

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: P950574

Luminaire Tested: **GALN-SB5A-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950574
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-SB5A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA 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: 16040 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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

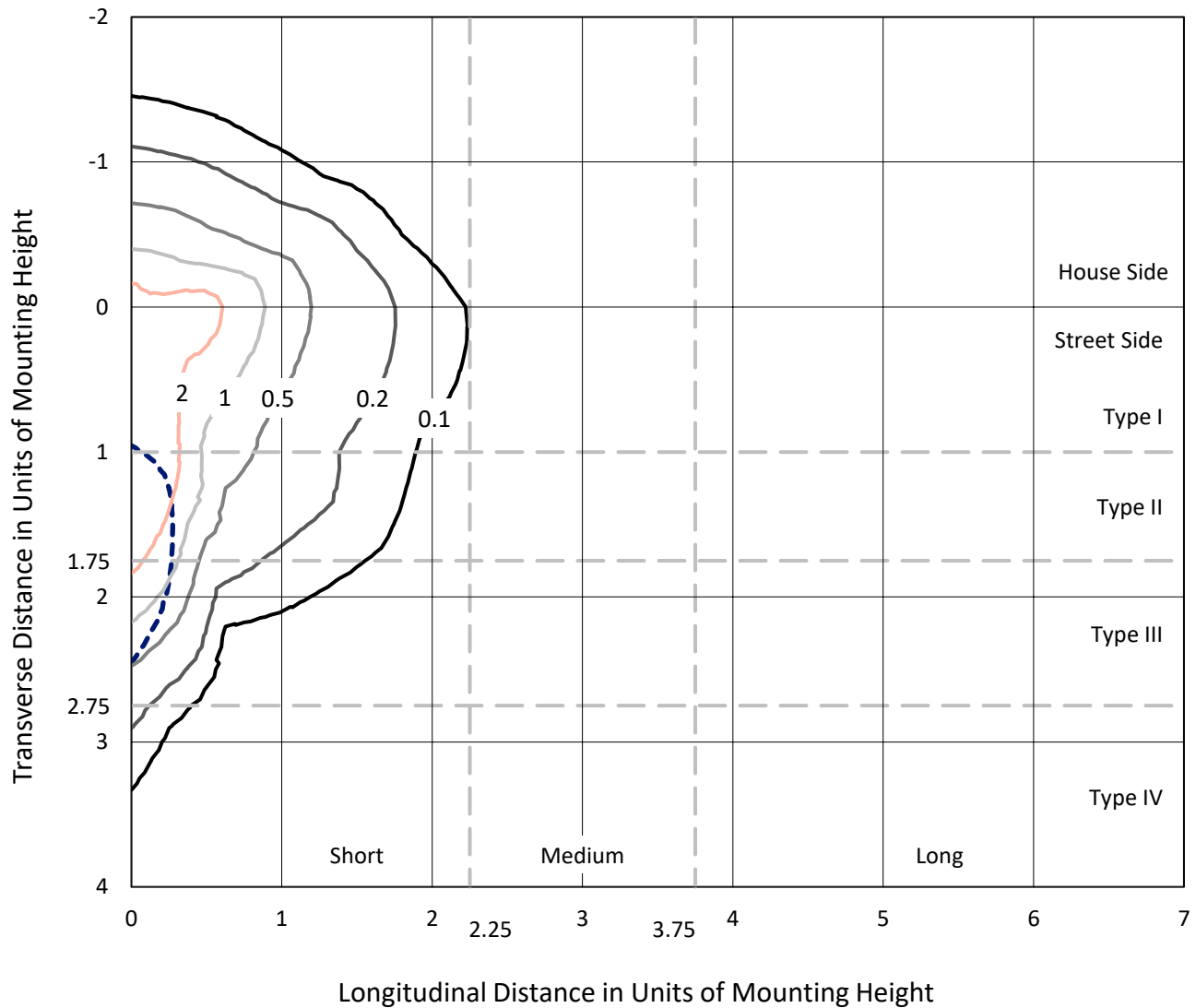


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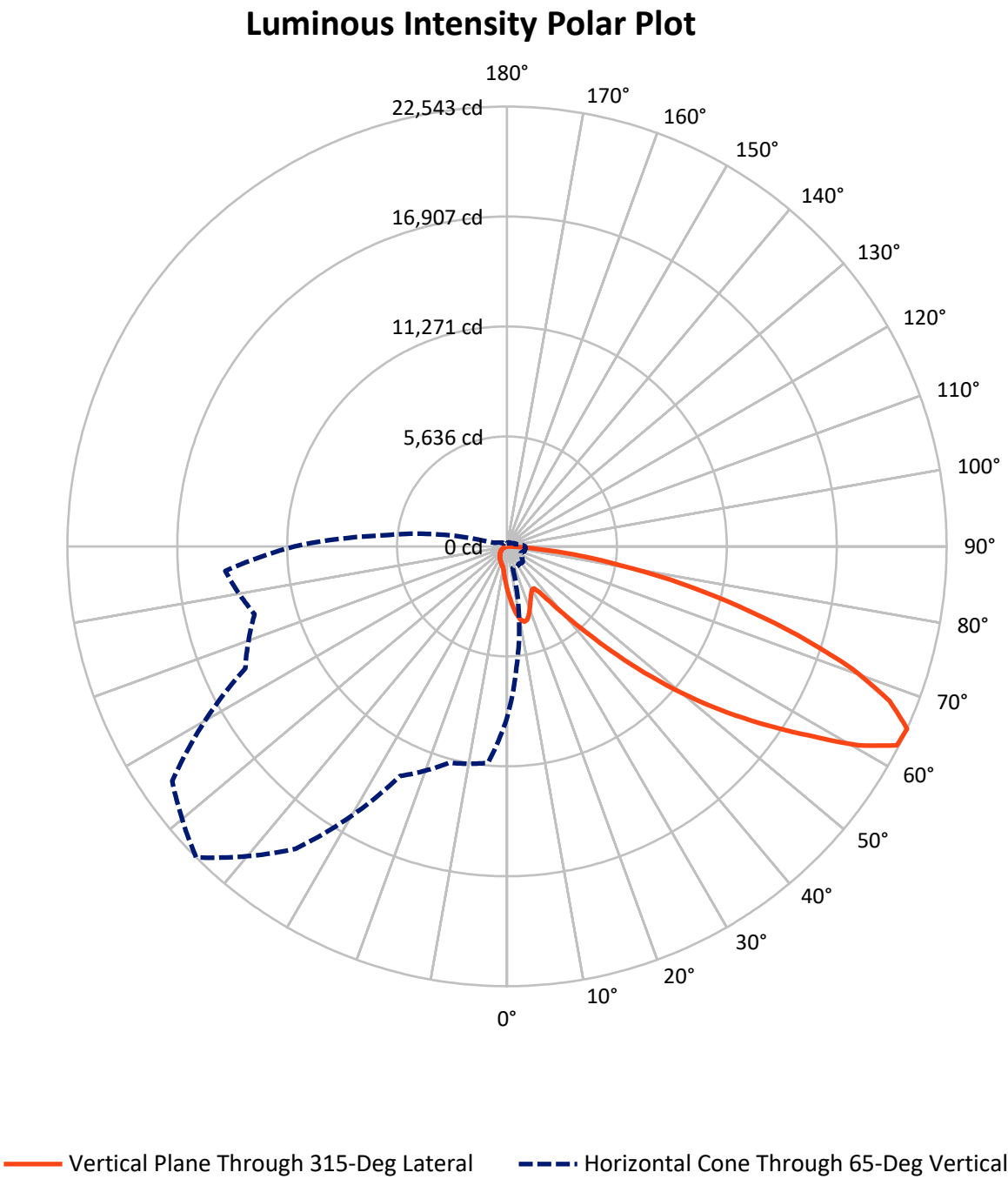
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - N/A

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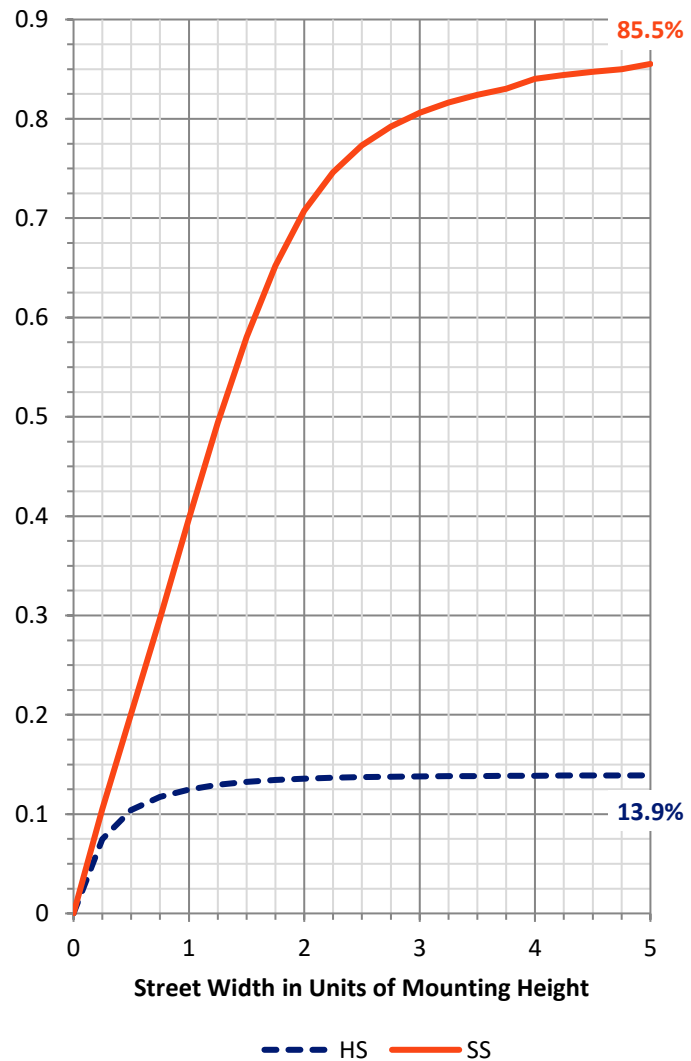
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2246.3	0.0	2246.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13793.7	0.0	13793.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	16040.0	0.0	16040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	1.4
10°-20°	655.5	4.1
20°-30°	965.7	6.0
30°-40°	1240.6	7.7
40°-50°	2006.5	12.5
50°-60°	3518.6	21.9
60°-70°	4402.7	27.4
70°-80°	2572.7	16.0
80°-90°	459.0	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°	16040.0	100.0
0°-180°	16040.0	100.0

Coefficient of Utilization



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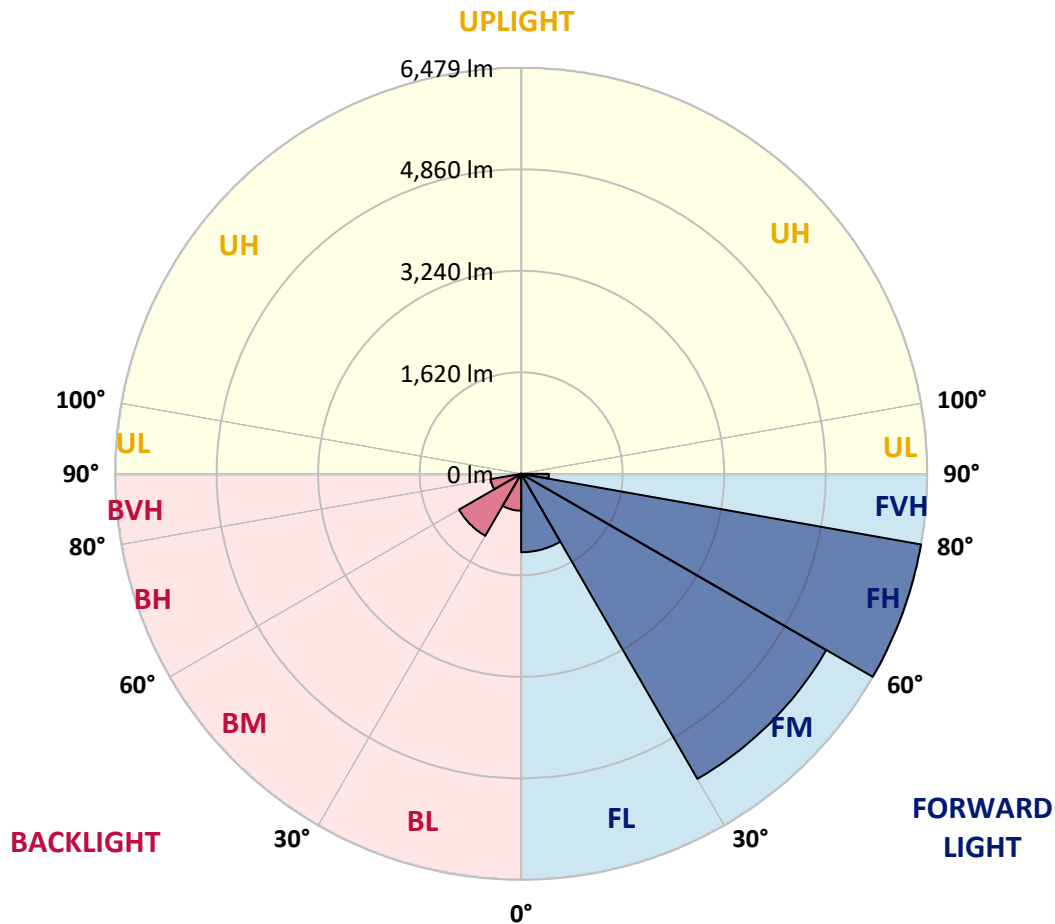
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1251.1	7.8			
FM	(30°-60°)	5621.8	35.0			
FH	(60°-80°)	6479.4	40.4			G3/7500
FVH	(80°-90°)	441.4	2.8			G3/500
BL	(0°-30°)	588.8	3.7	B2/1000		
BM	(30°-60°)	1143.9	7.1	B2/2500		
BH	(60°-80°)	496.0	3.1	B1/500		G1/500
BVH	(80°-90°)	17.6	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°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2509.4	2466.3	2440.9	2377.9	2315.0	2264.1	2195.6	2150.3	2096.2	2044.2	1997.8
5°	2796.7	2727.1	2643.1	2528.2	2423.2	2316.1	2212.2	2109.4	2001.1	1901.7	1840.9
7.5°	3039.8	2939.3	2791.2	2638.7	2505.0	2375.7	2254.2	2118.3	1986.8	1831.0	1748.1
10°	3225.5	3097.3	2902.8	2702.8	2549.2	2418.8	2300.6	2185.7	2053.1	1865.2	1761.4
12.5°	3338.2	3201.2	2970.2	2736.0	2560.3	2414.4	2322.7	2271.9	2219.9	2033.2	1911.6
15°	3421.0	3273.0	3017.7	2759.2	2534.8	2355.8	2288.4	2339.3	2398.9	2279.6	2139.3
17.5°	3507.2	3351.4	3079.6	2769.1	2466.3	2242.0	2213.3	2344.8	2482.9	2477.4	2338.2
20°	3589.0	3434.3	3133.7	2762.5	2355.8	2103.9	2129.3	2297.3	2457.5	2524.9	2449.8
22.5°	3682.9	3519.4	3185.7	2737.1	2212.2	1974.6	2054.2	2222.1	2362.5	2442.0	2418.8
25°	3797.8	3626.6	3258.6	2699.5	2057.5	1867.4	1977.9	2134.8	2248.7	2303.9	2302.8
27.5°	3921.6	3754.8	3355.8	2679.6	1932.6	1791.2	1891.7	2031.0	2132.6	2171.3	2171.3
30°	4075.2	3903.9	3470.8	2657.5	1850.9	1747.0	1802.2	1910.5	2010.0	2048.6	2048.6
32.5°	4243.2	4069.7	3581.3	2604.5	1801.1	1713.8	1714.9	1783.5	1874.1	1920.5	1927.1
35°	4453.1	4268.6	3699.5	2488.4	1761.4	1675.2	1629.9	1663.0	1738.1	1793.4	1807.8
37.5°	4752.6	4529.3	3844.3	2322.7	1702.8	1615.5	1540.4	1548.1	1605.5	1666.3	1688.4
40°	5165.8	4879.6	4014.4	2150.3	1618.8	1531.5	1442.0	1438.7	1480.7	1540.4	1564.7
42.5°	5724.9	5342.6	4218.8	1985.7	1538.1	1429.9	1338.1	1332.6	1365.8	1417.7	1443.1
45°	6463.1	5934.9	4469.7	1844.2	1475.2	1330.4	1239.8	1237.6	1265.2	1310.5	1337.0
47.5°	7407.8	6758.1	4720.5	1748.1	1442.0	1252.0	1159.1	1163.6	1187.9	1228.7	1247.5
50°	8631.1	7831.1	4796.8	1699.5	1442.0	1210.0	1087.3	1109.4	1129.3	1160.2	1171.3
52.5°	10097.4	8860.9	4544.8	1655.3	1450.8	1215.5	1026.5	1074.0	1088.4	1114.9	1119.4
55°	11456.5	9365.9	3907.2	1594.5	1453.1	1249.7	974.6	1045.3	1071.8	1081.8	1080.7
57.5°	12245.5	9192.4	3159.2	1491.7	1444.2	1272.9	941.5	1010.0	1060.8	1067.4	1057.5
60°	12095.2	8583.6	2326.0	1413.3	1379.0	1264.1	931.5	955.8	1036.5	1046.4	1033.2
62.5°	10937.2	7562.5	1614.4	1352.5	1235.4	1225.4	928.2	870.7	983.4	1007.7	989.0
65°	8791.3	5953.7	1140.3	1164.7	1082.9	1141.5	910.5	782.3	919.4	952.5	923.8
67.5°	6378.0	4028.8	823.2	943.7	981.2	1005.5	870.7	718.2	846.4	890.6	853.1
70°	4092.9	2175.7	577.9	623.2	826.5	854.2	802.2	660.8	772.4	823.2	782.3
72.5°	2909.4	1285.1	415.5	436.5	664.1	711.6	706.1	596.7	686.2	748.1	699.5
75°	2007.8	708.3	280.7	311.6	481.8	577.9	544.8	512.7	581.2	644.2	596.7
77.5°	1258.6	317.1	168.0	216.6	316.0	454.2	373.5	396.7	453.0	511.6	461.9
80°	700.6	122.7	93.9	143.6	172.4	330.4	206.6	255.3	333.7	375.7	335.9
82.5°	152.5	15.5	42.0	61.9	67.4	192.3	109.4	148.1	209.9	206.6	179.0
85°	0.0	0.0	7.7	8.8	4.4	82.9	39.8	48.6	68.5	64.1	48.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	1989.0	1934.8	1895.1	1875.2	1858.6	1874.1	1882.9	1882.9	1920.5	1942.6	1951.4
5°	1802.2	1705.0	1631.0	1581.2	1551.4	1561.3	1572.4	1584.6	1632.1	1664.1	1685.1
7.5°	1673.0	1523.8	1411.1	1341.5	1305.0	1310.5	1318.3	1328.2	1374.6	1406.7	1434.3
10°	1648.6	1434.3	1275.2	1183.4	1139.2	1131.5	1127.1	1123.8	1151.4	1175.7	1197.8
12.5°	1748.1	1438.7	1216.6	1105.0	1050.8	1027.6	1001.1	980.1	984.5	1000.0	1027.6
15°	1926.0	1495.0	1197.8	1064.1	996.7	958.0	927.1	901.7	896.1	901.7	906.1
17.5°	2129.3	1571.3	1195.6	1028.7	944.8	905.0	879.6	856.4	848.6	849.7	855.3
20°	2264.1	1632.1	1189.0	989.0	895.0	859.7	837.6	814.4	806.6	808.9	810.0
22.5°	2277.4	1664.1	1179.0	944.8	845.3	815.5	793.4	772.4	771.3	771.3	777.9
25°	2205.6	1664.1	1158.0	905.0	797.8	771.3	751.4	726.0	730.4	732.6	741.4
27.5°	2094.0	1624.3	1118.2	872.9	756.9	729.3	709.4	686.2	691.7	695.0	705.0
30°	1983.5	1573.5	1070.7	836.5	718.2	686.2	671.8	651.9	654.2	658.6	669.6
32.5°	1880.7	1519.4	1014.4	806.6	679.6	647.5	636.5	614.4	617.7	622.1	634.3
35°	1779.0	1459.7	948.1	771.3	644.2	612.2	603.3	577.9	580.1	586.7	600.0
37.5°	1669.6	1396.7	893.9	735.9	610.0	576.8	568.0	541.4	543.7	551.4	566.9
40°	1554.7	1334.8	840.9	698.4	573.5	540.3	532.6	503.9	506.1	514.9	531.5
42.5°	1438.7	1267.4	800.0	649.7	535.9	500.6	492.8	466.3	469.6	479.6	496.1
45°	1331.5	1186.8	773.5	595.6	500.6	460.8	453.0	428.7	435.4	446.4	463.0
47.5°	1239.8	1103.9	762.4	550.3	463.0	419.9	413.3	393.4	404.4	416.6	429.8
50°	1161.3	1024.3	748.1	503.9	427.6	384.5	377.9	364.6	379.0	391.2	403.3
52.5°	1105.0	933.7	717.1	461.9	396.7	354.7	352.5	345.9	359.1	370.2	381.2
55°	1056.4	839.8	667.4	425.4	369.1	329.3	331.5	328.2	339.2	348.1	358.0
57.5°	1012.2	758.0	604.4	396.7	339.2	307.2	313.8	309.4	314.9	320.4	332.6
60°	959.1	675.1	529.3	364.6	303.9	285.1	292.8	280.7	279.6	281.8	285.1
62.5°	880.7	563.5	450.8	324.9	272.9	260.8	264.1	240.9	223.2	223.2	226.5
65°	771.3	453.0	377.9	280.7	237.6	227.6	225.4	192.3	168.0	165.7	175.7
67.5°	644.2	372.4	313.8	236.5	197.8	191.2	193.4	169.1	144.8	142.5	153.6
70°	524.9	308.3	253.0	189.0	152.5	159.1	169.1	144.8	121.5	118.2	128.2
72.5°	426.5	245.3	197.8	144.8	112.7	131.5	143.6	118.2	96.1	93.9	102.8
75°	329.3	180.1	141.4	98.3	81.8	101.7	112.7	86.2	68.5	65.2	72.9
77.5°	219.9	111.6	79.6	61.9	48.6	69.6	75.1	45.3	39.8	38.7	44.2
80°	133.7	51.9	34.3	29.8	16.6	25.4	29.8	18.8	21.0	22.1	26.5
82.5°	67.4	14.4	5.5	1.1	0.0	0.0	8.8	4.4	8.8	11.0	16.6
85°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5	9.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
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°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2013.3	2059.7	2103.9	2174.6	2247.5	2319.4	2392.3	2463.0	2488.4	2507.2	2549.2
5°	1781.2	1868.5	1970.2	2110.5	2260.8	2415.5	2572.4	2716.1	2781.3	2825.5	2924.9
7.5°	1541.5	1655.3	1801.1	2012.2	2247.5	2494.0	2740.4	2966.9	3071.9	3157.0	3308.3
10°	1303.9	1427.6	1612.2	1853.1	2171.3	2524.9	2865.2	3176.8	3312.8	3419.9	3625.5
12.5°	1095.0	1211.1	1404.4	1670.7	2052.0	2500.6	2937.1	3311.7	3471.9	3592.3	3817.7
15°	948.1	1029.8	1201.1	1488.4	1910.5	2422.1	2941.5	3375.7	3551.4	3677.4	3873.0
17.5°	866.3	893.9	1005.5	1302.8	1753.6	2319.4	2900.6	3397.8	3585.7	3702.8	3838.7
20°	822.1	826.5	857.5	1061.9	1552.5	2223.2	2861.9	3419.9	3617.7	3716.1	3757.0
22.5°	786.8	786.8	794.5	868.5	1292.8	2108.3	2849.8	3458.6	3661.9	3722.7	3638.7
25°	754.7	754.7	756.9	776.8	1024.3	1932.6	2842.0	3518.3	3722.7	3739.3	3508.3
27.5°	721.6	722.7	722.7	733.7	825.4	1693.9	2808.9	3595.6	3795.6	3761.4	3383.5
30°	688.4	690.6	690.6	698.4	730.4	1414.4	2743.7	3688.5	3890.7	3790.1	3259.7
32.5°	655.3	657.5	657.5	664.1	687.3	1129.3	2661.9	3773.5	3986.8	3802.3	3144.8
35°	621.0	624.3	622.1	630.9	655.3	898.4	2558.0	3858.6	4090.7	3840.9	3088.4
37.5°	586.7	589.0	587.9	596.7	624.3	775.7	2437.6	3922.7	4232.1	3927.1	3155.8
40°	552.5	551.4	551.4	561.3	591.2	740.3	2286.2	4024.4	4435.4	4078.5	3449.8
42.5°	517.1	517.1	514.9	526.0	562.4	713.8	2141.5	4206.7	4731.6	4319.4	3971.3
45°	485.1	484.0	479.6	489.5	534.8	667.4	2090.6	4547.0	5169.1	4709.5	4602.3
47.5°	454.2	453.0	442.0	450.8	501.7	625.4	2280.7	5103.9	5775.8	5282.9	5193.4
50°	426.5	427.6	406.6	414.4	468.5	593.4	2692.9	5826.6	6581.3	6055.3	5753.7
52.5°	401.1	401.1	373.5	377.9	427.6	564.6	3085.1	6610.0	7644.3	7132.7	6406.7
55°	375.7	373.5	342.5	344.8	386.7	523.8	3143.7	7374.7	9094.1	8753.7	7299.6
57.5°	347.0	342.5	313.8	313.8	349.2	493.9	2724.9	7962.5	10893.0	11136.1	8586.9
60°	311.6	308.3	289.5	284.0	319.3	520.4	1922.7	8031.1	12053.2	14304.1	11052.1
62.5°	266.3	270.7	260.8	253.0	290.6	540.3	1139.2	7479.7	11772.5	15311.8	14004.6
65°	209.9	227.6	225.4	219.9	319.3	455.3	672.9	6421.1	10911.8	14498.6	13402.4
67.5°	179.0	191.2	187.8	187.8	334.8	345.9	423.2	5016.6	9727.2	13533.9	11971.4
70°	152.5	164.6	152.5	152.5	253.0	209.9	292.8	3502.8	8448.7	12466.5	11032.2
72.5°	126.0	138.1	124.9	116.0	202.2	156.9	214.4	2189.0	7235.5	11354.9	10389.1
75°	96.1	110.5	100.6	89.5	133.7	117.1	162.4	1271.8	5994.6	9715.1	9473.1
77.5°	60.8	79.6	75.1	63.0	98.3	85.1	117.1	756.9	4625.5	7591.3	8148.2
80°	37.6	40.9	42.0	39.8	56.4	57.5	79.6	430.9	3165.8	5290.7	6365.8
82.5°	24.3	24.3	18.8	21.0	27.6	33.1	45.3	162.4	1860.8	3221.0	4431.0
85°	17.7	15.5	9.9	9.9	13.3	16.6	17.7	49.7	754.7	1271.8	1732.6
87.5°	8.8	7.7	3.3	4.4	6.6	5.5	4.4	2.2	190.1	406.6	285.1
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-SB5A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2571.3	2605.6	2607.8	2607.8	2577.9	2576.8	2516.1	2509.4
5°	3027.7	3049.8	3055.3	3044.2	2984.6	2940.4	2822.1	2796.7
7.5°	3445.4	3489.6	3489.6	3463.0	3365.8	3275.2	3103.9	3039.8
10°	3779.1	3829.9	3818.8	3764.7	3642.0	3517.2	3309.4	3225.5
12.5°	3941.5	3993.4	3964.7	3902.8	3783.5	3652.0	3433.2	3338.2
15°	3938.2	3923.8	3894.0	3886.2	3828.8	3729.3	3524.9	3421.0
17.5°	3797.8	3676.3	3653.1	3730.4	3803.4	3779.1	3604.5	3507.2
20°	3575.7	3363.6	3342.6	3490.7	3698.4	3804.5	3678.5	3589.0
22.5°	3341.5	3112.8	3064.1	3227.7	3540.4	3812.2	3772.4	3682.9
25°	3119.4	2889.5	2840.9	2993.4	3364.7	3799.0	3874.1	3797.8
27.5°	2933.7	2711.6	2666.3	2818.8	3195.6	3761.4	3975.7	3921.6
30°	2790.1	2584.6	2551.4	2698.4	3049.8	3715.0	4105.0	4075.2
32.5°	2706.1	2555.8	2568.0	2688.4	2971.3	3664.1	4228.8	4243.2
35°	2789.0	2795.6	2901.7	2951.4	3044.2	3656.4	4396.7	4453.1
37.5°	3201.2	3431.0	3650.9	3610.0	3401.2	3745.9	4647.6	4752.6
40°	3902.8	4374.6	4731.6	4575.8	4049.8	4019.9	5008.9	5165.8
42.5°	4760.3	5560.3	6148.2	5730.5	4886.3	4499.5	5524.9	5724.9
45°	5665.3	7022.2	7948.2	7079.7	5778.0	5171.3	6306.2	6463.1
47.5°	6618.9	8799.0	9996.8	8575.8	6604.5	5936.0	7371.4	7407.8
50°	7662.0	10747.1	12085.3	10070.9	7402.3	6812.3	8673.1	8631.1
52.5°	8655.4	12750.5	14129.5	11572.5	8102.9	7899.6	10183.6	10097.4
55°	9603.5	14752.7	16185.9	13015.7	8763.7	9336.0	11978.1	11456.5
57.5°	10702.9	16552.7	18305.2	14465.4	9687.4	11201.3	13984.7	12245.5
60°	12328.4	18598.1	20702.0	16452.2	11444.4	13161.5	14704.1	12095.2
62.5°	14403.5	20478.8	22444.5	18399.2	13209.0	13530.6	13644.4	10937.2
65°	14806.8	20955.0	22542.9	18919.6	12981.4	11477.5	11139.4	8791.3
67.5°	13737.2	20094.2	21168.3	17950.5	11483.0	8869.7	8359.2	6378.0
70°	12537.2	18453.3	18772.6	16303.0	10099.6	6523.9	5645.4	4092.9
72.5°	11307.3	16264.3	15603.5	14158.2	8876.4	4750.3	4071.9	2909.4
75°	9846.6	13385.8	12290.8	11763.7	7349.3	3728.2	2945.9	2007.8
77.5°	7885.2	9422.2	9129.4	9118.4	5522.7	2723.8	1965.8	1258.6
80°	5562.5	6115.0	5965.8	6867.5	3705.0	1975.7	1183.4	700.6
82.5°	2692.9	3381.3	3470.8	4089.6	1802.2	1162.4	272.9	152.5
85°	1054.2	1631.0	1375.7	1552.5	506.1	323.8	6.6	0.0
87.5°	118.2	189.0	173.5	137.0	61.9	13.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)