

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: P947506

Luminaire Tested: **GALN-SB2D-830-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947506  
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-SB2D-830-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

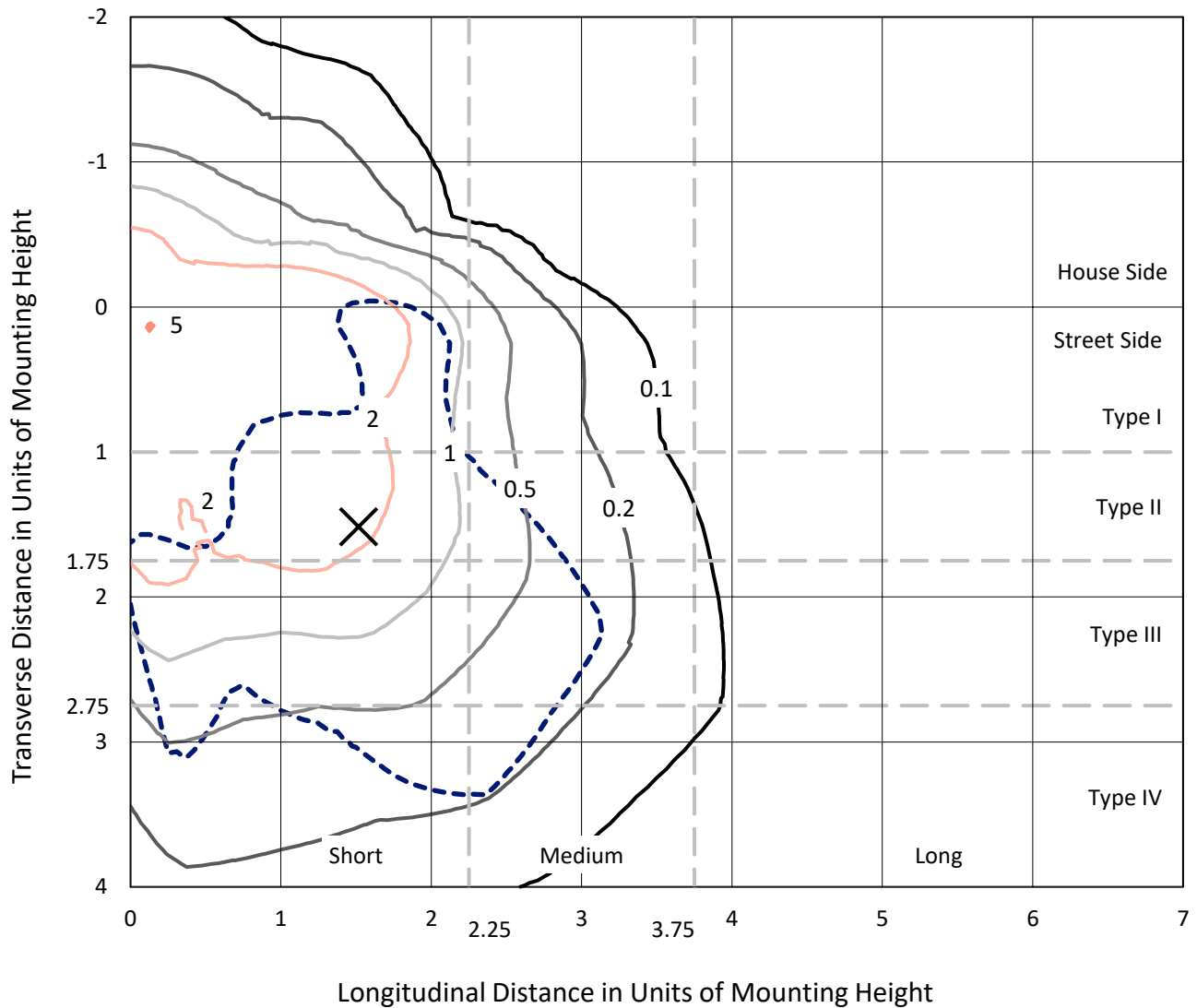
Lumens per Lamp: N/A  
Luminaire Lumens: 13956 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

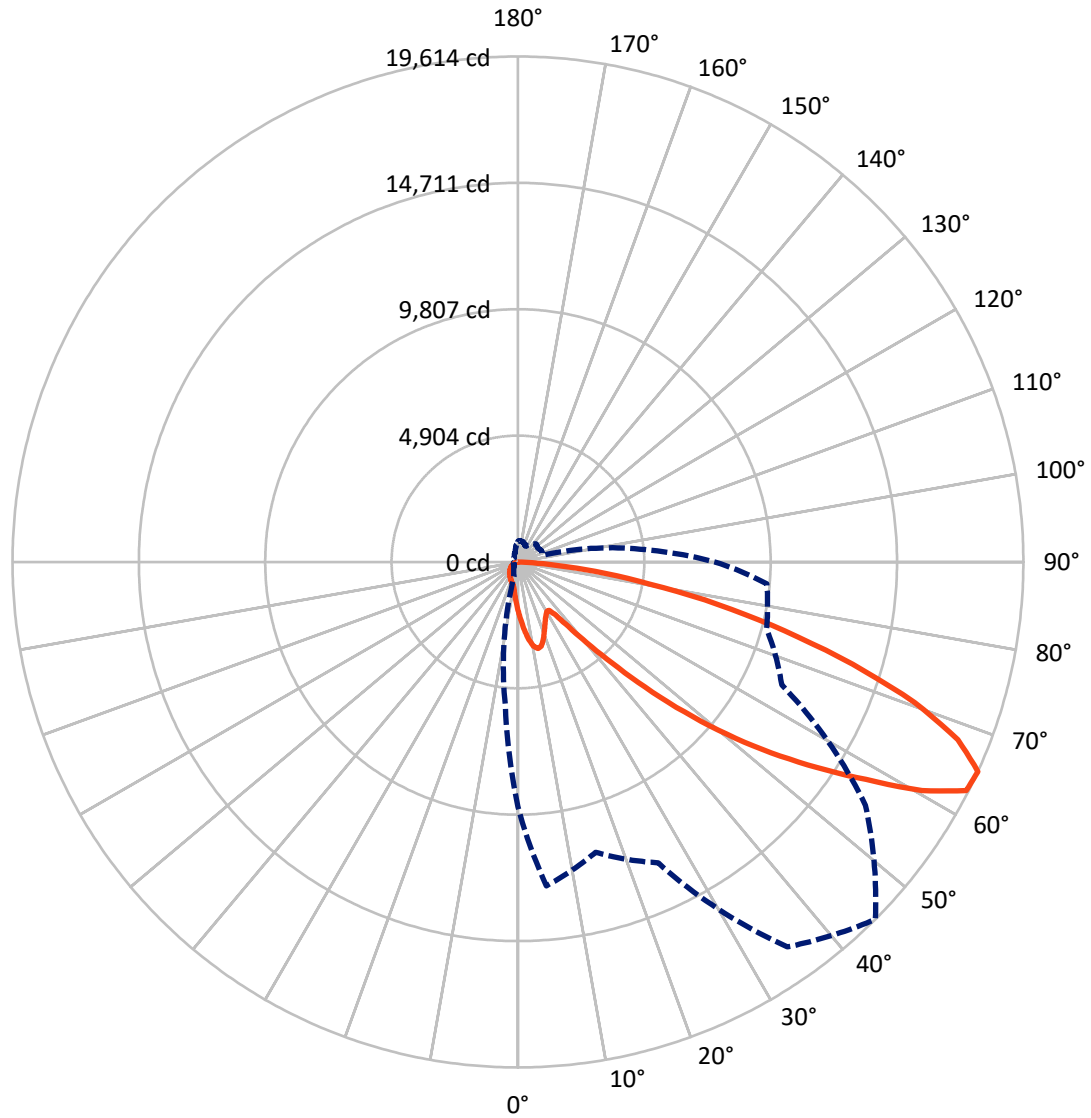
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2774.0	0.0	2774.0
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	11182.0	0.0	11182.0
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	13956.0	0.0	13956.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.3	1.4
10°-20°	570.3	4.1
20°-30°	840.2	6.0
30°-40°	1079.5	7.7
40°-50°	1745.8	12.5
50°-60°	3061.4	21.9
60°-70°	3830.7	27.4
70°-80°	2238.5	16.0
80°-90°	399.4	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°	13956.0	100.0
0°-180°	13956.0	100.0



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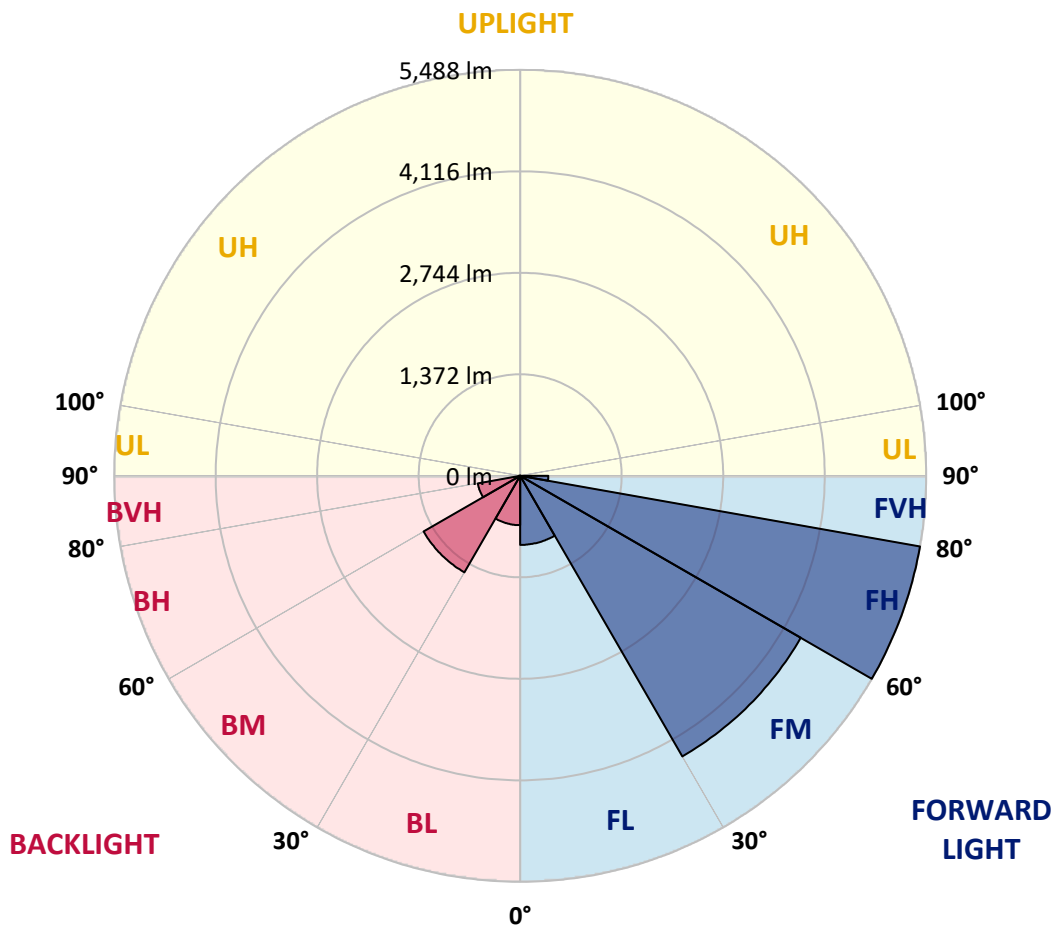
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.8	6.7			
FM (30°-60°)	4379.6	31.4			
FH (60°-80°)	5487.9	39.3			G3/7500
FVH (80°-90°)	380.7	2.7			G3/500
BL (0°-30°)	667.0	4.8	B2/1000		
BM (30°-60°)	1507.1	10.8	B2/2500		
BH (60°-80°)	581.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	18.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
2.5°	2165.1	2181.5	2218.0	2237.2	2267.0	2269.0	2269.0	2243.0	2242.0	2189.2
5°	2419.9	2458.4	2544.9	2634.3	2653.5	2658.3	2648.7	2596.8	2558.3	2455.5
7.5°	2672.8	2746.8	2878.5	2997.7	3036.2	3036.2	3013.1	2928.5	2849.7	2700.6
10°	2882.3	2975.6	3154.4	3288.1	3332.3	3322.7	3275.6	3168.8	3060.2	2879.5
12.5°	3020.8	3125.6	3321.7	3429.4	3474.6	3449.6	3395.7	3291.9	3177.5	2987.1
15°	3090.0	3199.6	3369.8	3426.5	3414.0	3388.1	3381.3	3331.3	3244.8	3066.9
17.5°	3119.8	3221.7	3340.0	3304.4	3198.7	3178.5	3245.8	3309.2	3288.1	3136.2
20°	3147.7	3233.3	3268.8	3111.2	2926.6	2908.3	3037.1	3217.9	3310.2	3200.6
22.5°	3186.2	3239.0	3166.0	2907.3	2708.3	2666.0	2808.3	3080.4	3316.9	3282.3
25°	3239.0	3253.5	3052.5	2714.1	2514.1	2471.8	2604.5	2927.5	3305.4	3370.7
27.5°	3302.5	3272.7	2943.9	2552.6	2359.3	2319.9	2452.6	2780.4	3272.7	3459.2
30°	3385.2	3297.7	2836.2	2427.6	2248.8	2219.9	2347.8	2653.5	3232.3	3571.7
32.5°	3468.8	3308.3	2736.2	2354.5	2223.8	2234.3	2339.1	2585.3	3188.1	3679.4
35°	3559.2	3341.9	2687.2	2426.6	2432.4	2524.7	2568.0	2648.7	3181.3	3825.5
37.5°	3682.2	3416.9	2745.8	2785.2	2985.2	3176.5	3141.0	2959.3	3259.2	4043.7
40°	3859.2	3548.6	3001.6	3395.7	3806.3	4116.8	3981.3	3523.6	3497.7	4358.1
42.5°	4116.8	3758.2	3455.4	4141.8	4837.9	5349.4	4985.9	4251.4	3914.9	4807.1
45°	4497.5	4097.6	4004.3	4929.2	6109.8	6915.5	6159.8	5027.3	4499.5	5486.8
47.5°	5025.4	4596.6	4518.7	5758.9	7655.8	8698.0	7461.6	5746.4	5164.8	6413.7
50°	5726.2	5268.6	5006.1	6666.5	9350.8	10515.1	8762.4	6440.6	5927.2	7546.2
52.5°	6651.1	6206.0	5574.3	7530.8	11093.9	12293.7	10069.0	7050.1	6873.2	8860.5
55°	7912.5	7616.4	6351.2	8355.7	12836.0	14082.9	11324.6	7625.0	8123.1	10421.8
57.5°	9477.7	9689.2	7471.2	9312.3	14402.1	15926.9	12586.0	8428.8	9745.9	12167.8
60°	10487.2	12445.6	9616.1	10726.6	16181.7	18012.3	14314.6	9957.5	11451.5	12793.7
62.5°	10243.0	13322.4	12185.1	12532.1	17818.0	19528.4	16008.6	11492.8	11772.6	11871.6
65°	9494.0	12614.8	11661.1	12883.1	18232.4	19614.0	16461.5	11294.8	9986.3	9692.1
67.5°	8463.4	11775.5	10416.1	11952.4	17483.5	18418.0	15618.3	9991.1	7717.3	7273.2
70°	7351.0	10846.8	9598.8	10908.3	16055.8	16333.6	14184.8	8787.4	5676.2	4911.9
72.5°	6295.4	9879.6	9039.3	9838.2	14151.2	13576.2	12318.7	7723.1	4133.2	3542.8
75°	5215.7	8452.8	8242.3	8567.2	11646.7	10693.9	10235.3	6394.4	3243.8	2563.2
77.5°	4024.5	6605.0	7089.5	6860.7	8198.1	7943.3	7933.7	4805.2	2369.9	1710.4
80°	2754.5	4603.3	5538.8	4839.8	5320.5	5190.7	5975.2	3223.7	1719.0	1029.7
82.5°	1619.0	2802.5	3855.3	2343.0	2942.0	3019.8	3558.2	1568.1	1011.4	237.5
85°	656.7	1106.6	1507.5	917.2	1419.1	1197.0	1350.8	440.3	281.7	5.8
87.5°	165.4	353.8	248.0	102.9	164.4	150.9	119.2	53.8	11.5	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°
1932.5	0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
2183.4	2.5°	2145.9	2123.8	2069.0	2014.2	1970.0	1910.3	1870.9	1823.8	1778.6	1738.3
2433.4	5°	2372.8	2299.7	2199.7	2108.4	2015.1	1924.8	1835.4	1741.1	1654.6	1601.7
2644.9	7.5°	2557.4	2428.6	2295.9	2179.5	2067.1	1961.3	1843.0	1728.6	1593.1	1521.0
2806.4	10°	2694.9	2525.7	2351.6	2218.0	2104.6	2001.7	1901.7	1786.3	1622.9	1532.5
2904.5	12.5°	2785.2	2584.3	2380.5	2227.6	2100.7	2020.9	1976.7	1931.5	1769.0	1663.3
2976.6	15°	2847.7	2625.6	2400.7	2205.5	2049.8	1991.1	2035.3	2087.2	1983.4	1861.3
3051.6	17.5°	2916.0	2679.5	2409.3	2145.9	1950.7	1925.7	2040.1	2160.3	2155.5	2034.4
3122.7	20°	2988.1	2726.6	2403.6	2049.8	1830.5	1852.7	1998.8	2138.2	2196.9	2131.5
3204.4	22.5°	3062.1	2771.8	2381.4	1924.8	1718.1	1787.3	1933.4	2055.5	2124.7	2104.6
3304.4	25°	3155.4	2835.2	2348.8	1790.2	1624.8	1720.9	1857.5	1956.5	2004.6	2003.6
3412.1	27.5°	3266.9	2919.8	2331.4	1681.5	1558.5	1646.0	1767.1	1855.5	1889.2	1889.2
3545.7	30°	3396.7	3019.8	2312.2	1610.4	1520.0	1568.1	1662.3	1748.8	1782.5	1782.5
3691.9	32.5°	3540.9	3116.0	2266.1	1567.1	1491.2	1492.1	1551.7	1630.6	1671.0	1676.7
3874.5	35°	3714.0	3218.8	2165.1	1532.5	1457.5	1418.1	1446.9	1512.3	1560.4	1572.9
4135.1	37.5°	3940.9	3344.8	2020.9	1481.6	1405.6	1340.2	1347.0	1396.9	1449.8	1469.1
4494.7	40°	4245.6	3492.8	1870.9	1408.5	1332.5	1254.7	1251.8	1288.3	1340.2	1361.4
4981.1	42.5°	4648.5	3670.7	1727.7	1338.3	1244.1	1164.3	1159.5	1188.3	1233.5	1255.6
5623.4	45°	5163.8	3889.0	1604.6	1283.5	1157.6	1078.7	1076.8	1100.8	1140.2	1163.3
6445.4	47.5°	5880.1	4107.2	1521.0	1254.7	1089.3	1008.5	1012.4	1033.5	1069.1	1085.4
7509.7	50°	6813.6	4173.5	1478.7	1254.7	1052.8	946.0	965.3	982.6	1009.5	1019.1
8785.5	52.5°	7709.6	3954.3	1440.2	1262.3	1057.6	893.2	934.5	947.0	970.1	973.9
9968.0	55°	8149.0	3399.6	1387.3	1264.3	1087.4	848.0	909.5	932.6	941.2	940.3
10654.5	57.5°	7998.1	2748.7	1297.9	1256.6	1107.6	819.1	878.7	923.0	928.7	920.1
10523.7	60°	7468.3	2023.8	1229.7	1199.9	1099.9	810.5	831.6	901.8	910.5	898.9
9516.2	62.5°	6580.0	1404.6	1176.8	1074.9	1066.2	807.6	757.6	855.7	876.8	860.5
7649.1	65°	5180.1	992.2	1013.3	942.2	993.1	792.2	680.7	799.9	828.7	803.7
5549.3	67.5°	3505.3	716.3	821.1	853.7	874.9	757.6	624.9	736.4	774.9	742.2
3561.1	70°	1893.0	502.8	542.2	719.1	743.2	698.0	574.9	672.0	716.3	680.7
2531.4	72.5°	1118.1	361.5	379.8	577.8	619.2	614.3	519.2	597.0	650.9	608.6
1746.9	75°	616.3	244.2	271.1	419.2	502.8	474.0	446.1	505.7	560.5	519.2
1095.1	77.5°	275.9	146.1	188.4	275.0	395.1	325.0	345.2	394.2	445.1	401.9
609.5	80°	106.7	81.7	125.0	150.0	287.5	179.8	222.1	290.3	326.9	292.3
132.7	82.5°	13.5	36.5	53.8	58.6	167.3	95.2	128.8	182.7	179.8	155.8
0.0	85°	0.0	6.7	7.7	3.8	72.1	34.6	42.3	59.6	55.8	42.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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°
1932.5	0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
1730.6	2.5°	1683.5	1648.8	1631.5	1617.1	1630.6	1638.3	1638.3	1671.0	1690.2	1697.9
1568.1	5°	1483.5	1419.1	1375.8	1349.8	1358.5	1368.1	1378.7	1420.0	1447.9	1466.2
1455.6	7.5°	1325.8	1227.7	1167.2	1135.4	1140.2	1147.0	1155.6	1196.0	1223.9	1247.9
1434.4	10°	1247.9	1109.5	1029.7	991.2	984.5	980.7	977.8	1001.8	1023.0	1042.2
1521.0	12.5°	1251.8	1058.5	961.4	914.3	894.1	871.0	852.8	856.6	870.1	894.1
1675.8	15°	1300.8	1042.2	925.8	867.2	833.6	806.6	784.5	779.7	784.5	788.4
1852.7	17.5°	1367.1	1040.3	895.1	822.0	787.4	765.3	745.1	738.4	739.3	744.1
1970.0	20°	1420.0	1034.5	860.5	778.8	748.0	728.8	708.6	701.8	703.8	704.7
1981.5	22.5°	1447.9	1025.8	822.0	735.5	709.5	690.3	672.0	671.1	671.1	676.8
1919.0	25°	1447.9	1007.6	787.4	694.1	671.1	653.8	631.7	635.5	637.4	645.1
1821.9	27.5°	1413.3	973.0	759.5	658.6	634.5	617.2	597.0	601.9	604.7	613.4
1725.8	30°	1369.1	931.6	727.8	624.9	597.0	584.5	567.2	569.2	573.0	582.6
1636.3	32.5°	1322.0	882.6	701.8	591.3	563.4	553.8	534.6	537.4	541.3	551.9
1547.9	35°	1270.0	824.9	671.1	560.5	532.6	524.9	502.8	504.7	510.5	522.1
1452.7	37.5°	1215.2	777.8	640.3	530.7	501.9	494.2	471.1	473.0	479.7	493.2
1352.7	40°	1161.4	731.6	607.6	499.0	470.1	463.4	438.4	440.3	448.0	462.4
1251.8	42.5°	1102.8	696.1	565.3	466.3	435.5	428.8	405.7	408.6	417.3	431.7
1158.5	45°	1032.6	673.0	518.2	435.5	400.9	394.2	373.0	378.8	388.4	402.8
1078.7	47.5°	960.5	663.4	478.8	402.8	365.3	359.6	342.3	351.9	362.5	374.0
1010.5	50°	891.2	650.9	438.4	372.1	334.6	328.8	317.3	329.8	340.3	350.9
961.4	52.5°	812.4	624.0	401.9	345.2	308.6	306.7	300.9	312.5	322.1	331.7
919.1	55°	730.7	580.7	370.1	321.1	286.5	288.4	285.5	295.2	302.8	311.5
880.7	57.5°	659.5	525.9	345.2	295.2	267.3	273.0	269.2	274.0	278.8	289.4
834.5	60°	587.4	460.5	317.3	264.4	248.0	254.8	244.2	243.2	245.2	248.0
766.3	62.5°	490.3	392.3	282.7	237.5	226.9	229.8	209.6	194.2	194.2	197.1
671.1	65°	394.2	328.8	244.2	206.7	198.1	196.1	167.3	146.1	144.2	152.9
560.5	67.5°	324.0	273.0	205.7	172.1	166.3	168.2	147.1	125.9	124.0	133.6
456.7	70°	268.2	220.2	164.4	132.7	138.4	147.1	125.9	105.8	102.9	111.5
371.1	72.5°	213.4	172.1	125.9	98.1	114.4	125.0	102.9	83.6	81.7	89.4
286.5	75°	156.7	123.1	85.6	71.1	88.5	98.1	75.0	59.6	56.7	63.5
191.3	77.5°	97.1	69.2	53.8	42.3	60.6	65.4	39.4	34.6	33.6	38.5
116.3	80°	45.2	29.8	26.0	14.4	22.1	26.0	16.3	18.3	19.2	23.1
58.6	82.5°	12.5	4.8	1.0	0.0	0.0	7.7	3.8	7.7	9.6	14.4
4.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.8	8.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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-SB2D-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1932.5	0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
1751.7	2.5°	1792.1	1830.5	1892.1	1955.5	2018.0	2081.5	2143.0	2165.1
1549.8	5°	1625.8	1714.2	1836.3	1967.1	2101.7	2238.2	2363.2	2419.9
1341.2	7.5°	1440.2	1567.1	1750.8	1955.5	2169.9	2384.3	2581.4	2672.8
1134.5	10°	1242.2	1402.7	1612.3	1889.2	2196.9	2493.0	2764.1	2882.3
952.8	12.5°	1053.7	1222.0	1453.7	1785.4	2175.7	2555.5	2881.4	3020.8
824.9	15°	896.0	1045.1	1295.0	1662.3	2107.4	2559.3	2937.1	3090.0
753.8	17.5°	777.8	874.9	1133.5	1525.8	2018.0	2523.7	2956.4	3119.8
715.3	20°	719.1	746.1	923.9	1350.8	1934.4	2490.1	2975.6	3147.7
684.5	22.5°	684.5	691.3	755.7	1124.9	1834.4	2479.5	3009.3	3186.2
656.7	25°	656.7	658.6	675.9	891.2	1681.5	2472.8	3061.2	3239.0
627.8	27.5°	628.8	628.8	638.4	718.2	1473.9	2443.9	3128.5	3302.5
599.0	30°	600.9	600.9	607.6	635.5	1230.6	2387.2	3209.2	3385.2
570.1	32.5°	572.0	572.0	577.8	598.0	982.6	2316.1	3283.3	3468.8
540.3	35°	543.2	541.3	549.0	570.1	781.6	2225.7	3357.3	3559.2
510.5	37.5°	512.4	511.5	519.2	543.2	674.9	2120.9	3413.1	3682.2
480.7	40°	479.7	479.7	488.4	514.4	644.2	1989.2	3501.5	3859.2
449.9	42.5°	449.9	448.0	457.6	489.4	621.1	1863.2	3660.1	4116.8
422.1	45°	421.1	417.3	425.9	465.3	580.7	1819.0	3956.3	4497.5
395.1	47.5°	394.2	384.6	392.3	436.5	544.2	1984.4	4440.8	5025.4
371.1	50°	372.1	353.8	360.5	407.6	516.3	2343.0	5069.6	5726.2
349.0	52.5°	349.0	325.0	328.8	372.1	491.3	2684.3	5751.2	6651.1
326.9	55°	325.0	298.0	300.0	336.5	455.7	2735.2	6416.5	7912.5
301.9	57.5°	298.0	273.0	273.0	303.8	429.8	2370.9	6928.0	9477.7
271.1	60°	268.2	251.9	247.1	277.9	452.8	1672.9	6987.6	10487.2
231.7	62.5°	235.5	226.9	220.2	252.9	470.1	991.2	6507.9	10243.0
182.7	65°	198.1	196.1	191.3	277.9	396.1	585.5	5586.8	9494.0
155.8	67.5°	166.3	163.4	163.4	291.3	300.9	368.2	4364.9	8463.4
132.7	70°	143.3	132.7	132.7	220.2	182.7	254.8	3047.7	7351.0
109.6	72.5°	120.2	108.6	100.9	175.9	136.5	186.5	1904.6	6295.4
83.6	75°	96.1	87.5	77.9	116.3	101.9	141.3	1106.6	5215.7
52.9	77.5°	69.2	65.4	54.8	85.6	74.0	101.9	658.6	4024.5
32.7	80°	35.6	36.5	34.6	49.0	50.0	69.2	375.0	2754.5
21.2	82.5°	21.2	16.3	18.3	24.0	28.8	39.4	141.3	1619.0
15.4	85°	13.5	8.7	8.7	11.5	14.4	15.4	43.3	656.7
7.7	87.5°	6.7	2.9	3.8	5.8	4.8	3.8	1.9	165.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)