

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: P955005

Luminaire Tested: **GALN-SB8A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955005
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-SB8A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA 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: 24875 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

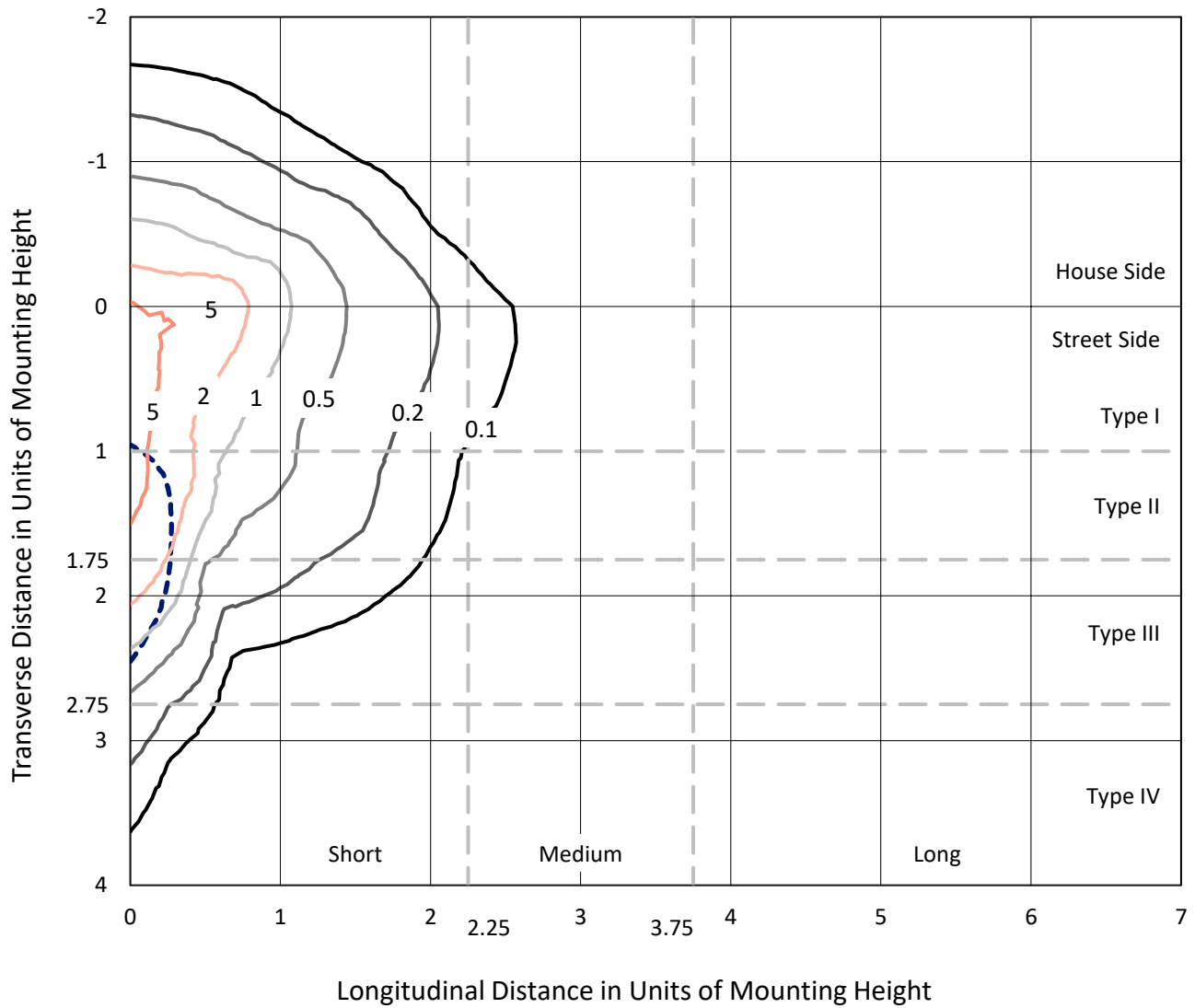
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955005
 CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

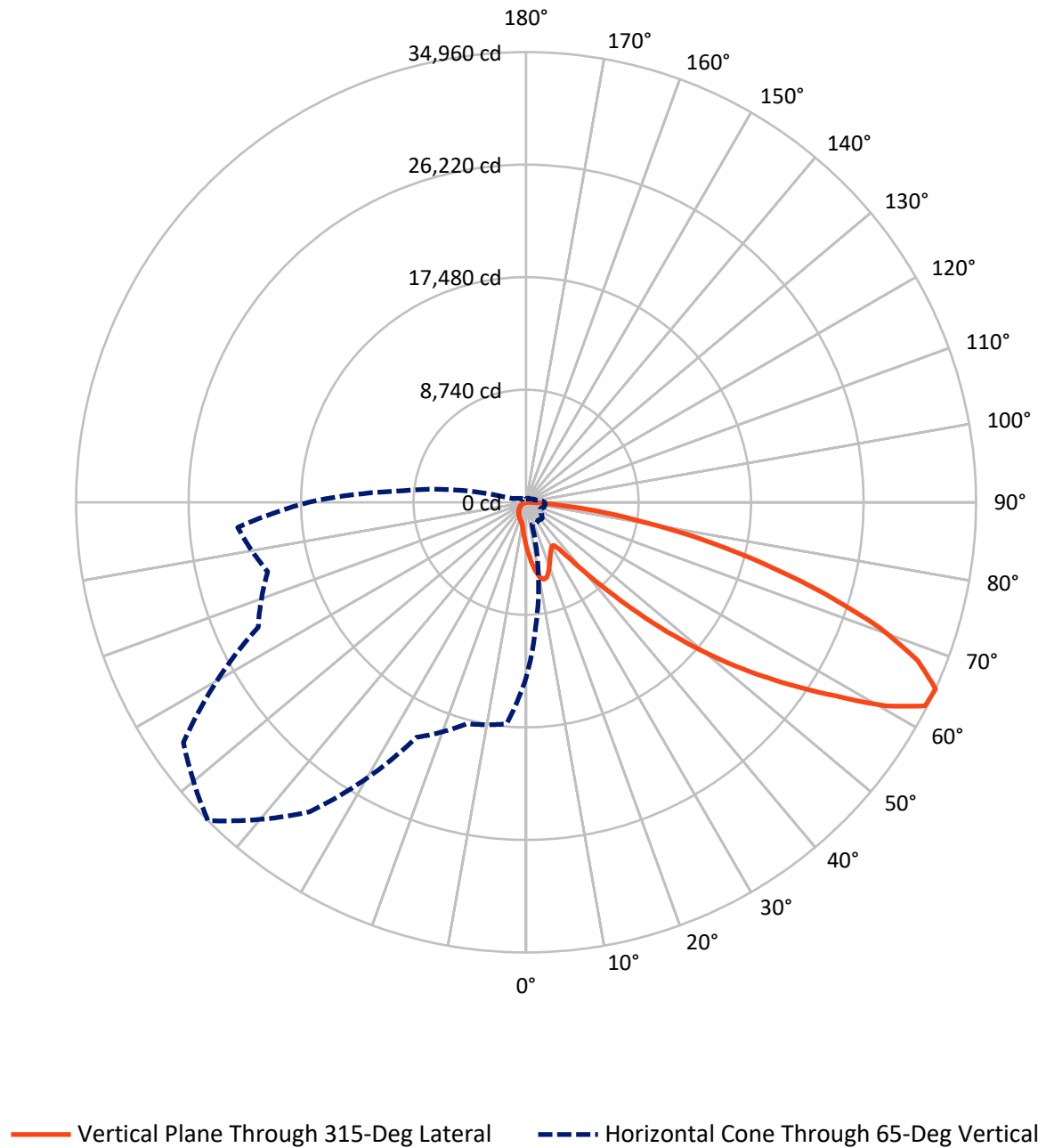
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P955005
CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3483.6	0.0	3483.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21391.4	0.0	21391.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	24875.0	0.0	24875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.1	1.4
10°-20°	1016.6	4.1
20°-30°	1497.6	6.0
30°-40°	1924.0	7.7
40°-50°	3111.7	12.5
50°-60°	5456.6	21.9
60°-70°	6827.7	27.4
70°-80°	3989.8	16.0
80°-90°	711.8	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°	24875.0	100.0
0°-180°	24875.0	100.0

Coefficient of Utilization



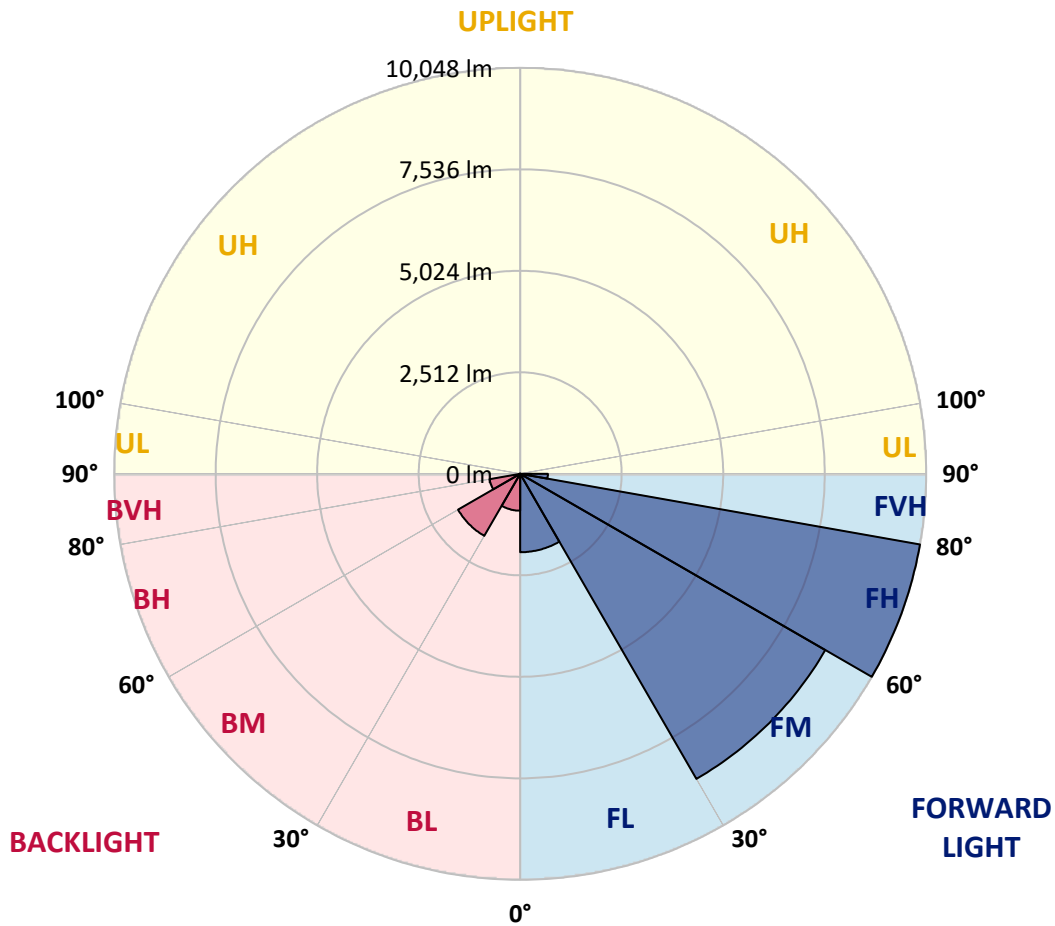
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 CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.2	7.8			
FM (30°-60°)	8718.4	35.0			
FH (60°-80°)	10048.4	40.4			G4/12000
FVH (80°-90°)	684.5	2.8			G4/750
BL (0°-30°)	913.1	3.7	B2/1000		
BM (30°-60°)	1773.9	7.1	B2/2500		
BH (60°-80°)	769.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	27.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P955005
 CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4
2.5°	3891.6	3824.8	3785.4	3687.7	3590.0	3511.2	3405.0	3334.7	3250.8	3170.2
5°	4337.2	4229.2	4099.0	3920.8	3758.0	3591.8	3430.7	3271.3	3103.4	2949.2
7.5°	4714.2	4558.2	4328.6	4092.1	3884.8	3684.3	3495.8	3285.0	3081.1	2839.5
10°	5002.1	4803.3	4501.7	4191.5	3953.3	3751.1	3567.8	3389.6	3183.9	2892.6
12.5°	5176.9	4964.4	4606.2	4242.9	3970.5	3744.3	3602.0	3523.2	3442.7	3153.1
15°	5305.4	5075.8	4679.9	4278.9	3931.1	3653.5	3548.9	3627.7	3720.3	3535.2
17.5°	5439.1	5197.4	4775.9	4294.4	3824.8	3477.0	3432.4	3636.3	3850.5	3842.0
20°	5565.9	5326.0	4859.8	4284.1	3653.5	3262.7	3302.2	3562.6	3811.1	3915.6
22.5°	5711.5	5457.9	4940.4	4244.7	3430.7	3062.3	3185.6	3446.1	3663.7	3787.1
25°	5889.7	5624.1	5053.5	4186.4	3190.8	2896.0	3067.4	3310.7	3487.2	3572.9
27.5°	6081.7	5822.9	5204.3	4155.5	2997.1	2777.8	2933.7	3149.6	3307.3	3367.3
30°	6319.9	6054.2	5382.5	4121.3	2870.3	2709.2	2794.9	2962.9	3117.1	3177.1
32.5°	6580.3	6311.3	5553.9	4039.0	2793.2	2657.8	2659.6	2765.8	2906.3	2978.3
35°	6905.9	6619.7	5737.2	3859.1	2731.5	2597.9	2527.6	2579.0	2695.5	2781.2
37.5°	7370.3	7024.2	5961.7	3602.0	2640.7	2505.3	2388.8	2400.8	2489.9	2584.2
40°	8011.2	7567.4	6225.6	3334.7	2510.5	2375.1	2236.3	2231.1	2296.3	2388.8
42.5°	8878.3	8285.4	6542.6	3079.4	2385.4	2217.4	2075.2	2066.6	2118.0	2198.6
45°	10023.0	9203.9	6931.6	2860.0	2287.7	2063.2	1922.7	1919.3	1962.1	2032.4
47.5°	11488.2	10480.5	7320.6	2711.0	2236.3	1941.5	1797.6	1804.4	1842.1	1905.6
50°	13385.1	12144.5	7438.9	2635.6	2236.3	1876.4	1686.2	1720.5	1751.3	1799.3
52.5°	15659.1	13741.6	7048.2	2567.0	2250.0	1885.0	1592.0	1665.6	1687.9	1729.1
55°	17766.9	14524.7	6059.4	2472.8	2253.4	1938.1	1511.4	1621.1	1662.2	1677.6
57.5°	18990.4	14255.7	4899.3	2313.4	2239.7	1974.1	1460.0	1566.3	1645.1	1655.4
60°	18757.4	13311.5	3607.2	2191.7	2138.6	1960.4	1444.6	1482.3	1607.4	1622.8
62.5°	16961.5	11728.1	2503.6	2097.5	1915.8	1900.4	1439.4	1350.3	1525.1	1562.8
65°	13633.6	9233.0	1768.5	1806.2	1679.4	1770.2	1412.0	1213.2	1425.7	1477.1
67.5°	9891.1	6247.9	1276.7	1463.4	1521.7	1559.4	1350.3	1113.9	1312.6	1381.2
70°	6347.3	3374.1	896.2	966.5	1281.8	1324.6	1244.1	1024.7	1197.8	1276.7
72.5°	4512.0	1992.9	644.3	676.9	1029.9	1103.6	1095.0	925.4	1064.2	1160.1
75°	3113.7	1098.4	435.3	483.2	747.1	896.2	844.8	795.1	901.4	999.0
77.5°	1951.8	491.8	260.5	335.9	490.1	704.3	579.2	615.2	702.6	793.4
80°	1086.4	190.2	145.7	222.8	267.3	512.4	320.4	395.8	517.5	582.6
82.5°	236.5	24.0	65.1	96.0	104.5	298.2	169.6	229.6	325.6	320.4
85°	0.0	0.0	12.0	13.7	6.9	128.5	61.7	75.4	106.2	99.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955005
 CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3444.4	0°	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4
3098.2	2.5°	3084.5	3000.6	2938.9	2908.0	2882.3	2906.3	2920.0	2920.0	2978.3	3012.6
2854.9	5°	2794.9	2644.1	2529.3	2452.2	2405.9	2421.4	2438.5	2457.3	2531.0	2580.7
2711.0	7.5°	2594.4	2363.1	2188.3	2080.3	2023.8	2032.4	2044.4	2059.8	2131.8	2181.4
2731.5	10°	2556.7	2224.3	1977.5	1835.3	1766.8	1754.8	1747.9	1742.8	1785.6	1823.3
2964.6	12.5°	2711.0	2231.1	1886.7	1713.6	1629.7	1593.7	1552.5	1520.0	1526.8	1550.8
3317.6	15°	2986.9	2318.5	1857.6	1650.2	1545.7	1485.7	1437.7	1398.3	1389.8	1398.3
3626.0	17.5°	3302.2	2436.8	1854.1	1595.4	1465.2	1403.5	1364.0	1328.1	1316.1	1317.8
3799.1	20°	3511.2	2531.0	1843.9	1533.7	1388.0	1333.2	1298.9	1262.9	1250.9	1254.4
3751.1	22.5°	3531.8	2580.7	1828.4	1465.2	1310.9	1264.7	1230.4	1197.8	1196.1	1196.1
3571.2	25°	3420.4	2580.7	1795.9	1403.5	1237.2	1196.1	1165.3	1125.9	1132.7	1136.1
3367.3	27.5°	3247.3	2519.0	1734.2	1353.8	1173.8	1131.0	1100.1	1064.2	1072.7	1077.9
3177.1	30°	3076.0	2440.2	1660.5	1297.2	1113.9	1064.2	1041.9	1011.0	1014.5	1021.3
2988.6	32.5°	2916.6	2356.2	1573.1	1250.9	1053.9	1004.2	987.0	952.8	957.9	964.8
2803.5	35°	2758.9	2263.7	1470.3	1196.1	999.0	949.3	935.6	896.2	899.7	909.9
2618.4	37.5°	2589.3	2166.0	1386.3	1141.3	945.9	894.5	880.8	839.7	843.1	855.1
2426.5	40°	2411.1	2070.1	1304.1	1083.0	889.4	838.0	826.0	781.4	784.8	798.6
2238.0	42.5°	2231.1	1965.5	1240.7	1007.6	831.1	776.3	764.3	723.2	728.3	743.7
2073.5	45°	2064.9	1840.4	1199.5	923.6	776.3	714.6	702.6	664.9	675.2	692.3
1934.7	47.5°	1922.7	1711.9	1182.4	853.4	718.0	651.2	640.9	610.1	627.2	646.0
1816.4	50°	1801.0	1588.5	1160.1	781.4	663.2	596.3	586.1	565.5	587.8	606.6
1735.9	52.5°	1713.6	1448.0	1112.1	716.3	615.2	550.1	546.6	536.4	556.9	574.1
1675.9	55°	1638.2	1302.4	1035.0	659.7	572.4	510.7	514.1	508.9	526.1	539.8
1639.9	57.5°	1569.7	1175.5	937.4	615.2	526.1	476.4	486.7	479.8	488.4	497.0
1602.2	60°	1487.4	1047.0	820.8	565.5	471.2	442.1	454.1	435.3	433.5	437.0
1533.7	62.5°	1365.8	874.0	699.2	503.8	423.3	404.4	409.6	373.6	346.2	346.2
1432.6	65°	1196.1	702.6	586.1	435.3	368.4	353.0	349.6	298.2	260.5	257.0
1322.9	67.5°	999.0	577.5	486.7	366.7	306.7	296.5	299.9	262.2	224.5	221.1
1213.2	70°	814.0	478.1	392.4	293.0	236.5	246.8	262.2	224.5	188.5	183.4
1084.7	72.5°	661.5	380.4	306.7	224.5	174.8	203.9	222.8	183.4	149.1	145.7
925.4	75°	510.7	279.3	219.3	152.5	126.8	157.7	174.8	133.7	106.2	101.1
716.3	77.5°	341.0	173.1	123.4	96.0	75.4	108.0	116.5	70.3	61.7	60.0
520.9	80°	207.3	80.5	53.1	46.3	25.7	39.4	46.3	29.1	32.6	34.3
277.6	82.5°	104.5	22.3	8.6	1.7	0.0	0.0	13.7	6.9	13.7	17.1
75.4	85°	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	8.6
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

REPORT NUMBER: P955005
 CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3444.4	0°	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4
3026.3	2.5°	3122.2	3194.2	3262.7	3372.4	3485.5	3596.9	3710.0	3819.7	3859.1	3888.2
2613.3	5°	2762.4	2897.7	3055.4	3273.0	3506.1	3746.0	3989.3	4212.1	4313.2	4381.7
2224.3	7.5°	2390.5	2567.0	2793.2	3120.5	3485.5	3867.7	4249.8	4601.1	4763.9	4895.8
1857.6	10°	2022.1	2214.0	2500.2	2873.8	3367.3	3915.6	4443.4	4926.7	5137.5	5303.7
1593.7	12.5°	1698.2	1878.1	2178.0	2591.0	3182.2	3877.9	4554.8	5135.7	5384.2	5571.0
1405.2	15°	1470.3	1597.1	1862.7	2308.3	2962.9	3756.3	4561.7	5235.1	5507.6	5703.0
1326.3	17.5°	1343.5	1386.3	1559.4	2020.4	2719.5	3596.9	4498.3	5269.4	5560.7	5742.4
1256.1	20°	1274.9	1281.8	1329.8	1646.8	2407.6	3447.8	4438.3	5303.7	5610.4	5762.9
1206.4	22.5°	1220.1	1220.1	1232.1	1346.9	2004.9	3269.6	4419.4	5363.7	5679.0	5773.2
1149.8	25°	1170.4	1170.4	1173.8	1204.7	1588.5	2997.1	4407.5	5456.2	5773.2	5798.9
1093.3	27.5°	1119.0	1120.7	1120.7	1137.8	1280.1	2627.0	4356.0	5576.1	5886.3	5833.2
1038.5	30°	1067.6	1071.0	1071.0	1083.0	1132.7	2193.4	4254.9	5720.1	6033.7	5877.7
983.6	32.5°	1016.2	1019.6	1019.6	1029.9	1065.9	1751.3	4128.1	5852.0	6182.8	5896.6
930.5	35°	963.1	968.2	964.8	978.5	1016.2	1393.2	3967.0	5984.0	6343.8	5956.6
879.1	37.5°	909.9	913.4	911.6	925.4	968.2	1203.0	3780.3	6083.4	6563.2	6090.2
824.3	40°	856.8	855.1	855.1	870.5	916.8	1148.1	3545.5	6241.0	6878.5	6325.0
769.4	42.5°	802.0	802.0	798.6	815.7	872.2	1107.0	3321.0	6523.8	7337.8	6698.6
718.0	45°	752.3	750.6	743.7	759.1	829.4	1035.0	3242.2	7051.6	8016.4	7303.5
666.6	47.5°	704.3	702.6	685.5	699.2	778.0	969.9	3536.9	7915.2	8957.1	8192.9
625.5	50°	661.5	663.2	630.6	642.6	726.6	920.2	4176.1	9036.0	10206.4	9390.7
591.2	52.5°	622.0	622.0	579.2	586.1	663.2	875.7	4784.4	10250.9	11854.9	11061.5
555.2	55°	582.6	579.2	531.2	534.7	599.8	812.3	4875.3	11436.8	14103.2	13575.4
515.8	57.5°	538.1	531.2	486.7	486.7	541.5	766.0	4225.8	12348.4	16892.9	17269.9
442.1	60°	483.2	478.1	449.0	440.4	495.2	807.1	2981.7	12454.6	18692.3	22182.9
351.3	62.5°	413.0	419.8	404.4	392.4	450.7	838.0	1766.8	11599.5	18257.0	23745.7
272.5	65°	325.6	353.0	349.6	341.0	495.2	706.0	1043.6	9957.9	16922.1	22484.5
238.2	67.5°	277.6	296.5	291.3	291.3	519.2	536.4	656.3	7779.9	15085.1	20988.5
198.8	70°	236.5	255.3	236.5	236.5	392.4	325.6	454.1	5432.2	13102.4	19333.1
159.4	72.5°	195.4	214.2	193.6	179.9	313.6	243.3	332.4	3394.7	11220.8	17609.2
113.1	75°	149.1	171.4	155.9	138.8	207.3	181.6	251.9	1972.4	9296.4	15066.2
68.5	77.5°	94.2	123.4	116.5	97.7	152.5	131.9	181.6	1173.8	7173.2	11772.6
41.1	80°	58.3	63.4	65.1	61.7	87.4	89.1	123.4	668.3	4909.5	8204.8
25.7	82.5°	37.7	37.7	29.1	32.6	42.8	51.4	70.3	251.9	2885.7	4995.2
15.4	85°	27.4	24.0	15.4	15.4	20.6	25.7	27.4	77.1	1170.4	1972.4
6.9	87.5°	13.7	12.0	5.1	6.9	10.3	8.6	6.9	3.4	294.7	630.6
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: P955005
 CATALOG NUMBER: GALN-SB8A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3444.4	0°	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4	3444.4
3953.3	2.5°	3987.6	4040.7	4044.2	4044.2	3997.9	3996.2	3901.9	3891.6
4536.0	5°	4695.3	4729.6	4738.2	4721.0	4628.5	4560.0	4376.6	4337.2
5130.6	7.5°	5343.1	5411.6	5411.6	5370.5	5219.7	5079.2	4813.6	4714.2
5622.4	10°	5860.6	5939.4	5922.3	5838.3	5648.1	5454.5	5132.3	5002.1
5920.6	12.5°	6112.5	6193.1	6148.5	6052.5	5867.5	5663.5	5324.2	5176.9
6006.3	15°	6107.4	6085.1	6038.8	6026.8	5937.7	5783.5	5466.5	5305.4
5953.1	17.5°	5889.7	5701.2	5665.3	5785.2	5898.3	5860.6	5589.9	5439.1
5826.3	20°	5545.3	5216.3	5183.7	5413.3	5735.5	5900.0	5704.7	5565.9
5643.0	22.5°	5182.0	4827.3	4751.9	5005.5	5490.5	5912.0	5850.3	5711.5
5440.8	25°	4837.6	4481.1	4405.7	4642.2	5218.0	5891.5	6008.0	5889.7
5247.1	27.5°	4549.7	4205.2	4135.0	4371.5	4955.8	5833.2	6165.6	6081.7
5055.2	30°	4326.9	4008.2	3956.8	4184.7	4729.6	5761.2	6366.1	6319.9
4877.0	32.5°	4196.7	3963.6	3982.5	4169.3	4607.9	5682.4	6558.1	6580.3
4789.6	35°	4325.2	4335.5	4500.0	4577.1	4721.0	5670.4	6818.5	6905.9
4894.1	37.5°	4964.4	5320.8	5661.8	5598.4	5274.5	5809.2	7207.5	7370.3
5349.9	40°	6052.5	6784.3	7337.8	7096.1	6280.4	6234.2	7767.9	8011.2
6158.8	42.5°	7382.3	8623.0	9534.6	8886.9	7577.7	6977.9	8568.1	8878.3
7137.3	45°	8785.8	10890.1	12326.1	10979.2	8960.6	8019.8	9779.7	10023.0
8054.0	47.5°	10264.6	13645.6	15503.2	13299.5	10242.4	9205.6	11431.6	11488.2
8922.9	50°	11882.3	16666.7	18741.9	15618.0	11479.6	10564.5	13450.3	13385.1
9935.6	52.5°	13422.8	19773.5	21912.2	17946.8	12566.0	12250.7	15792.8	15659.1
11320.2	55°	14893.1	22878.6	25101.2	20184.8	13590.8	14478.4	18575.7	17766.9
13316.6	57.5°	16598.2	25670.1	28388.0	22433.1	15023.4	17371.0	21687.7	18990.4
17139.7	60°	19118.9	28842.1	32104.8	25514.2	17748.0	20411.0	22803.2	18757.4
21718.5	62.5°	22337.1	31758.7	34807.2	28533.6	20484.7	20983.4	21159.9	16961.5
20784.6	65°	22962.6	32497.2	34959.7	29340.7	20131.7	17799.5	17275.1	13633.6
18565.4	67.5°	21303.8	31162.3	32828.0	27837.9	17808.0	13755.3	12963.6	9891.1
17108.9	70°	19442.8	28617.6	29112.8	25282.9	15662.6	10117.3	8754.9	6347.3
16111.5	72.5°	17535.6	25222.9	24198.1	21956.7	13765.6	7366.9	6314.7	4512.0
14690.9	75°	15270.1	20758.9	19060.7	18243.3	11397.3	5781.8	4568.5	3113.7
12636.3	77.5°	12228.4	14612.1	14158.0	14140.9	8564.7	4224.1	3048.5	1951.8
9872.2	80°	8626.4	9483.2	9251.9	10650.2	5745.8	3064.0	1835.3	1086.4
6871.6	82.5°	4176.1	5243.7	5382.5	6342.1	2794.9	1802.7	423.3	236.5
2687.0	85°	1634.8	2529.3	2133.5	2407.6	784.8	502.1	10.3	0.0
442.1	87.5°	183.4	293.0	269.0	212.5	96.0	20.6	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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