

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: P955719

Luminaire Tested: **GALN-SB8C-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41529 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

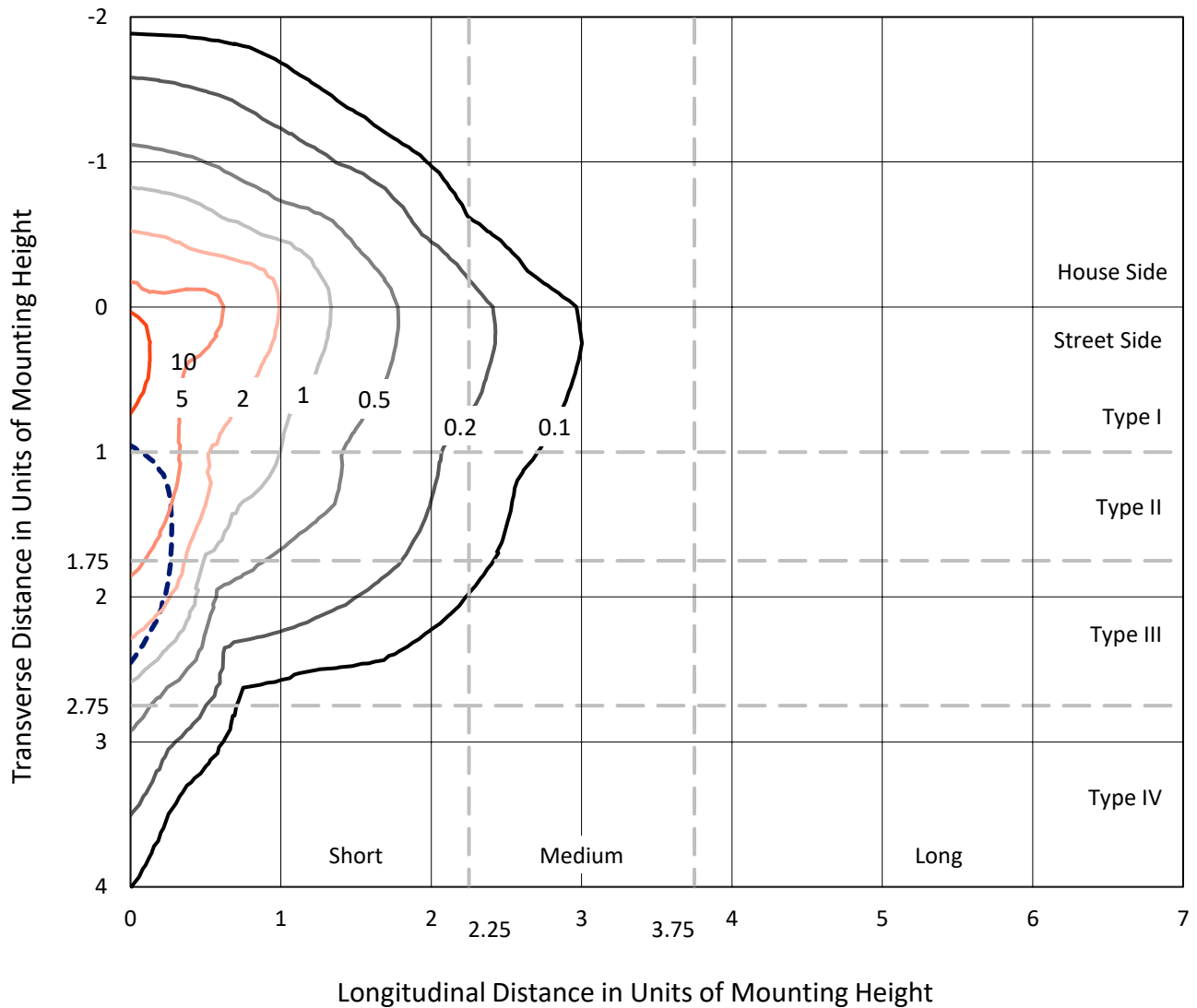
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

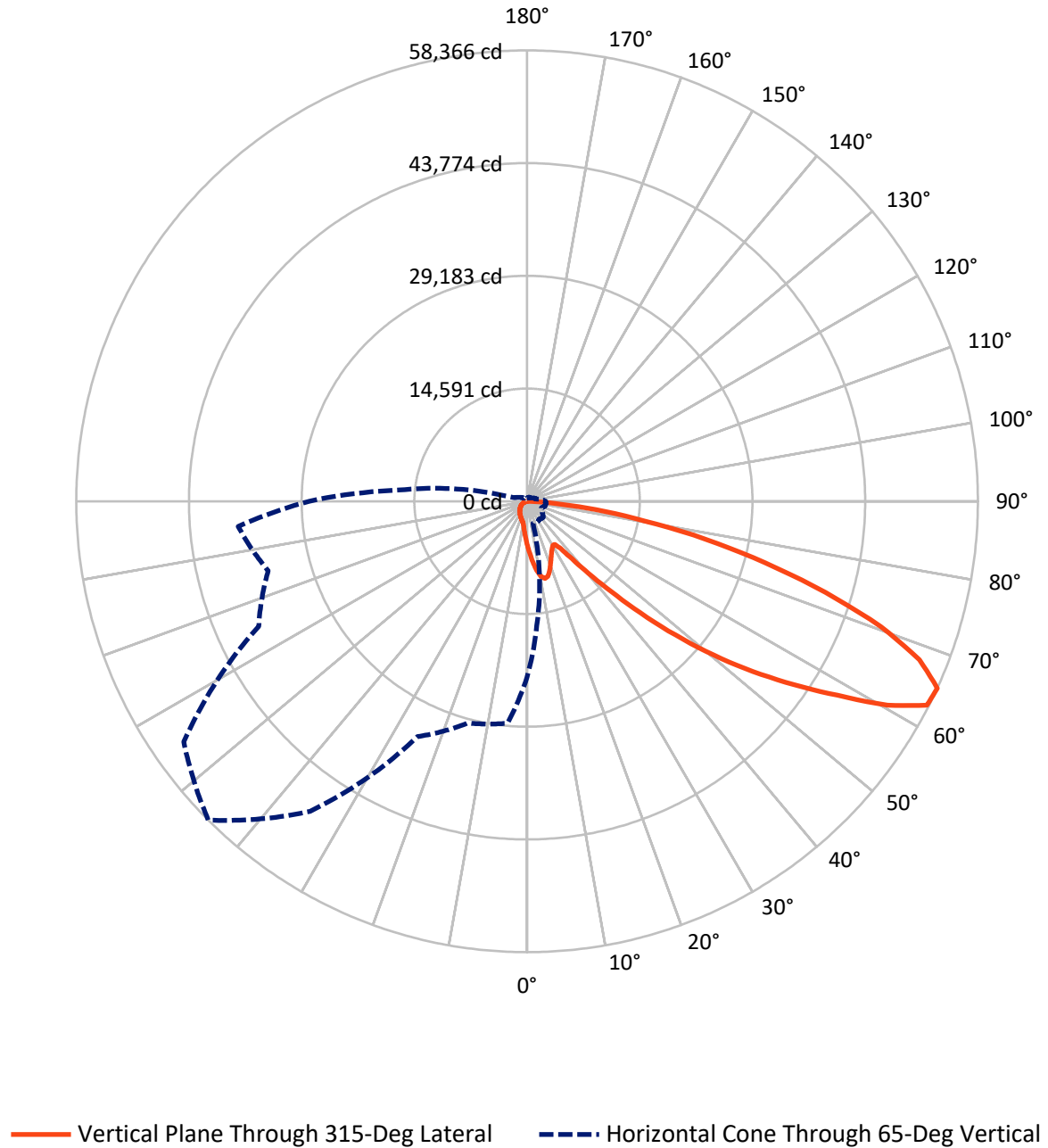
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5815.8	0.0	5815.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	35713.2	0.0	35713.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	41529.0	0.0	41529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.2	1.4
10°-20°	1697.1	4.1
20°-30°	2500.2	6.0
30°-40°	3212.1	7.7
40°-50°	5195.0	12.5
50°-60°	9109.9	21.9
60°-70°	11399.0	27.4
70°-80°	6661.0	16.0
80°-90°	1188.4	2.9
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°	41529.0	100.0
0°-180°	41529.0	100.0

Coefficient of Utilization



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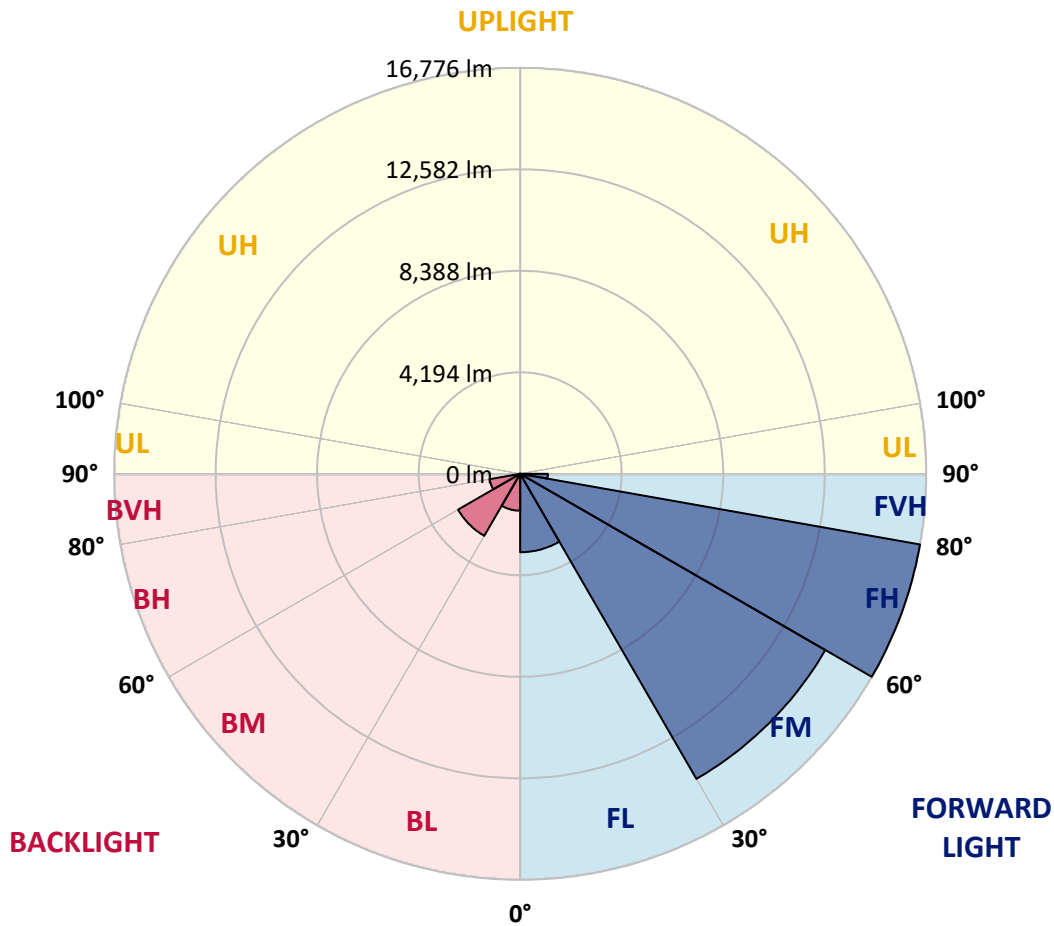
CATALOG NUMBER: GALN-SB8C-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3239.1	7.8			
FM (30°-60°)	14555.5	35.0			
FH (60°-80°)	16775.8	40.4			G5
FVH (80°-90°)	1142.8	2.8			G5
BL (0°-30°)	1524.4	3.7	B3/2500		
BM (30°-60°)	2961.6	7.1	B3/5000		
BH (60°-80°)	1284.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	45.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4
2.5°	6497.1	6385.6	6319.8	6156.7	5993.6	5862.0	5684.6	5567.3	5427.2	5292.7
5°	7241.0	7060.7	6843.3	6545.8	6274.0	5996.5	5727.6	5461.5	5181.1	4923.6
7.5°	7870.4	7610.0	7226.7	6831.9	6485.7	6151.0	5836.3	5484.4	5143.9	4740.5
10°	8351.0	8019.1	7515.6	6997.8	6600.1	6262.5	5956.4	5658.9	5315.6	4829.2
12.5°	8642.8	8288.1	7690.1	7083.6	6628.7	6251.1	6013.6	5882.0	5747.6	5264.1
15°	8857.4	8474.0	7813.2	7143.7	6562.9	6099.5	5925.0	6056.6	6211.0	5902.1
17.5°	9080.5	8677.2	7973.4	7169.5	6385.6	5804.8	5730.4	6070.9	6428.5	6414.2
20°	9292.2	8891.7	8113.6	7152.3	6099.5	5447.2	5513.0	5947.8	6362.7	6537.2
22.5°	9535.4	9112.0	8248.0	7086.5	5727.6	5112.5	5318.4	5753.3	6116.6	6322.6
25°	9833.0	9389.5	8436.8	6989.2	5327.0	4834.9	5121.0	5527.3	5822.0	5965.0
27.5°	10153.4	9721.4	8688.6	6937.7	5003.7	4637.5	4897.9	5258.4	5521.6	5621.7
30°	10551.1	10107.6	8986.1	6880.5	4792.0	4523.1	4666.2	4946.5	5204.0	5304.1
32.5°	10985.9	10536.7	9272.2	6743.2	4663.3	4437.3	4440.1	4617.5	4852.1	4972.3
35°	11529.5	11051.7	9578.3	6442.8	4560.3	4337.1	4219.8	4305.7	4500.2	4643.3
37.5°	12304.8	11726.9	9953.1	6013.6	4408.7	4182.7	3988.1	4008.1	4156.9	4314.3
40°	13374.8	12633.8	10393.7	5567.3	4191.2	3965.2	3733.5	3724.9	3833.6	3988.1
42.5°	14822.4	13832.5	10923.0	5141.1	3982.4	3702.0	3464.6	3450.3	3536.1	3670.6
45°	16733.5	15366.0	11572.4	4774.9	3819.3	3444.5	3209.9	3204.2	3275.7	3393.0
47.5°	19179.6	17497.4	12221.8	4526.0	3733.5	3241.4	3001.1	3012.5	3075.5	3181.3
50°	22346.6	20275.3	12419.2	4400.1	3733.5	3132.7	2815.1	2872.4	2923.9	3004.0
52.5°	26143.0	22941.7	11766.9	4285.6	3756.4	3147.0	2657.8	2780.8	2818.0	2886.7
55°	29662.0	24249.1	10116.2	4128.3	3762.1	3235.7	2523.3	2706.4	2775.1	2800.8
57.5°	31704.7	23799.9	8179.4	3862.2	3739.2	3295.8	2437.5	2614.9	2746.5	2763.6
60°	31315.6	22223.6	6022.2	3659.1	3570.4	3272.9	2411.8	2474.7	2683.5	2709.3
62.5°	28317.3	19580.1	4179.8	3501.8	3198.5	3172.8	2403.2	2254.4	2546.2	2609.2
65°	22761.4	15414.6	2952.5	3015.4	2803.7	2955.3	2357.4	2025.5	2380.3	2466.1
67.5°	16513.2	10430.9	2131.4	2443.2	2540.5	2603.4	2254.4	1859.6	2191.5	2305.9
70°	10596.8	5633.1	1496.3	1613.6	2140.0	2211.5	2077.0	1710.8	1999.8	2131.4
72.5°	7532.8	3327.2	1075.7	1130.1	1719.4	1842.4	1828.1	1544.9	1776.6	1936.8
75°	5198.3	1833.8	726.7	806.8	1247.4	1496.3	1410.4	1327.5	1504.8	1667.9
77.5°	3258.6	821.1	434.9	560.7	818.2	1175.8	967.0	1027.1	1173.0	1324.6
80°	1813.8	317.6	243.2	371.9	446.3	855.4	535.0	660.9	864.0	972.7
82.5°	394.8	40.1	108.7	160.2	174.5	497.8	283.2	383.4	543.6	535.0
85°	0.0	0.0	20.0	22.9	11.4	214.6	103.0	125.9	177.4	165.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5750.4	0°	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4
5172.5	2.5°	5149.6	5009.5	4906.5	4855.0	4812.1	4852.1	4875.0	4875.0	4972.3	5029.5
4766.3	5°	4666.2	4414.4	4222.7	4094.0	4016.7	4042.5	4071.1	4102.6	4225.6	4308.5
4526.0	7.5°	4331.4	3945.2	3653.4	3473.1	3378.7	3393.0	3413.1	3438.8	3559.0	3641.9
4560.3	10°	4268.5	3713.5	3301.5	3064.0	2949.6	2929.6	2918.1	2909.5	2981.1	3044.0
4949.4	12.5°	4526.0	3724.9	3149.9	2860.9	2720.7	2660.7	2592.0	2537.6	2549.1	2589.1
5538.7	15°	4986.6	3870.8	3101.2	2755.1	2580.5	2480.4	2400.3	2334.5	2320.2	2334.5
6053.7	17.5°	5513.0	4068.2	3095.5	2663.5	2446.1	2343.1	2277.3	2217.2	2197.2	2200.0
6342.6	20°	5862.0	4225.6	3078.3	2560.5	2317.3	2225.8	2168.6	2108.5	2088.5	2094.2
6262.5	22.5°	5896.3	4308.5	3052.6	2446.1	2188.6	2111.4	2054.1	1999.8	1996.9	1996.9
5962.1	25°	5710.4	4308.5	2998.2	2343.1	2065.6	1996.9	1945.4	1879.6	1891.1	1896.8
5621.7	27.5°	5421.4	4205.5	2895.2	2260.1	1959.7	1888.2	1836.7	1776.6	1790.9	1799.5
5304.1	30°	5135.3	4073.9	2772.2	2165.7	1859.6	1776.6	1739.4	1687.9	1693.7	1705.1
4989.4	32.5°	4869.3	3933.8	2626.3	2088.5	1759.5	1676.5	1647.9	1590.7	1599.3	1610.7
4680.5	35°	4606.1	3779.3	2454.7	1996.9	1667.9	1584.9	1562.1	1496.3	1502.0	1519.1
4371.5	37.5°	4322.8	3616.2	2314.5	1905.4	1579.2	1493.4	1470.5	1401.8	1407.6	1427.6
4051.1	40°	4025.3	3456.0	2177.2	1808.1	1484.8	1399.0	1379.0	1304.6	1310.3	1333.2
3736.4	42.5°	3724.9	3281.5	2071.3	1682.2	1387.5	1296.0	1276.0	1207.3	1215.9	1241.6
3461.7	45°	3447.4	3072.6	2002.6	1542.0	1296.0	1193.0	1173.0	1110.0	1127.2	1155.8
3230.0	47.5°	3209.9	2858.1	1974.0	1424.7	1198.7	1087.1	1070.0	1018.5	1047.1	1078.6
3032.6	50°	3006.8	2652.1	1936.8	1304.6	1107.2	995.6	978.4	944.1	981.3	1012.8
2898.1	52.5°	2860.9	2417.5	1856.7	1195.9	1027.1	918.4	912.6	895.5	929.8	958.4
2798.0	55°	2735.0	2174.3	1728.0	1101.5	955.5	852.6	858.3	849.7	878.3	901.2
2737.9	57.5°	2620.6	1962.6	1564.9	1027.1	878.3	795.3	812.5	801.1	815.4	829.7
2675.0	60°	2483.3	1748.0	1370.4	944.1	786.8	738.1	758.1	726.7	723.8	729.5
2560.5	62.5°	2280.1	1459.1	1167.3	841.1	706.6	675.2	683.8	623.7	577.9	577.9
2391.7	65°	1996.9	1173.0	978.4	726.7	615.1	589.3	583.6	497.8	434.9	429.1
2208.6	67.5°	1667.9	964.1	812.5	612.2	512.1	494.9	500.7	437.7	374.8	369.1
2025.5	70°	1358.9	798.2	655.1	489.2	394.8	412.0	437.7	374.8	314.7	306.1
1811.0	72.5°	1104.3	635.1	512.1	374.8	291.8	340.4	371.9	306.1	248.9	243.2
1544.9	75°	852.6	466.3	366.2	254.6	211.7	263.2	291.8	223.2	177.4	168.8
1195.9	77.5°	569.3	289.0	206.0	160.2	125.9	180.2	194.5	117.3	103.0	100.1
869.7	80°	346.2	134.5	88.7	77.2	42.9	65.8	77.2	48.6	54.4	57.2
463.5	82.5°	174.5	37.2	14.3	2.9	0.0	0.0	22.9	11.4	22.9	28.6
125.9	85°	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.3
0.0	87.5°	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
5750.4	0°	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4
5052.4	2.5°	5212.6	5332.7	5447.2	5630.3	5819.1	6005.1	6193.9	6377.0	6442.8	6491.4
4362.9	5°	4611.8	4837.8	5101.0	5464.3	5853.4	6254.0	6660.2	7032.1	7200.9	7315.4
3713.5	7.5°	3991.0	4285.6	4663.3	5209.7	5819.1	6457.1	7095.1	7681.6	7953.3	8173.6
3101.2	10°	3375.9	3696.3	4174.1	4797.8	5621.7	6537.2	7418.4	8225.1	8577.0	8854.5
2660.7	12.5°	2835.2	3135.6	3636.2	4325.7	5312.7	6474.2	7604.3	8574.2	8989.0	9300.8
2345.9	15°	2454.7	2666.4	3109.8	3853.7	4946.5	6271.1	7615.8	8740.1	9195.0	9521.1
2214.3	17.5°	2243.0	2314.5	2603.4	3373.0	4540.3	6005.1	7509.9	8797.3	9283.7	9586.9
2097.1	20°	2128.5	2140.0	2220.1	2749.3	4019.6	5756.2	7409.8	8854.5	9366.6	9621.3
2014.1	22.5°	2037.0	2037.0	2057.0	2248.7	3347.3	5458.6	7378.3	8954.7	9481.1	9638.4
1919.7	25°	1954.0	1954.0	1959.7	2011.2	2652.1	5003.7	7358.3	9109.2	9638.4	9681.3
1825.3	27.5°	1868.2	1871.0	1871.0	1899.6	2137.1	4385.8	7272.4	9309.4	9827.2	9738.6
1733.7	30°	1782.3	1788.1	1788.1	1808.1	1891.1	3662.0	7103.7	9549.7	10073.3	9812.9
1642.2	32.5°	1696.5	1702.2	1702.2	1719.4	1779.5	2923.9	6891.9	9770.0	10322.2	9844.4
1553.5	35°	1607.8	1616.4	1610.7	1633.6	1696.5	2325.9	6623.0	9990.3	10591.1	9944.5
1467.6	37.5°	1519.1	1524.9	1522.0	1544.9	1616.4	2008.4	6311.2	10156.2	10957.3	10167.7
1376.1	40°	1430.5	1427.6	1427.6	1453.3	1530.6	1916.8	5919.2	10419.4	11483.7	10559.6
1284.6	42.5°	1338.9	1338.9	1333.2	1361.8	1456.2	1848.2	5544.5	10891.5	12250.4	11183.3
1198.7	45°	1255.9	1253.1	1241.6	1267.4	1384.7	1728.0	5412.8	11772.7	13383.4	12193.2
1112.9	47.5°	1175.8	1173.0	1144.4	1167.3	1298.9	1619.3	5904.9	13214.6	14954.0	13678.0
1044.2	50°	1104.3	1107.2	1052.8	1072.8	1213.0	1536.3	6972.0	15085.6	17039.6	15677.8
987.0	52.5°	1038.5	1038.5	967.0	978.4	1107.2	1461.9	7987.7	17114.0	19791.8	18467.2
926.9	55°	972.7	967.0	886.9	892.6	1001.3	1356.1	8139.3	19093.7	23545.3	22664.2
861.1	57.5°	898.3	886.9	812.5	812.5	904.0	1278.8	7055.0	20615.7	28202.9	28832.3
738.1	60°	806.8	798.2	749.6	735.3	826.8	1347.5	4978.0	20793.1	31206.9	37034.5
586.5	62.5°	689.5	700.9	675.2	655.1	752.4	1399.0	2949.6	19365.5	30480.2	39643.7
454.9	65°	543.6	589.3	583.6	569.3	826.8	1178.7	1742.3	16624.8	28251.5	37538.1
397.7	67.5°	463.5	494.9	486.4	486.4	866.9	895.5	1095.7	12988.6	25184.6	35040.5
331.9	70°	394.8	426.3	394.8	394.8	655.1	543.6	758.1	9069.1	21874.6	32276.8
266.1	72.5°	326.1	357.6	323.3	300.4	523.5	406.2	555.0	5667.5	18733.3	29398.8
188.8	75°	248.9	286.1	260.3	231.7	346.2	303.3	420.6	3292.9	15520.5	25153.2
114.4	77.5°	157.4	206.0	194.5	163.1	254.6	220.3	303.3	1959.7	11975.8	19654.5
68.7	80°	97.3	105.9	108.7	103.0	145.9	148.8	206.0	1115.8	8196.5	13698.1
42.9	82.5°	62.9	62.9	48.6	54.4	71.5	85.8	117.3	420.6	4817.8	8339.6
25.7	85°	45.8	40.1	25.7	25.7	34.3	42.9	45.8	128.7	1954.0	3292.9
11.4	87.5°	22.9	20.0	8.6	11.4	17.2	14.3	11.4	5.7	492.1	1052.8
0.0	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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 CATALOG NUMBER: GALN-SB8C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
5750.4	0°	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4	5750.4
6600.1	2.5°	6657.3	6746.0	6751.8	6751.8	6674.5	6671.7	6514.3	6497.1
7572.8	5°	7838.9	7896.1	7910.4	7881.8	7727.3	7612.9	7306.8	7241.0
8565.6	7.5°	8920.3	9034.8	9034.8	8966.1	8714.3	8479.7	8036.3	7870.4
9386.7	10°	9784.3	9915.9	9887.3	9747.1	9429.6	9106.3	8568.4	8351.0
9884.5	12.5°	10204.9	10339.3	10265.0	10104.7	9795.8	9455.3	8888.9	8642.8
10027.5	15°	10196.3	10159.1	10081.9	10061.8	9913.1	9655.6	9126.3	8857.4
9938.8	17.5°	9833.0	9518.3	9458.2	9658.4	9847.3	9784.3	9332.3	9080.5
9727.1	20°	9257.9	8708.6	8654.3	9037.6	9575.5	9850.1	9524.0	9292.2
9421.0	22.5°	8651.4	8059.2	7933.3	8356.7	9166.4	9870.2	9767.2	9535.4
9083.4	25°	8076.4	7481.3	7355.4	7750.2	8711.5	9835.8	10030.4	9833.0
8760.1	27.5°	7595.7	7020.7	6903.4	7298.2	8273.8	9738.6	10293.6	10153.4
8439.7	30°	7223.8	6691.7	6605.9	6986.4	7896.1	9618.4	10628.3	10551.1
8142.2	32.5°	7006.4	6617.3	6648.8	6960.6	7693.0	9486.8	10948.7	10985.9
7996.3	35°	7220.9	7238.1	7512.8	7641.5	7881.8	9466.8	11383.6	11529.5
8170.8	37.5°	8288.1	8883.1	9452.5	9346.6	8805.9	9698.5	12033.0	12304.8
8931.8	40°	10104.7	11326.4	12250.4	11847.0	10485.3	10408.0	12968.5	13374.8
10282.1	42.5°	12324.8	14396.1	15918.1	14836.7	12651.0	11649.6	14304.6	14822.4
11915.7	45°	14667.9	18181.1	20578.6	18329.9	14959.7	13389.1	16327.2	16733.5
13446.3	47.5°	17136.9	22781.5	25882.7	22203.6	17099.7	15368.8	19085.2	19179.6
14896.8	50°	19837.6	27825.3	31289.8	26074.4	19165.3	17637.5	22455.3	22346.6
16587.6	52.5°	22409.5	33012.1	36582.5	29962.4	20979.1	20452.7	26366.2	26143.0
18899.2	55°	24864.2	38196.1	41906.7	33698.7	22689.9	24171.9	31012.3	29662.0
22232.2	57.5°	27710.8	42856.5	47393.9	37452.2	25081.6	29001.1	36207.7	31704.7
28614.9	60°	31919.2	48152.0	53599.2	42596.2	29630.5	34076.3	38070.2	31315.6
36259.2	62.5°	37292.0	53021.3	58110.9	47637.1	34199.4	35031.9	35326.6	28317.3
34700.0	65°	38336.3	54254.4	58365.5	48984.6	33610.0	29716.3	28840.9	22761.4
30995.1	67.5°	35566.9	52025.7	54806.5	46475.6	29730.6	22964.6	21642.8	16513.2
28563.4	70°	32459.9	47777.3	48604.1	42209.9	26148.8	16890.8	14616.4	10596.8
26898.3	72.5°	29275.7	42109.8	40399.0	36656.9	22981.7	12299.1	10542.5	7532.8
24526.6	75°	25493.6	34657.1	31821.9	30457.3	19027.9	9652.7	7627.2	5198.3
21096.4	77.5°	20415.5	24395.0	23636.9	23608.3	14298.8	7052.2	5089.6	3258.6
16481.7	80°	14401.8	15832.3	15446.1	17780.6	9592.6	5115.3	3064.0	1813.8
11472.3	82.5°	6972.0	8754.4	8986.1	10588.2	4666.2	3009.7	706.6	394.8
4485.9	85°	2729.3	4222.7	3561.8	4019.6	1310.3	838.2	17.2	0.0
738.1	87.5°	306.1	489.2	449.2	354.8	160.2	34.3	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)