

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: P949648

Luminaire Tested: **GALN-SB4B-830-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949648  
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-SB4B-830-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

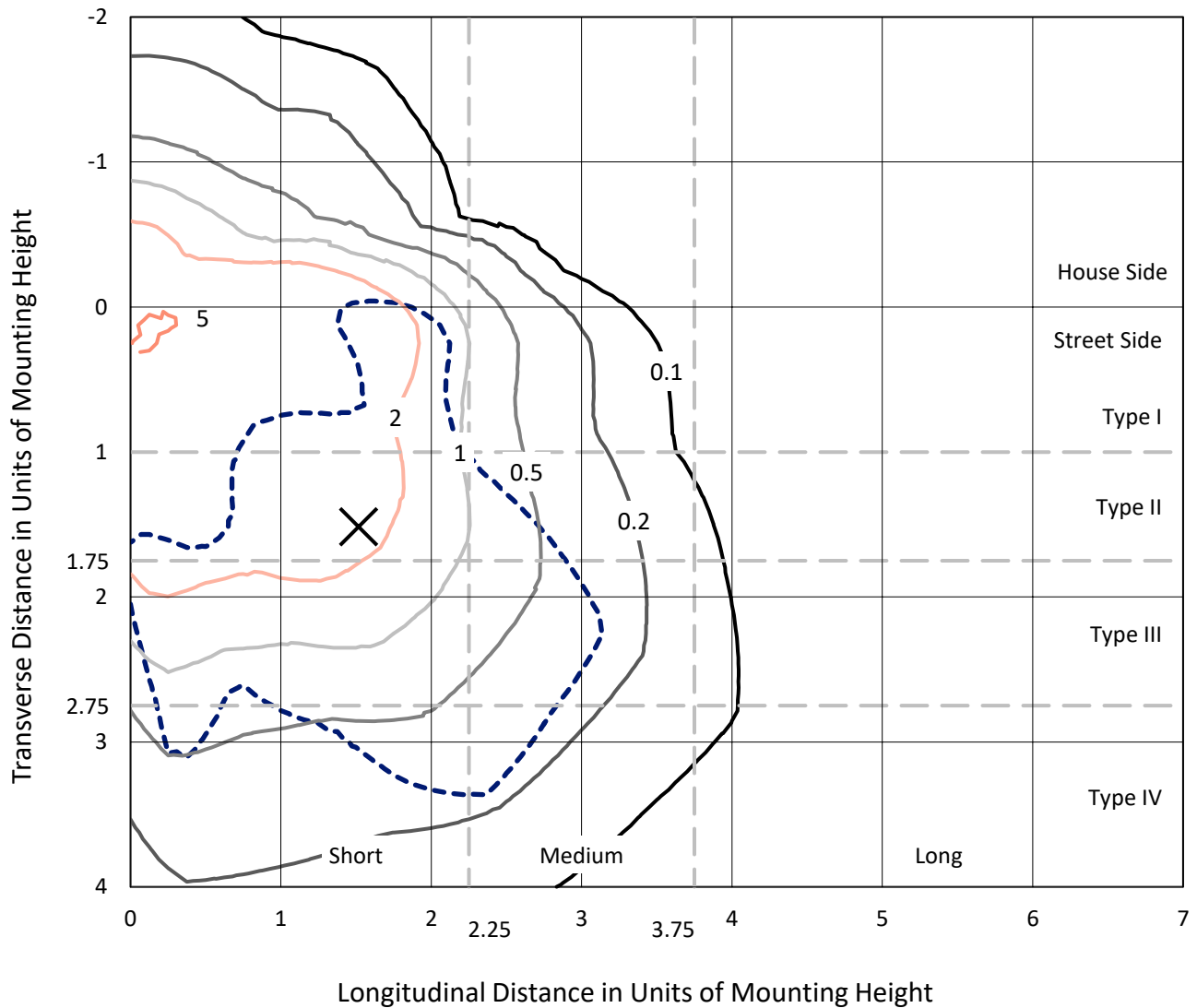
Lumens per Lamp: N/A  
Luminaire Lumens: 15476 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

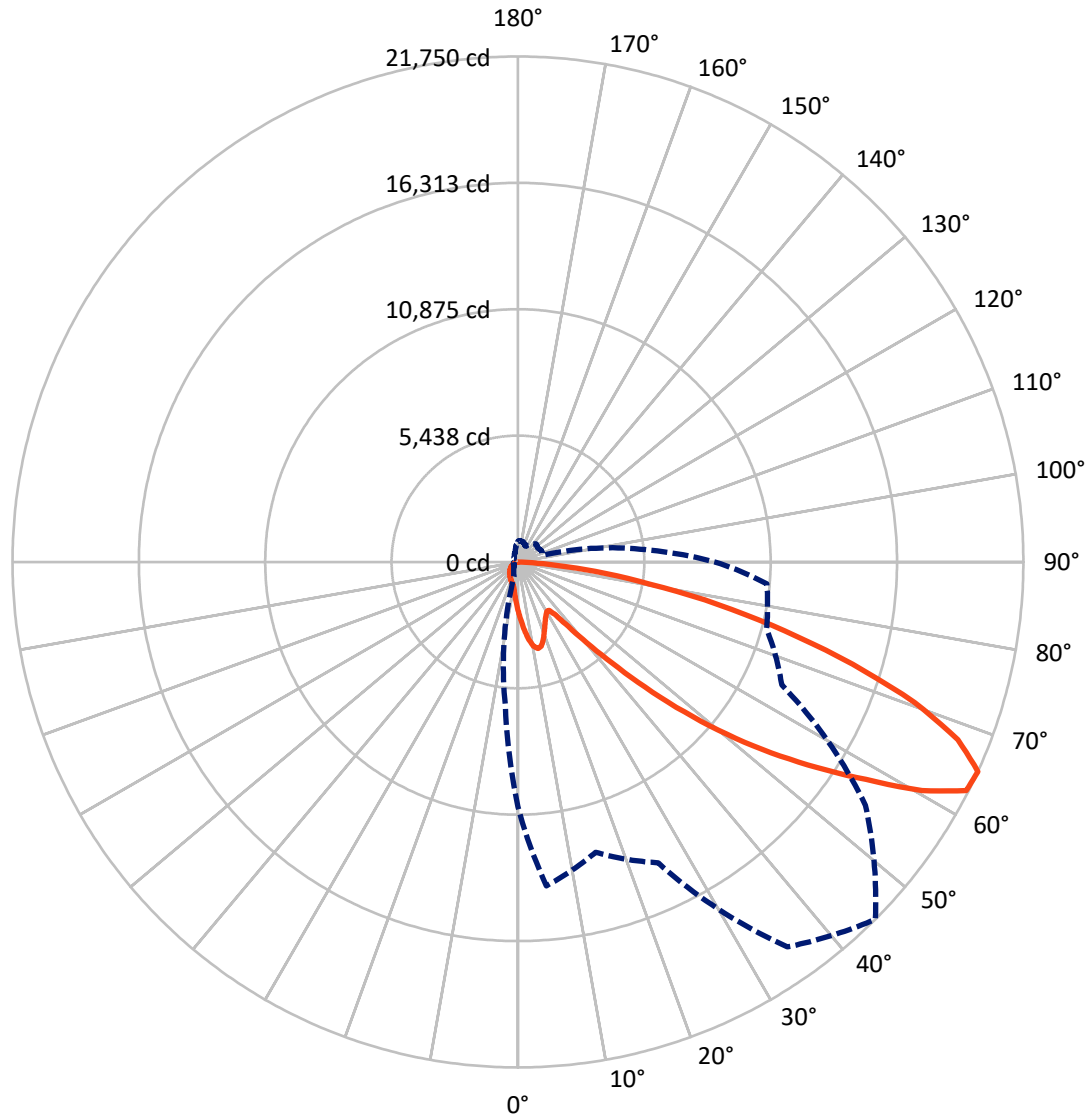
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3076.2	0.0	3076.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	12399.9	0.0	12399.9
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	15476.0	0.0	15476.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.0	1.4
10°-20°	632.5	4.1
20°-30°	931.7	6.0
30°-40°	1197.0	7.7
40°-50°	1935.9	12.5
50°-60°	3394.8	21.9
60°-70°	4247.9	27.4
70°-80°	2482.3	16.0
80°-90°	442.9	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°	15476.0	100.0
0°-180°	15476.0	100.0

**Coefficient of Utilization**



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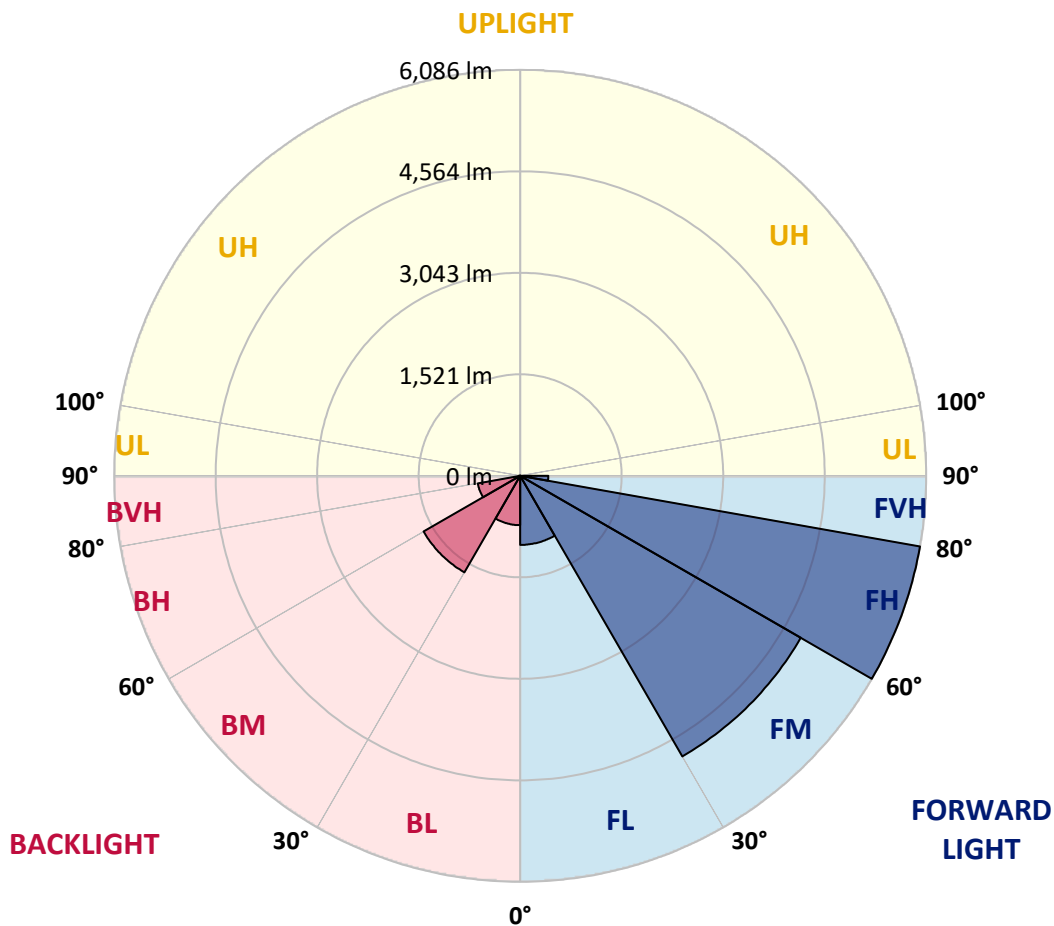
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.5	6.7			
FM (30°-60°)	4856.6	31.4			
FH (60°-80°)	6085.6	39.3			G3/7500
FVH (80°-90°)	422.1	2.7			G3/500
BL (0°-30°)	739.6	4.8	B2/1000		
BM (30°-60°)	1671.3	10.8	B2/2500		
BH (60°-80°)	644.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	20.8	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9
2.5°	2400.9	2419.1	2459.6	2480.9	2513.9	2516.1	2516.1	2487.3	2486.2	2427.6
5°	2683.5	2726.1	2822.1	2921.2	2942.5	2947.9	2937.2	2879.6	2837.0	2722.9
7.5°	2963.9	3045.9	3192.0	3324.2	3366.9	3366.9	3341.3	3247.4	3160.0	2994.8
10°	3196.3	3299.7	3498.0	3646.2	3695.2	3684.6	3632.3	3514.0	3393.5	3193.1
12.5°	3349.8	3466.0	3683.5	3802.9	3853.0	3825.3	3765.6	3650.4	3523.6	3312.5
15°	3426.6	3548.1	3736.8	3799.7	3785.8	3757.1	3749.6	3694.2	3598.2	3401.0
17.5°	3459.6	3572.6	3703.8	3664.3	3547.0	3524.6	3599.3	3669.6	3646.2	3477.7
20°	3490.5	3585.4	3624.9	3450.0	3245.3	3225.1	3367.9	3568.4	3670.7	3549.2
22.5°	3533.2	3591.8	3510.8	3224.0	3003.3	2956.4	3114.2	3415.9	3678.2	3639.8
25°	3591.8	3607.8	3385.0	3009.7	2787.9	2741.0	2888.2	3246.4	3665.4	3737.9
27.5°	3662.2	3629.1	3264.5	2830.6	2616.3	2572.6	2719.7	3083.3	3629.1	3836.0
30°	3753.9	3656.8	3145.1	2692.0	2493.7	2461.7	2603.5	2942.5	3584.3	3960.7
32.5°	3846.6	3668.6	3034.2	2611.0	2466.0	2477.7	2593.9	2866.8	3535.3	4080.1
35°	3946.8	3705.9	2979.8	2690.9	2697.3	2799.7	2847.6	2937.2	3527.8	4242.2
37.5°	4083.3	3789.0	3044.9	3088.6	3310.3	3522.5	3483.1	3281.6	3614.2	4484.2
40°	4279.5	3935.1	3328.5	3765.6	4220.8	4565.2	4414.9	3907.4	3878.6	4832.8
42.5°	4565.2	4167.5	3831.7	4592.9	5364.8	5932.0	5529.0	4714.4	4341.3	5330.7
45°	4987.4	4543.9	4440.5	5466.1	6775.3	7668.7	6830.7	5574.8	4989.5	6084.4
47.5°	5572.7	5097.2	5010.8	6386.1	8489.6	9645.3	8274.3	6372.3	5727.3	7112.2
50°	6349.9	5842.4	5551.4	7392.6	10369.2	11660.3	9716.8	7142.0	6572.7	8368.1
52.5°	7375.5	6881.9	6181.4	8351.0	12302.1	13632.7	11165.6	7818.0	7621.8	9825.5
55°	8774.3	8445.9	7042.9	9265.8	14234.0	15616.7	12558.0	8455.5	9007.8	11556.9
57.5°	10510.0	10744.5	8284.9	10326.6	15970.7	17661.6	13956.8	9346.8	10807.4	13493.0
60°	11629.4	13801.1	10663.5	11894.9	17944.1	19974.0	15873.7	11042.0	12698.7	14187.1
62.5°	11358.6	14773.4	13512.2	13897.1	19758.7	21655.3	17752.2	12744.6	13054.8	13164.6
65°	10528.1	13988.8	12931.1	14286.2	20218.2	21750.2	18254.4	12525.0	11073.9	10747.7
67.5°	9385.2	13058.0	11550.5	13254.2	19387.7	20423.9	17319.4	11079.3	8557.9	8065.3
70°	8151.7	12028.1	10644.3	12096.4	17804.4	18112.6	15729.8	9744.5	6294.5	5446.9
72.5°	6981.1	10955.6	10023.8	10909.8	15692.4	15054.9	13660.4	8564.3	4583.3	3928.7
75°	5783.8	9373.5	9140.0	9500.3	12915.2	11858.6	11350.1	7090.9	3597.1	2842.3
77.5°	4462.8	7324.3	7861.7	7607.9	9090.9	8808.4	8797.7	5328.5	2628.0	1896.7
80°	3054.5	5104.7	6142.0	5366.9	5900.0	5756.1	6626.0	3574.7	1906.2	1141.8
82.5°	1795.4	3107.8	4275.2	2598.2	3262.4	3348.7	3945.8	1738.9	1121.6	263.3
85°	728.2	1227.1	1671.7	1017.1	1573.6	1327.3	1497.9	488.3	312.4	6.4
87.5°	183.4	392.3	275.1	114.1	182.3	167.4	132.2	59.7	12.8	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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2142.9	0°	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9
2421.2	2.5°	2379.6	2355.1	2294.3	2233.6	2184.5	2118.4	2074.7	2022.5	1972.3	1927.6
2698.4	5°	2631.2	2550.2	2439.3	2338.0	2234.6	2134.4	2035.3	1930.8	1834.8	1776.2
2932.9	7.5°	2835.9	2693.1	2545.9	2416.9	2292.2	2174.9	2043.8	1916.9	1766.6	1686.6
3112.0	10°	2988.4	2800.7	2607.8	2459.6	2333.8	2219.7	2108.8	1980.9	1799.6	1699.4
3220.8	12.5°	3088.6	2865.8	2639.7	2470.2	2329.5	2241.0	2192.0	2141.9	1961.7	1844.4
3300.8	15°	3157.9	2911.6	2662.1	2445.7	2273.0	2208.0	2257.0	2314.6	2199.4	2064.0
3383.9	17.5°	3233.6	2971.3	2671.7	2379.6	2163.2	2135.5	2262.3	2395.6	2390.3	2255.9
3462.8	20°	3313.5	3023.6	2665.3	2273.0	2029.9	2054.4	2216.5	2371.1	2436.1	2363.6
3553.4	22.5°	3395.6	3073.7	2640.8	2134.4	1905.2	1981.9	2144.0	2279.4	2356.2	2333.8
3664.3	25°	3499.1	3144.0	2604.6	1985.1	1801.8	1908.4	2059.8	2169.6	2222.9	2221.8
3783.7	27.5°	3622.7	3237.9	2585.4	1864.7	1728.2	1825.2	1959.6	2057.6	2095.0	2095.0
3931.9	30°	3766.7	3348.7	2564.1	1785.8	1685.6	1738.9	1843.3	1939.3	1976.6	1976.6
4094.0	32.5°	3926.6	3455.3	2512.9	1737.8	1653.6	1654.6	1720.7	1808.2	1852.9	1859.3
4296.5	35°	4118.5	3569.4	2400.9	1699.4	1616.3	1572.5	1604.5	1677.0	1730.3	1744.2
4585.4	37.5°	4370.1	3709.1	2241.0	1642.9	1558.7	1486.2	1493.7	1549.1	1607.7	1629.1
4984.2	40°	4708.1	3873.3	2074.7	1561.9	1477.7	1391.3	1388.1	1428.6	1486.2	1509.6
5523.6	42.5°	5154.8	4070.5	1915.8	1484.1	1379.6	1291.1	1285.8	1317.7	1367.9	1392.4
6235.8	45°	5726.2	4312.5	1779.4	1423.3	1283.6	1196.2	1194.1	1220.7	1264.4	1290.0
7147.4	47.5°	6520.5	4554.5	1686.6	1391.3	1207.9	1118.4	1122.6	1146.1	1185.5	1203.7
8327.6	50°	7555.7	4628.1	1639.7	1391.3	1167.4	1049.1	1070.4	1089.6	1119.4	1130.1
9742.3	52.5°	8549.3	4385.0	1597.1	1399.8	1172.7	990.4	1036.3	1050.1	1075.7	1080.0
11053.7	55°	9036.6	3769.9	1538.4	1402.0	1205.8	940.3	1008.6	1034.2	1043.7	1042.7
11814.9	57.5°	8869.2	3048.1	1439.3	1393.4	1228.2	908.3	974.4	1023.5	1029.9	1020.3
11669.9	60°	8281.7	2244.2	1363.6	1330.5	1219.7	898.8	922.2	1000.0	1009.6	996.8
10552.6	62.5°	7296.6	1557.6	1304.9	1191.9	1182.3	895.6	840.1	948.9	972.3	954.2
8482.2	65°	5744.3	1100.3	1123.7	1044.8	1101.3	878.5	754.8	887.0	919.0	891.3
6153.7	67.5°	3887.1	794.3	910.5	946.7	970.2	840.1	693.0	816.7	859.3	823.1
3949.0	70°	2099.2	557.6	601.3	797.5	824.1	774.0	637.5	745.2	794.3	754.8
2807.1	72.5°	1239.9	400.9	421.1	640.7	686.6	681.3	575.7	662.1	721.8	674.9
1937.2	75°	683.4	270.8	300.6	464.8	557.6	525.6	494.7	560.8	621.6	575.7
1214.3	77.5°	306.0	162.1	209.0	304.9	438.2	360.4	382.7	437.1	493.6	445.6
675.9	80°	118.3	90.6	138.6	166.3	318.8	199.4	246.3	322.0	362.5	324.1
147.1	82.5°	14.9	40.5	59.7	65.0	185.5	105.5	142.9	202.6	199.4	172.7
0.0	85°	0.0	7.5	8.5	4.3	80.0	38.4	46.9	66.1	61.8	46.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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°
2142.9	0°	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9
1919.0	2.5°	1866.8	1828.4	1809.2	1793.2	1808.2	1816.7	1816.7	1852.9	1874.3	1882.8
1738.9	5°	1645.0	1573.6	1525.6	1496.9	1506.4	1517.1	1528.8	1574.7	1605.6	1625.9
1614.1	7.5°	1470.2	1361.5	1294.3	1259.1	1264.4	1271.9	1281.5	1326.3	1357.2	1383.8
1590.7	10°	1383.8	1230.3	1141.8	1099.2	1091.7	1087.5	1084.3	1110.9	1134.4	1155.7
1686.6	12.5°	1388.1	1173.8	1066.1	1013.9	991.5	965.9	945.7	949.9	964.9	991.5
1858.3	15°	1442.5	1155.7	1026.7	961.7	924.3	894.5	870.0	864.6	870.0	874.2
2054.4	17.5°	1516.0	1153.6	992.6	911.5	873.2	848.6	826.3	818.8	819.9	825.2
2184.5	20°	1574.7	1147.2	954.2	863.6	829.5	808.1	785.7	778.3	780.4	781.5
2197.3	22.5°	1605.6	1137.6	911.5	815.6	786.8	765.5	745.2	744.2	744.2	750.6
2128.0	25°	1605.6	1117.3	873.2	769.7	744.2	725.0	700.5	704.7	706.8	715.4
2020.3	27.5°	1567.2	1078.9	842.2	730.3	703.6	684.5	662.1	667.4	670.6	680.2
1913.7	30°	1518.2	1033.1	807.1	693.0	662.1	648.2	629.0	631.2	635.4	646.1
1814.6	32.5°	1465.9	978.7	778.3	655.7	624.8	614.1	592.8	596.0	600.2	612.0
1716.5	35°	1408.4	914.7	744.2	621.6	590.6	582.1	557.6	559.7	566.1	578.9
1610.9	37.5°	1347.6	862.5	710.0	588.5	556.5	548.0	522.4	524.5	532.0	546.9
1500.1	40°	1287.9	811.3	673.8	553.3	521.3	513.9	486.2	488.3	496.8	512.8
1388.1	42.5°	1222.9	771.9	626.9	517.1	483.0	475.5	449.9	453.1	462.7	478.7
1284.7	45°	1145.0	746.3	574.6	483.0	444.6	437.1	413.7	420.1	430.7	446.7
1196.2	47.5°	1065.1	735.6	530.9	446.7	405.1	398.7	379.5	390.2	401.9	414.7
1120.5	50°	988.3	721.8	486.2	412.6	371.0	364.6	351.8	365.7	377.4	389.1
1066.1	52.5°	900.9	691.9	445.6	382.7	342.2	340.1	333.7	346.5	357.2	367.8
1019.2	55°	810.3	643.9	410.5	356.1	317.7	319.8	316.6	327.3	335.8	345.4
976.6	57.5°	731.4	583.2	382.7	327.3	296.4	302.8	298.5	303.8	309.2	320.9
925.4	60°	651.4	510.7	351.8	293.2	275.1	282.5	270.8	269.7	271.9	275.1
849.7	62.5°	543.7	435.0	313.4	263.3	251.6	254.8	232.4	215.4	215.4	218.6
744.2	65°	437.1	364.6	270.8	229.2	219.6	217.5	185.5	162.1	159.9	169.5
621.6	67.5°	359.3	302.8	228.2	190.8	184.4	186.6	163.1	139.7	137.5	148.2
506.4	70°	297.5	244.1	182.3	147.1	153.5	163.1	139.7	117.3	114.1	123.7
411.5	72.5°	236.7	190.8	139.7	108.7	126.9	138.6	114.1	92.8	90.6	99.2
317.7	75°	173.8	136.5	94.9	78.9	98.1	108.7	83.2	66.1	62.9	70.4
212.2	77.5°	107.7	76.8	59.7	46.9	67.2	72.5	43.7	38.4	37.3	42.6
129.0	80°	50.1	33.1	28.8	16.0	24.5	28.8	18.1	20.3	21.3	25.6
65.0	82.5°	13.9	5.3	1.1	0.0	0.0	8.5	4.3	8.5	10.7	16.0
5.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.3	9.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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-SB4B-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2142.9	0°	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9	2142.9
1942.5	2.5°	1987.3	2029.9	2098.2	2168.5	2237.8	2308.2	2376.4	2400.9
1718.6	5°	1802.8	1900.9	2036.3	2181.3	2330.6	2482.0	2620.6	2683.5
1487.3	7.5°	1597.1	1737.8	1941.4	2168.5	2406.3	2644.0	2862.6	2963.9
1258.0	10°	1377.4	1555.5	1787.9	2095.0	2436.1	2764.5	3065.1	3196.3
1056.5	12.5°	1168.5	1355.1	1612.0	1979.8	2412.7	2833.8	3195.2	3349.8
914.7	15°	993.6	1158.9	1436.1	1843.3	2337.0	2838.1	3257.0	3426.6
835.8	17.5°	862.5	970.2	1257.0	1692.0	2237.8	2798.6	3278.4	3459.6
793.2	20°	797.5	827.3	1024.6	1497.9	2145.1	2761.3	3299.7	3490.5
759.1	22.5°	759.1	766.6	838.0	1247.4	2034.2	2749.6	3337.0	3533.2
728.2	25°	728.2	730.3	749.5	988.3	1864.7	2742.1	3394.6	3591.8
696.2	27.5°	697.3	697.3	707.9	796.4	1634.4	2710.1	3469.2	3662.2
664.2	30°	666.3	666.3	673.8	704.7	1364.7	2647.2	3558.8	3753.9
632.2	32.5°	634.4	634.4	640.7	663.1	1089.6	2568.3	3640.9	3846.6
599.2	35°	602.4	600.2	608.8	632.2	866.8	2468.1	3722.9	3946.8
566.1	37.5°	568.2	567.2	575.7	602.4	748.4	2351.9	3784.8	4083.3
533.1	40°	532.0	532.0	541.6	570.4	714.3	2205.8	3882.9	4279.5
499.0	42.5°	499.0	496.8	507.5	542.7	688.7	2066.2	4058.8	4565.2
468.0	45°	467.0	462.7	472.3	516.0	643.9	2017.1	4387.1	4987.4
438.2	47.5°	437.1	426.5	435.0	484.0	603.4	2200.5	4924.5	5572.7
411.5	50°	412.6	392.3	399.8	452.0	572.5	2598.2	5621.7	6349.9
387.0	52.5°	387.0	360.4	364.6	412.6	544.8	2976.6	6377.6	7375.5
362.5	55°	360.4	330.5	332.6	373.1	505.3	3033.2	7115.4	8774.3
334.8	57.5°	330.5	302.8	302.8	336.9	476.6	2629.1	7682.6	10510.0
300.6	60°	297.5	279.3	274.0	308.1	502.1	1855.1	7748.7	11629.4
256.9	62.5°	261.2	251.6	244.1	280.4	521.3	1099.2	7216.7	11358.6
202.6	65°	219.6	217.5	212.2	308.1	439.2	649.3	6195.3	10528.1
172.7	67.5°	184.4	181.2	181.2	323.0	333.7	408.3	4840.3	9385.2
147.1	70°	158.9	147.1	147.1	244.1	202.6	282.5	3379.6	8151.7
121.5	72.5°	133.3	120.5	111.9	195.1	151.4	206.8	2112.0	6981.1
92.8	75°	106.6	97.0	86.4	129.0	113.0	156.7	1227.1	5783.8
58.6	77.5°	76.8	72.5	60.8	94.9	82.1	113.0	730.3	4462.8
36.2	80°	39.4	40.5	38.4	54.4	55.4	76.8	415.8	3054.5
23.5	82.5°	23.5	18.1	20.3	26.7	32.0	43.7	156.7	1795.4
17.1	85°	14.9	9.6	9.6	12.8	16.0	17.1	48.0	728.2
8.5	87.5°	7.5	3.2	4.3	6.4	5.3	4.3	2.1	183.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)