

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: P956790

Luminaire Tested: **GALN-SB9B-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956790
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-SB9B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA 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: 35173 lumens
Efficiency: N/A
Efficacy: 106.7 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

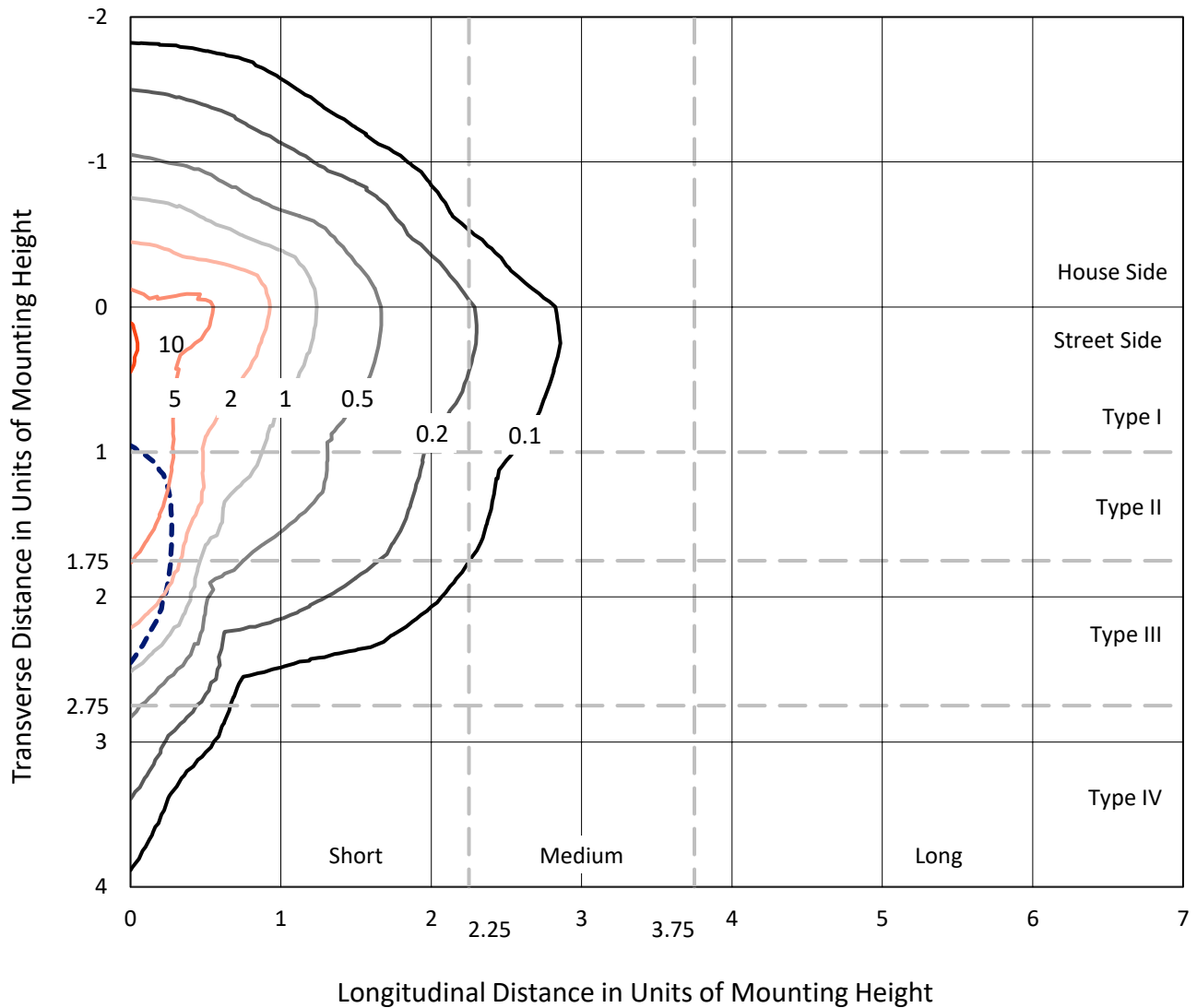
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956790
 CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

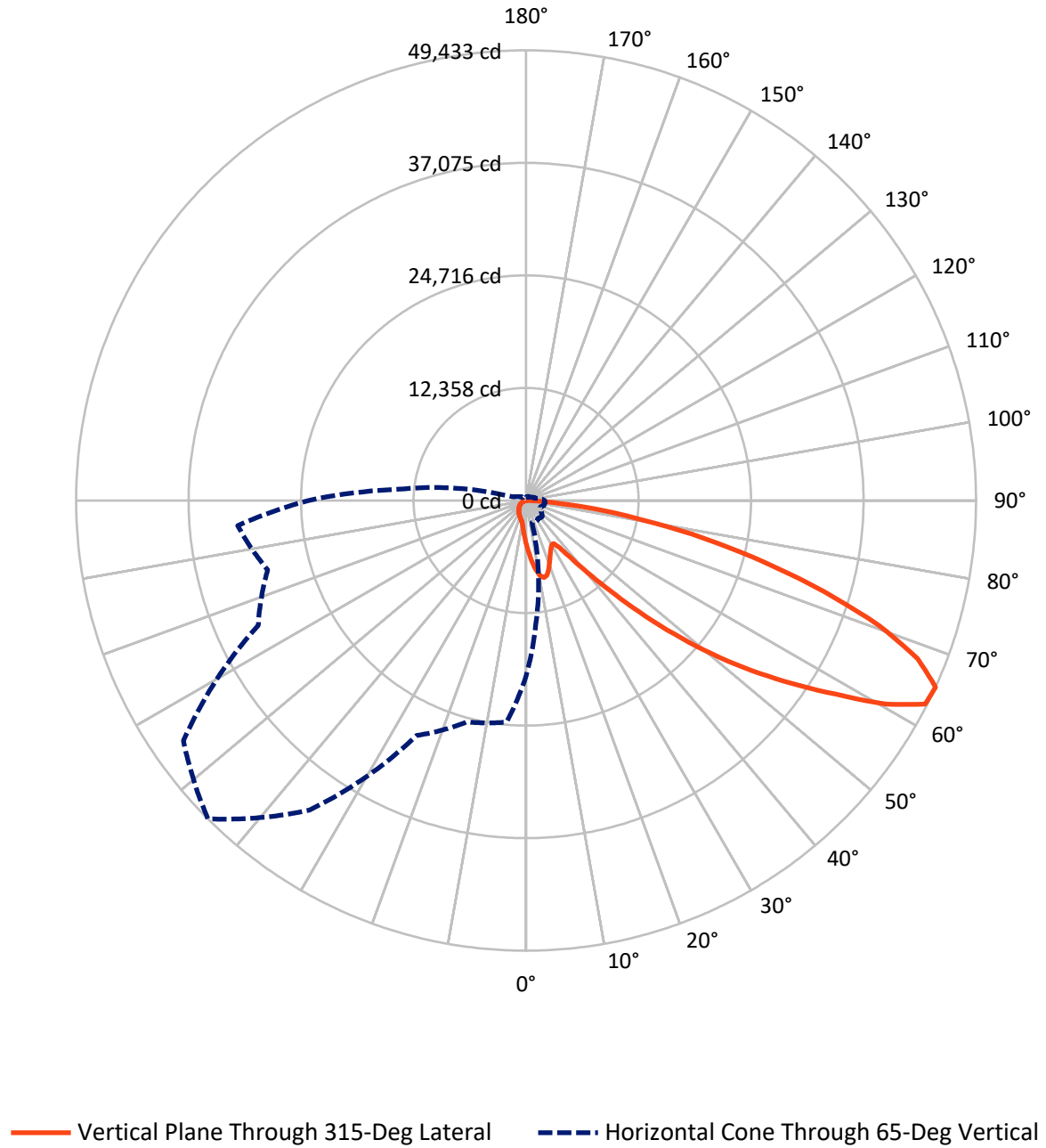
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P956790
CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

Luminous Intensity Polar Plot



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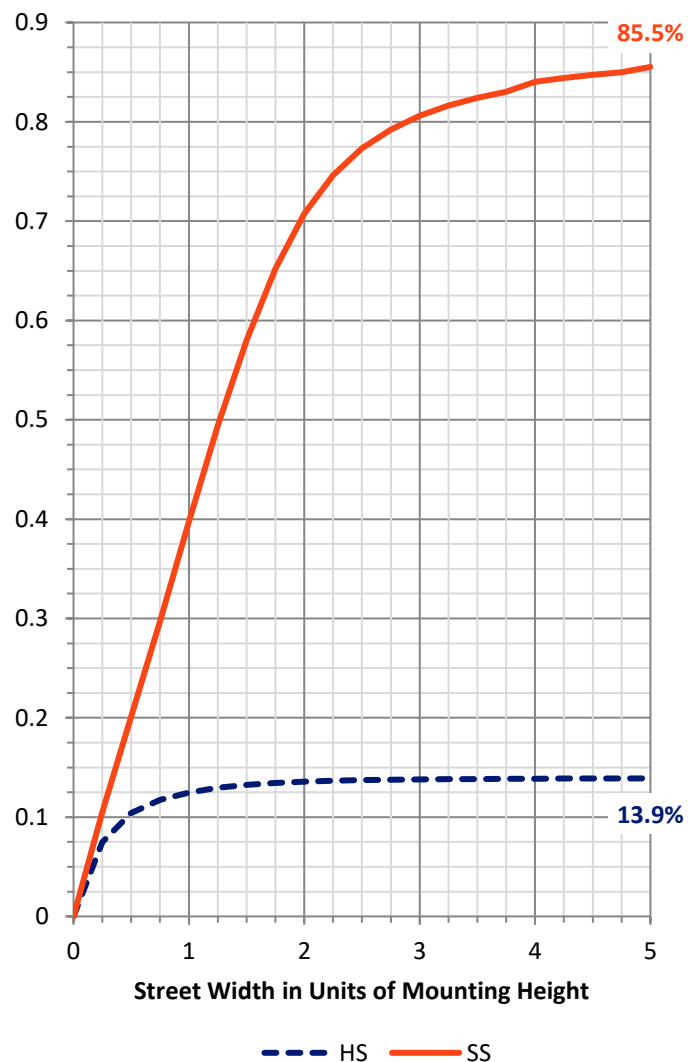
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4925.7	0.0	4925.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	30247.3	0.0	30247.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	35173.0	0.0	35173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	1.4
10°-20°	1437.4	4.1
20°-30°	2117.6	6.0
30°-40°	2720.5	7.7
40°-50°	4399.9	12.5
50°-60°	7715.6	21.9
60°-70°	9654.4	27.4
70°-80°	5641.6	16.0
80°-90°	1006.5	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°	35173.0	100.0
0°-180°	35173.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956790

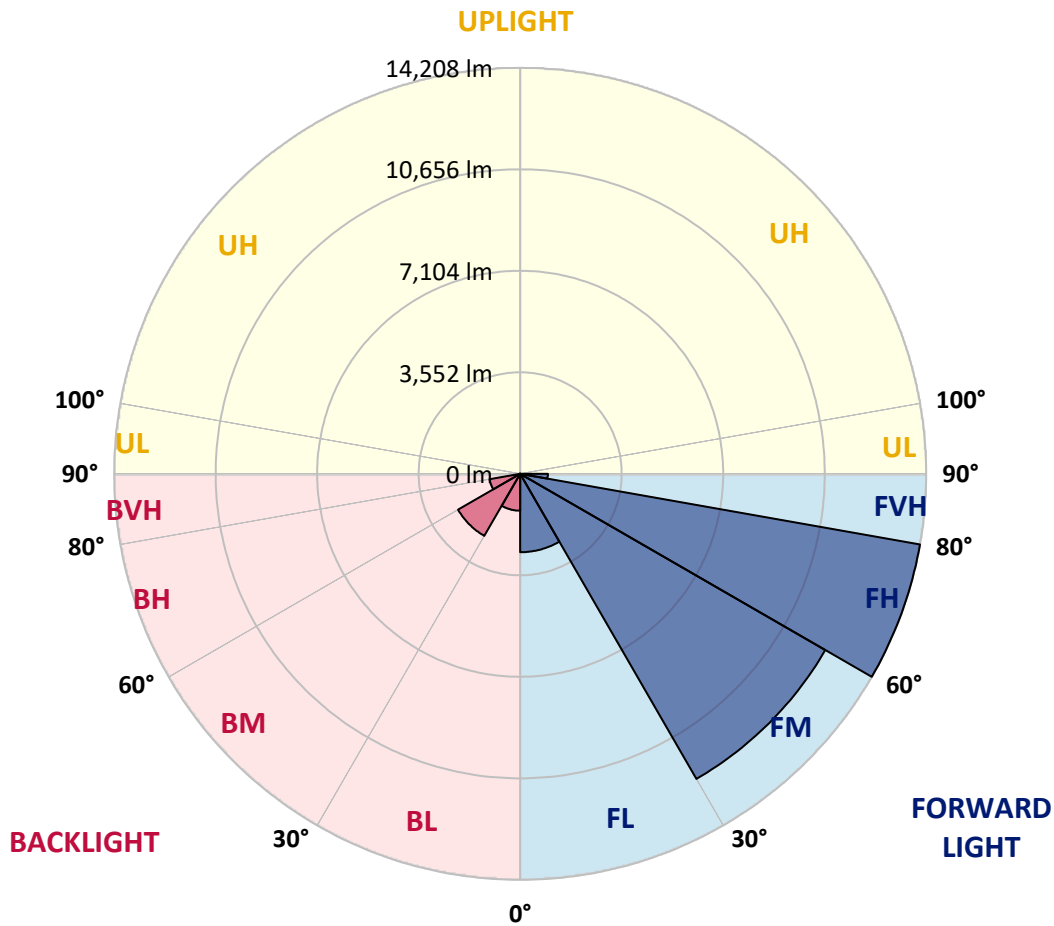
CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2743.4	7.8			
FM (30°-60°)	12327.7	35.0			
FH (60°-80°)	14208.3	40.4			G5
FVH (80°-90°)	967.9	2.8			G5
BL (0°-30°)	1291.1	3.7	B3/2500		
BM (30°-60°)	2508.3	7.1	B3/5000		
BH (60°-80°)	1087.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	38.7	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



REPORT NUMBER: P956790

CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3
2.5°	5502.8	5408.3	5352.5	5214.4	5076.3	4964.8	4814.6	4715.3	4596.5	4482.6
5°	6132.7	5980.1	5795.9	5543.9	5313.8	5078.7	4851.0	4625.6	4388.1	4170.1
7.5°	6665.8	6445.3	6120.6	5786.2	5493.1	5209.6	4943.0	4645.0	4356.6	4015.0
10°	7072.9	6791.8	6365.4	5926.8	5590.0	5304.1	5044.8	4792.8	4502.0	4090.1
12.5°	7320.0	7019.6	6513.2	5999.5	5614.2	5294.4	5093.3	4981.8	4867.9	4458.4
15°	7501.8	7177.1	6617.4	6050.4	5558.5	5165.9	5018.1	5129.6	5260.4	4998.8
17.5°	7690.8	7349.1	6753.0	6072.2	5408.3	4916.4	4853.4	5141.7	5444.6	5432.5
20°	7870.1	7530.8	6871.8	6057.6	5165.9	4613.5	4669.2	5037.5	5388.9	5536.7
22.5°	8076.0	7717.4	6985.7	6001.9	4851.0	4330.0	4504.5	4872.8	5180.5	5354.9
25°	8328.0	7952.5	7145.6	5919.5	4511.7	4095.0	4337.3	4681.3	4930.9	5052.1
27.5°	8599.4	8233.5	7358.8	5875.9	4237.9	3927.8	4148.3	4453.6	4676.5	4761.3
30°	8936.2	8560.6	7610.8	5827.4	4058.6	3830.8	3952.0	4189.5	4407.5	4492.3
32.5°	9304.5	8924.1	7853.1	5711.1	3949.6	3758.2	3760.6	3910.8	4109.5	4211.3
35°	9764.9	9360.3	8112.4	5456.7	3862.3	3673.3	3574.0	3646.7	3811.5	3932.6
37.5°	10421.5	9932.1	8429.8	5093.3	3733.9	3542.5	3377.7	3394.7	3520.7	3654.0
40°	11327.8	10700.2	8802.9	4715.3	3549.8	3358.4	3162.1	3154.8	3246.9	3377.7
42.5°	12553.8	11715.5	9251.2	4354.2	3372.9	3135.4	2934.3	2922.2	2994.9	3108.8
45°	14172.4	13014.2	9801.2	4044.1	3234.8	2917.4	2718.7	2713.8	2774.4	2873.7
47.5°	16244.1	14819.4	10351.3	3833.3	3162.1	2745.3	2541.8	2551.5	2604.8	2694.4
50°	18926.5	17172.2	10518.5	3726.7	3162.1	2653.2	2384.3	2432.7	2476.4	2544.2
52.5°	22141.9	19430.5	9966.0	3629.7	3181.5	2665.4	2251.0	2355.2	2386.7	2444.9
55°	25122.2	20537.8	8567.9	3496.5	3186.3	2740.5	2137.1	2292.2	2350.4	2372.2
57.5°	26852.3	20157.4	6927.5	3271.1	3166.9	2791.4	2064.4	2214.7	2326.1	2340.7
60°	26522.7	18822.3	5100.5	3099.1	3024.0	2772.0	2042.6	2095.9	2272.8	2294.6
62.5°	23983.4	16583.4	3540.1	2965.8	2709.0	2687.2	2035.4	1909.4	2156.5	2209.8
65°	19277.8	13055.4	2500.6	2553.9	2374.6	2503.0	1996.6	1715.5	2016.0	2088.7
67.5°	13985.9	8834.4	1805.2	2069.3	2151.7	2205.0	1909.4	1575.0	1856.1	1953.0
70°	8975.0	4771.0	1267.3	1366.6	1812.4	1873.0	1759.1	1449.0	1693.7	1805.2
72.5°	6379.9	2818.0	911.1	957.1	1456.3	1560.4	1548.3	1308.4	1504.7	1640.4
75°	4402.7	1553.2	615.5	683.3	1056.5	1267.3	1194.6	1124.3	1274.5	1412.6
77.5°	2759.9	695.4	368.3	474.9	693.0	995.9	819.0	869.9	993.5	1121.9
80°	1536.2	269.0	206.0	315.0	378.0	724.5	453.1	559.7	731.8	823.8
82.5°	334.4	33.9	92.1	135.7	147.8	421.6	239.9	324.7	460.4	453.1
85°	0.0	0.0	17.0	19.4	9.7	181.7	87.2	106.6	150.2	140.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956790
 CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4870.3	0°	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3
4380.9	2.5°	4361.5	4242.8	4155.5	4111.9	4075.6	4109.5	4128.9	4128.9	4211.3	4259.7
4036.8	5°	3952.0	3738.8	3576.4	3467.4	3402.0	3423.8	3448.0	3474.7	3578.8	3649.1
3833.3	7.5°	3668.5	3341.4	3094.2	2941.6	2861.6	2873.7	2890.7	2912.5	3014.3	3084.5
3862.3	10°	3615.2	3145.1	2796.2	2595.1	2498.2	2481.2	2471.5	2464.2	2524.8	2578.1
4191.9	12.5°	3833.3	3154.8	2667.8	2423.1	2304.3	2253.4	2195.3	2149.2	2158.9	2192.9
4691.0	15°	4223.4	3278.4	2626.6	2333.4	2185.6	2100.8	2032.9	1977.2	1965.1	1977.2
5127.2	17.5°	4669.2	3445.6	2621.7	2255.9	2071.7	1984.5	1928.7	1877.9	1860.9	1863.3
5371.9	20°	4964.8	3578.8	2607.2	2168.6	1962.7	1885.1	1836.7	1785.8	1768.8	1773.7
5304.1	22.5°	4993.9	3649.1	2585.4	2071.7	1853.6	1788.2	1739.8	1693.7	1691.3	1691.3
5049.6	25°	4836.4	3649.1	2539.4	1984.5	1749.4	1691.3	1647.7	1591.9	1601.6	1606.5
4761.3	27.5°	4591.7	3561.9	2452.1	1914.2	1659.8	1599.2	1555.6	1504.7	1516.8	1524.1
4492.3	30°	4349.4	3450.4	2347.9	1834.3	1575.0	1504.7	1473.2	1429.6	1434.4	1444.1
4225.8	32.5°	4124.0	3331.7	2224.4	1768.8	1490.2	1419.9	1395.7	1347.2	1354.5	1364.2
3964.1	35°	3901.1	3200.9	2079.0	1691.3	1412.6	1342.4	1323.0	1267.3	1272.1	1286.6
3702.4	37.5°	3661.2	3062.7	1960.2	1613.8	1337.5	1264.8	1245.4	1187.3	1192.1	1209.1
3431.0	40°	3409.2	2927.0	1843.9	1531.4	1257.6	1184.9	1167.9	1104.9	1109.8	1129.1
3164.5	42.5°	3154.8	2779.2	1754.3	1424.8	1175.2	1097.6	1080.7	1022.5	1029.8	1051.6
2931.9	45°	2919.8	2602.4	1696.1	1306.0	1097.6	1010.4	993.5	940.1	954.7	978.9
2735.6	47.5°	2718.7	2420.6	1671.9	1206.7	1015.3	920.8	906.2	862.6	886.8	913.5
2568.4	50°	2546.6	2246.2	1640.4	1104.9	937.7	843.2	828.7	799.6	831.1	857.8
2454.6	52.5°	2423.1	2047.5	1572.6	1012.8	869.9	777.8	773.0	758.4	787.5	811.7
2369.7	55°	2316.4	1841.5	1463.5	932.9	809.3	722.1	726.9	719.6	743.9	763.3
2318.9	57.5°	2219.5	1662.2	1325.4	869.9	743.9	673.6	688.1	678.5	690.6	702.7
2265.6	60°	2103.2	1480.5	1160.6	799.6	666.3	625.1	642.1	615.5	613.0	617.9
2168.6	62.5°	1931.2	1235.8	988.6	712.4	598.5	571.8	579.1	528.2	489.5	489.5
2025.7	65°	1691.3	993.5	828.7	615.5	521.0	499.1	494.3	421.6	368.3	363.5
1870.6	67.5°	1412.6	816.6	688.1	518.5	433.7	419.2	424.0	370.7	317.4	312.6
1715.5	70°	1150.9	676.0	554.9	414.3	334.4	348.9	370.7	317.4	266.5	259.3
1533.8	72.5°	935.3	537.9	433.7	317.4	247.2	288.3	315.0	259.3	210.8	206.0
1308.4	75°	722.1	395.0	310.2	215.7	179.3	222.9	247.2	189.0	150.2	143.0
1012.8	77.5°	482.2	244.7	174.5	135.7	106.6	152.7	164.8	99.3	87.2	84.8
736.6	80°	293.2	113.9	75.1	65.4	36.3	55.7	65.4	41.2	46.0	48.5
392.5	82.5°	147.8	31.5	12.1	2.4	0.0	0.0	19.4	9.7	19.4	24.2
106.6	85°	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	12.1
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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 CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4870.3	0°	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3
4279.1	2.5°	4414.8	4516.6	4613.5	4768.6	4928.5	5086.0	5245.9	5401.0	5456.7	5497.9
3695.2	5°	3906.0	4097.4	4320.3	4628.0	4957.6	5296.8	5640.9	5955.9	6098.8	6195.7
3145.1	7.5°	3380.2	3629.7	3949.6	4412.4	4928.5	5468.8	6009.2	6505.9	6736.1	6922.7
2626.6	10°	2859.2	3130.6	3535.2	4063.5	4761.3	5536.7	6283.0	6966.3	7264.3	7499.3
2253.4	12.5°	2401.2	2655.7	3079.7	3663.7	4499.6	5483.4	6440.5	7261.9	7613.2	7877.3
1986.9	15°	2079.0	2258.3	2633.9	3263.9	4189.5	5311.3	6450.2	7402.4	7787.7	8063.9
1875.4	17.5°	1899.7	1960.2	2205.0	2856.8	3845.4	5086.0	6360.5	7450.9	7862.8	8119.6
1776.1	20°	1802.8	1812.4	1880.3	2328.6	3404.4	4875.2	6275.7	7499.3	7933.1	8148.7
1705.8	22.5°	1725.2	1725.2	1742.2	1904.5	2835.0	4623.2	6249.1	7584.2	8030.0	8163.3
1625.9	25°	1654.9	1654.9	1659.8	1703.4	2246.2	4237.9	6232.1	7715.0	8163.3	8199.6
1545.9	27.5°	1582.3	1584.7	1584.7	1608.9	1810.0	3714.5	6159.4	7884.6	8323.2	8248.1
1468.4	30°	1509.6	1514.4	1514.4	1531.4	1601.6	3101.5	6016.4	8088.1	8531.6	8311.1
1390.8	32.5°	1436.9	1441.7	1441.7	1456.3	1507.1	2476.4	5837.1	8274.7	8742.4	8337.7
1315.7	35°	1361.8	1369.0	1364.2	1383.6	1436.9	1969.9	5609.4	8461.3	8970.1	8422.5
1243.0	37.5°	1286.6	1291.5	1289.1	1308.4	1369.0	1701.0	5345.3	8601.8	9280.3	8611.5
1165.5	40°	1211.5	1209.1	1209.1	1230.9	1296.3	1623.4	5013.3	8824.8	9726.1	8943.5
1088.0	42.5°	1134.0	1134.0	1129.1	1153.4	1233.3	1565.3	4695.9	9224.6	10375.5	9471.7
1015.3	45°	1063.7	1061.3	1051.6	1073.4	1172.8	1463.5	4584.4	9970.9	11335.0	10327.0
942.6	47.5°	995.9	993.5	969.2	988.6	1100.1	1371.4	5001.2	11192.1	12665.3	11584.6
884.4	50°	935.3	937.7	891.7	908.6	1027.4	1301.2	5905.0	12776.8	14431.7	13278.3
836.0	52.5°	879.6	879.6	819.0	828.7	937.7	1238.2	6765.2	14494.7	16762.7	15640.8
785.1	55°	823.8	819.0	751.1	756.0	848.1	1148.5	6893.6	16171.5	19941.7	19195.4
729.3	57.5°	760.8	751.1	688.1	688.1	765.7	1083.1	5975.2	17460.5	23886.4	24419.5
625.1	60°	683.3	676.0	634.8	622.7	700.3	1141.3	4216.1	17610.7	26430.7	31366.4
496.7	62.5°	584.0	593.6	571.8	554.9	637.3	1184.9	2498.2	16401.6	25815.2	33576.2
385.3	65°	460.4	499.1	494.3	482.2	700.3	998.3	1475.6	14080.4	23927.6	31792.9
336.8	67.5°	392.5	419.2	411.9	411.9	734.2	758.4	928.0	11000.7	21330.1	29677.5
281.1	70°	334.4	361.0	334.4	334.4	554.9	460.4	642.1	7681.1	18526.7	27336.9
225.3	72.5°	276.2	302.9	273.8	254.4	443.4	344.1	470.1	4800.1	15866.1	24899.3
159.9	75°	210.8	242.3	220.5	196.3	293.2	256.8	356.2	2788.9	13145.1	21303.5
96.9	77.5°	133.3	174.5	164.8	138.1	215.7	186.6	256.8	1659.8	10142.9	16646.4
58.2	80°	82.4	89.7	92.1	87.2	123.6	126.0	174.5	945.0	6942.0	11601.6
36.3	82.5°	53.3	53.3	41.2	46.0	60.6	72.7	99.3	356.2	4080.4	7063.2
21.8	85°	38.8	33.9	21.8	21.8	29.1	36.3	38.8	109.0	1654.9	2788.9
9.7	87.5°	19.4	17.0	7.3	9.7	14.5	12.1	9.7	4.8	416.8	891.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956790
 CATALOG NUMBER: GALN-SB9B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4870.3	0°	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3	4870.3
5590.0	2.5°	5638.4	5713.6	5718.4	5718.4	5653.0	5650.6	5517.3	5502.8
6413.8	5°	6639.2	6687.6	6699.7	6675.5	6544.7	6447.7	6188.5	6132.7
7254.6	7.5°	7555.1	7652.0	7652.0	7593.8	7380.6	7181.9	6806.4	6665.8
7950.0	10°	8286.8	8398.3	8374.1	8255.3	7986.4	7712.6	7257.0	7072.9
8371.6	12.5°	8643.0	8756.9	8693.9	8558.2	8296.5	8008.2	7528.4	7320.0
8492.8	15°	8635.8	8604.3	8538.8	8521.9	8395.9	8177.8	7729.5	7501.8
8417.7	17.5°	8328.0	8061.5	8010.6	8180.2	8340.1	8286.8	7904.0	7690.8
8238.4	20°	7841.0	7375.8	7329.7	7654.4	8110.0	8342.6	8066.3	7870.1
7979.1	22.5°	7327.3	6825.7	6719.1	7077.7	7763.5	8359.5	8272.3	8076.0
7693.2	25°	6840.3	6336.3	6229.7	6564.0	7378.2	8330.5	8495.2	8328.0
7419.4	27.5°	6433.2	5946.2	5846.8	6181.2	7007.5	8248.1	8718.1	8599.4
7148.0	30°	6118.2	5667.5	5594.8	5917.1	6687.6	8146.3	9001.6	8936.2
6896.0	32.5°	5934.1	5604.5	5631.2	5895.3	6515.6	8034.8	9273.0	9304.5
6772.4	35°	6115.8	6130.3	6362.9	6472.0	6675.5	8017.9	9641.3	9764.9
6920.2	37.5°	7019.6	7523.6	8005.8	7916.1	7458.2	8214.1	10191.4	10421.5
7564.8	40°	8558.2	9592.9	10375.5	10033.9	8880.5	8815.1	10983.7	11327.8
8708.4	42.5°	10438.5	12192.8	13481.9	12565.9	10714.7	9866.7	12115.3	12553.8
10092.0	45°	12423.0	15398.5	17429.0	15524.5	12670.1	11339.9	13828.4	14172.4
11388.3	47.5°	14514.1	19294.8	21921.4	18805.3	14482.6	13016.6	16164.2	16244.1
12616.8	50°	16801.4	23566.6	26500.9	22083.7	16232.0	14938.1	19018.5	18926.5
14048.9	52.5°	18979.8	27959.6	30983.6	25376.6	17768.2	17322.4	22330.8	22141.9
16006.7	55°	21058.7	32350.2	35492.9	28541.1	19217.2	20472.4	26265.9	25122.2
18829.5	57.5°	23469.7	36297.3	40140.3	31720.2	21242.9	24562.5	30666.1	26852.3
24235.4	60°	27034.0	40782.4	45395.9	36076.8	25095.6	28861.0	32243.6	26522.7
30709.8	62.5°	31584.5	44906.4	49217.0	40346.2	28965.2	29670.3	29919.8	23983.4
29389.2	65°	32468.9	45950.8	49432.7	41487.5	28466.0	25168.2	24426.8	19277.8
26251.3	67.5°	30123.4	44063.2	46418.4	39362.5	25180.4	19449.8	18330.4	13985.9
24191.8	70°	27492.0	40465.0	41165.2	35749.7	22146.7	14305.7	12379.4	8975.0
22781.5	72.5°	24795.1	35664.9	34215.9	31046.6	19464.4	10416.7	8928.9	6379.9
20772.8	75°	21591.8	29352.9	26951.6	25795.8	16115.7	8175.4	6459.9	4402.7
17867.6	77.5°	17290.9	20661.4	20019.3	19995.0	12110.4	5972.8	4310.6	2759.9
13959.2	80°	12197.6	13409.2	13082.1	15059.3	8124.5	4332.4	2595.1	1536.2
9716.4	82.5°	5905.0	7414.5	7610.8	8967.7	3952.0	2549.1	598.5	334.4
3799.3	85°	2311.6	3576.4	3016.7	3404.4	1109.8	710.0	14.5	0.0
625.1	87.5°	259.3	414.3	380.4	300.5	135.7	29.1	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)