

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: P648425

Luminaire Tested: **GALN-SA5B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18911.8 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

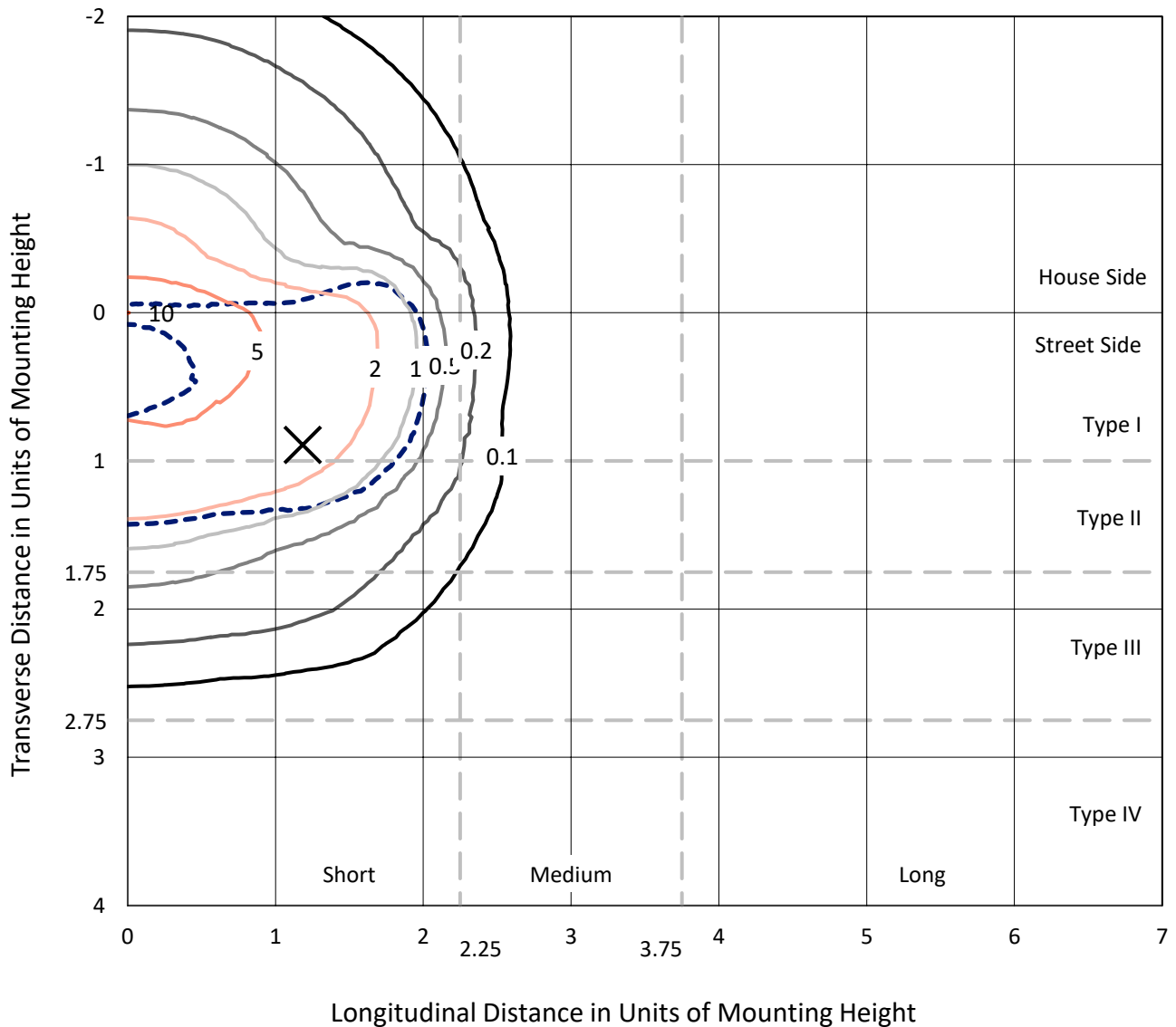
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648425  
 CATALOG NUMBER: GALN-SA5B-835-U-SL2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

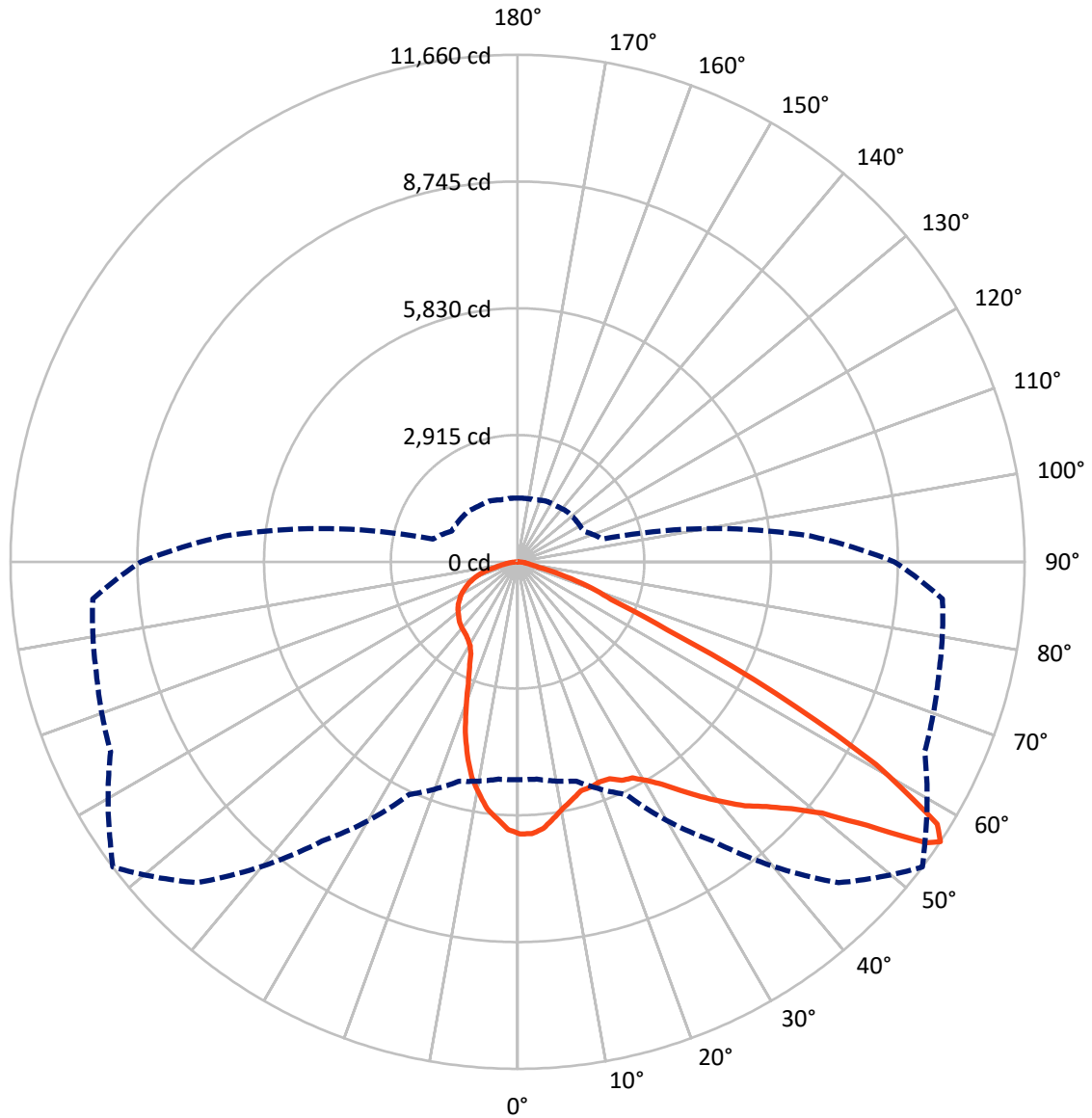
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

REPORT NUMBER: P648425  
CATALOG NUMBER: GALN-SA5B-835-U-SL2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648425  
 CATALOG NUMBER: GALN-SA5B-835-U-SL2-GRSWH

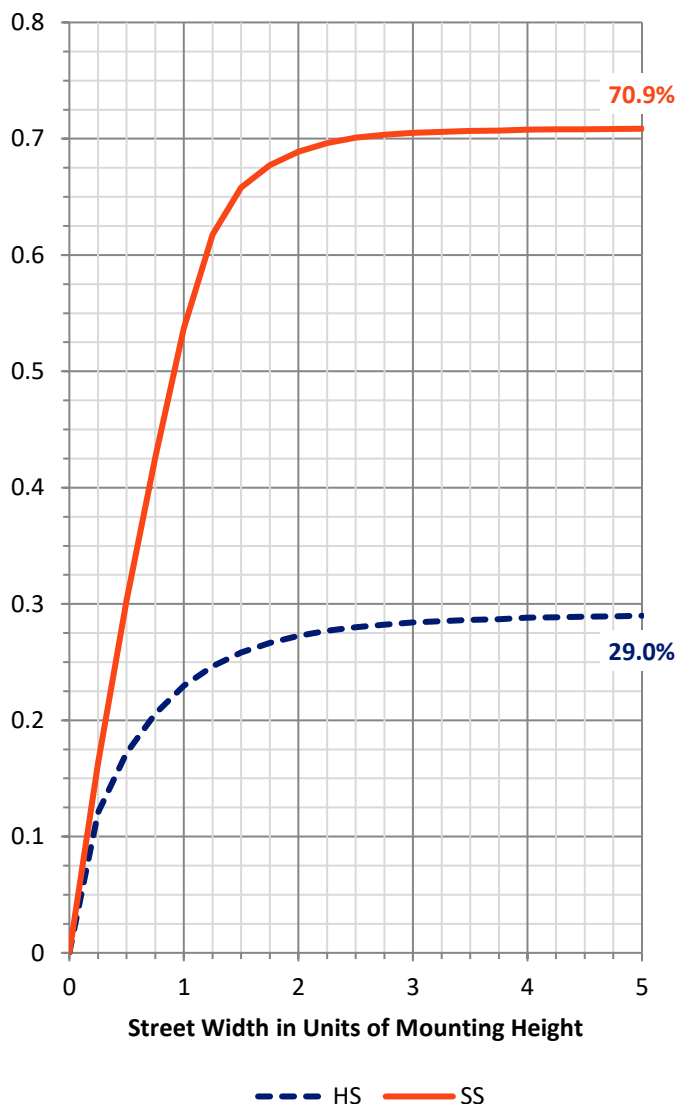
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5518.9	0.0	5518.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	13392.9	0.0	13392.9
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	18911.8	0.0	18911.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.9	2.9
10°-20°	1383.4	7.3
20°-30°	2040.0	10.8
30°-40°	2914.7	15.4
40°-50°	4011.7	21.2
50°-60°	4740.7	25.1
60°-70°	2526.5	13.4
70°-80°	641.0	3.4
80°-90°	99.9	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°	18911.8	100.0
0°-180°	18911.8	100.0

**Coefficient of Utilization**

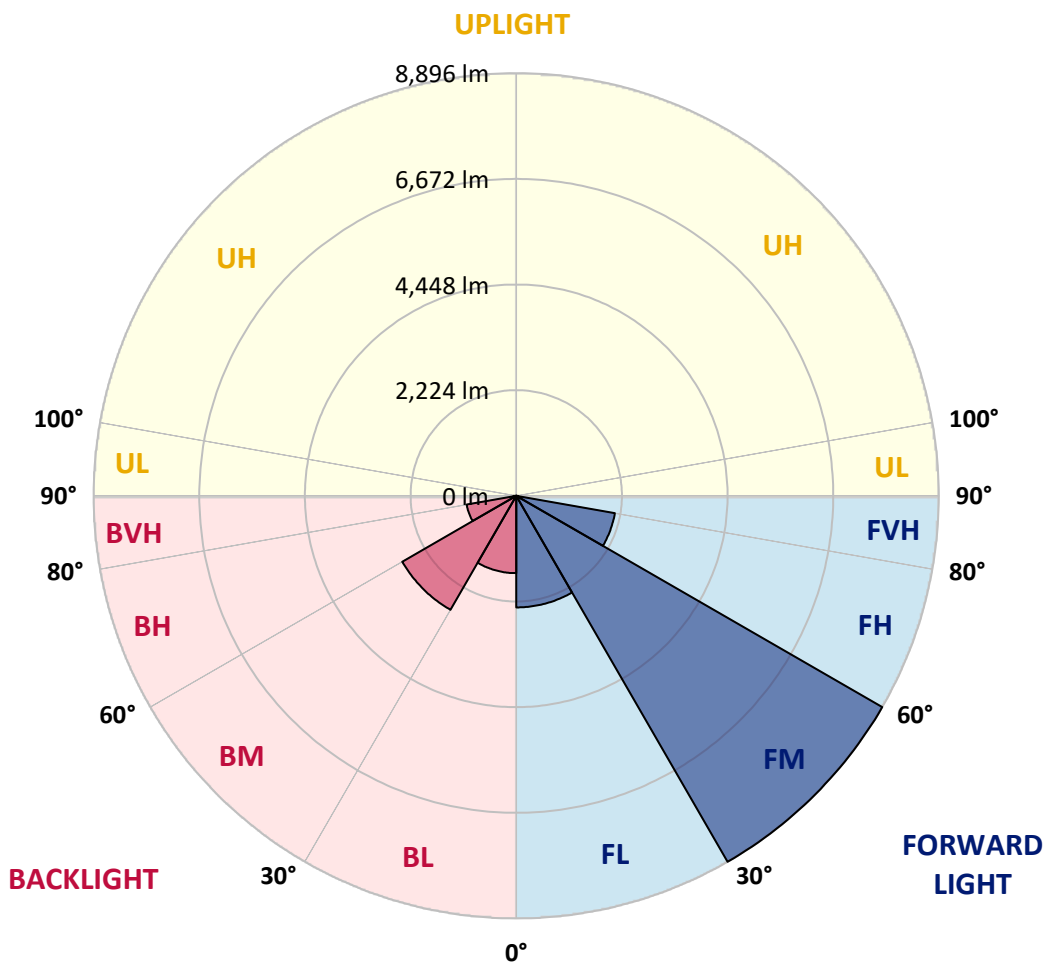


REPORT NUMBER: P648425  
 CATALOG NUMBER: GALN-SA5B-835-U-SL2-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.5	12.4			
FM (30°-60°)	8895.7	47.0			
FH (60°-80°)	2107.5	11.1			G2/5000
FVH (80°-90°)	40.2	0.2			G1/100
BL (0°-30°)	1627.7	8.6	B3/2500		
BM (30°-60°)	2771.4	14.7	B3/5000		
BH (60°-80°)	1060.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	59.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





REPORT NUMBER: P648425

CATALOG NUMBER: GALN-SA5B-835-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8
2.5°	6179.1	6125.8	6157.3	6145.1	6244.7	6273.8	6259.2	6271.4	6327.1	6300.4	6244.7
5°	5774.0	5849.2	5863.7	5900.1	5958.4	6072.4	6162.1	6186.4	6213.1	6336.8	6324.7
7.5°	5405.2	5456.2	5429.5	5536.2	5662.4	5846.7	5956.0	5975.4	6220.4	6288.3	6339.2
10°	5172.3	5121.4	5242.7	5271.8	5414.9	5626.0	5757.0	5837.0	6060.3	6329.5	6361.1
12.5°	4956.4	4939.4	5012.2	5094.7	5254.8	5473.2	5606.6	5638.1	5982.6	6266.5	6414.5
15°	4796.3	4776.8	4849.7	4910.3	5097.1	5291.2	5461.0	5550.8	5897.7	6230.1	6368.4
17.5°	4670.1	4667.7	4709.0	4818.1	5009.8	5172.3	5446.5	5451.3	5854.0	6285.8	6407.2
20°	4662.8	4660.4	4667.7	4789.0	4963.7	5162.6	5400.4	5444.0	5854.0	6247.1	6409.6
22.5°	4723.5	4684.7	4728.4	4806.0	4932.1	5179.6	5417.3	5514.4	5994.7	6438.7	6518.8
25°	4820.5	4830.2	4854.5	4881.2	4954.0	5218.5	5567.8	5647.9	6159.7	6603.7	6669.2
27.5°	4997.7	4992.8	5002.5	5017.1	5080.1	5254.8	5628.4	5834.6	6504.2	6897.2	6831.8
30°	5257.2	5240.2	5279.1	5330.0	5271.8	5371.2	5829.7	5985.0	6824.5	7193.2	7013.7
32.5°	5492.6	5555.6	5628.4	5650.3	5579.9	5599.3	6096.7	6254.4	7091.3	7557.1	7236.9
35°	5786.1	5837.0	5934.1	6002.0	5989.9	5931.7	6460.5	6669.2	7477.1	7824.0	7472.2
37.5°	6072.4	6133.0	6293.1	6494.5	6382.9	6356.2	6848.7	7021.0	7596.0	7967.1	7644.4
40°	6533.4	6530.9	6807.5	6911.8	7011.3	6965.2	7251.4	7309.7	7659.0	7935.6	7649.3
42.5°	7074.3	7040.3	7321.8	7484.4	7613.0	7617.8	7671.1	7651.7	7688.1	7775.5	7598.4
45°	7588.7	7661.4	7945.3	8236.5	8365.0	8379.6	8025.4	7988.9	7739.1	7729.4	7501.3
47.5°	8217.0	8234.0	8466.9	8850.2	9148.7	9046.7	8483.9	8403.8	7962.2	8037.5	7663.8
50°	8253.4	8379.6	8588.2	9039.4	9956.5	9929.8	9078.3	8927.8	8321.3	8474.2	8117.5
52.5°	7491.6	7462.5	7710.0	8447.5	9895.9	10808.1	10063.2	9704.2	9092.8	8976.4	8852.6
55°	5708.5	5776.4	5994.7	6739.5	8593.0	10820.1	11404.9	11111.3	9917.6	9718.8	9575.6
56°	5007.4	5017.1	5223.2	5902.6	7841.0	10434.4	11659.6	11421.9	10327.7	10024.4	9806.1
57.5°	4151.0	4095.2	4201.9	4573.1	6618.2	9619.2	11380.6	11613.5	10808.1	10354.4	10051.1
60°	3267.9	3255.7	3212.1	3280.0	4182.5	7246.6	9473.7	9997.7	10759.5	10043.9	9626.5
62.5°	2668.6	2608.0	2695.3	2792.4	2906.4	4495.4	6657.1	6965.2	8542.1	8018.1	7232.0
65°	2069.4	2040.3	2149.5	2464.9	2532.8	2855.4	3791.9	4029.6	5043.8	4954.0	4362.0
67.5°	1424.1	1429.0	1523.6	2003.9	2348.4	2319.3	2321.8	2445.5	2632.3	1955.4	1703.1
70°	902.5	900.1	951.0	1290.6	1889.9	1909.3	1812.3	1775.8	1683.7	1018.9	1079.6
72.5°	579.8	562.8	589.5	713.2	977.7	1130.6	1164.5	1186.3	975.3	800.6	868.5
75°	327.5	310.5	300.8	332.4	385.7	446.4	490.1	504.6	565.2	606.5	642.9
77.5°	99.4	89.7	109.2	145.6	191.7	257.1	313.0	322.7	380.9	429.4	465.8
80°	43.7	48.5	68.0	97.0	135.9	182.0	220.8	235.3	274.1	310.5	320.2
82.5°	26.7	29.1	46.1	65.5	94.6	128.6	157.7	162.6	201.4	230.4	237.7
85°	9.7	12.1	24.3	38.8	60.7	82.4	82.4	89.7	82.4	82.4	89.7
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	9.7	9.7	12.1	14.6	17.0
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: P648425

CATALOG NUMBER: GALN-SA5B-835-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8	6256.8
2.5°	6273.8	6261.7	6242.2	6171.8	6164.6	6142.7	6021.4	6002.0	6021.4	5963.2	5968.1
5°	6261.7	6298.0	6152.4	6082.1	5951.1	5856.4	5747.3	5691.5	5592.0	5528.9	5599.3
7.5°	6315.0	6300.4	6118.5	5965.7	5769.1	5528.9	5337.3	5228.1	5053.5	5004.9	5041.3
10°	6295.6	6218.0	6004.4	5803.1	5431.9	5220.8	4910.3	4609.5	4444.5	4359.6	4347.5
12.5°	6268.9	6247.1	5890.4	5543.5	5152.9	4709.0	4272.3	3988.4	3719.1	3602.7	3619.7
15°	6300.4	6116.1	5676.9	5237.8	4718.7	4136.4	3665.8	3299.4	3112.6	3037.4	3037.4
17.5°	6285.8	6053.0	5575.0	4895.8	4238.3	3549.3	3032.6	2811.8	2734.2	2734.2	2756.0
20°	6293.1	6094.2	5368.9	4553.7	3670.6	2988.9	2612.9	2532.8	2566.8	2578.9	2591.0
22.5°	6334.4	5958.4	5167.5	4177.6	3144.1	2557.0	2372.6	2375.1	2435.8	2501.2	2489.2
25°	6385.4	5905.0	4922.4	3804.0	2741.4	2345.9	2287.8	2280.5	2326.6	2360.5	2365.4
27.5°	6341.7	5812.8	4672.6	3338.2	2411.5	2205.2	2193.2	2198.0	2212.5	2280.5	2258.6
30°	6484.8	5839.5	4359.6	2947.7	2229.5	2159.2	2144.6	2137.4	2159.2	2178.6	2161.6
32.5°	6661.9	5744.9	4126.7	2571.6	2139.8	2125.2	2096.1	2086.4	2098.5	2079.1	2088.8
35°	6739.5	5727.9	3823.5	2302.3	2069.4	2057.3	2040.3	2037.9	2040.3	2023.4	2008.8
37.5°	6783.2	5808.0	3476.5	2178.6	2025.8	2037.9	1999.1	1994.2	1950.5	1960.2	1967.5
40°	6858.5	5684.2	3195.1	2059.7	1999.1	1974.8	1940.8	1933.5	1904.4	1887.5	1904.4
42.5°	6749.2	5647.9	2918.6	2008.8	1960.2	1933.5	1909.3	1868.1	1858.4	1843.8	1834.1
45°	6661.9	5439.2	2671.0	1945.7	1914.1	1899.6	1853.5	1809.8	1773.4	1788.0	1766.1
47.5°	6727.5	5366.4	2426.0	1892.3	1851.1	1834.1	1788.0	1754.0	1717.7	1700.7	1695.8
50°	6989.4	5502.3	2219.8	1853.5	1797.7	1788.0	1727.4	1688.5	1654.6	1642.4	1647.3
52.5°	7615.4	5873.4	2079.1	1773.4	1746.7	1703.1	1669.1	1620.6	1598.7	1560.0	1584.2
55°	8408.6	6477.5	2042.7	1698.2	1683.7	1644.8	1598.7	1562.4	1521.1	1489.6	1482.3
56°	8663.4	6766.2	2013.6	1669.1	1644.8	1623.0	1562.4	1540.6	1475.0	1467.7	1462.9
57.5°	8869.6	7021.0	2018.5	1613.3	1589.0	1569.7	1533.3	1479.9	1436.3	1409.6	1421.7
60°	8403.8	6572.2	1926.3	1528.4	1523.6	1487.2	1436.3	1412.0	1358.6	1327.0	1319.7
62.5°	6247.1	4461.5	1562.4	1419.3	1416.8	1378.0	1319.7	1293.0	1283.4	1239.7	1239.7
65°	3597.8	2797.3	1351.3	1329.5	1310.0	1271.3	1213.0	1191.2	1166.9	1152.3	1140.2
67.5°	1535.7	1450.7	1227.6	1225.2	1203.3	1154.8	1096.6	1062.6	1031.1	1001.9	1016.5
70°	1113.6	1130.6	1108.7	1096.6	1069.9	1009.2	958.3	917.0	868.5	849.1	863.6
72.5°	883.1	919.5	951.0	953.5	921.9	851.5	795.8	739.9	686.5	659.9	672.0
75°	669.6	693.8	725.4	732.7	686.5	638.1	584.7	526.5	485.2	453.7	458.5
77.5°	482.8	477.9	507.1	502.2	480.4	446.4	397.8	344.5	298.4	269.3	271.7
80°	330.0	337.2	354.2	351.8	325.1	303.3	266.8	223.2	189.3	165.0	160.1
82.5°	230.4	242.6	257.1	245.0	223.2	201.4	174.7	143.1	116.4	97.0	92.2
85°	82.4	94.6	109.2	116.4	123.7	118.9	99.4	80.0	58.3	48.5	46.1
87.5°	17.0	19.4	21.8	21.8	21.8	19.4	17.0	17.0	14.6	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)