

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: P951771

Luminaire Tested: **GALN-SB5D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951771
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-SB5D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA 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: 34114 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

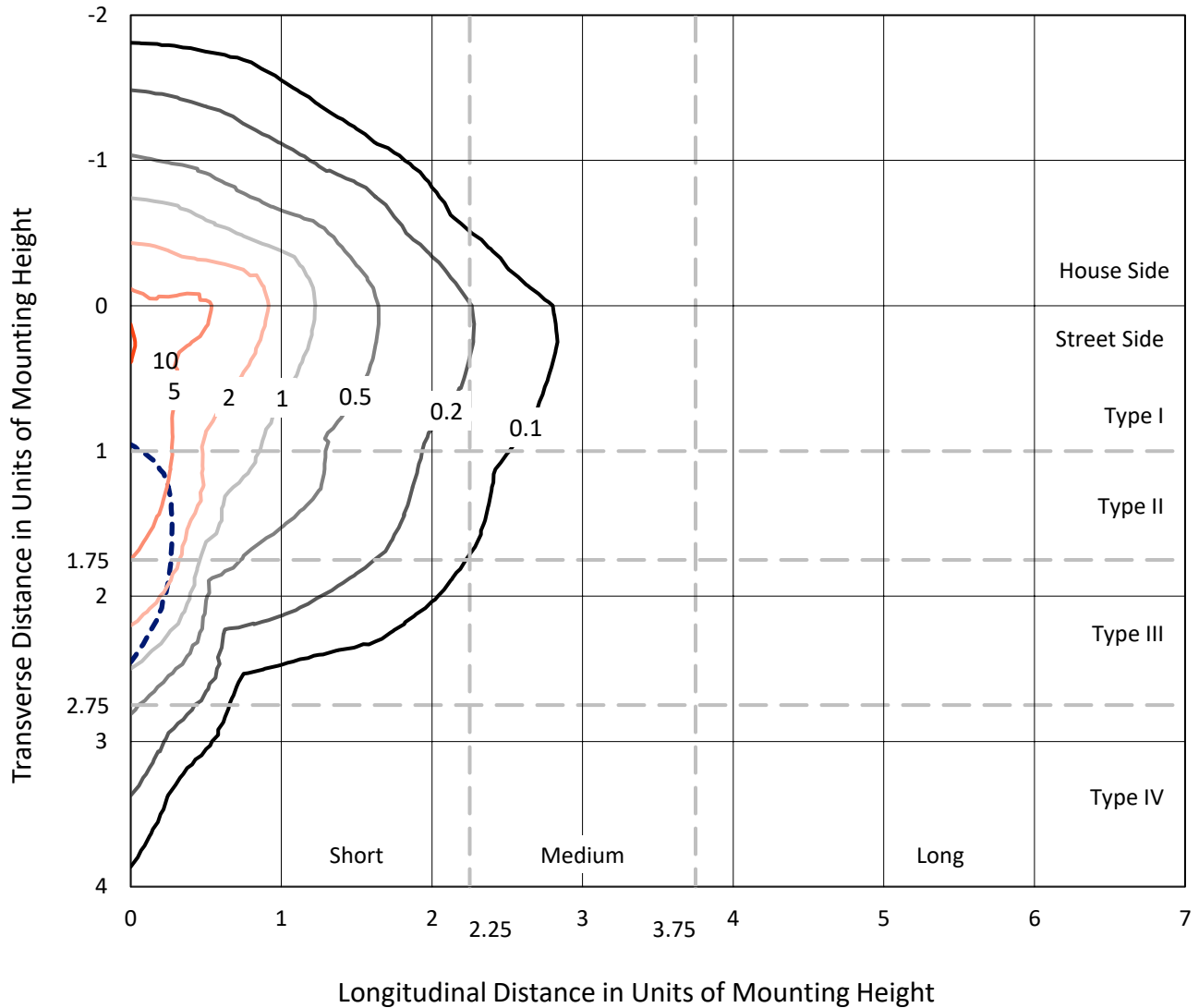
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

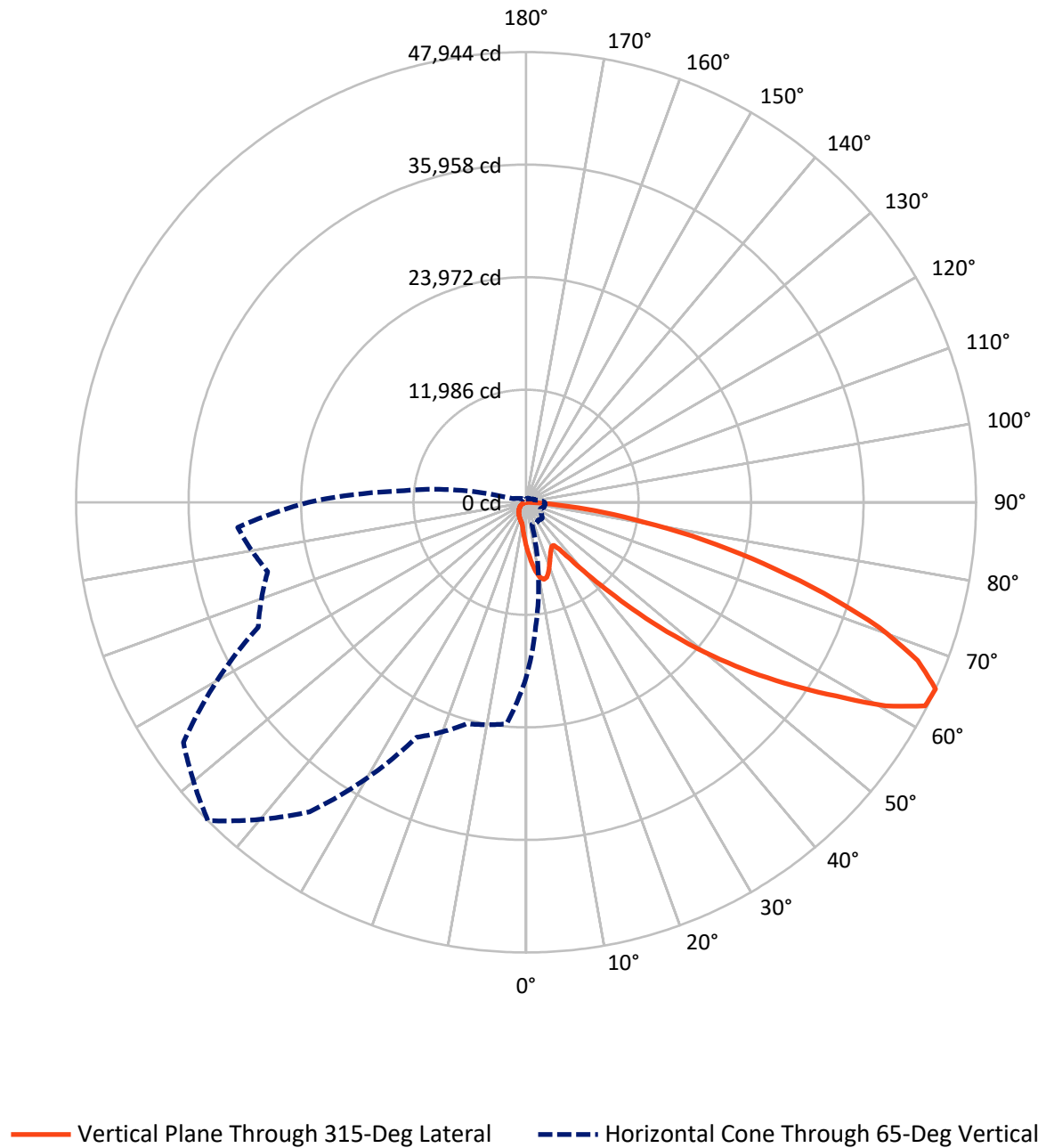
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	4777.4	0.0	4777.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	29336.6	0.0	29336.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	34114.0	0.0	34114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	1.4
10°-20°	1394.1	4.1
20°-30°	2053.8	6.0
30°-40°	2638.6	7.7
40°-50°	4267.4	12.5
50°-60°	7483.3	21.9
60°-70°	9363.7	27.4
70°-80°	5471.7	16.0
80°-90°	976.2	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°	34114.0	100.0
0°-180°	34114.0	100.0

Coefficient of Utilization



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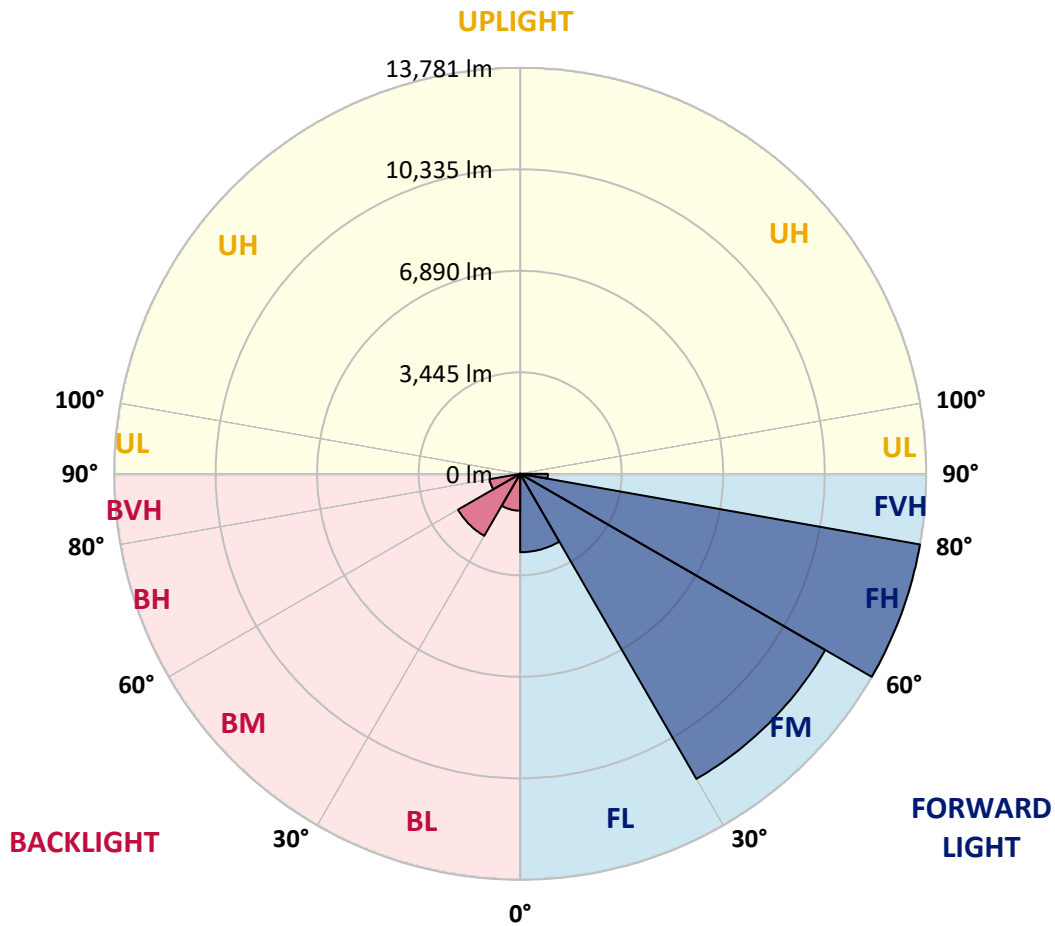
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2660.8	7.8			
FM (30°-60°)	11956.6	35.0			
FH (60°-80°)	13780.5	40.4			G5
FVH (80°-90°)	938.7	2.8			G5
BL (0°-30°)	1252.2	3.7	B3/2500		
BM (30°-60°)	2432.8	7.1	B2/2500		
BH (60°-80°)	1054.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	37.5	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°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
2.5°	5337.1	5245.4	5191.4	5057.4	4923.5	4815.4	4669.6	4573.3	4458.1	4347.7
5°	5948.1	5800.0	5621.4	5377.0	5153.8	4925.8	4704.9	4486.3	4256.0	4044.5
7.5°	6465.1	6251.3	5936.3	5612.0	5327.7	5052.7	4794.2	4505.1	4225.5	3894.1
10°	6859.9	6587.3	6173.7	5748.3	5421.7	5144.4	4892.9	4648.5	4366.5	3967.0
12.5°	7099.6	6808.2	6317.1	5818.8	5445.2	5135.0	4939.9	4831.8	4721.3	4324.2
15°	7275.9	6961.0	6418.1	5868.2	5391.1	5010.4	4867.1	4975.2	5102.1	4848.3
17.5°	7459.2	7127.8	6549.7	5889.3	5245.4	4768.3	4707.2	4986.9	5280.7	5268.9
20°	7633.1	7304.1	6664.9	5875.2	5010.4	4474.6	4528.6	4885.9	5226.6	5370.0
22.5°	7832.9	7485.1	6775.3	5821.2	4704.9	4199.6	4368.8	4726.0	5024.5	5193.7
25°	8077.3	7713.0	6930.4	5741.3	4375.9	3971.7	4206.7	4540.4	4782.4	4900.0
27.5°	8340.5	7985.6	7137.2	5699.0	4110.3	3809.5	4023.4	4319.5	4535.7	4617.9
30°	8667.2	8302.9	7381.7	5652.0	3936.4	3715.5	3833.0	4063.3	4274.8	4357.1
32.5°	9024.4	8655.4	7616.7	5539.2	3830.7	3645.0	3647.4	3793.1	3985.8	4084.5
35°	9470.9	9078.4	7868.1	5292.4	3746.1	3562.7	3466.4	3536.9	3696.7	3814.2
37.5°	10107.8	9633.1	8176.0	4939.9	3621.5	3435.8	3276.0	3292.5	3414.7	3543.9
40°	10986.7	10378.0	8537.9	4573.3	3442.9	3257.2	3066.9	3059.8	3149.1	3276.0
42.5°	12175.9	11362.7	8972.7	4223.1	3271.3	3041.0	2846.0	2834.2	2904.7	3015.2
45°	13745.7	12622.4	9506.1	3922.3	3137.4	2829.5	2636.8	2632.1	2690.9	2787.2
47.5°	15755.1	14373.2	10039.6	3717.9	3066.9	2662.7	2465.3	2474.7	2526.4	2613.3
50°	18356.6	16655.1	10201.8	3614.5	3066.9	2573.4	2312.5	2359.5	2401.8	2467.6
52.5°	21475.2	18845.4	9666.0	3520.4	3085.7	2585.1	2183.2	2284.3	2314.8	2371.2
55°	24365.8	19919.4	8309.9	3391.2	3090.4	2658.0	2072.8	2223.2	2279.6	2300.7
57.5°	26043.8	19550.5	6718.9	3172.6	3071.6	2707.3	2002.3	2148.0	2256.1	2270.2
60°	25724.2	18255.6	4947.0	3005.8	2932.9	2688.5	1981.1	2032.8	2204.4	2225.5
62.5°	23261.3	16084.1	3433.5	2876.5	2627.4	2606.3	1974.1	1851.9	2091.6	2143.3
65°	18697.4	12662.3	2425.3	2477.0	2303.1	2427.7	1936.5	1663.9	1955.3	2025.8
67.5°	13564.8	8568.5	1750.8	2007.0	2086.9	2138.6	1851.9	1527.6	1800.2	1894.2
70°	8704.8	4627.3	1229.1	1325.5	1757.9	1816.6	1706.2	1405.4	1642.7	1750.8
72.5°	6187.8	2733.2	883.6	928.3	1412.4	1513.5	1501.7	1269.1	1459.4	1591.0
75°	4270.1	1506.4	596.9	662.7	1024.6	1229.1	1158.6	1090.4	1236.2	1370.1
77.5°	2676.8	674.5	357.2	460.6	672.1	965.9	794.3	843.7	963.5	1088.1
80°	1490.0	260.9	199.8	305.5	366.6	702.7	439.5	542.9	709.7	799.0
82.5°	324.3	32.9	89.3	131.6	143.4	408.9	232.7	314.9	446.5	439.5
85°	0.0	0.0	16.5	18.8	9.4	176.3	84.6	103.4	145.7	136.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
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°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
4249.0	2.5°	4230.2	4115.0	4030.4	3988.1	3952.9	3985.8	4004.6	4004.6	4084.5	4131.5
3915.3	5°	3833.0	3626.2	3468.7	3363.0	3299.5	3320.7	3344.2	3370.0	3471.1	3539.2
3717.9	7.5°	3558.0	3240.8	3001.1	2853.0	2775.5	2787.2	2803.7	2824.8	2923.5	2991.7
3746.1	10°	3506.3	3050.4	2712.0	2517.0	2423.0	2406.5	2397.1	2390.0	2448.8	2500.5
4065.7	12.5°	3717.9	3059.8	2587.5	2350.1	2234.9	2185.6	2129.2	2084.5	2093.9	2126.8
4549.8	15°	4096.2	3179.7	2547.5	2263.1	2119.8	2037.5	1971.7	1917.7	1905.9	1917.7
4972.8	17.5°	4528.6	3341.8	2542.8	2187.9	2009.3	1924.7	1870.7	1821.3	1804.9	1807.2
5210.2	20°	4815.4	3471.1	2528.7	2103.3	1903.6	1828.4	1781.4	1732.0	1715.6	1720.3
5144.4	22.5°	4843.6	3539.2	2507.6	2009.3	1797.8	1734.4	1687.4	1642.7	1640.4	1640.4
4897.6	25°	4690.8	3539.2	2462.9	1924.7	1696.8	1640.4	1598.1	1544.0	1553.4	1558.1
4617.9	27.5°	4453.4	3454.6	2378.3	1856.6	1609.8	1551.1	1508.8	1459.4	1471.2	1478.2
4357.1	30°	4218.4	3346.5	2277.2	1779.0	1527.6	1459.4	1428.9	1386.6	1391.3	1400.7
4098.6	32.5°	3999.9	3231.4	2157.4	1715.6	1445.3	1377.2	1353.7	1306.7	1313.7	1323.1
3844.8	35°	3783.7	3104.5	2016.4	1640.4	1370.1	1302.0	1283.2	1229.1	1233.8	1247.9
3591.0	37.5°	3551.0	2970.5	1901.2	1565.2	1297.3	1226.8	1208.0	1151.5	1156.2	1172.7
3327.7	40°	3306.6	2838.9	1788.4	1485.3	1219.7	1149.2	1132.7	1071.6	1076.3	1095.1
3069.2	42.5°	3059.8	2695.6	1701.5	1381.9	1139.8	1064.6	1048.1	991.7	998.8	1019.9
2843.6	45°	2831.9	2524.0	1645.1	1266.7	1064.6	980.0	963.5	911.8	925.9	949.4
2653.3	47.5°	2636.8	2347.7	1621.6	1170.3	984.7	893.0	878.9	836.6	860.1	886.0
2491.1	50°	2470.0	2178.5	1591.0	1071.6	909.5	817.8	803.7	775.5	806.1	831.9
2380.6	52.5°	2350.1	1985.8	1525.2	982.3	843.7	754.4	749.7	735.6	763.8	787.3
2298.4	55°	2246.7	1786.1	1419.5	904.8	784.9	700.3	705.0	698.0	721.5	740.3
2249.0	57.5°	2152.7	1612.2	1285.5	843.7	721.5	653.3	667.4	658.0	669.8	681.5
2197.3	60°	2039.9	1435.9	1125.7	775.5	646.3	606.3	622.8	596.9	594.6	599.3
2103.3	62.5°	1873.0	1198.6	958.8	690.9	580.5	554.6	561.7	512.3	474.7	474.7
1964.7	65°	1640.4	963.5	803.7	596.9	505.3	484.1	479.4	408.9	357.2	352.5
1814.3	67.5°	1370.1	792.0	667.4	502.9	420.7	406.6	411.3	359.6	307.9	303.2
1663.9	70°	1116.3	655.7	538.2	401.9	324.3	338.4	359.6	307.9	258.5	251.5
1487.6	72.5°	907.1	521.7	420.7	307.9	239.7	279.7	305.5	251.5	204.5	199.8
1269.1	75°	700.3	383.1	300.8	209.2	173.9	216.2	239.7	183.3	145.7	138.7
982.3	77.5°	467.7	237.4	169.2	131.6	103.4	148.1	159.8	96.4	84.6	82.3
714.4	80°	284.4	110.5	72.9	63.5	35.3	54.1	63.5	40.0	44.7	47.0
380.7	82.5°	143.4	30.6	11.8	2.4	0.0	0.0	18.8	9.4	18.8	23.5
103.4	85°	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	11.8
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°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
4150.3	2.5°	4281.9	4380.6	4474.6	4625.0	4780.1	4932.9	5088.0	5238.4	5292.4	5332.4
3583.9	5°	3788.4	3974.0	4190.2	4488.7	4808.3	5137.3	5471.0	5776.5	5915.2	6009.2
3050.4	7.5°	3278.4	3520.4	3830.7	4279.5	4780.1	5304.2	5828.2	6310.0	6533.3	6714.2
2547.5	10°	2773.1	3036.3	3428.8	3941.1	4617.9	5370.0	6093.8	6756.5	7045.6	7273.6
2185.6	12.5°	2328.9	2575.7	2987.0	3553.3	4364.1	5318.3	6246.6	7043.2	7384.0	7640.2
1927.1	15°	2016.4	2190.3	2554.6	3165.6	4063.3	5151.4	6256.0	7179.6	7553.2	7821.1
1819.0	17.5°	1842.5	1901.2	2138.6	2770.8	3729.6	4932.9	6169.0	7226.6	7626.1	7875.2
1722.6	20°	1748.5	1757.9	1823.7	2258.4	3301.9	4728.4	6086.8	7273.6	7694.2	7903.4
1654.5	22.5°	1673.3	1673.3	1689.7	1847.2	2749.6	4484.0	6060.9	7355.8	7788.2	7917.5
1576.9	25°	1605.1	1605.1	1609.8	1652.1	2178.5	4110.3	6044.5	7482.7	7917.5	7952.7
1499.4	27.5°	1534.6	1537.0	1537.0	1560.5	1755.5	3602.7	5973.9	7647.2	8072.6	7999.7
1424.2	30°	1464.1	1468.8	1468.8	1485.3	1553.4	3008.1	5835.3	7844.6	8274.7	8060.8
1349.0	32.5°	1393.6	1398.3	1398.3	1412.4	1461.8	2401.8	5661.4	8025.6	8479.2	8086.7
1276.1	35°	1320.8	1327.8	1323.1	1341.9	1393.6	1910.6	5440.5	8206.5	8700.1	8168.9
1205.6	37.5°	1247.9	1252.6	1250.3	1269.1	1327.8	1649.8	5184.3	8342.8	9000.9	8352.2
1130.4	40°	1175.0	1172.7	1172.7	1193.8	1257.3	1574.6	4862.4	8559.1	9433.3	8674.2
1055.2	42.5°	1099.8	1099.8	1095.1	1118.6	1196.2	1518.2	4554.5	8946.8	10063.1	9186.5
984.7	45°	1031.7	1029.3	1019.9	1041.1	1137.4	1419.5	4446.4	9670.7	10993.8	10016.1
914.2	47.5°	965.9	963.5	940.0	958.8	1066.9	1330.2	4850.6	10855.1	12284.0	11235.8
857.8	50°	907.1	909.5	864.8	881.3	996.4	1262.0	5727.2	12392.1	13997.2	12878.5
810.8	52.5°	853.1	853.1	794.3	803.7	909.5	1200.9	6561.5	14058.3	16258.0	15169.9
761.4	55°	799.0	794.3	728.5	733.2	822.5	1113.9	6686.0	15684.6	19341.3	18617.5
707.4	57.5°	737.9	728.5	667.4	667.4	742.6	1050.5	5795.3	16934.8	23167.3	23684.3
606.3	60°	662.7	655.7	615.7	604.0	679.2	1106.9	4089.2	17080.5	25634.9	30422.0
481.8	62.5°	566.4	575.8	554.6	538.2	618.1	1149.2	2423.0	15907.8	25037.9	32565.3
373.7	65°	446.5	484.1	479.4	467.7	679.2	968.2	1431.2	13656.4	23207.2	30835.6
326.7	67.5°	380.7	406.6	399.5	399.5	712.1	735.6	900.1	10669.4	20687.9	28784.0
272.6	70°	324.3	350.2	324.3	324.3	538.2	446.5	622.8	7449.8	17968.9	26513.8
218.6	72.5°	267.9	293.8	265.6	246.8	430.1	333.7	455.9	4655.5	15388.4	24149.6
155.1	75°	204.5	235.0	213.9	190.4	284.4	249.1	345.5	2705.0	12749.3	20662.1
94.0	77.5°	129.3	169.2	159.8	134.0	209.2	181.0	249.1	1609.8	9837.5	16145.2
56.4	80°	79.9	87.0	89.3	84.6	119.9	122.2	169.2	916.5	6733.0	11252.3
35.3	82.5°	51.7	51.7	40.0	44.7	58.8	70.5	96.4	345.5	3957.6	6850.5
21.2	85°	37.6	32.9	21.2	21.2	28.2	35.3	37.6	105.8	1605.1	2705.0
9.4	87.5°	18.8	16.5	7.1	9.4	14.1	11.8	9.4	4.7	404.2	864.8
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-SB5D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4723.7	0°	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7	4723.7
5421.7	2.5°	5468.7	5541.5	5546.2	5546.2	5482.8	5480.4	5351.2	5337.1
6220.7	5°	6439.3	6486.3	6498.0	6474.5	6347.6	6253.6	6002.2	5948.1
7036.2	7.5°	7327.6	7421.6	7421.6	7365.2	7158.4	6965.7	6601.4	6465.1
7710.7	10°	8037.3	8145.4	8121.9	8006.8	7745.9	7480.4	7038.5	6859.9
8119.6	12.5°	8382.8	8493.3	8432.2	8300.5	8046.7	7767.1	7301.8	7099.6
8237.1	15°	8375.8	8345.2	8281.7	8265.3	8143.1	7931.6	7496.8	7275.9
8164.2	17.5°	8077.3	7818.8	7769.4	7933.9	8089.0	8037.3	7666.0	7459.2
7990.3	20°	7604.9	7153.7	7109.0	7424.0	7865.8	8091.4	7823.5	7633.1
7738.9	22.5°	7106.7	6620.2	6516.8	6864.6	7529.7	8107.8	8023.2	7832.9
7461.6	25°	6634.3	6145.5	6042.1	6366.4	7156.0	8079.6	8239.4	8077.3
7196.0	27.5°	6239.5	5767.1	5670.8	5995.1	6796.5	7999.7	8455.7	8340.5
6932.8	30°	5934.0	5496.9	5426.4	5738.9	6486.3	7901.0	8730.6	8667.2
6688.4	32.5°	5755.4	5435.8	5461.6	5717.8	6319.4	7792.9	8993.8	9024.4
6568.5	35°	5931.6	5945.7	6171.4	6277.1	6474.5	7776.5	9351.0	9470.9
6711.9	37.5°	6808.2	7297.1	7764.7	7677.8	7233.6	7966.8	9884.5	10107.8
7337.0	40°	8300.5	9304.0	10063.1	9731.8	8613.1	8549.7	10653.0	10986.7
8446.3	42.5°	10124.2	11825.7	13075.9	12187.6	10392.1	9569.6	11750.5	12175.9
9788.2	45°	12049.0	14934.9	16904.3	15057.1	12288.7	10998.5	13412.0	13745.7
11045.5	47.5°	14077.1	18713.8	21261.3	18239.1	14046.5	12624.7	15677.5	15755.1
12237.0	50°	16295.6	22857.1	25703.0	21418.8	15743.3	14488.4	18445.9	18356.6
13625.9	52.5°	18408.3	27117.8	30050.7	24612.6	17233.3	16800.9	21658.5	21475.2
15524.7	55°	20424.7	31376.2	34424.2	27681.8	18638.6	19856.0	25475.1	24365.8
18262.6	57.5°	22763.1	35204.5	38931.7	30765.1	20603.3	23822.9	29742.8	26043.8
23505.7	60°	26220.0	39554.5	44029.1	34990.6	24340.0	27992.0	31272.8	25724.2
29785.1	62.5°	30633.5	43554.4	47735.2	39131.5	28093.1	28777.0	29019.0	23261.3
28504.3	65°	31491.3	44567.3	47944.4	40238.4	27609.0	24410.5	23691.3	18697.4
25461.0	67.5°	29216.4	42736.5	45020.8	38177.3	24422.2	18864.2	17778.5	13564.8
23463.4	70°	26664.2	39246.6	39925.8	34673.3	21479.9	13875.0	12006.7	8704.8
22095.6	72.5°	24048.6	34591.1	33185.7	30111.8	18878.3	10103.1	8660.1	6187.8
20147.4	75°	20941.7	28469.1	26140.1	25019.1	15630.5	7929.2	6265.4	4270.1
17329.6	77.5°	16770.3	20039.3	19416.5	19393.0	11745.8	5793.0	4180.8	2676.8
13538.9	80°	11830.4	13005.4	12688.2	14605.9	7879.9	4202.0	2517.0	1490.0
9423.9	82.5°	5727.2	7191.3	7381.7	8697.7	3833.0	2472.3	580.5	324.3
3685.0	85°	2242.0	3468.7	2925.9	3301.9	1076.3	688.6	14.1	0.0
606.3	87.5°	251.5	401.9	369.0	291.4	131.6	28.2	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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