

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: P949144

Luminaire Tested: **GALN-SB4A-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949144
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-SB4A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA 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: 12726 lumens
Efficiency: N/A
Efficacy: 111.6 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): 114
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



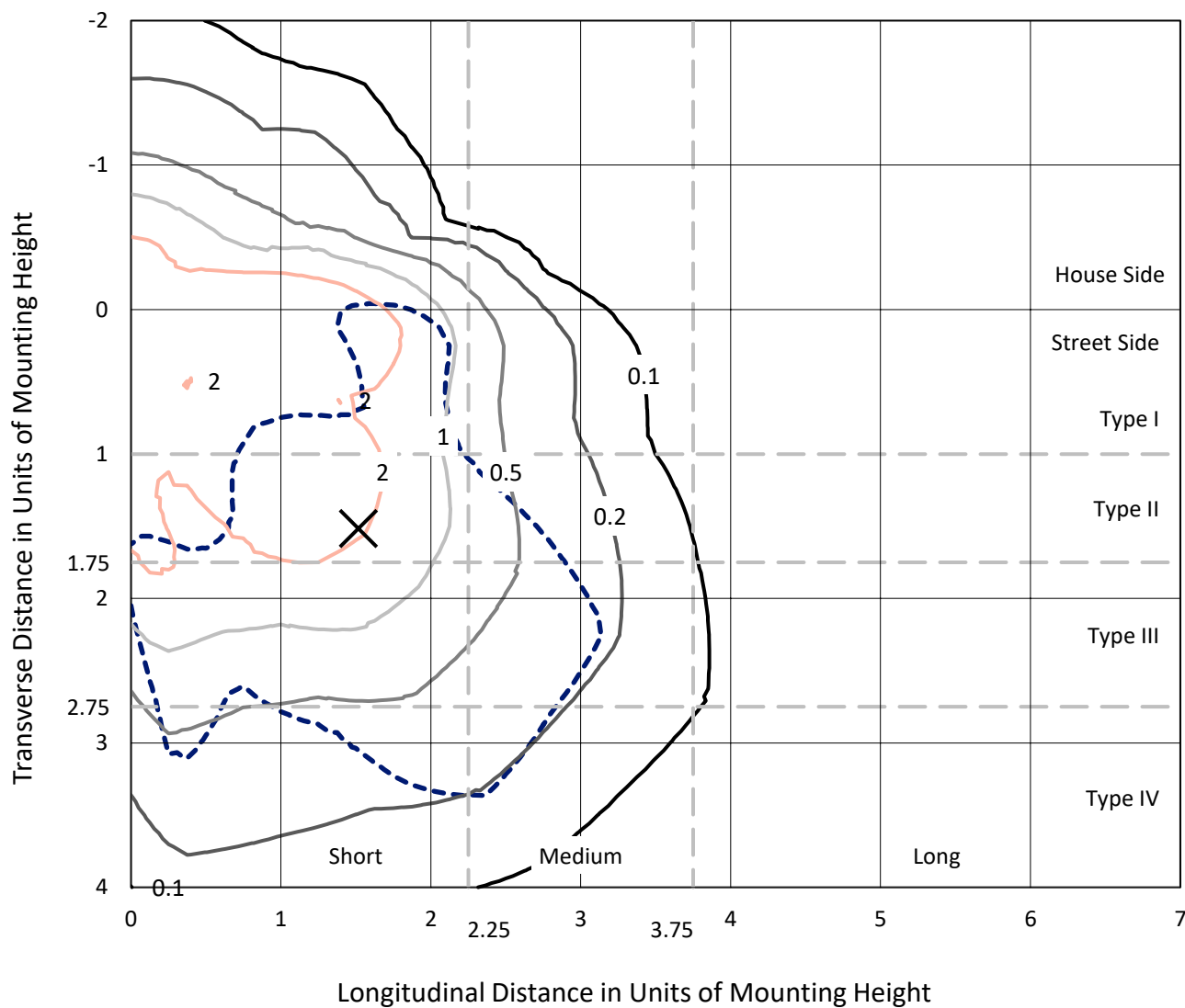
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

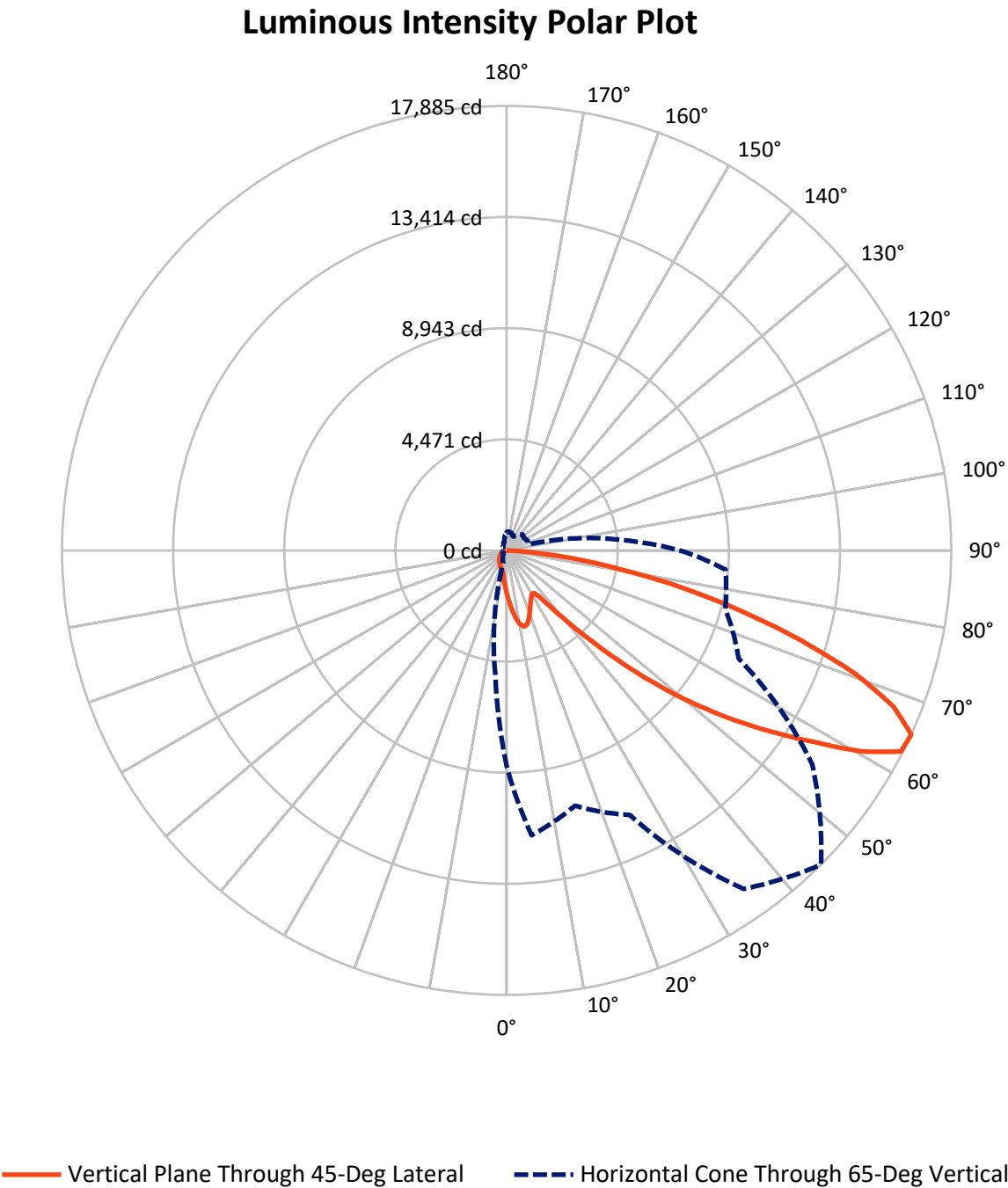
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2529.5	0.0	2529.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	10196.5	0.0	10196.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	12726.0	0.0	12726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.4
10°-20°	520.1	4.1
20°-30°	766.2	6.0
30°-40°	984.3	7.7
40°-50°	1591.9	12.5
50°-60°	2791.6	21.9
60°-70°	3493.1	27.4
70°-80°	2041.2	16.0
80°-90°	364.2	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°	12726.0	100.0
0°-180°	12726.0	100.0

Coefficient of Utilization



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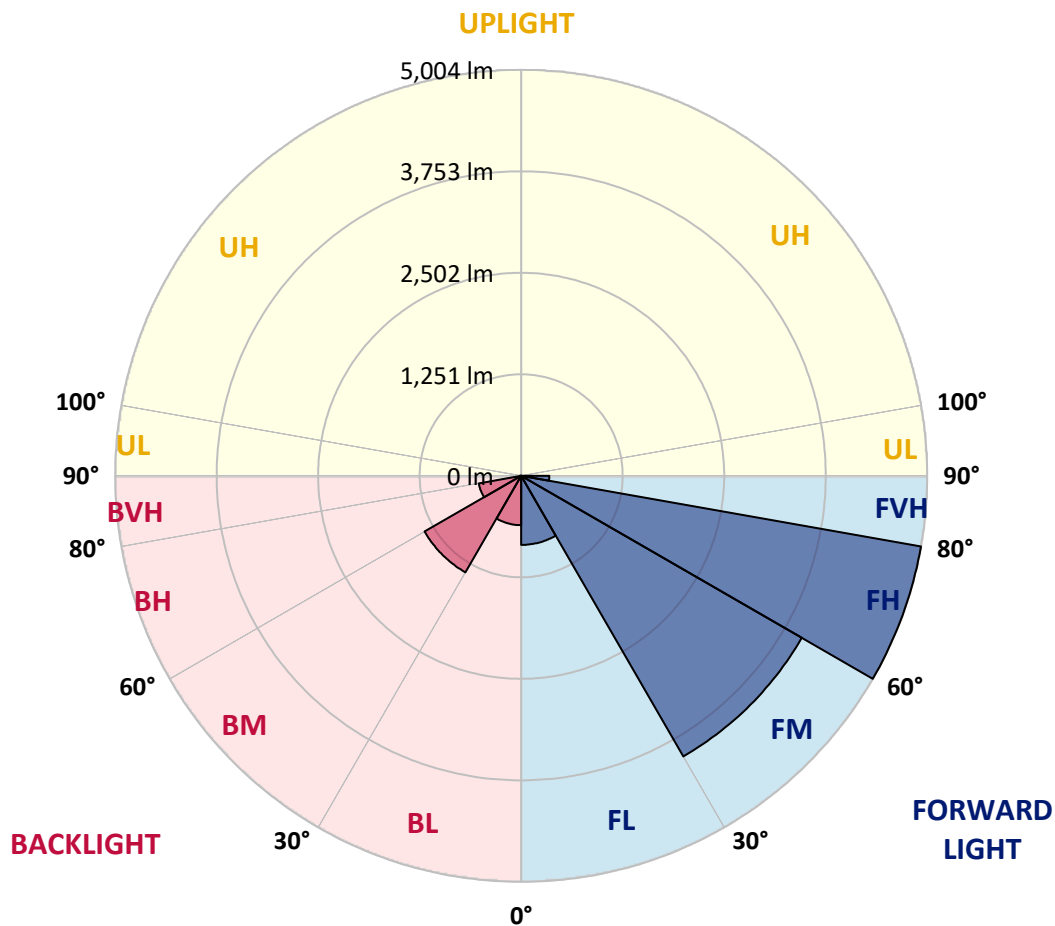
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.5	6.7			
FM	(30°-60°)	3993.6	31.4			
FH	(60°-80°)	5004.3	39.3			G3/7500
FVH	(80°-90°)	347.1	2.7			G3/500
BL	(0°-30°)	608.2	4.8	B2/1000		
BM	(30°-60°)	1374.3	10.8	B2/2500		
BH	(60°-80°)	530.0	4.2	B2/1000		G2/1000
BVH	(80°-90°)	17.1	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°	90°
0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1974.3	1989.2	2022.5	2040.1	2067.2	2069.0	2069.0	2045.3	2044.4	1996.2	1991.0
5°	2206.6	2241.7	2320.6	2402.1	2419.7	2424.0	2415.3	2367.9	2332.9	2239.1	2218.9
7.5°	2437.2	2504.7	2624.8	2733.5	2768.6	2768.6	2747.5	2670.4	2598.5	2462.6	2411.8
10°	2628.3	2713.4	2876.4	2998.3	3038.6	3029.8	2986.9	2889.6	2790.5	2625.7	2559.1
12.5°	2754.6	2850.1	3029.0	3127.1	3168.4	3145.6	3096.5	3001.8	2897.5	2723.9	2648.5
15°	2817.7	2917.6	3072.8	3124.5	3113.1	3089.5	3083.3	3037.7	2958.8	2796.6	2714.2
17.5°	2844.9	2937.8	3045.6	3013.2	2916.7	2898.3	2959.7	3017.6	2998.3	2859.8	2782.6
20°	2870.3	2948.3	2980.7	2837.0	2668.6	2652.0	2769.5	2934.3	3018.4	2918.5	2847.5
22.5°	2905.3	2953.6	2886.9	2651.1	2469.6	2431.1	2560.8	2808.9	3024.6	2993.0	2922.0
25°	2953.6	2966.7	2783.5	2474.9	2292.5	2254.0	2374.9	2669.5	3014.1	3073.7	3013.2
27.5°	3011.4	2984.2	2684.4	2327.6	2151.4	2115.4	2236.4	2535.4	2984.2	3154.3	3111.4
30°	3086.8	3007.0	2586.2	2213.6	2050.6	2024.3	2140.9	2419.7	2947.4	3256.9	3233.2
32.5°	3163.1	3016.7	2495.1	2147.0	2027.8	2037.4	2133.0	2357.4	2907.1	3355.1	3366.5
35°	3245.5	3047.4	2450.3	2212.8	2218.0	2302.2	2341.6	2415.3	2901.0	3488.3	3533.1
37.5°	3357.7	3115.8	2503.8	2539.8	2722.1	2896.6	2864.1	2698.4	2972.0	3687.4	3770.6
40°	3519.0	3235.9	2737.0	3096.5	3470.8	3754.0	3630.4	3213.1	3189.4	3974.0	4098.5
42.5°	3754.0	3427.0	3150.8	3776.8	4411.5	4877.9	4546.5	3876.7	3569.9	4383.4	4542.1
45°	4101.1	3736.4	3651.4	4494.8	5571.4	6306.0	5616.9	4584.2	4102.9	5003.3	5127.8
47.5°	4582.5	4191.4	4120.4	5251.4	6981.1	7931.4	6804.0	5240.0	4709.6	5848.4	5877.3
50°	5221.6	4804.3	4564.9	6079.0	8526.7	9588.3	7990.1	5872.9	5404.8	6881.1	6847.8
52.5°	6064.9	5659.0	5083.0	6867.1	10116.1	11210.2	9181.6	6428.8	6267.4	8079.6	8011.2
55°	7215.1	6945.1	5791.4	7619.3	11704.7	12841.7	10326.5	6953.0	7407.1	9503.3	9089.5
57.5°	8642.4	8835.3	6812.7	8491.6	13132.8	14523.2	11476.7	7685.9	8887.0	11095.4	9715.5
60°	9562.9	11348.7	8768.6	9781.2	14755.5	16424.8	13053.0	9079.9	10442.2	11666.1	9596.2
62.5°	9340.2	12148.3	11111.1	11427.6	16247.7	17807.3	14597.7	10479.9	10735.1	10825.3	8677.5
65°	8657.3	11503.0	10633.4	11747.6	16625.5	17885.3	15010.7	10299.3	9106.2	8837.9	6974.9
67.5°	7717.5	10737.7	9498.0	10899.0	15942.6	16794.7	14241.8	9110.5	7037.2	6632.1	5060.2
70°	6703.2	9890.8	8752.9	9946.9	14640.7	14894.1	12934.7	8012.9	5176.0	4479.0	3247.3
72.5°	5740.6	9008.9	8242.6	8971.2	12904.0	12379.7	11233.0	7042.4	3768.9	3230.6	2308.3
75°	4756.0	7707.8	7515.9	7812.2	10620.2	9751.4	9333.2	5830.9	2957.9	2337.3	1592.9
77.5°	3669.8	6022.8	6464.7	6256.0	7475.5	7243.2	7234.4	4381.7	2161.0	1559.6	998.5
80°	2511.7	4197.6	5050.6	4413.2	4851.6	4733.2	5448.6	2939.5	1567.5	938.9	555.8
82.5°	1476.3	2555.5	3515.5	2136.5	2682.7	2753.7	3244.6	1429.9	922.3	216.5	121.0
85°	598.8	1009.1	1374.6	836.4	1294.0	1091.5	1231.7	401.5	256.9	5.3	0.0
87.5°	150.8	322.6	226.2	93.8	149.9	137.6	108.7	49.1	10.5	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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1956.8	1936.6	1886.6	1836.7	1796.3	1742.0	1706.0	1663.1	1621.9	1585.1	1578.0
5°	2163.7	2097.0	2005.9	1922.6	1837.5	1755.1	1673.6	1587.7	1508.8	1460.6	1429.9
7.5°	2332.0	2214.5	2093.5	1987.5	1884.9	1788.4	1680.6	1576.3	1452.7	1386.9	1327.3
10°	2457.4	2303.1	2144.4	2022.5	1919.1	1825.3	1734.1	1628.9	1479.9	1397.4	1308.0
12.5°	2539.8	2356.5	2170.7	2031.3	1915.6	1842.8	1802.5	1761.3	1613.1	1516.7	1386.9
15°	2596.8	2394.2	2189.1	2011.1	1869.1	1815.6	1855.9	1903.3	1808.6	1697.3	1528.1
17.5°	2659.0	2443.3	2197.0	1956.8	1778.8	1756.0	1860.3	1969.9	1965.5	1855.1	1689.4
20°	2724.7	2486.3	2191.7	1869.1	1669.2	1689.4	1822.6	1949.8	2003.2	1943.6	1796.3
22.5°	2792.3	2527.5	2171.6	1755.1	1566.6	1629.8	1763.0	1874.4	1937.5	1919.1	1806.9
25°	2877.3	2585.4	2141.7	1632.4	1481.6	1569.3	1693.8	1784.1	1827.9	1827.0	1749.9
27.5°	2979.0	2662.5	2126.0	1533.3	1421.1	1500.9	1611.4	1692.0	1722.7	1722.7	1661.3
30°	3097.3	2753.7	2108.4	1468.5	1386.0	1429.9	1515.8	1594.7	1625.4	1625.4	1573.7
32.5°	3228.8	2841.3	2066.4	1429.0	1359.7	1360.6	1415.0	1486.9	1523.7	1528.9	1492.1
35°	3386.6	2935.2	1974.3	1397.4	1329.1	1293.1	1319.4	1379.0	1422.9	1434.3	1411.5
37.5°	3593.5	3050.0	1842.8	1351.0	1281.7	1222.1	1228.2	1273.8	1322.0	1339.6	1324.7
40°	3871.5	3185.0	1706.0	1284.3	1215.1	1144.1	1141.4	1174.8	1222.1	1241.4	1233.5
42.5°	4238.8	3347.2	1575.4	1220.4	1134.4	1061.7	1057.3	1083.6	1124.8	1145.0	1141.4
45°	4708.7	3546.2	1463.2	1170.4	1055.5	983.6	981.9	1003.8	1039.8	1060.8	1056.4
47.5°	5361.8	3745.2	1386.9	1144.1	993.3	919.6	923.2	942.4	974.9	989.8	983.6
50°	6213.1	3805.7	1348.3	1144.1	960.0	862.7	880.2	896.0	920.5	929.3	921.4
52.5°	7030.2	3605.8	1313.3	1151.1	964.4	814.4	852.1	863.5	884.6	888.1	876.7
55°	7430.8	3100.0	1265.1	1152.8	991.5	773.2	829.3	850.4	858.3	857.4	838.1
57.5°	7293.2	2506.5	1183.5	1145.8	1009.9	746.9	801.3	841.6	846.9	839.0	803.0
60°	6810.1	1845.4	1121.3	1094.1	1002.9	739.0	758.3	822.3	830.2	819.7	761.0
62.5°	6000.1	1280.8	1073.1	980.1	972.2	736.4	690.8	780.3	799.5	784.6	698.7
65°	4723.6	904.7	924.0	859.2	905.6	722.4	620.7	729.4	755.7	732.9	611.9
67.5°	3196.4	653.1	748.7	778.5	797.8	690.8	569.8	671.5	706.6	676.8	511.1
70°	1726.2	458.5	494.5	655.8	677.7	636.5	524.3	612.8	653.1	620.7	416.4
72.5°	1019.6	329.6	346.3	526.9	564.6	560.2	473.4	544.4	593.5	554.9	338.4
75°	562.0	222.7	247.2	382.2	458.5	432.2	406.8	461.1	511.1	473.4	261.3
77.5°	251.6	133.3	171.8	250.7	360.3	296.3	314.7	359.4	405.9	366.5	174.5
80°	97.3	74.5	114.0	136.8	262.1	163.9	202.5	264.8	298.1	266.5	106.1
82.5°	12.3	33.3	49.1	53.5	152.5	86.8	117.5	166.6	163.9	142.0	53.5
85°	0.0	6.1	7.0	3.5	65.8	31.6	38.6	54.4	50.8	38.6	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1535.1	1503.5	1487.7	1474.6	1486.9	1493.9	1493.9	1523.7	1541.2	1548.2	1597.3
5°	1352.7	1294.0	1254.5	1230.9	1238.8	1247.5	1257.2	1294.9	1320.3	1336.9	1413.2
7.5°	1209.0	1119.5	1064.3	1035.4	1039.8	1045.9	1053.8	1090.6	1116.0	1137.9	1223.0
10°	1137.9	1011.7	938.9	903.9	897.7	894.2	891.6	913.5	932.8	950.3	1034.5
12.5°	1141.4	965.2	876.7	833.7	815.3	794.3	777.6	781.1	793.4	815.3	868.8
15°	1186.2	950.3	844.3	790.8	760.1	735.5	715.4	711.0	715.4	718.9	752.2
17.5°	1246.7	948.6	816.2	749.6	718.0	697.8	679.4	673.3	674.2	678.6	687.3
20°	1294.9	943.3	784.6	710.1	682.1	664.5	646.1	640.0	641.7	642.6	652.3
22.5°	1320.3	935.4	749.6	670.7	647.0	629.5	612.8	611.9	611.9	617.2	624.2
25°	1320.3	918.8	718.0	633.0	611.9	596.1	576.0	579.5	581.2	588.3	598.8
27.5°	1288.7	887.2	692.6	600.5	578.6	562.8	544.4	548.8	551.4	559.3	572.5
30°	1248.4	849.5	663.7	569.8	544.4	533.0	517.2	519.0	522.5	531.3	546.2
32.5°	1205.4	804.8	640.0	539.2	513.7	505.0	487.4	490.1	493.6	503.2	519.9
35°	1158.1	752.2	611.9	511.1	485.7	478.7	458.5	460.3	465.5	476.0	492.7
37.5°	1108.1	709.2	583.9	483.9	457.6	450.6	429.6	431.3	437.5	449.7	465.5
40°	1059.0	667.2	554.1	455.0	428.7	422.6	399.8	401.5	408.5	421.7	438.3
42.5°	1005.6	634.7	515.5	425.2	397.1	391.0	370.0	372.6	380.5	393.6	410.3
45°	941.6	613.7	472.5	397.1	365.6	359.4	340.2	345.4	354.2	367.3	384.9
47.5°	875.8	604.9	436.6	367.3	333.1	327.9	312.1	320.9	330.5	341.0	360.3
50°	812.7	593.5	399.8	339.3	305.1	299.8	289.3	300.7	310.3	320.0	338.4
52.5°	740.8	569.0	366.5	314.7	281.4	279.7	274.4	284.9	293.7	302.5	318.2
55°	666.3	529.5	337.5	292.8	261.3	263.0	260.4	269.1	276.2	284.0	298.1
57.5°	601.4	479.5	314.7	269.1	243.7	249.0	245.5	249.9	254.2	263.9	275.3
60°	535.7	419.9	289.3	241.1	226.2	232.3	222.7	221.8	223.6	226.2	247.2
62.5°	447.1	357.7	257.7	216.5	206.9	209.5	191.1	177.1	177.1	179.7	211.3
65°	359.4	299.8	222.7	188.5	180.6	178.8	152.5	133.3	131.5	139.4	166.6
67.5°	295.4	249.0	187.6	156.9	151.7	153.4	134.1	114.8	113.1	121.9	142.0
70°	244.6	200.8	149.9	121.0	126.2	134.1	114.8	96.4	93.8	101.7	121.0
72.5°	194.6	156.9	114.8	89.4	104.3	114.0	93.8	76.3	74.5	81.5	99.9
75°	142.9	112.2	78.0	64.9	80.7	89.4	68.4	54.4	51.7	57.9	76.3
77.5°	88.5	63.1	49.1	38.6	55.2	59.6	35.9	31.6	30.7	35.1	48.2
80°	41.2	27.2	23.7	13.2	20.2	23.7	14.9	16.7	17.5	21.0	29.8
82.5°	11.4	4.4	0.9	0.0	0.0	7.0	3.5	7.0	8.8	13.2	19.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.4	7.9	14.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0
90°	0.0	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-SB4A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1634.1	1669.2	1725.3	1783.2	1840.2	1898.0	1954.1	1974.3
5°	1482.5	1563.1	1674.5	1793.7	1916.4	2040.9	2154.9	2206.6
7.5°	1313.3	1429.0	1596.4	1783.2	1978.7	2174.2	2353.9	2437.2
10°	1132.7	1279.1	1470.2	1722.7	2003.2	2273.3	2520.5	2628.3
12.5°	960.9	1114.3	1325.6	1628.0	1983.9	2330.2	2627.4	2754.6
15°	817.1	953.0	1180.9	1515.8	1921.7	2333.7	2678.3	2817.7
17.5°	709.2	797.8	1033.6	1391.3	1840.2	2301.3	2695.8	2844.9
20°	655.8	680.3	842.5	1231.7	1763.9	2270.6	2713.4	2870.3
22.5°	624.2	630.3	689.1	1025.7	1672.7	2261.0	2744.0	2905.3
25°	598.8	600.5	616.3	812.7	1533.3	2254.8	2791.4	2953.6
27.5°	573.4	573.4	582.1	654.9	1344.0	2228.5	2852.7	3011.4
30°	547.9	547.9	554.1	579.5	1122.2	2176.8	2926.4	3086.8
32.5°	521.6	521.6	526.9	545.3	896.0	2111.9	2993.9	3163.1
35°	495.3	493.6	500.6	519.9	712.7	2029.5	3061.4	3245.5
37.5°	467.3	466.4	473.4	495.3	615.4	1934.0	3112.2	3357.7
40°	437.5	437.5	445.4	469.0	587.4	1813.9	3192.9	3519.0
42.5°	410.3	408.5	417.3	446.2	566.3	1699.0	3337.6	3754.0
45°	384.0	380.5	388.4	424.3	529.5	1658.7	3607.6	4101.1
47.5°	359.4	350.7	357.7	398.0	496.2	1809.5	4049.4	4582.5
50°	339.3	322.6	328.8	371.7	470.8	2136.5	4622.8	5221.6
52.5°	318.2	296.3	299.8	339.3	448.0	2447.7	5244.4	6064.9
55°	296.3	271.8	273.5	306.8	415.6	2494.2	5851.0	7215.1
57.5°	271.8	249.0	249.0	277.0	391.9	2161.9	6317.4	8642.4
60°	244.6	229.7	225.3	253.4	412.9	1525.4	6371.8	9562.9
62.5°	214.8	206.9	200.8	230.6	428.7	903.9	5934.3	9340.2
65°	180.6	178.8	174.5	253.4	361.2	533.9	5094.4	8657.3
67.5°	151.7	149.0	149.0	265.6	274.4	335.8	3980.2	7717.5
70°	130.6	121.0	121.0	200.8	166.6	232.3	2779.1	6703.2
72.5°	109.6	99.1	92.1	160.4	124.5	170.1	1736.7	5740.6
75°	87.7	79.8	71.0	106.1	92.9	128.9	1009.1	4756.0
77.5°	63.1	59.6	50.0	78.0	67.5	92.9	600.5	3669.8
80°	32.4	33.3	31.6	44.7	45.6	63.1	341.9	2511.7
82.5°	19.3	14.9	16.7	21.9	26.3	35.9	128.9	1476.3
85°	12.3	7.9	7.9	10.5	13.2	14.0	39.5	598.8
87.5°	6.1	2.6	3.5	5.3	4.4	3.5	1.8	150.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)