

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: P948430

Luminaire Tested: **GALN-SB3C-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948430
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-SB3C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 15906 lumens
Efficiency: N/A
Efficacy: 106.7 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): 149.1
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

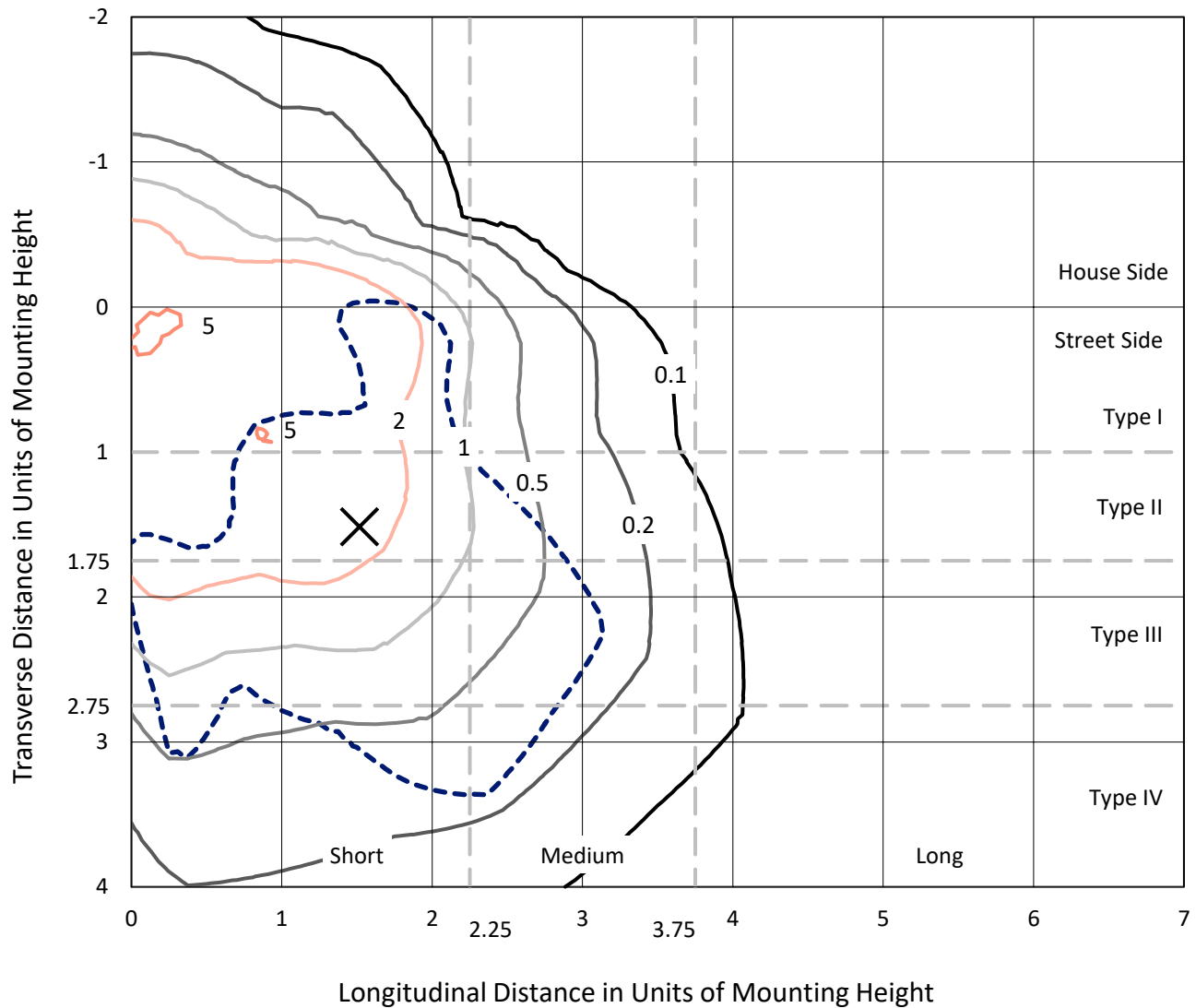


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Iso-Footcandle Lines of Horizontal Illumination

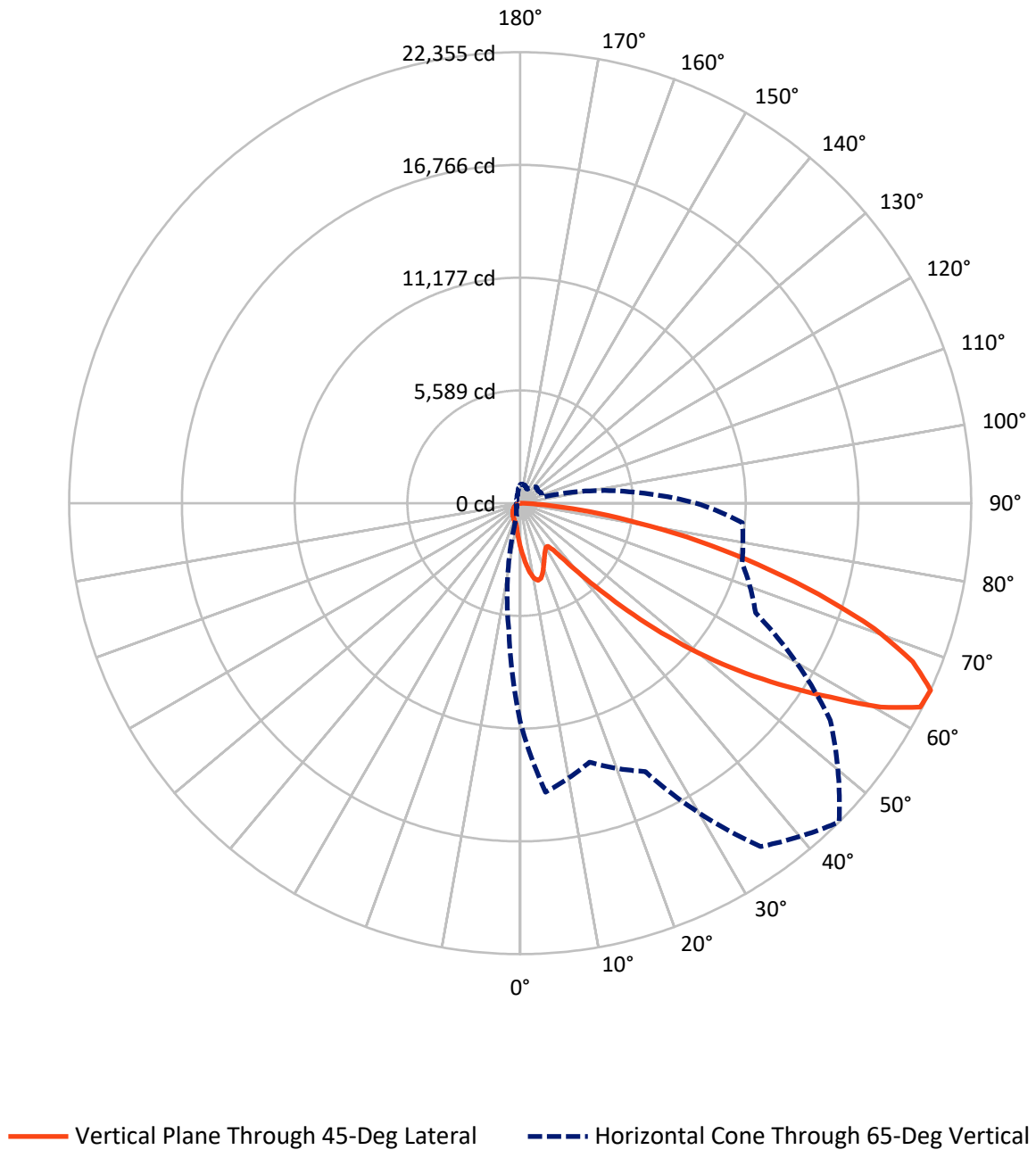
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3161.6	0.0	3161.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	12744.4	0.0	12744.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	15906.0	0.0	15906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	1.4
10°-20°	650.0	4.1
20°-30°	957.6	6.0
30°-40°	1230.3	7.7
40°-50°	1989.7	12.5
50°-60°	3489.2	21.9
60°-70°	4365.9	27.4
70°-80°	2551.2	16.0
80°-90°	455.2	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°	15906.0	100.0
0°-180°	15906.0	100.0

Coefficient of Utilization



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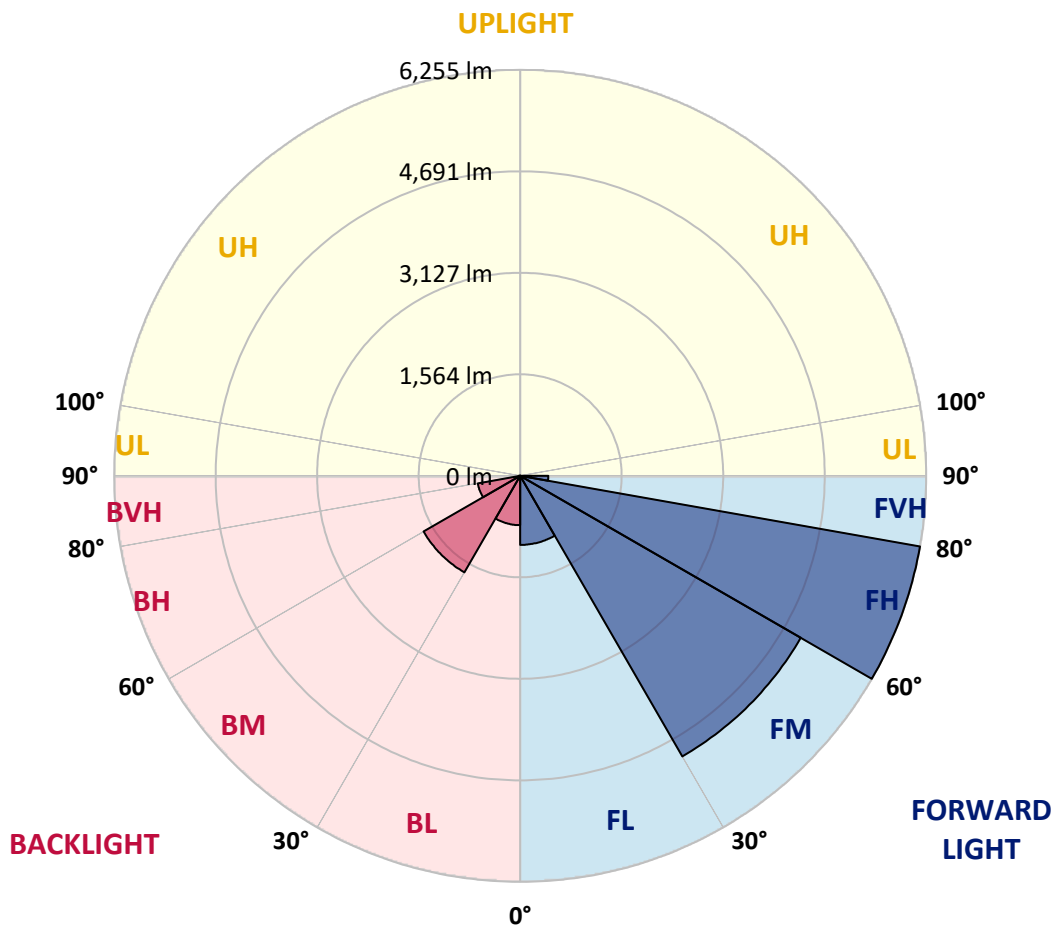
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1064.3	6.7			
FM	(30°-60°)	4991.5	31.4			
FH	(60°-80°)	6254.7	39.3			G3/7500
FVH	(80°-90°)	433.9	2.7			G3/500
BL	(0°-30°)	760.2	4.8	B2/1000		
BM	(30°-60°)	1717.7	10.8	B2/2500		
BH	(60°-80°)	662.4	4.2	B2/1000		G2/1000
BVH	(80°-90°)	21.3	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5
2.5°	2467.6	2486.3	2527.9	2549.8	2583.8	2586.0	2586.0	2556.4	2555.3	2495.0	2488.5
5°	2758.0	2801.9	2900.5	3002.4	3024.3	3029.8	3018.8	2959.6	2915.8	2798.6	2773.4
7.5°	3046.2	3130.6	3280.7	3416.6	3460.4	3460.4	3434.1	3337.7	3247.8	3078.0	3014.4
10°	3285.1	3391.4	3595.2	3747.5	3797.9	3786.9	3733.2	3611.6	3487.8	3281.8	3198.5
12.5°	3442.9	3562.3	3785.8	3908.6	3960.1	3931.6	3870.2	3751.9	3621.5	3404.5	3310.3
15°	3521.8	3646.7	3840.6	3905.3	3891.0	3861.4	3853.8	3796.8	3698.2	3495.5	3392.5
17.5°	3555.7	3671.9	3806.7	3766.1	3645.6	3622.6	3699.3	3771.6	3747.5	3574.4	3477.9
20°	3587.5	3685.0	3725.6	3545.9	3335.5	3314.7	3461.5	3667.5	3772.7	3647.8	3559.0
22.5°	3631.3	3691.6	3608.3	3313.6	3086.7	3038.5	3200.7	3510.8	3780.4	3740.9	3652.2
25°	3691.6	3708.0	3479.0	3093.3	2865.4	2817.2	2968.4	3336.6	3767.2	3841.7	3766.1
27.5°	3763.9	3730.0	3355.2	2909.2	2689.0	2644.1	2795.3	3168.9	3730.0	3942.5	3888.8
30°	3858.2	3758.4	3232.5	2766.8	2563.0	2530.1	2675.8	3024.3	3683.9	4070.7	4041.2
32.5°	3953.5	3770.5	3118.5	2683.5	2534.5	2546.5	2666.0	2946.5	3633.5	4193.5	4207.7
35°	4056.5	3808.9	3062.6	2765.7	2772.3	2877.5	2926.8	3018.8	3625.9	4360.0	4415.9
37.5°	4196.8	3894.3	3129.5	3174.4	3402.3	3620.4	3579.8	3372.7	3714.6	4608.8	4712.9
40°	4398.4	4044.4	3421.0	3870.2	4338.1	4692.0	4537.5	4016.0	3986.4	4967.1	5122.7
42.5°	4692.0	4283.3	3938.2	4720.5	5513.9	6096.8	5682.6	4845.4	4461.9	5478.8	5677.1
45°	5126.0	4670.1	4563.8	5617.9	6963.5	7881.8	7020.5	5729.7	5128.1	6253.5	6409.1
47.5°	5727.5	5238.8	5150.1	6563.6	8725.5	9913.3	8504.2	6549.3	5886.4	7309.8	7346.0
50°	6526.3	6004.7	5705.6	7598.0	10657.3	11984.3	9986.7	7340.5	6755.3	8600.6	8559.0
52.5°	7580.4	7073.1	6353.2	8583.1	12643.9	14011.4	11475.9	8035.2	7833.6	10098.5	10013.0
55°	9018.1	8680.6	7238.6	9523.2	14629.5	16050.7	12906.9	8690.5	9258.1	11878.0	11360.8
57.5°	10802.0	11043.0	8515.1	10613.5	16414.4	18152.3	14344.6	9606.5	11107.7	13867.9	12143.2
60°	11952.5	14184.6	10959.8	12225.4	18442.7	20529.0	16314.7	11348.8	13051.6	14581.2	11994.2
62.5°	11674.2	15183.9	13887.6	14283.2	20307.7	22257.0	18245.5	13098.7	13417.5	13530.4	10845.8
65°	10820.6	14377.4	13290.4	14683.1	20779.9	22354.5	18761.6	12873.0	11381.6	11046.3	8717.8
67.5°	9646.0	13420.8	11871.4	13622.5	19926.3	20991.4	17800.6	11387.1	8795.6	8289.4	6324.7
70°	8378.2	12362.3	10940.0	12432.5	18299.1	18615.8	16166.8	10015.2	6469.4	5598.2	4058.7
72.5°	7175.0	11260.0	10302.3	11212.9	16128.5	15473.2	14039.9	8802.2	4710.7	4037.9	2885.1
75°	5944.5	9633.9	9393.9	9764.3	13274.0	12188.1	11665.4	7287.9	3697.1	2921.3	1991.0
77.5°	4586.8	7527.9	8080.1	7819.3	9343.5	9053.1	9042.2	5476.6	2701.0	1949.4	1248.1
80°	3139.3	5246.5	6312.7	5516.0	6063.9	5916.0	6810.1	3674.1	1959.2	1173.6	694.7
82.5°	1845.3	3194.1	4394.0	2670.4	3353.0	3441.8	4055.4	1787.2	1152.7	270.7	151.2
85°	748.4	1261.2	1718.1	1045.4	1617.3	1364.2	1539.5	501.9	321.1	6.6	0.0
87.5°	188.5	403.2	282.7	117.2	187.4	172.0	135.9	61.4	13.1	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°	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5
2.5°	2445.7	2420.5	2358.1	2295.6	2245.2	2177.3	2132.3	2078.7	2027.2	1981.1	1972.4
5°	2704.3	2621.1	2507.1	2403.0	2296.7	2193.7	2091.8	1984.4	1885.8	1825.5	1787.2
7.5°	2914.7	2767.9	2616.7	2484.1	2355.9	2235.3	2100.6	1970.2	1815.7	1733.5	1659.0
10°	3071.4	2878.6	2680.2	2527.9	2398.6	2281.4	2167.4	2035.9	1849.6	1746.6	1634.9
12.5°	3174.4	2945.4	2713.1	2538.9	2394.2	2303.3	2252.9	2201.4	2016.2	1895.7	1733.5
15°	3245.6	2992.5	2736.1	2513.7	2336.2	2269.3	2319.7	2378.9	2260.5	2121.4	1909.9
17.5°	3323.4	3053.9	2746.0	2445.7	2223.3	2194.8	2325.2	2462.2	2456.7	2318.6	2111.5
20°	3405.6	3107.6	2739.4	2336.2	2086.3	2111.5	2278.1	2437.0	2503.8	2429.3	2245.2
22.5°	3490.0	3159.1	2714.2	2193.7	1958.1	2037.0	2203.6	2342.7	2421.6	2398.6	2258.4
25°	3596.3	3231.4	2676.9	2040.3	1851.8	1961.4	2117.0	2229.9	2284.7	2283.6	2187.1
27.5°	3723.4	3327.8	2657.2	1916.5	1776.2	1875.9	2014.0	2114.8	2153.2	2153.2	2076.5
30°	3871.3	3441.8	2635.3	1835.4	1732.4	1787.2	1894.6	1993.2	2031.5	2031.5	1966.9
32.5°	4035.7	3551.3	2582.7	1786.1	1699.5	1700.6	1768.6	1858.4	1904.4	1911.0	1865.0
35°	4232.9	3668.6	2467.6	1746.6	1661.2	1616.2	1649.1	1723.6	1778.4	1792.7	1764.2
37.5°	4491.5	3812.1	2303.3	1688.6	1602.0	1527.5	1535.2	1592.1	1652.4	1674.3	1655.7
40°	4838.9	3980.9	2132.3	1605.3	1518.7	1430.0	1426.7	1468.3	1527.5	1551.6	1541.7
42.5°	5298.0	4183.6	1969.1	1525.3	1417.9	1327.0	1321.5	1354.4	1405.9	1431.1	1426.7
45°	5885.3	4432.3	1828.8	1462.8	1319.3	1229.4	1227.2	1254.6	1299.6	1325.9	1320.4
47.5°	6701.7	4681.1	1733.5	1430.0	1241.5	1149.4	1153.8	1177.9	1218.5	1237.1	1229.4
50°	7765.6	4756.7	1685.3	1430.0	1199.9	1078.2	1100.1	1119.9	1150.5	1161.5	1151.6
52.5°	8786.9	4506.8	1641.4	1438.7	1205.3	1018.0	1065.1	1079.3	1105.6	1110.0	1095.8
55°	9287.6	3874.6	1581.2	1440.9	1239.3	966.5	1036.6	1062.9	1072.7	1071.7	1047.5
57.5°	9115.6	3132.8	1479.3	1432.2	1262.3	933.6	1001.5	1051.9	1058.5	1048.6	1003.7
60°	8511.8	2306.6	1401.5	1367.5	1253.5	923.7	947.8	1027.8	1037.7	1024.5	951.1
62.5°	7499.4	1600.9	1341.2	1225.1	1215.2	920.4	863.5	975.2	999.3	980.7	873.3
65°	5903.9	1130.8	1154.9	1073.8	1131.9	902.9	775.8	911.7	944.5	916.1	764.8
67.5°	3995.1	816.3	935.8	973.0	997.1	863.5	712.2	839.4	883.2	845.9	638.8
70°	2157.5	573.1	618.0	819.6	847.0	795.5	655.3	765.9	816.3	775.8	520.5
72.5°	1274.4	412.0	432.8	658.6	705.7	700.2	591.7	680.5	741.8	693.6	423.0
75°	702.4	278.3	309.0	477.8	573.1	540.2	508.4	576.4	638.8	591.7	326.5
77.5°	314.5	166.6	214.8	313.4	450.4	370.4	393.4	449.3	507.3	458.0	218.1
80°	121.6	93.1	142.4	170.9	327.6	204.9	253.1	330.9	372.6	333.1	132.6
82.5°	15.3	41.6	61.4	66.8	190.7	108.5	146.8	208.2	204.9	177.5	66.8
85°	0.0	7.7	8.8	4.4	82.2	39.4	48.2	67.9	63.6	48.2	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	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°	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5
2.5°	1918.7	1879.2	1859.5	1843.1	1858.4	1867.2	1867.2	1904.4	1926.3	1935.1	1996.5
5°	1690.8	1617.3	1568.0	1538.4	1548.3	1559.3	1571.3	1618.4	1650.2	1671.0	1766.4
7.5°	1511.0	1399.3	1330.2	1294.1	1299.6	1307.2	1317.1	1363.1	1394.9	1422.3	1528.6
10°	1422.3	1264.5	1173.6	1129.7	1122.1	1117.7	1114.4	1141.8	1165.9	1187.8	1293.0
12.5°	1426.7	1206.4	1095.8	1042.1	1019.1	992.8	971.9	976.3	991.7	1019.1	1085.9
15°	1482.6	1187.8	1055.2	988.4	950.0	919.3	894.1	888.7	894.1	898.5	940.2
17.5°	1558.2	1185.6	1020.1	936.9	897.4	872.2	849.2	841.5	842.6	848.1	859.1
20°	1618.4	1179.0	980.7	887.6	852.5	830.6	807.6	799.9	802.1	803.2	815.2
22.5°	1650.2	1169.2	936.9	838.3	808.7	786.8	765.9	764.8	764.8	771.4	780.2
25°	1650.2	1148.4	897.4	791.1	764.8	745.1	719.9	724.3	726.5	735.3	748.4
27.5°	1610.8	1108.9	865.6	750.6	723.2	703.5	680.5	685.9	689.2	699.1	715.5
30°	1560.4	1061.8	829.5	712.2	680.5	666.2	646.5	648.7	653.1	664.0	682.7
32.5°	1506.7	1005.9	799.9	673.9	642.1	631.2	609.2	612.5	616.9	629.0	649.8
35°	1447.5	940.2	764.8	638.8	607.0	598.3	573.1	575.3	581.8	595.0	615.8
37.5°	1385.0	886.5	729.8	604.9	572.0	563.2	536.9	539.1	546.8	562.1	581.8
40°	1323.7	833.9	692.5	568.7	535.8	528.2	499.7	501.9	510.6	527.1	547.9
42.5°	1256.8	793.3	644.3	531.4	496.4	488.7	462.4	465.7	475.6	492.0	512.8
45°	1176.8	767.0	590.6	496.4	456.9	449.3	425.2	431.7	442.7	459.1	481.0
47.5°	1094.7	756.1	545.7	459.1	416.4	409.8	390.1	401.0	413.1	426.2	450.4
50°	1015.8	741.8	499.7	424.1	381.3	374.7	361.6	375.8	387.9	400.0	423.0
52.5°	925.9	711.1	458.0	393.4	351.7	349.5	343.0	356.1	367.1	378.0	397.8
55°	832.8	661.8	421.9	366.0	326.5	328.7	325.4	336.4	345.2	355.0	372.6
57.5°	751.7	599.4	393.4	336.4	304.6	311.2	306.8	312.3	317.8	329.8	344.1
60°	669.5	524.9	361.6	301.3	282.7	290.4	278.3	277.2	279.4	282.7	309.0
62.5°	558.8	447.1	322.2	270.7	258.6	261.9	238.9	221.3	221.3	224.6	264.1
65°	449.3	374.7	278.3	235.6	225.7	223.5	190.7	166.6	164.4	174.2	208.2
67.5°	369.3	311.2	234.5	196.1	189.6	191.8	167.7	143.5	141.4	152.3	177.5
70°	305.7	250.9	187.4	151.2	157.8	167.7	143.5	120.5	117.2	127.1	151.2
72.5°	243.3	196.1	143.5	111.8	130.4	142.4	117.2	95.3	93.1	101.9	124.9
75°	178.6	140.3	97.5	81.1	100.8	111.8	85.5	67.9	64.6	72.3	95.3
77.5°	110.7	78.9	61.4	48.2	69.0	74.5	44.9	39.4	38.4	43.8	60.3
80°	51.5	34.0	29.6	16.4	25.2	29.6	18.6	20.8	21.9	26.3	37.3
82.5°	14.2	5.5	1.1	0.0	0.0	8.8	4.4	8.8	11.0	16.4	24.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.5	9.9	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
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-SB3C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5	2202.5
2.5°	2042.5	2086.3	2156.5	2228.8	2300.0	2372.3	2442.4	2467.6
5°	1852.9	1953.7	2092.9	2241.9	2395.3	2550.9	2693.4	2758.0
7.5°	1641.4	1786.1	1995.4	2228.8	2473.1	2717.5	2942.1	3046.2
10°	1415.7	1598.7	1837.6	2153.2	2503.8	2841.3	3150.3	3285.1
12.5°	1200.9	1392.7	1656.8	2034.8	2479.7	2912.5	3284.0	3442.9
15°	1021.2	1191.1	1476.0	1894.6	2401.9	2916.9	3347.5	3521.8
17.5°	886.5	997.1	1291.9	1739.0	2300.0	2876.4	3369.5	3555.7
20°	819.6	850.3	1053.0	1539.5	2204.7	2838.0	3391.4	3587.5
22.5°	780.2	787.8	861.3	1282.0	2090.7	2826.0	3429.7	3631.3
25°	748.4	750.6	770.3	1015.8	1916.5	2818.3	3488.9	3691.6
27.5°	716.6	716.6	727.6	818.5	1679.8	2785.4	3565.6	3763.9
30°	684.8	684.8	692.5	724.3	1402.6	2720.8	3657.6	3858.2
32.5°	652.0	652.0	658.6	681.6	1119.9	2639.7	3742.0	3953.5
35°	619.1	616.9	625.7	649.8	890.9	2536.7	3826.4	4056.5
37.5°	584.0	582.9	591.7	619.1	769.2	2417.2	3889.9	4196.8
40°	546.8	546.8	556.6	586.2	734.2	2267.1	3990.7	4398.4
42.5°	512.8	510.6	521.6	557.7	707.9	2123.6	4171.5	4692.0
45°	479.9	475.6	485.4	530.3	661.8	2073.2	4509.0	5126.0
47.5°	449.3	438.3	447.1	497.5	620.2	2261.6	5061.3	5727.5
50°	424.1	403.2	410.9	464.6	588.4	2670.4	5777.9	6526.3
52.5°	397.8	370.4	374.7	424.1	559.9	3059.4	6554.8	7580.4
55°	370.4	339.7	341.9	383.5	519.4	3117.4	7313.1	9018.1
57.5°	339.7	311.2	311.2	346.3	489.8	2702.1	7896.0	10802.0
60°	305.7	287.1	281.6	316.7	516.1	1906.6	7964.0	11952.5
62.5°	268.5	258.6	250.9	288.2	535.8	1129.7	7417.2	11674.2
65°	225.7	223.5	218.1	316.7	451.5	667.3	6367.4	10820.6
67.5°	189.6	186.3	186.3	332.0	343.0	419.7	4974.7	9646.0
70°	163.3	151.2	151.2	250.9	208.2	290.4	3473.6	8378.2
72.5°	137.0	123.8	115.1	200.5	155.6	212.6	2170.7	7175.0
75°	109.6	99.7	88.8	132.6	116.2	161.1	1261.2	5944.5
77.5°	78.9	74.5	62.5	97.5	84.4	116.2	750.6	4586.8
80°	40.5	41.6	39.4	55.9	57.0	78.9	427.3	3139.3
82.5°	24.1	18.6	20.8	27.4	32.9	44.9	161.1	1845.3
85°	15.3	9.9	9.9	13.1	16.4	17.5	49.3	748.4
87.5°	7.7	3.3	4.4	6.6	5.5	4.4	2.2	188.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)