691.2	7155.0	7203.4
57.5°	697.2	653.0	563.4	479.5	546.3	1044.3	3201.2	6083.7	6583.1	6591.6
60°	655.9	614.6	510.7	446.7	448.2	823.8	2862.6	4740.6	5194.4	5318.2
62.5°	616.0	593.3	466.7	399.8	381.3	655.9	2420.1	3939.6	4458.9	4561.3
65°	569.1	513.6	428.2	364.2	327.2	459.5	1714.4	2943.7	3478.6	3616.6
67.5°	509.3	449.6	377.0	320.1	280.3	307.3	885.0	1673.2	2215.2	2296.4
70°	445.3	389.8	317.3	270.3	226.2	212.0	389.8	798.2	1210.8	1294.7
72.5°	365.7	314.4	253.2	213.4	169.3	146.5	130.9	213.4	429.7	499.4
75°	264.7	229.1	190.7	152.2	119.5	93.9	76.9	64.0	71.1	76.9
77.5°	194.9	166.4	140.9	108.2	83.9	66.9	52.6	39.9	38.4	37.0
80°	152.2	135.1	112.4	86.8	65.4	49.8	37.0	27.0	24.2	24.2
82.5°	119.5	111.0	92.5	71.1	54.1	39.9	27.0	18.5	15.6	15.6
85°	45.5	45.5	66.9	58.4	41.3	28.4	18.5	9.9	8.6	8.6
87.5°	11.4	11.4	11.4	11.4	9.9	8.6	8.6	4.3	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)