

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: P648549

Luminaire Tested: **GALN-SA7B-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648549
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-SA7B-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA 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: 23111.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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

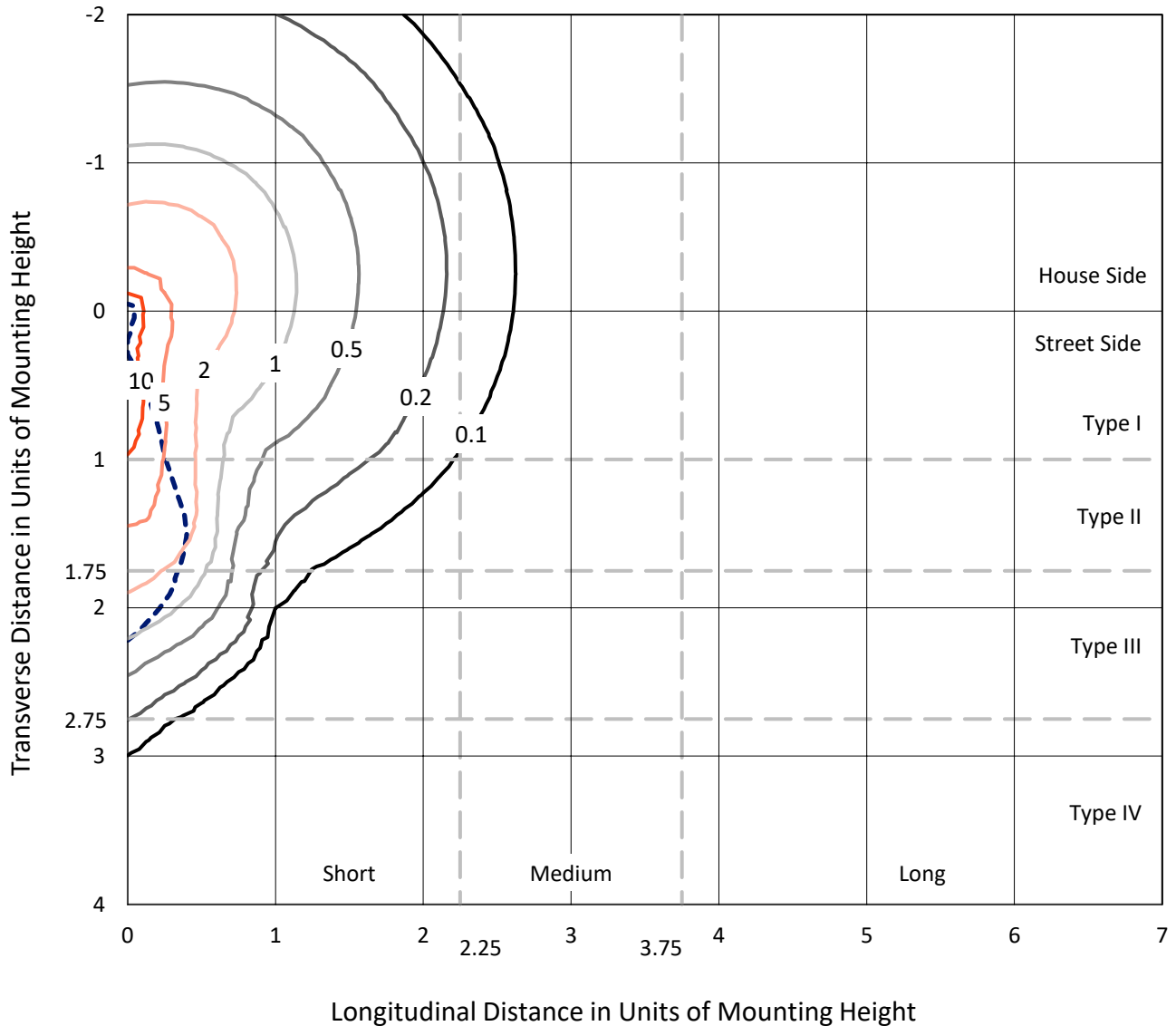




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Iso-Footcandle Lines of Horizontal Illumination

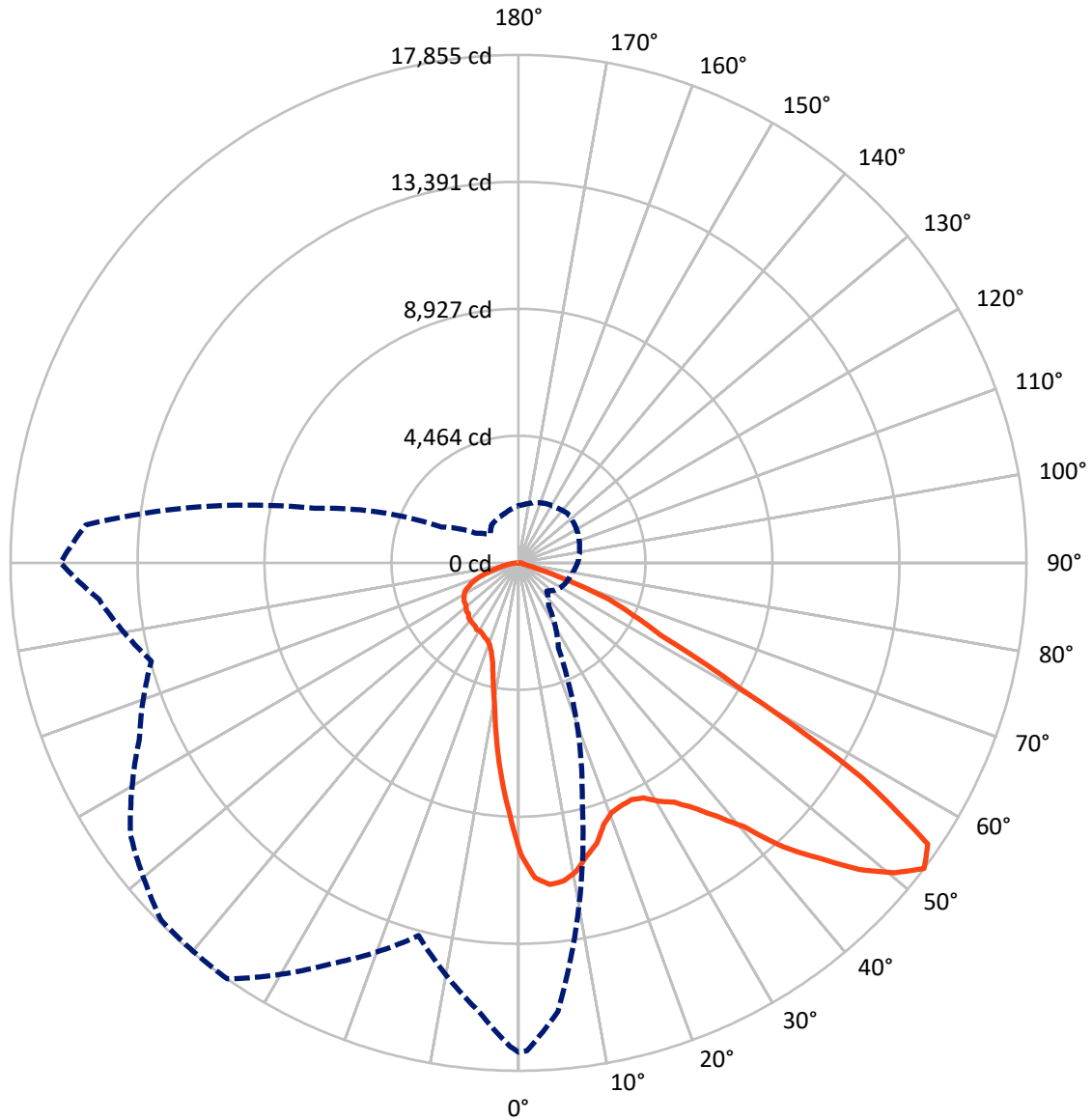
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical



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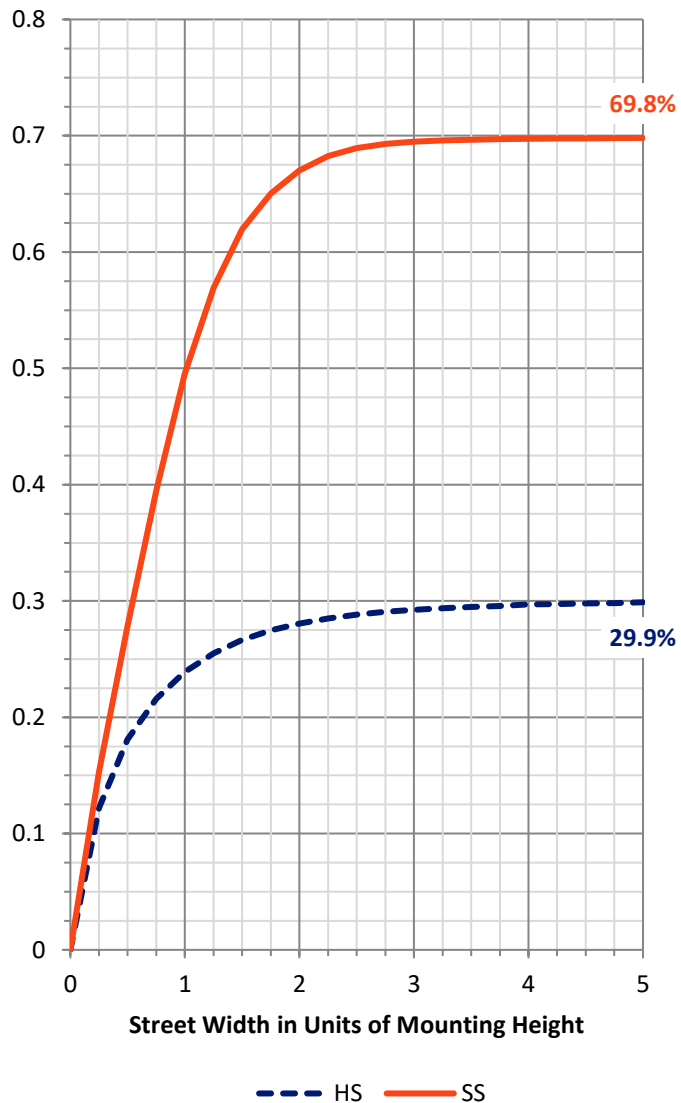
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6967.2	0.0	6967.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	16144.6	0.0	16144.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	23111.8	0.0	23111.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.5	3.4
10°-20°	1696.4	7.3
20°-30°	2563.1	11.1
30°-40°	3703.8	16.0
40°-50°	4929.2	21.3
50°-60°	5513.4	23.9
60°-70°	3107.3	13.4
70°-80°	692.7	3.0
80°-90°	123.3	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°	23111.8	100.0
0°-180°	23111.8	100.0

Coefficient of Utilization



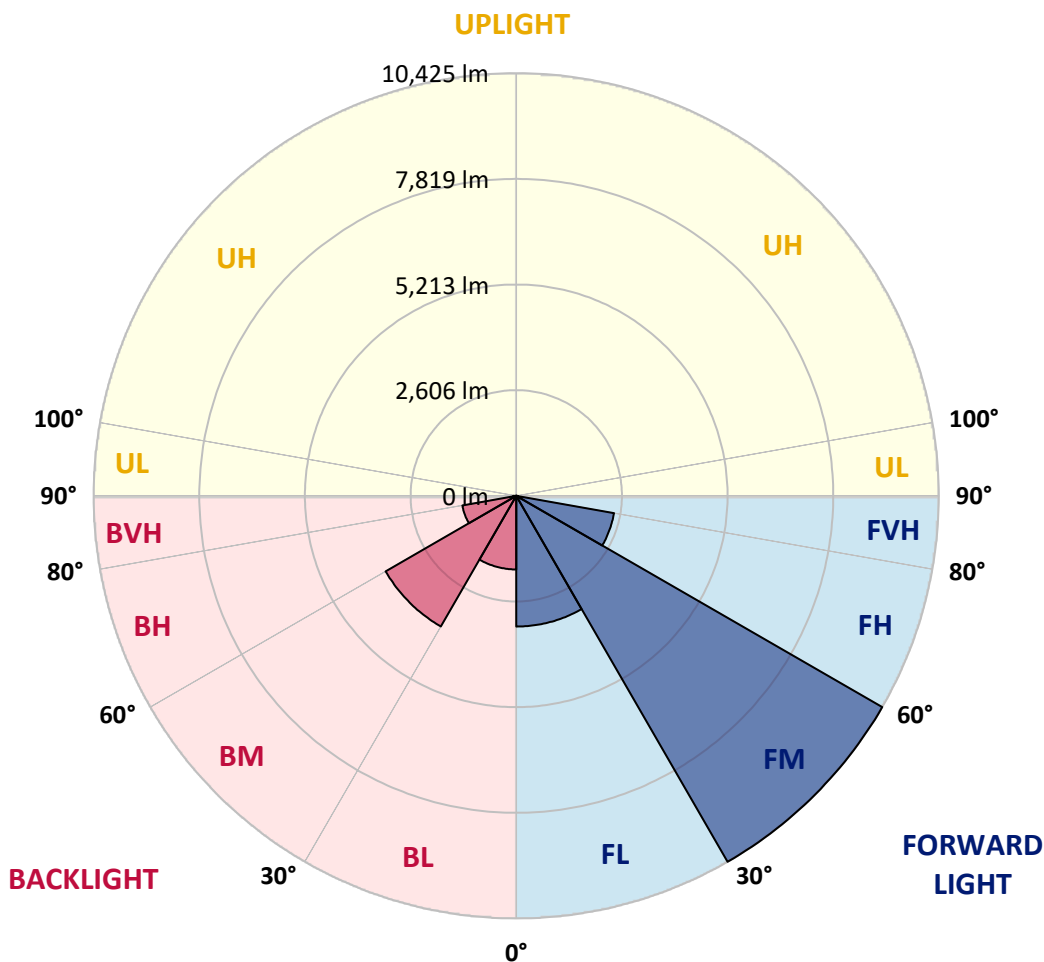
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3225.2	14.0			
FM (30°-60°)	10425.2	45.1			
FH (60°-80°)	2449.5	10.6			G2/5000
FVH (80°-90°)	44.7	0.2			G1/100
BL (0°-30°)	1816.9	7.9	B3/2500		
BM (30°-60°)	3721.2	16.1	B3/5000		
BH (60°-80°)	1350.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	78.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1
2.5°	10428.0	10595.5	10414.6	10093.0	9865.3	9657.5	9439.8	9396.2	9111.5	9061.3	8853.6
5°	9835.1	9798.2	9577.2	9155.1	8689.4	8267.4	7955.8	7654.4	7450.0	7212.1	7195.5
7.5°	9114.9	8900.5	8773.2	8133.4	7557.2	6893.9	6609.2	6150.3	6006.2	5791.9	5681.3
10°	8471.7	8314.3	8016.1	7376.3	6572.3	6133.6	5828.7	5580.8	5413.3	5192.2	4914.2
12.5°	8153.5	8089.8	7754.8	6763.3	6167.1	5698.0	5483.7	5242.5	4957.7	4602.6	4465.3
15°	8210.5	7996.0	7741.4	6646.0	5822.0	5369.7	5028.1	4726.6	4361.5	4023.1	3825.5
17.5°	8635.9	8471.7	7962.6	6719.8	5691.3	5038.1	4418.4	3972.9	3644.6	3339.8	3202.5
20°	9473.3	9235.5	8662.6	6813.5	5410.0	4575.9	3865.7	3316.3	2964.6	2803.8	2756.9
22.5°	10401.2	10260.5	9346.0	7024.6	5185.5	4147.1	3279.5	2730.1	2599.5	2555.9	2643.0
25°	11530.1	11165.0	10407.9	7369.6	5011.4	3782.0	2783.7	2478.9	2411.9	2455.4	2555.9
27.5°	12387.7	12290.5	11151.6	7694.5	4773.5	3343.1	2505.7	2304.7	2324.8	2368.3	2462.1
30°	13406.0	12913.5	11871.8	7918.9	4559.1	3041.6	2311.4	2257.8	2277.9	2351.6	2398.5
32.5°	14019.0	13834.7	12324.0	8257.3	4311.2	2780.4	2160.6	2110.4	2140.6	2251.0	2361.6
35°	14799.6	14434.4	12883.4	8344.4	4137.1	2676.5	2053.4	2016.6	2086.9	2164.0	2287.9
37.5°	15710.7	15459.5	13657.2	8284.1	4043.3	2569.3	1963.0	1946.2	1996.5	2103.7	2247.8
40°	16250.0	16172.9	14062.6	8320.9	3895.8	2475.5	1859.2	1879.3	1983.1	2066.8	2207.5
42.5°	16769.2	16266.7	14662.1	8307.6	3802.0	2348.2	1869.2	1845.8	1926.2	2023.3	2157.3
45°	16883.1	16384.0	14802.8	8213.7	3688.2	2224.3	1792.1	1802.2	1899.3	2020.0	2107.1
47.5°	16809.4	16441.0	15064.1	8187.0	3581.0	2137.2	1678.3	1798.9	1855.8	1953.0	2076.9
50°	16759.2	16739.1	15285.3	8314.3	3436.9	1999.9	1540.9	1755.3	1812.3	1909.4	2043.4
52.5°	17201.3	17157.8	15838.0	8649.3	3323.1	1852.4	1400.2	1644.8	1782.1	1875.9	2006.5
55°	17469.4	17278.4	16786.0	9061.3	3132.1	1658.2	1303.1	1507.4	1708.4	1792.1	1926.2
57.5°	15714.0	15583.4	15184.7	8458.3	2810.5	1403.6	1182.5	1366.7	1607.9	1738.6	1875.9
60°	13074.4	12870.0	11848.4	7188.7	2073.5	1092.1	1108.8	1256.2	1581.1	1631.4	1792.1
62.5°	12327.3	11821.5	10431.4	5785.1	1591.1	938.0	994.9	1155.7	1440.4	1524.2	1684.9
65°	9781.5	9406.3	7463.4	4177.2	1065.3	814.0	907.8	1041.8	1242.8	1406.9	1554.3
67.5°	6123.5	5765.1	3983.0	1976.4	743.7	696.8	810.6	951.3	1115.5	1262.9	1427.0
70°	3199.1	2807.1	1839.0	713.5	512.6	569.5	676.7	810.6	971.5	1092.1	1219.4
72.5°	1192.5	968.1	599.6	308.2	355.1	435.5	549.4	646.5	760.4	907.8	978.1
75°	184.2	157.5	154.1	187.6	241.2	314.9	391.9	489.1	589.6	683.4	730.2
77.5°	87.1	83.8	93.8	123.9	160.8	224.4	284.7	378.5	458.9	519.2	546.0
80°	56.9	53.6	60.3	83.8	120.6	167.5	227.8	291.4	365.1	415.4	408.6
82.5°	33.5	36.9	36.9	56.9	83.8	120.6	164.1	221.1	271.3	314.9	288.1
85°	20.1	16.8	16.8	33.5	56.9	97.2	137.3	93.8	97.2	97.2	110.6
87.5°	6.7	6.7	6.7	3.4	6.7	6.7	10.0	16.8	20.1	23.4	30.1
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°	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1
2.5°	8846.9	8950.7	8913.9	8783.2	8883.8	8900.5	8833.5	9064.6	9108.2	9037.9	9057.9
5°	7172.0	7198.7	7259.0	7386.4	7476.8	7584.0	7584.0	7590.7	7500.3	7728.1	7661.0
7.5°	5587.5	5604.2	5674.6	5945.9	6023.0	6227.4	6314.4	6254.1	6073.3	5996.2	6059.9
10°	4823.7	4726.6	4703.2	4736.7	4910.8	4998.0	5071.6	5051.5	5021.4	4961.1	4894.1
12.5°	4314.6	4244.3	4187.2	4106.9	4116.9	4200.7	4257.6	4210.7	4224.1	4237.5	4257.6
15°	3761.8	3711.6	3681.4	3560.8	3547.5	3604.4	3624.5	3651.3	3701.6	3704.9	3681.4
17.5°	3175.6	3132.1	3199.1	3266.0	3219.1	3222.5	3259.4	3282.8	3269.4	3209.1	3179.0
20°	2773.6	2820.5	2887.5	2951.2	3001.5	3031.6	3045.0	3008.1	2964.6	2840.6	2837.3
22.5°	2656.4	2716.7	2773.6	2870.8	2917.7	2994.7	2924.4	2840.6	2780.4	2720.1	2649.8
25°	2569.3	2619.5	2733.5	2770.3	2860.8	2924.4	2874.2	2790.4	2686.6	2599.5	2545.8
27.5°	2505.7	2562.6	2636.3	2736.8	2807.1	2844.0	2793.7	2760.2	2653.0	2549.2	2472.2
30°	2465.4	2525.8	2659.8	2743.5	2803.8	2834.0	2746.8	2706.7	2629.6	2542.5	2475.5
32.5°	2438.7	2492.3	2606.1	2713.3	2753.6	2753.6	2767.0	2720.1	2612.9	2465.4	2408.5
35°	2351.6	2425.3	2519.1	2643.0	2716.7	2760.2	2693.3	2639.6	2569.3	2418.6	2314.7
37.5°	2301.3	2351.6	2472.2	2589.4	2653.0	2699.9	2673.2	2579.4	2485.6	2361.6	2277.9
40°	2247.8	2328.1	2435.3	2545.8	2616.2	2663.1	2643.0	2532.5	2418.6	2301.3	2244.4
42.5°	2210.9	2264.5	2375.0	2498.9	2582.7	2673.2	2612.9	2475.5	2395.1	2234.4	2170.7
45°	2180.7	2267.8	2385.1	2435.3	2522.4	2616.2	2509.0	2425.3	2331.5	2214.2	2160.6
47.5°	2143.9	2224.3	2301.3	2435.3	2475.5	2519.1	2498.9	2365.0	2284.6	2157.3	2120.4
50°	2130.5	2160.6	2301.3	2375.0	2432.0	2475.5	2421.9	2321.4	2244.4	2113.7	2033.4
52.5°	2076.9	2133.8	2224.3	2321.4	2391.8	2445.4	2358.2	2294.7	2190.8	2053.4	2003.2
55°	2009.9	2043.4	2204.2	2304.7	2341.6	2378.4	2344.9	2241.0	2133.8	1993.1	1942.9
57.5°	1922.8	1999.9	2130.5	2271.2	2318.1	2338.2	2284.6	2200.9	2066.8	1942.9	1862.5
60°	1832.4	1912.7	2056.8	2170.7	2217.6	2291.3	2210.9	2160.6	2006.5	1869.2	1782.1
62.5°	1741.9	1832.4	1939.6	2083.6	2123.8	2154.0	2133.8	2063.5	1939.6	1785.5	1678.3
65°	1634.7	1701.7	1835.7	1909.4	1936.2	2006.5	1936.2	1909.4	1798.9	1651.4	1561.0
67.5°	1473.9	1530.8	1648.1	1718.5	1738.6	1768.7	1765.4	1735.2	1611.3	1510.8	1430.4
70°	1289.7	1339.9	1413.6	1497.4	1507.4	1544.2	1510.8	1504.1	1423.7	1286.3	1242.8
72.5°	1035.1	1082.0	1179.1	1216.0	1219.4	1232.8	1216.0	1192.5	1172.5	1028.4	984.9
75°	793.9	820.7	867.6	901.1	901.1	917.8	907.8	884.3	830.8	740.3	696.8
77.5°	552.7	579.5	639.8	659.9	656.5	663.3	633.1	609.6	529.3	482.4	445.5
80°	402.0	418.7	448.9	462.3	465.7	475.7	438.8	418.7	371.8	318.2	301.5
82.5°	291.4	301.5	304.8	321.6	321.6	304.8	294.8	274.7	241.2	207.7	194.3
85°	120.6	123.9	127.3	147.4	150.7	180.9	167.5	157.5	137.3	117.2	107.2
87.5°	30.1	33.5	43.5	36.9	43.5	43.5	46.9	53.6	53.6	43.5	43.5
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°	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1
2.5°	9134.9	9161.8	9503.4	9547.0	9714.5	9885.3	10230.4	10478.3	10679.3	10809.9	10846.7
5°	7731.4	7902.3	8059.7	8314.3	8545.4	8873.7	9252.2	9721.2	10310.8	10612.2	10732.8
7.5°	6053.1	6254.1	6481.9	6729.8	7068.1	7657.7	8163.6	8706.2	9459.9	9771.4	10243.8
10°	4941.0	5165.5	5466.9	5657.9	6066.5	6629.3	7218.9	7845.3	8565.5	9014.4	9560.4
12.5°	4368.2	4552.4	4830.5	5232.4	5537.3	5902.4	6341.2	7131.8	8163.6	8589.0	8964.1
15°	3735.1	3939.4	4261.0	4706.5	5071.6	5507.1	5999.5	6860.4	7959.2	8615.7	8934.0
17.5°	3212.5	3359.9	3698.2	4083.4	4502.2	4977.8	5684.7	6847.0	8173.6	9014.4	9533.6
20°	2850.7	2870.8	3055.0	3383.3	3952.8	4572.5	5490.4	6780.1	8860.3	9701.1	10357.7
22.5°	2622.9	2602.8	2606.1	2884.2	3282.8	4173.9	5185.5	7007.8	9640.8	10793.1	11235.3
25°	2509.0	2455.4	2421.9	2482.2	2844.0	3701.6	4954.4	7309.3	10481.6	11694.3	12236.9
27.5°	2448.8	2355.0	2287.9	2297.9	2562.6	3463.8	4810.4	7440.0	11315.7	12950.4	13141.3
30°	2425.3	2308.0	2210.9	2177.4	2351.6	3132.1	4502.2	7664.4	12062.7	13640.5	13804.6
32.5°	2341.6	2197.5	2103.7	2073.5	2143.9	2840.6	4281.1	7825.2	12722.7	14390.8	14333.9
35°	2244.4	2123.8	2006.5	1949.6	1999.9	2653.0	4103.5	7748.2	13499.8	14973.7	14943.6
37.5°	2234.4	2076.9	1979.7	1885.9	1882.6	2421.9	3862.4	7821.9	13995.6	16018.8	15606.8
40°	2147.2	2046.8	1919.4	1842.4	1798.9	2304.7	3627.9	7647.6	14722.5	16441.0	16035.6
42.5°	2150.6	1999.9	1889.3	1798.9	1755.3	2133.8	3467.0	7600.7	14977.1	17127.7	16236.6
45°	2097.0	1949.6	1855.8	1748.6	1725.2	2003.2	3313.0	7383.0	15426.0	17161.2	15985.3
47.5°	2043.4	1912.7	1812.3	1684.9	1631.4	1956.3	3192.4	7202.1	15191.5	16846.2	15637.0
50°	2006.5	1855.8	1762.0	1671.5	1520.8	1875.9	3034.9	7158.6	14863.1	16420.8	14990.5
52.5°	1942.9	1808.9	1711.8	1641.4	1400.2	1802.2	2974.6	7413.1	15265.1	16102.6	14802.8
55°	1882.6	1745.2	1621.3	1483.9	1299.7	1607.9	2807.1	7651.0	15851.4	16836.2	15653.7
57.5°	1819.0	1688.3	1554.3	1390.1	1202.6	1406.9	2633.0	7694.5	14752.7	15559.9	14859.9
60°	1735.2	1567.7	1467.2	1252.8	1098.7	1165.7	2086.9	6783.4	11443.0	12994.0	13017.5
62.5°	1641.4	1460.5	1373.5	1122.2	991.5	1005.0	1701.7	5701.4	9282.4	10756.3	11396.1
65°	1517.5	1343.3	1239.4	1038.4	914.5	870.9	1246.1	4177.2	7051.4	8726.3	9453.2
67.5°	1356.7	1192.5	1061.9	904.4	817.4	747.0	850.9	2351.6	4163.8	5858.9	6079.9
70°	1185.9	1045.1	907.8	777.1	680.0	629.8	623.0	1041.8	1989.8	3152.2	3587.6
72.5°	934.6	834.1	723.6	626.4	562.7	489.1	445.5	432.1	673.3	1282.9	1772.1
75°	669.9	586.2	522.6	458.9	412.0	371.8	338.3	308.2	281.4	321.6	442.2
77.5°	422.1	391.9	341.7	324.9	298.2	288.1	274.7	257.9	237.9	224.4	224.4
80°	284.7	264.7	247.9	244.5	234.5	231.1	234.5	217.8	197.6	180.9	187.6
82.5°	191.0	187.6	184.2	180.9	184.2	187.6	194.3	191.0	174.2	164.1	167.5
85°	113.9	120.6	127.3	134.0	147.4	130.6	107.2	90.4	80.4	73.7	70.3
87.5°	43.5	60.3	53.6	50.3	53.6	50.3	46.9	43.5	36.9	33.5	33.5
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: P648549

CATALOG NUMBER: GALN-SA7B-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1	10257.1
2.5°	11091.3	11158.3	11215.2	11201.8	11084.5	10927.2	10863.5	10538.6	10471.5	10428.0
5°	11242.0	11630.6	11714.3	11664.1	11359.3	10974.1	10598.8	10123.2	9845.1	9835.1
7.5°	10964.0	11443.0	11593.7	11707.7	11302.3	10632.4	9989.2	9275.7	9101.4	9114.9
10°	10257.1	11021.0	11392.7	11510.0	11044.4	10464.9	9573.8	8850.2	8478.4	8471.7
12.5°	9865.3	10464.9	10568.7	10732.8	10595.5	10009.2	9332.6	8521.9	8160.2	8153.5
15°	9516.8	9912.2	9942.3	10173.4	10247.1	9851.9	9396.2	8532.0	8240.6	8210.5
17.5°	9821.7	9547.0	9433.1	9463.3	9681.0	9825.0	9764.7	9101.4	8803.3	8635.9
20°	10026.0	9413.0	9068.0	9101.4	9359.4	9885.3	10314.1	9925.5	9453.2	9473.3
22.5°	10572.1	9433.1	8893.8	8856.9	9265.6	10200.2	10933.8	10967.3	10511.8	10401.2
25°	11389.4	9664.3	8840.2	8830.1	9222.1	10538.6	11657.4	12200.1	11734.4	11530.1
27.5°	12046.0	10026.0	9007.7	9041.1	9359.4	10813.2	12273.8	12994.0	12638.9	12387.7
30°	12622.1	10401.2	9242.1	9088.0	9727.9	10957.3	12538.4	13898.4	13613.7	13406.0
32.5°	12860.0	10933.8	9614.0	9359.4	10032.7	11131.4	13087.8	14776.1	14531.5	14019.0
35°	13262.0	11232.0	9815.0	9794.9	10565.3	11550.2	13345.7	15355.6	15255.1	14799.6
37.5°	13583.6	11533.4	10528.5	10307.4	11295.6	12253.6	13761.1	16156.2	15925.0	15710.7
40°	13831.5	12072.8	11195.1	11486.5	12193.3	12893.5	14142.9	16206.5	16873.1	16250.0
42.5°	13603.6	12555.2	12290.5	12987.3	13657.2	13623.7	14186.5	16595.1	17094.1	16769.2
45°	13546.7	13372.5	14022.4	14655.5	14809.6	14230.1	13875.0	16166.3	17027.2	16883.1
47.5°	13409.3	14176.4	15308.7	16340.4	16106.0	14635.4	13503.1	16089.2	17067.4	16809.4
50°	13362.4	14350.7	16260.0	17265.0	17124.3	14987.1	13328.9	15593.4	16782.6	16759.2
52.5°	13359.1	14709.0	16655.3	17767.4	17854.6	15543.2	13566.8	15844.7	17003.7	17201.3
55°	13509.9	14595.2	16605.1	17489.4	17456.0	15295.3	13593.6	16012.2	17275.0	17469.4
57.5°	12742.7	13074.4	13704.1	14404.2	14223.4	12669.0	12139.8	14802.8	15854.7	15714.0
60°	11004.2	9965.7	9255.5	9222.1	8870.4	8384.6	9935.6	13211.7	13211.7	13074.4
62.5°	9637.5	6542.2	5621.0	5359.7	5611.0	6170.4	9583.8	12849.9	12484.8	12327.3
65°	8428.1	4994.6	4063.3	3989.6	4425.1	5269.3	8666.0	10947.2	10304.0	9781.5
67.5°	5423.4	3658.0	3021.5	2890.9	3416.9	3869.0	5768.4	6733.2	6327.8	6123.5
70°	3497.2	2381.7	1681.6	1577.7	1782.1	2385.1	3684.8	3926.0	3336.4	3199.1
72.5°	1654.8	1028.4	589.6	485.7	546.0	911.2	1457.2	1567.7	1303.1	1192.5
75°	525.9	378.5	241.2	207.7	197.6	234.5	335.0	257.9	187.6	184.2
77.5°	234.5	224.4	191.0	160.8	140.7	117.2	97.2	80.4	83.8	87.1
80°	194.3	177.5	157.5	140.7	117.2	90.4	70.3	53.6	53.6	56.9
82.5°	170.9	154.1	137.3	117.2	100.5	73.7	53.6	36.9	33.5	33.5
85°	73.7	87.1	93.8	100.5	80.4	60.3	36.9	23.4	20.1	20.1
87.5°	30.1	26.8	23.4	20.1	16.8	16.8	13.4	10.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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