

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: P647280

Luminaire Tested: **GALN-SA2D-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647280  
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-835-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 9071.8 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

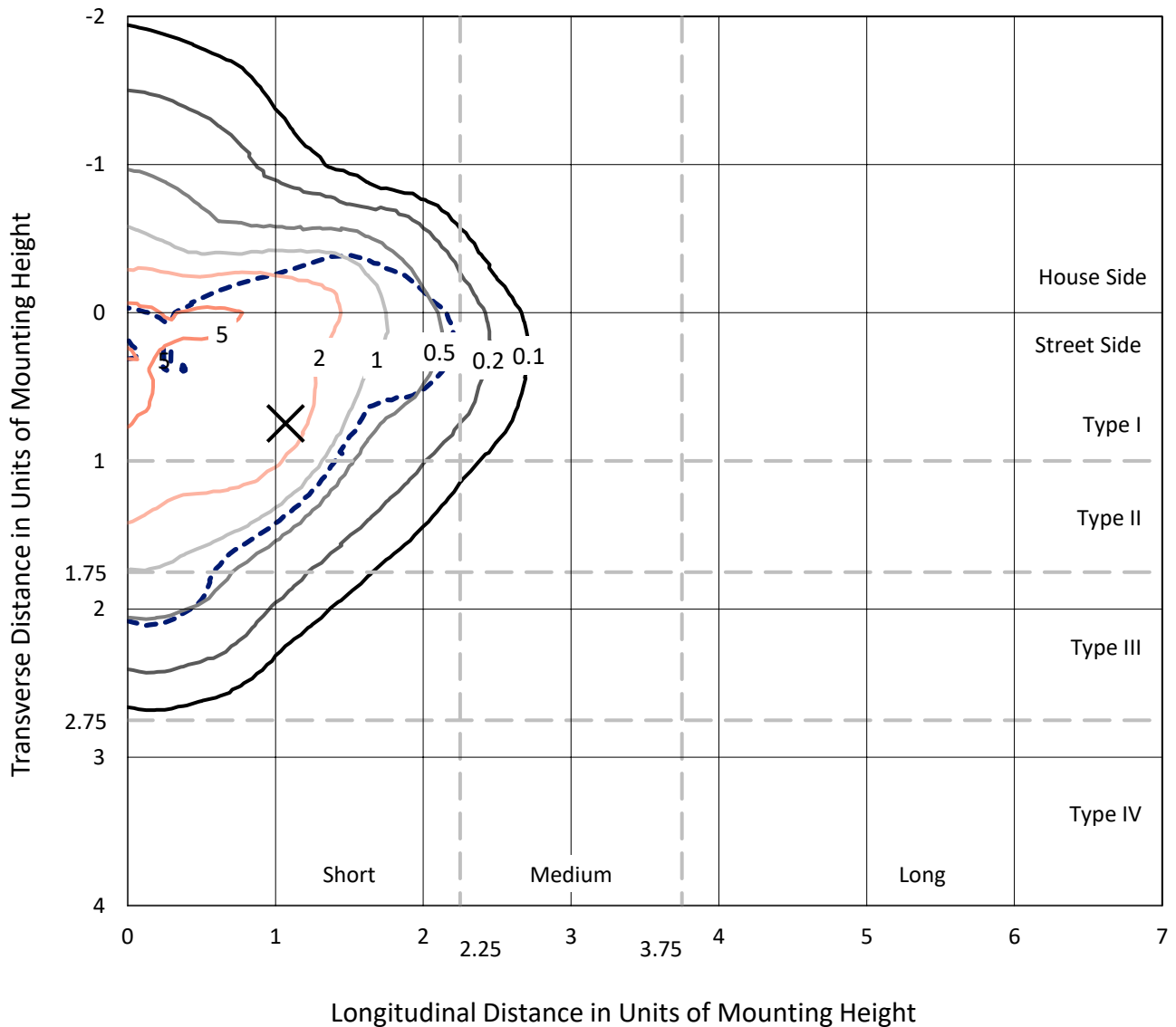
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

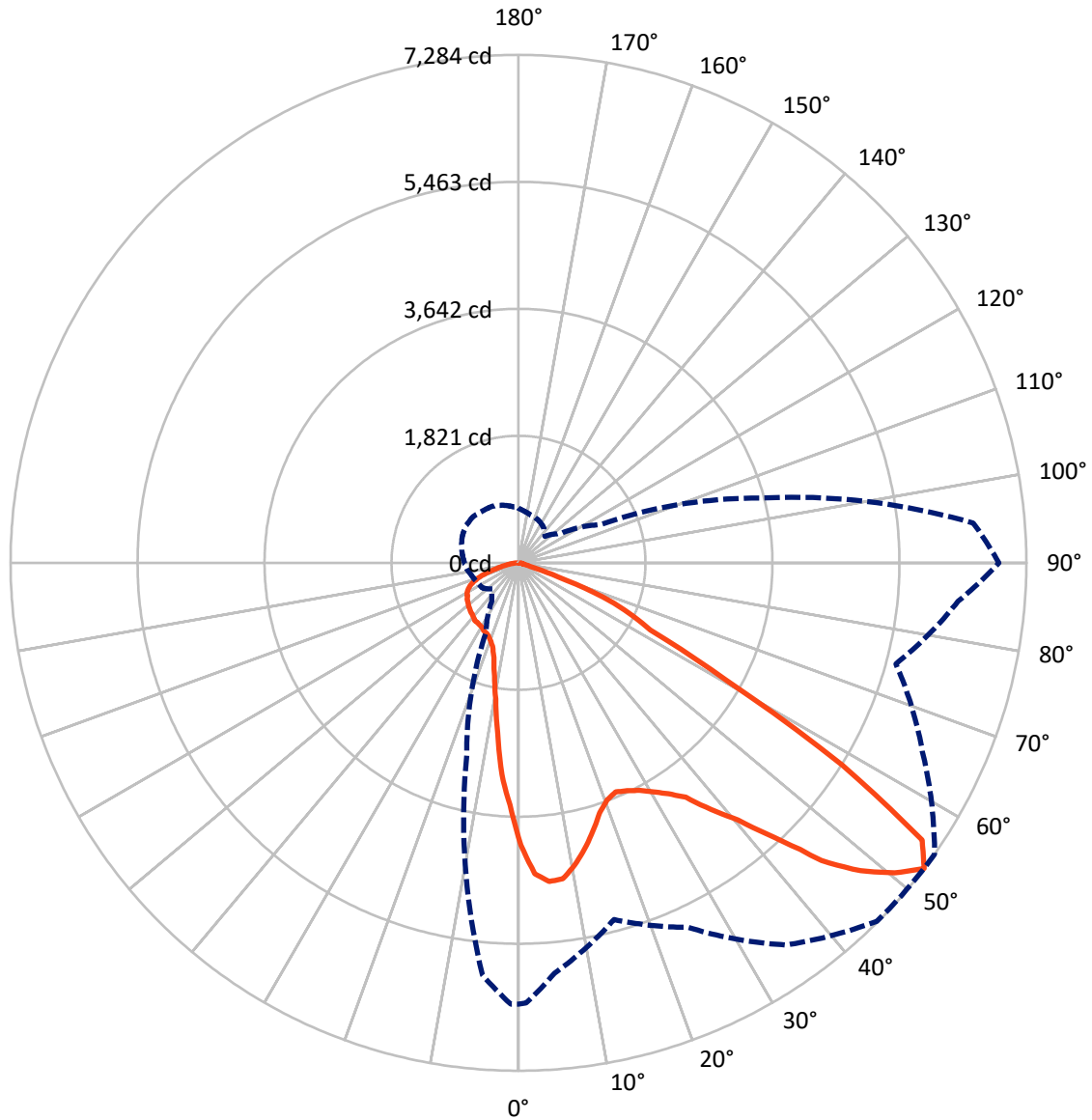
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2767.4	0.0	2767.4
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	6304.4	0.0	6304.4
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	9071.8	0.0	9071.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.2	3.4
10°-20°	666.6	7.3
20°-30°	1010.8	11.1
30°-40°	1460.4	16.1
40°-50°	1951.5	21.5
50°-60°	2178.3	24.0
60°-70°	1194.9	13.2
70°-80°	258.3	2.8
80°-90°	41.8	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°	9071.8	100.0
0°-180°	9071.8	100.0

**Coefficient of Utilization**

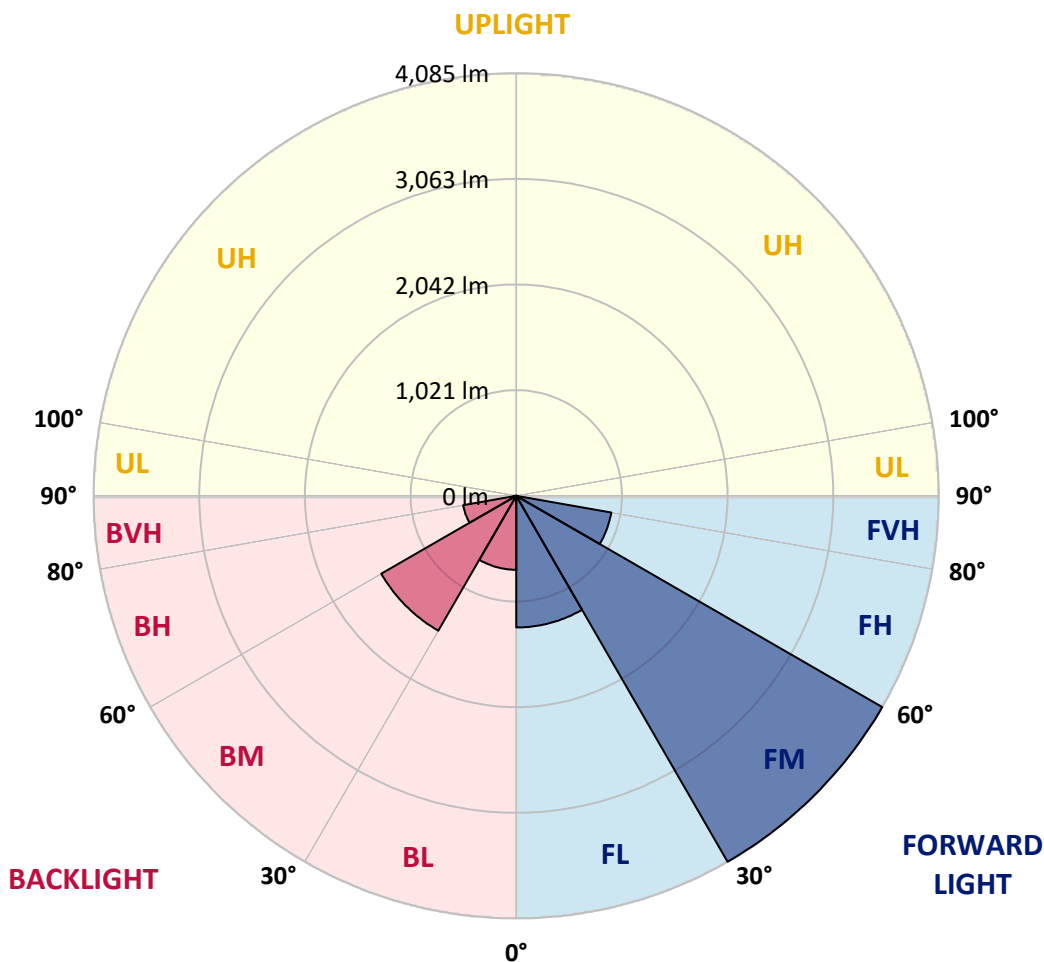


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.0	14.0			
FM (30°-60°)	4084.6	45.0			
FH (60°-80°)	932.4	10.3			G1/1800
FVH (80°-90°)	15.5	0.2			G1/100
BL (0°-30°)	714.5	7.9	B2/1000		
BM (30°-60°)	1505.7	16.6	B2/2500		
BH (60°-80°)	520.9	5.7	B2/1000		G2/1000
BVH (80°-90°)	26.3	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°	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8
2.5°	4246.8	4223.0	4244.1	4344.8	4403.0	4442.8	4468.0	4464.0	4368.6	4275.9	4275.9
5°	4122.3	4091.8	4135.5	4363.3	4592.5	4612.3	4645.5	4591.2	4450.7	4281.2	4069.3
7.5°	3761.9	3784.5	3857.3	4156.7	4454.7	4604.4	4644.1	4575.3	4347.5	4030.9	3719.6
10°	3450.7	3503.6	3671.9	3995.1	4269.3	4464.0	4507.7	4411.0	4230.9	3842.7	3564.6
12.5°	3343.3	3310.2	3497.0	3820.3	4082.5	4187.2	4207.1	4213.6	4091.8	3747.4	3408.2
15°	3330.1	3351.3	3497.0	3742.1	3903.6	3909.0	3942.1	3993.8	4009.7	3812.3	3481.1
17.5°	3520.8	3495.7	3645.4	3840.1	3763.3	3686.4	3694.4	3768.6	3899.7	3867.9	3710.3
20°	3803.0	3860.0	3977.9	3958.0	3751.4	3556.6	3558.0	3628.2	3886.5	4098.4	4029.6
22.5°	4271.9	4327.6	4415.0	4175.3	3751.4	3518.2	3473.2	3568.5	3971.2	4372.6	4389.8
25°	4699.8	4801.7	4825.6	4543.5	3939.4	3554.0	3524.8	3618.9	4056.0	4640.1	4803.1
27.5°	5089.2	5126.3	5231.0	4780.6	4044.1	3577.8	3575.2	3695.7	4163.3	4774.0	5172.7
30°	5396.5	5392.6	5452.2	4930.2	4211.0	3711.6	3583.1	3810.9	4303.7	4995.1	5514.4
32.5°	5605.8	5650.8	5776.7	5138.2	4281.2	3838.7	3738.1	3946.1	4474.6	5099.8	5755.5
35°	5974.1	6052.2	5893.2	5253.5	4503.7	3964.6	3846.7	4130.2	4559.4	5213.8	6050.9
37.5°	6321.2	6261.5	6099.9	5315.7	4648.1	4197.7	4087.8	4486.5	4823.0	5461.4	6246.9
40°	6543.7	6542.4	6254.9	5366.1	4750.1	4554.1	4547.4	4848.2	5146.2	5617.8	6466.9
42.5°	6640.4	6733.1	6318.5	5360.8	4964.7	4985.9	5119.7	5388.6	5375.4	5649.6	6461.6
44°	6772.8	6828.5	6428.4	5372.7	5107.7	5277.3	5592.6	5763.4	5575.4	5632.4	6454.9
45°	6767.5	6771.5	6272.1	5388.6	5229.7	5521.1	5803.2	6092.0	5751.5	5595.2	6542.4
47.5°	6612.5	6567.5	6139.7	5270.7	5609.8	6164.8	6425.8	6600.6	5968.8	5515.8	6433.8
50°	6306.6	6254.9	5817.8	5220.3	5689.3	6564.8	6925.2	6988.7	6166.1	5437.6	6326.4
52.5°	6327.7	6313.2	5909.1	5295.9	5768.8	6690.7	7268.3	7284.2	6390.0	5601.8	6327.7
55°	6706.6	6656.3	6171.4	5389.9	5710.5	6543.7	7049.7	7021.9	6314.5	5502.5	6444.3
57.5°	6137.0	6170.1	5808.5	5017.7	4997.8	5319.7	5542.2	5473.4	5269.4	4966.0	5995.3
60°	4951.5	5045.5	5079.9	4196.4	3771.2	3605.6	3539.4	3417.6	3452.0	4079.8	5266.7
62.5°	4246.8	4241.4	4457.4	3804.4	2470.4	2124.7	2092.9	2120.8	2518.1	4016.2	5158.1
65°	3367.2	3457.3	3523.5	3224.2	1955.2	1577.7	1576.3	1752.5	2179.0	3356.6	4164.6
67.5°	2138.0	2255.8	2338.0	2062.4	1307.4	1123.3	1092.8	1304.8	1510.1	2201.6	2507.6
70°	1205.4	1261.0	1298.1	1189.5	831.9	582.9	548.4	598.8	912.7	1425.3	1486.2
72.5°	464.9	490.1	540.4	544.4	313.9	188.1	152.3	182.8	384.1	564.3	537.8
75°	71.6	76.8	108.6	129.8	90.0	68.9	72.8	75.5	107.3	145.7	121.8
77.5°	34.5	34.5	33.1	38.4	45.0	49.0	53.0	58.3	63.6	70.2	67.6
80°	22.6	22.6	22.6	26.5	33.1	39.8	45.0	47.7	50.3	55.7	53.0
82.5°	14.6	14.6	14.6	19.9	26.5	33.1	35.8	42.4	47.7	55.7	51.7
85°	8.0	8.0	8.0	13.2	19.9	27.8	26.5	21.2	11.9	1.3	2.7
87.5°	2.7	2.7	2.7	2.7	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



REPORT NUMBER: P647280

CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8
2.5°	4164.6	4103.7	4098.4	3973.9	3862.6	3808.3	3764.6	3642.8	3669.2	3599.0	3597.7
5°	3963.3	3838.7	3637.4	3471.8	3306.3	3273.2	3128.8	3003.0	3006.9	2916.8	2932.7
7.5°	3601.6	3515.6	3270.5	3010.9	2791.0	2634.7	2498.2	2416.1	2311.5	2275.7	2257.2
10°	3372.5	3266.5	2991.0	2665.2	2418.8	2335.3	2204.1	2131.3	2024.1	1971.0	1933.9
12.5°	3271.8	3116.9	2772.4	2441.3	2277.0	2190.9	2079.6	1947.2	1820.0	1771.1	1703.5
15°	3282.4	3097.0	2708.9	2351.2	2153.9	1986.9	1887.6	1740.5	1610.8	1524.7	1475.6
17.5°	3442.7	3217.5	2738.0	2282.4	1998.8	1789.5	1594.8	1435.9	1332.6	1267.7	1251.8
20°	3821.6	3515.6	2787.0	2171.1	1843.9	1582.9	1343.2	1177.6	1098.1	1096.8	1098.1
22.5°	4136.8	3833.5	2886.4	2104.9	1688.9	1318.0	1079.6	1026.6	1010.7	1043.8	1047.8
25°	4562.0	4191.2	3057.2	2070.4	1545.9	1123.3	976.2	956.4	955.0	997.5	998.8
27.5°	4997.8	4503.7	3159.2	1969.7	1400.2	1022.6	914.0	910.0	931.2	976.2	972.3
30°	5294.6	4766.0	3343.3	1849.2	1227.9	933.9	888.9	894.1	923.2	957.7	963.0
32.5°	5640.3	5024.4	3391.0	1783.0	1122.0	859.7	827.9	839.8	876.9	931.2	960.3
35°	6036.3	5207.1	3463.9	1692.8	1082.2	802.7	786.8	800.1	845.1	880.9	912.7
37.5°	6329.1	5530.3	3477.1	1622.7	1038.5	770.9	745.7	789.5	816.0	866.3	882.2
40°	6546.3	5764.8	3511.6	1578.9	1004.0	729.8	729.8	759.0	794.7	841.2	873.0
42.5°	6685.4	5935.7	3536.7	1539.2	937.8	717.9	711.4	740.5	788.2	833.2	847.8
44°	6770.2	6008.5	3511.6	1502.1	919.3	703.4	703.4	728.6	765.6	818.6	835.9
45°	6791.4	6099.9	3455.9	1500.8	896.8	686.1	683.5	731.2	756.4	821.3	831.9
47.5°	6873.5	6212.5	3462.6	1458.4	842.4	645.1	691.5	712.7	735.2	792.2	827.9
50°	6870.8	6282.7	3448.0	1396.2	802.7	598.8	675.6	699.4	721.9	780.2	794.7
52.5°	6889.4	6545.0	3581.8	1296.8	731.2	539.1	622.6	675.6	703.4	752.4	782.8
55°	6880.1	6694.6	3714.2	1222.7	630.5	503.4	577.5	639.8	679.6	731.2	745.7
57.5°	6284.0	5917.1	3437.4	1083.5	521.9	461.0	514.0	602.7	653.0	706.0	724.6
60°	5134.3	4560.7	2834.7	797.4	429.2	423.9	478.2	590.8	612.0	658.3	690.1
62.5°	4744.8	4000.3	2247.9	609.3	366.9	388.1	441.1	533.8	567.0	623.9	653.0
65°	3712.9	2657.2	1392.2	411.9	323.2	348.4	398.7	467.6	521.9	574.9	609.3
67.5°	2198.9	1451.8	688.8	288.8	282.1	308.7	360.3	411.9	474.2	532.5	549.7
70°	1197.4	713.9	294.1	219.9	239.8	263.6	313.9	349.7	409.3	454.4	483.5
72.5°	384.1	217.2	147.0	162.9	182.8	210.6	241.1	284.8	327.2	353.7	377.5
75°	92.7	91.4	104.6	113.9	132.5	153.6	178.8	201.3	234.4	259.6	280.8
77.5°	64.9	70.2	80.8	94.0	100.7	108.6	124.5	141.7	156.3	174.8	188.1
80°	50.3	54.3	62.2	68.9	75.5	82.1	90.0	96.7	105.9	117.9	124.5
82.5°	47.7	50.3	58.3	62.2	59.6	58.3	63.6	66.2	67.6	71.6	75.5
85°	4.0	0.0	2.7	9.2	22.6	33.1	35.8	35.8	34.5	37.1	37.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.3	4.0
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: P647280

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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8
2.5°	3581.8	3536.7	3554.0	3575.2	3544.7	3474.5	3493.0	3485.1	3556.6	3551.3	3622.9
5°	3003.0	2932.7	2940.7	3044.0	3010.9	3046.7	2975.1	2965.8	2979.1	2985.7	2997.6
7.5°	2298.3	2288.9	2368.4	2455.9	2496.9	2454.5	2384.3	2368.4	2353.9	2324.7	2391.0
10°	1875.7	1878.3	1873.0	1939.3	1985.6	1976.4	1933.9	1928.7	1900.8	1890.2	1927.4
12.5°	1674.4	1638.6	1621.4	1600.1	1635.9	1659.7	1641.2	1627.9	1629.3	1642.6	1647.8
15°	1479.6	1457.1	1420.0	1396.2	1413.4	1401.5	1394.8	1421.3	1414.7	1412.1	1443.9
17.5°	1261.0	1279.6	1276.9	1250.5	1273.0	1263.7	1262.4	1243.8	1218.7	1200.1	1210.7
20°	1116.6	1151.1	1177.6	1178.9	1190.9	1189.5	1169.6	1112.7	1094.2	1090.2	1092.8
22.5°	1065.0	1083.5	1115.3	1160.4	1160.4	1139.2	1115.3	1049.1	1031.9	1013.4	1005.4
25°	1023.9	1059.7	1100.7	1106.1	1127.3	1107.4	1069.0	1035.8	1000.1	974.9	974.9
27.5°	1002.7	1042.5	1072.9	1082.2	1111.4	1095.5	1055.7	1013.4	970.9	969.7	947.1
30°	993.5	1030.6	1050.4	1072.9	1086.2	1061.0	1049.1	1004.0	961.7	951.1	914.0
32.5°	965.7	1018.6	1055.7	1050.4	1061.0	1050.4	1033.2	996.1	948.4	924.6	920.7
35°	933.9	986.8	1026.6	1054.4	1061.0	1038.5	1027.9	977.6	912.7	900.8	859.7
37.5°	916.7	948.4	997.5	1042.5	1051.7	1039.8	1004.0	952.4	887.5	874.2	838.5
40°	895.4	936.5	974.9	1012.0	1039.8	1010.7	969.7	919.3	890.1	850.4	839.8
42.5°	879.5	925.9	957.7	998.8	1030.6	992.1	944.5	910.0	869.0	842.4	812.0
44°	874.2	916.7	937.8	988.1	1014.7	985.6	945.8	910.0	862.3	838.5	812.0
45°	855.7	914.0	936.5	981.6	1004.0	980.2	929.9	894.1	859.7	830.5	802.7
47.5°	837.2	876.9	915.3	951.1	967.0	959.0	916.7	873.0	831.9	814.6	788.2
50°	831.9	871.6	907.3	940.5	959.0	943.1	904.8	862.3	814.6	786.8	764.3
52.5°	805.4	854.4	894.1	904.8	928.6	919.3	890.1	843.8	798.7	774.9	756.4
55°	766.9	818.6	873.0	886.2	920.7	906.0	862.3	818.6	780.2	744.5	720.6
57.5°	752.4	802.7	855.7	873.0	894.1	870.3	859.7	813.3	752.4	733.8	696.8
60°	715.3	778.9	822.6	862.3	863.6	857.1	838.5	785.5	735.2	700.7	674.2
62.5°	686.1	745.7	780.2	817.3	839.8	821.3	802.7	753.7	699.4	661.0	630.5
65°	643.8	698.0	727.3	749.7	774.9	772.3	740.5	704.7	647.8	617.2	588.1
67.5°	578.9	626.6	666.3	687.5	703.4	699.4	675.6	650.4	592.1	561.6	540.4
70°	500.7	549.7	574.9	586.8	602.7	610.7	592.1	580.2	528.5	488.8	468.9
72.5°	402.7	434.5	471.6	482.2	488.8	494.1	494.1	483.5	430.5	414.6	380.1
75°	296.7	321.9	349.7	349.7	361.6	362.9	365.6	359.0	319.2	298.0	290.1
77.5°	201.3	219.9	242.4	251.7	259.6	258.3	257.0	238.4	217.2	208.0	200.1
80°	131.2	149.7	160.3	172.2	180.2	178.8	181.5	168.3	158.9	143.1	145.7
82.5°	78.1	92.7	103.4	117.9	117.9	121.8	121.8	117.9	108.6	100.7	100.7
85°	37.1	49.0	55.7	64.9	70.2	71.6	63.6	54.3	45.0	41.0	45.0
87.5°	6.7	9.2	13.2	11.9	14.6	13.2	13.2	13.2	13.2	10.6	11.9
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: P647280

CATALOG NUMBER: GALN-SA2D-835-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8	4046.8
2.5°	3596.4	3662.6	3709.0	3785.8	3918.3	4024.2	4132.8	4213.6	4223.0	4246.8
5°	3041.3	3077.1	3195.0	3348.7	3457.3	3636.1	3751.4	3960.6	4038.8	4122.3
7.5°	2375.1	2433.3	2590.9	2694.3	2932.7	3156.6	3388.4	3646.7	3750.0	3761.9
10°	2002.8	2087.6	2194.9	2360.5	2490.3	2739.3	3028.1	3315.5	3430.8	3450.7
12.5°	1759.1	1867.7	2010.8	2130.0	2254.5	2471.8	2748.6	3103.6	3253.3	3343.3
15°	1524.7	1637.3	1794.9	1960.5	2070.4	2330.1	2655.9	3055.9	3250.6	3330.1
17.5°	1283.6	1388.2	1518.0	1696.8	1918.0	2209.5	2641.3	3214.8	3428.1	3520.8
20°	1076.9	1135.2	1286.2	1470.3	1747.2	2086.3	2646.6	3449.3	3761.9	3803.0
22.5°	996.1	1009.4	1069.0	1238.5	1541.9	1960.5	2740.7	3781.8	4136.8	4271.9
25°	933.9	931.2	947.1	1061.0	1392.2	1911.5	2833.4	4087.8	4552.8	4699.8
27.5°	899.4	873.0	874.2	981.6	1286.2	1832.0	2952.6	4438.8	5024.4	5089.2
30°	882.2	876.9	861.0	904.8	1171.0	1712.7	2972.5	4784.5	5302.5	5396.5
32.5°	871.6	820.0	800.1	816.0	1062.4	1582.9	3046.7	5012.4	5646.9	5605.8
35°	818.6	772.3	759.0	774.9	985.6	1510.1	2997.6	5211.1	5905.2	5974.1
37.5°	798.7	757.7	731.2	717.9	914.0	1449.2	2972.5	5517.1	6155.6	6321.2
40°	780.2	736.5	704.7	691.5	858.3	1368.4	2964.5	5752.9	6444.3	6543.7
42.5°	759.0	731.2	695.5	671.6	790.8	1287.6	2873.1	5825.8	6533.0	6640.4
44°	752.4	710.0	672.9	665.0	764.3	1246.5	2854.6	5891.9	6609.9	6772.8
45°	745.7	706.0	663.7	653.0	755.0	1224.0	2829.4	5907.8	6737.1	6767.5
47.5°	727.3	702.0	661.0	631.9	735.2	1175.0	2753.9	5817.8	6607.3	6612.5
50°	712.7	683.5	641.1	584.2	708.7	1133.9	2788.3	5784.6	6294.6	6306.6
52.5°	696.8	653.0	629.2	531.2	665.0	1099.4	2861.2	5934.4	6330.4	6327.7
55°	678.2	630.5	572.2	486.2	592.1	1055.7	3037.3	6229.7	6661.5	6706.6
57.5°	649.1	608.0	524.5	446.4	508.6	972.3	2980.4	5664.1	6129.1	6137.0
60°	610.7	572.2	475.5	415.9	417.3	766.9	2665.2	4413.7	4836.2	4951.5
62.5°	573.5	552.4	434.5	372.2	355.0	610.7	2253.2	3667.9	4151.4	4246.8
65°	529.9	478.2	398.7	339.1	304.7	427.8	1596.1	2740.7	3238.7	3367.2
67.5°	474.2	418.6	351.0	298.0	261.0	286.1	824.0	1557.8	2062.4	2138.0
70°	414.6	362.9	295.4	251.7	210.6	197.4	362.9	743.1	1127.3	1205.4
72.5°	340.4	292.8	235.8	198.7	157.6	136.4	121.8	198.7	400.0	464.9
75°	246.4	213.3	177.5	141.7	111.3	87.5	71.6	59.6	66.2	71.6
77.5°	181.5	155.0	131.2	100.7	78.1	62.2	49.0	37.1	35.8	34.5
80°	141.7	125.8	104.6	80.8	60.9	46.4	34.5	25.1	22.6	22.6
82.5°	111.3	103.4	86.1	66.2	50.3	37.1	25.1	17.2	14.6	14.6
85°	42.4	42.4	62.2	54.3	38.4	26.5	17.2	9.2	8.0	8.0
87.5°	10.6	10.6	10.6	10.6	9.2	8.0	8.0	4.0	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)