

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: P951876

Luminaire Tested: **GALN-SB5D-927-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951876  
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-927-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

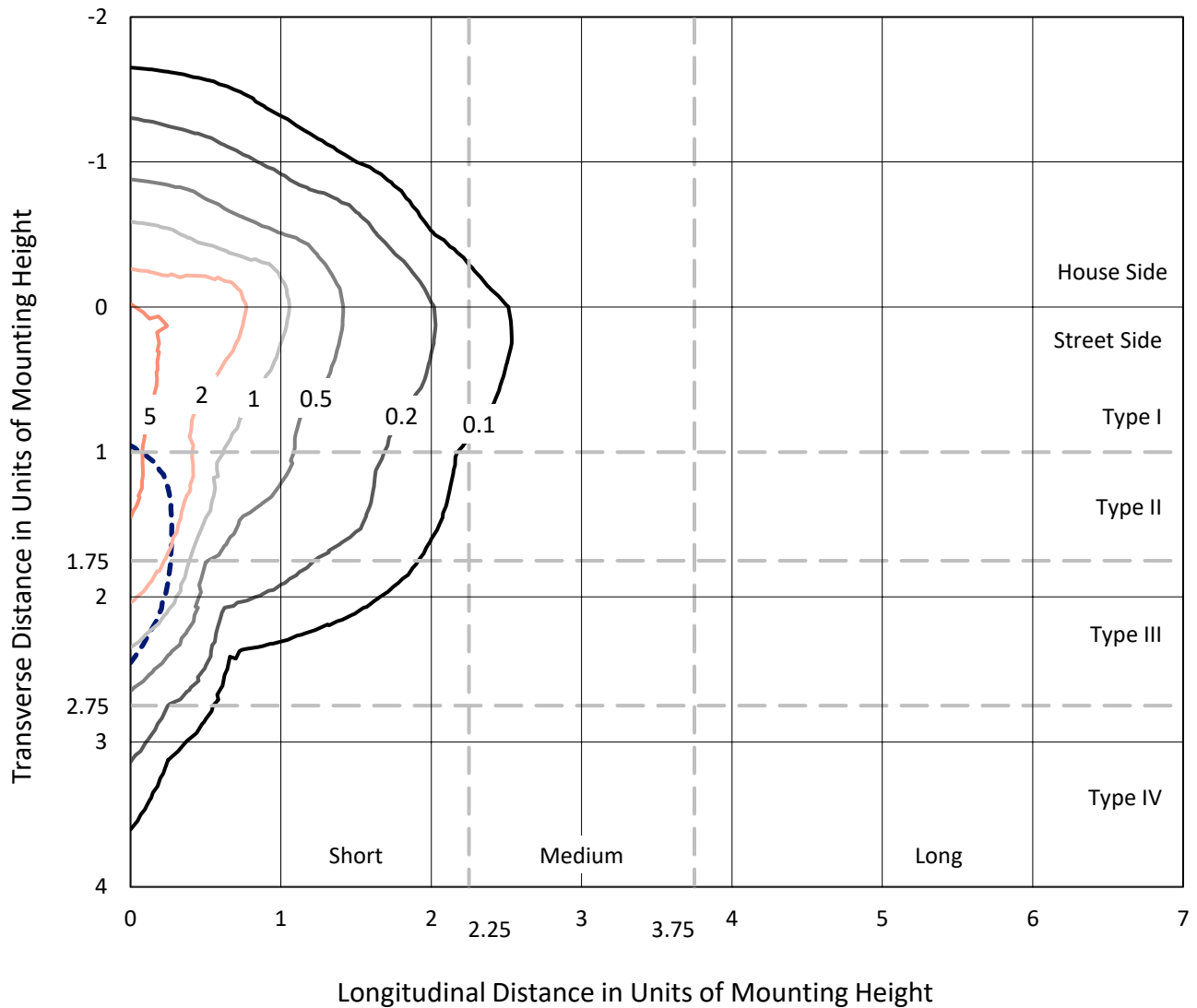
Lumens per Lamp: N/A  
Luminaire Lumens: 23880 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

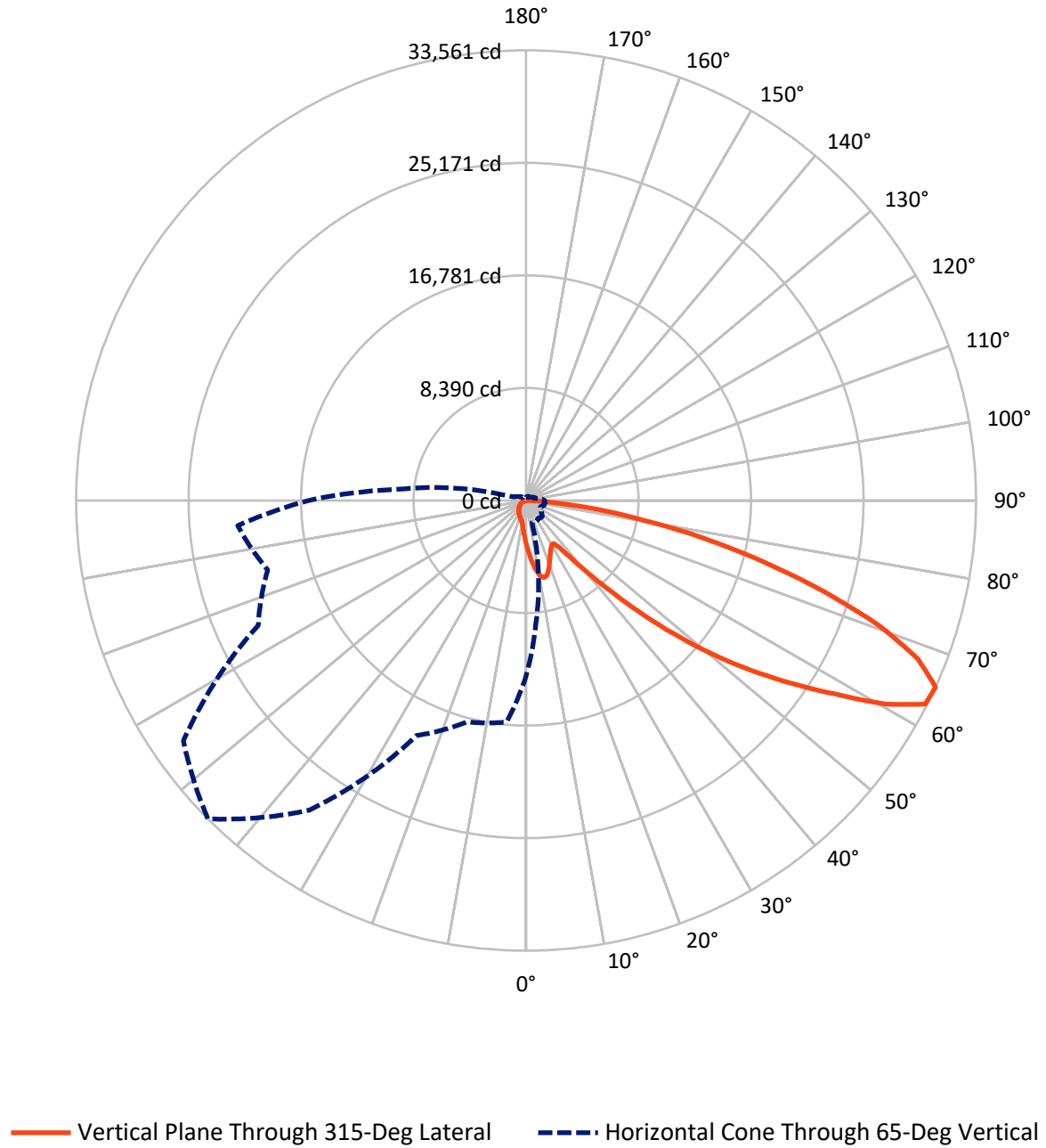
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3344.2	0.0	3344.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	20535.8	0.0	20535.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	23880.0	0.0	23880.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	1.4
10°-20°	975.9	4.1
20°-30°	1437.7	6.0
30°-40°	1847.0	7.7
40°-50°	2987.2	12.5
50°-60°	5238.4	21.9
60°-70°	6554.6	27.4
70°-80°	3830.2	16.0
80°-90°	683.4	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°	23880.0	100.0
0°-180°	23880.0	100.0

**Coefficient of Utilization**



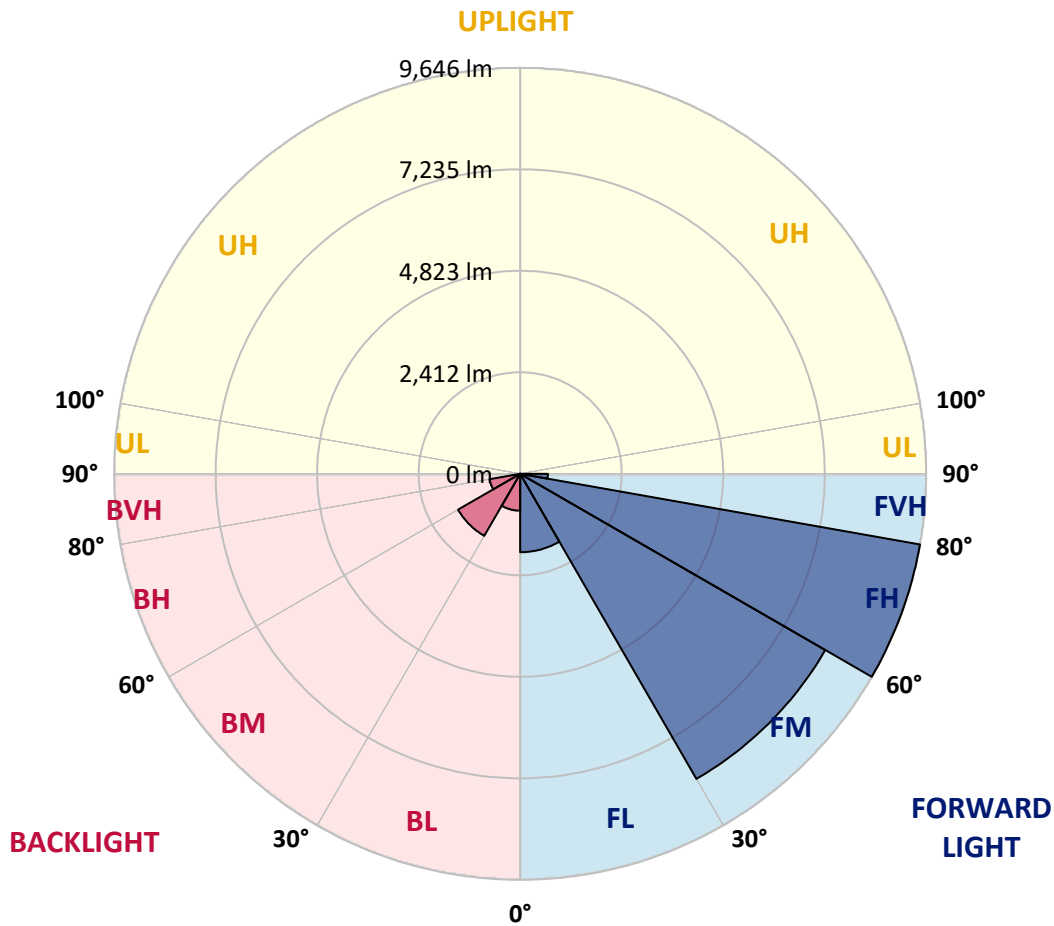
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.6	7.8			
FM (30°-60°)	8369.7	35.0			
FH (60°-80°)	9646.4	40.4			G4/12000
FVH (80°-90°)	657.1	2.8			G4/750
BL (0°-30°)	876.6	3.7	B2/1000		
BM (30°-60°)	1703.0	7.1	B2/2500		
BH (60°-80°)	738.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	26.3	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2.5°	3736.0	3671.8	3634.0	3540.2	3446.4	3370.8	3268.8	3201.3	3120.7	3043.4
5°	4163.7	4060.1	3935.0	3763.9	3607.7	3448.1	3293.5	3140.5	2979.2	2831.2
7.5°	4525.6	4375.9	4155.5	3928.5	3729.4	3536.9	3356.0	3153.6	2957.9	2725.9
10°	4802.0	4611.2	4321.6	4023.9	3795.2	3601.1	3425.1	3254.0	3056.6	2776.9
12.5°	4969.8	4765.8	4422.0	4073.2	3811.7	3594.5	3458.0	3382.3	3305.0	3027.0
15°	5093.2	4872.7	4492.7	4107.8	3773.8	3507.3	3407.0	3482.6	3571.5	3393.8
17.5°	5221.5	4989.5	4584.8	4122.6	3671.8	3337.9	3295.1	3490.9	3696.5	3688.3
20°	5343.2	5112.9	4665.5	4112.7	3507.3	3132.2	3170.1	3420.1	3658.7	3759.0
22.5°	5483.1	5239.6	4742.8	4074.9	3293.5	2939.8	3058.2	3308.3	3517.2	3635.6
25°	5654.1	5399.2	4851.3	4018.9	3063.1	2780.2	2944.7	3178.3	3347.7	3430.0
27.5°	5838.4	5590.0	4996.1	3989.3	2877.2	2666.7	2816.4	3023.7	3175.0	3232.6
30°	6067.1	5812.1	5167.2	3956.4	2755.5	2600.9	2683.1	2844.3	2992.4	3050.0
32.5°	6317.1	6058.8	5331.7	3877.5	2681.5	2551.5	2553.2	2655.2	2790.1	2859.2
35°	6629.7	6355.0	5507.7	3704.7	2622.3	2493.9	2426.5	2475.8	2587.7	2670.0
37.5°	7075.5	6743.2	5723.2	3458.0	2535.1	2405.1	2293.2	2304.8	2390.3	2480.8
40°	7690.8	7264.7	5976.6	3201.3	2410.0	2280.1	2146.8	2141.9	2204.4	2293.2
42.5°	8523.2	7954.0	6280.9	2956.2	2290.0	2128.7	1992.2	1984.0	2033.3	2110.6
45°	9622.1	8835.7	6654.4	2745.6	2196.2	1980.7	1845.8	1842.5	1883.6	1951.1
47.5°	11028.6	10061.3	7027.8	2602.5	2146.8	1863.9	1725.7	1732.3	1768.5	1829.3
50°	12849.7	11658.7	7141.3	2530.1	2146.8	1801.4	1618.8	1651.7	1681.3	1727.3
52.5°	15032.8	13191.9	6766.2	2464.3	2160.0	1809.6	1528.3	1599.0	1620.4	1659.9
55°	17056.2	13943.7	5817.0	2373.9	2163.3	1860.6	1451.0	1556.2	1595.7	1610.5
57.5°	18230.8	13685.4	4703.3	2220.9	2150.1	1895.1	1401.6	1503.6	1579.3	1589.1
60°	18007.1	12779.0	3462.9	2104.1	2053.1	1882.0	1386.8	1423.0	1543.1	1557.9
62.5°	16283.0	11258.9	2403.5	2013.6	1839.2	1824.4	1381.9	1296.3	1464.1	1500.3
65°	13088.3	8863.7	1697.7	1733.9	1612.2	1699.4	1355.5	1164.7	1368.7	1418.1
67.5°	9495.4	5998.0	1225.6	1404.9	1460.8	1497.0	1296.3	1069.3	1260.1	1325.9
70°	6093.4	3239.2	860.4	927.8	1230.5	1271.6	1194.3	983.8	1149.9	1225.6
72.5°	4331.5	1913.2	618.6	649.8	988.7	1059.4	1051.2	888.3	1021.6	1113.7
75°	2989.1	1054.5	417.9	463.9	717.3	860.4	811.0	763.3	865.3	959.1
77.5°	1873.7	472.1	250.1	322.4	470.5	676.1	556.0	590.6	674.5	761.7
80°	1043.0	182.6	139.8	213.9	256.6	491.9	307.6	380.0	496.8	559.3
82.5°	227.0	23.0	62.5	92.1	100.4	286.2	162.9	220.4	312.6	307.6
85°	0.0	0.0	11.5	13.2	6.6	123.4	59.2	72.4	102.0	95.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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°
3306.6	0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2974.3	2.5°	2961.1	2880.5	2821.3	2791.7	2767.0	2790.1	2803.2	2803.2	2859.2	2892.1
2740.7	5°	2683.1	2538.4	2428.1	2354.1	2309.7	2324.5	2341.0	2359.0	2429.8	2477.5
2602.5	7.5°	2490.7	2268.6	2100.8	1997.1	1942.8	1951.1	1962.6	1977.4	2046.5	2094.2
2622.3	10°	2454.5	2135.3	1898.4	1761.9	1696.1	1684.6	1678.0	1673.0	1714.2	1750.4
2846.0	12.5°	2602.5	2141.9	1811.2	1645.1	1564.5	1529.9	1490.4	1459.2	1465.8	1488.8
3184.9	15°	2867.4	2225.8	1783.3	1584.2	1483.9	1426.3	1380.2	1342.4	1334.2	1342.4
3481.0	17.5°	3170.1	2339.3	1780.0	1531.6	1406.5	1347.3	1309.5	1274.9	1263.4	1265.1
3647.1	20°	3370.8	2429.8	1770.1	1472.3	1332.5	1279.9	1247.0	1212.4	1200.9	1204.2
3601.1	22.5°	3390.5	2477.5	1755.3	1406.5	1258.5	1214.1	1181.2	1149.9	1148.3	1148.3
3428.4	25°	3283.6	2477.5	1724.0	1347.3	1187.7	1148.3	1118.7	1080.8	1087.4	1090.7
3232.6	27.5°	3117.4	2418.3	1664.8	1299.6	1126.9	1085.8	1056.1	1021.6	1029.8	1034.8
3050.0	30°	2952.9	2342.6	1594.1	1245.3	1069.3	1021.6	1000.2	970.6	973.9	980.5
2869.0	32.5°	2799.9	2262.0	1510.2	1200.9	1011.7	964.0	947.6	914.7	919.6	926.2
2691.4	35°	2648.6	2173.2	1411.5	1148.3	959.1	911.4	898.2	860.4	863.7	873.5
2513.7	37.5°	2485.7	2079.4	1330.9	1095.6	908.1	858.7	845.6	806.1	809.4	820.9
2329.4	40°	2314.6	1987.3	1251.9	1039.7	853.8	804.4	792.9	750.2	753.4	766.6
2148.5	42.5°	2141.9	1886.9	1191.0	967.3	797.9	745.2	733.7	694.2	699.2	714.0
1990.5	45°	1982.3	1766.8	1151.6	886.7	745.2	686.0	674.5	638.3	648.2	664.6
1857.3	47.5°	1845.8	1643.4	1135.1	819.3	689.3	625.1	615.3	585.6	602.1	620.2
1743.8	50°	1729.0	1525.0	1113.7	750.2	636.6	572.5	562.6	542.9	564.3	582.4
1666.5	52.5°	1645.1	1390.1	1067.7	687.6	590.6	528.1	524.8	514.9	534.7	551.1
1608.9	55°	1572.7	1250.3	993.6	633.4	549.5	490.2	493.5	488.6	505.0	518.2
1574.3	57.5°	1506.9	1128.5	899.9	590.6	505.0	457.3	467.2	460.6	468.8	477.1
1538.2	60°	1427.9	1005.1	788.0	542.9	452.4	424.4	435.9	417.9	416.2	419.5
1472.3	62.5°	1311.1	839.0	671.2	483.7	406.3	388.2	393.2	358.6	332.3	332.3
1375.3	65°	1148.3	674.5	562.6	417.9	353.7	338.9	335.6	286.2	250.1	246.8
1270.0	67.5°	959.1	554.4	467.2	352.0	294.5	284.6	287.9	251.7	215.5	212.2
1164.7	70°	781.4	459.0	376.7	281.3	227.0	236.9	251.7	215.5	181.0	176.0
1041.3	72.5°	635.0	365.2	294.5	215.5	167.8	195.8	213.9	176.0	143.1	139.8
888.3	75°	490.2	268.1	210.6	146.4	121.7	151.3	167.8	128.3	102.0	97.1
687.6	77.5°	327.4	166.2	118.4	92.1	72.4	103.6	111.9	67.4	59.2	57.6
500.1	80°	199.1	77.3	51.0	44.4	24.7	37.8	44.4	28.0	31.3	32.9
266.5	82.5°	100.4	21.4	8.2	1.6	0.0	0.0	13.2	6.6	13.2	16.5
72.4	85°	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	8.2
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°
3306.6	0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
2905.2	2.5°	2997.3	3066.4	3132.2	3237.5	3346.1	3453.0	3561.6	3666.9	3704.7	3732.7
2508.8	5°	2651.9	2781.8	2933.2	3142.1	3365.8	3596.2	3829.8	4043.6	4140.7	4206.5
2135.3	7.5°	2294.9	2464.3	2681.5	2995.7	3346.1	3713.0	4079.8	4417.0	4573.3	4700.0
1783.3	10°	1941.2	2125.4	2400.2	2758.8	3232.6	3759.0	4265.7	4729.6	4932.0	5091.5
1529.9	12.5°	1630.3	1803.0	2090.9	2487.4	3054.9	3722.8	4372.6	4930.3	5168.8	5348.2
1349.0	15°	1411.5	1533.2	1788.2	2215.9	2844.3	3606.0	4379.2	5025.7	5287.3	5474.8
1273.3	17.5°	1289.7	1330.9	1497.0	1939.6	2610.7	3453.0	4318.3	5058.6	5338.3	5512.7
1205.8	20°	1223.9	1230.5	1276.6	1580.9	2311.3	3309.9	4260.8	5091.5	5386.0	5532.4
1158.1	22.5°	1171.3	1171.3	1182.8	1293.0	1924.7	3138.8	4242.7	5149.1	5451.8	5542.3
1103.9	25°	1123.6	1123.6	1126.9	1156.5	1525.0	2877.2	4231.2	5237.9	5542.3	5567.0
1049.6	27.5°	1074.2	1075.9	1075.9	1092.3	1228.9	2521.9	4181.8	5353.1	5650.9	5599.9
996.9	30°	1024.9	1028.2	1028.2	1039.7	1087.4	2105.7	4084.7	5491.3	5792.3	5642.6
944.3	32.5°	975.5	978.8	978.8	988.7	1023.2	1681.3	3963.0	5618.0	5935.5	5660.7
893.3	35°	924.5	929.5	926.2	939.3	975.5	1337.5	3808.4	5744.6	6090.1	5718.3
843.9	37.5°	873.5	876.8	875.2	888.3	929.5	1154.8	3629.1	5840.0	6300.7	5846.6
791.3	40°	822.5	820.9	820.9	835.7	880.1	1102.2	3403.7	5991.4	6603.4	6072.0
738.6	42.5°	769.9	769.9	766.6	783.1	837.3	1062.7	3188.2	6262.8	7044.2	6430.6
689.3	45°	722.2	720.5	714.0	728.8	796.2	993.6	3112.5	6769.5	7695.7	7011.3
639.9	47.5°	676.1	674.5	658.0	671.2	746.9	931.1	3395.5	7598.6	8598.8	7865.1
600.5	50°	635.0	636.6	605.4	616.9	697.5	883.4	4009.1	8674.5	9798.1	9015.1
567.6	52.5°	597.2	597.2	556.0	562.6	636.6	840.6	4593.1	9840.9	11380.7	10619.0
533.0	55°	559.3	556.0	510.0	513.3	575.8	779.8	4680.3	10979.3	13539.0	13032.3
495.2	57.5°	516.6	510.0	467.2	467.2	519.8	735.4	4056.8	11854.5	16217.2	16579.1
424.4	60°	463.9	459.0	431.0	422.8	475.4	774.8	2862.4	11956.5	17944.6	21295.6
337.2	62.5°	396.5	403.0	388.2	376.7	432.7	804.4	1696.1	11135.6	17526.7	22795.9
261.6	65°	312.6	338.9	335.6	327.4	475.4	677.8	1001.9	9559.6	16245.2	21585.1
228.7	67.5°	266.5	284.6	279.7	279.7	498.5	514.9	630.1	7468.7	14481.7	20149.0
190.8	70°	227.0	245.1	227.0	227.0	376.7	312.6	435.9	5214.9	12578.3	18559.8
153.0	72.5°	187.5	205.6	185.9	172.7	301.1	233.6	319.1	3258.9	10772.0	16904.9
108.6	75°	143.1	164.5	149.7	133.3	199.1	174.4	241.8	1893.5	8924.6	14463.6
65.8	77.5°	90.5	118.4	111.9	93.8	146.4	126.7	174.4	1126.9	6886.3	11301.7
39.5	80°	55.9	60.9	62.5	59.2	83.9	85.5	118.4	641.6	4713.2	7876.7
24.7	82.5°	36.2	36.2	28.0	31.3	41.1	49.4	67.4	241.8	2770.3	4795.4
14.8	85°	26.3	23.0	14.8	14.8	19.7	24.7	26.3	74.0	1123.6	1893.5
6.6	87.5°	13.2	11.5	4.9	6.6	9.9	8.2	6.6	3.3	283.0	605.4
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-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
3306.6	0°	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6	3306.6
3795.2	2.5°	3828.1	3879.1	3882.4	3882.4	3838.0	3836.3	3745.9	3736.0
4354.5	5°	4507.5	4540.4	4548.7	4532.2	4443.4	4377.6	4201.5	4163.7
4925.4	7.5°	5129.4	5195.2	5195.2	5155.7	5010.9	4876.0	4621.0	4525.6
5397.5	10°	5626.2	5701.9	5685.4	5604.8	5422.2	5236.3	4927.0	4802.0
5683.8	12.5°	5868.0	5945.3	5902.6	5810.4	5632.8	5437.0	5111.3	4969.8
5766.0	15°	5863.1	5841.7	5797.3	5785.8	5700.2	5552.2	5247.8	5093.2
5715.0	17.5°	5654.1	5473.2	5438.6	5553.8	5662.4	5626.2	5366.3	5221.5
5593.3	20°	5323.5	5007.6	4976.4	5196.8	5506.1	5664.0	5476.5	5343.2
5417.3	22.5°	4974.7	4634.2	4561.8	4805.3	5270.8	5675.5	5616.3	5483.1
5223.1	25°	4644.1	4301.9	4229.5	4456.5	5009.3	5655.8	5767.7	5654.1
5037.2	27.5°	4367.7	4037.0	3969.6	4196.6	4757.6	5599.9	5919.0	5838.4
4853.0	30°	4153.8	3847.8	3798.5	4017.3	4540.4	5530.8	6111.5	6067.1
4681.9	32.5°	4028.8	3805.1	3823.2	4002.5	4423.6	5455.1	6295.7	6317.1
4598.0	35°	4152.2	4162.1	4320.0	4394.0	4532.2	5443.6	6545.8	6629.7
4698.4	37.5°	4765.8	5108.0	5435.4	5374.5	5063.6	5576.8	6919.2	7075.5
5135.9	40°	5810.4	6512.9	7044.2	6812.3	6029.2	5984.8	7457.2	7690.8
5912.4	42.5°	7087.0	8278.1	9153.2	8531.4	7274.6	6698.8	8225.4	8523.2
6851.8	45°	8434.3	10454.5	11833.1	10540.0	8602.1	7699.0	9388.5	9622.1
7731.9	47.5°	9854.0	13099.8	14883.1	12767.5	9832.7	8837.4	10974.3	11028.6
8565.9	50°	11407.0	16000.1	17992.3	14993.3	11020.4	10141.9	12912.3	12849.7
9538.2	52.5°	12885.9	18982.6	21035.7	17228.9	12063.4	11760.7	15161.1	15032.8
10867.4	55°	14297.4	21963.5	24097.2	19377.4	13047.1	13899.3	17832.7	17056.2
12783.9	57.5°	15934.3	24643.3	27252.4	21535.8	14422.4	16676.2	20820.2	18230.8
16454.1	60°	18354.2	27688.4	30820.6	24493.6	17038.1	19594.6	21891.1	18007.1
20849.8	62.5°	21443.7	30488.3	33414.9	27392.3	19665.3	20144.0	20313.5	16283.0
19953.2	65°	22044.1	31197.3	33561.3	28167.1	19326.4	17087.5	16584.1	13088.3
17822.8	67.5°	20451.7	29915.8	31514.8	26724.4	17095.7	13205.1	12445.0	9495.4
16424.5	70°	18665.1	27472.9	27948.3	24271.5	15036.1	9712.6	8404.7	6093.4
15467.1	72.5°	16834.1	24214.0	23230.2	21078.4	13214.9	7072.2	6062.1	4331.5
14103.3	75°	14659.3	19928.5	18298.3	17513.5	10941.4	5550.5	4385.8	2989.1
12130.8	77.5°	11739.3	14027.6	13591.7	13575.2	8222.1	4055.1	2926.6	1873.7
9477.3	80°	8281.3	9103.9	8881.8	10224.2	5516.0	2941.4	1761.9	1043.0
6596.8	82.5°	4009.1	5034.0	5167.2	6088.5	2683.1	1730.6	406.3	227.0
2579.5	85°	1569.4	2428.1	2048.1	2311.3	753.4	482.0	9.9	0.0
424.4	87.5°	176.0	281.3	258.3	204.0	92.1	19.7	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)