

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: P952191

Luminaire Tested: **GALN-SB6A-840-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952191
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-SB6A-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 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: 19858 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

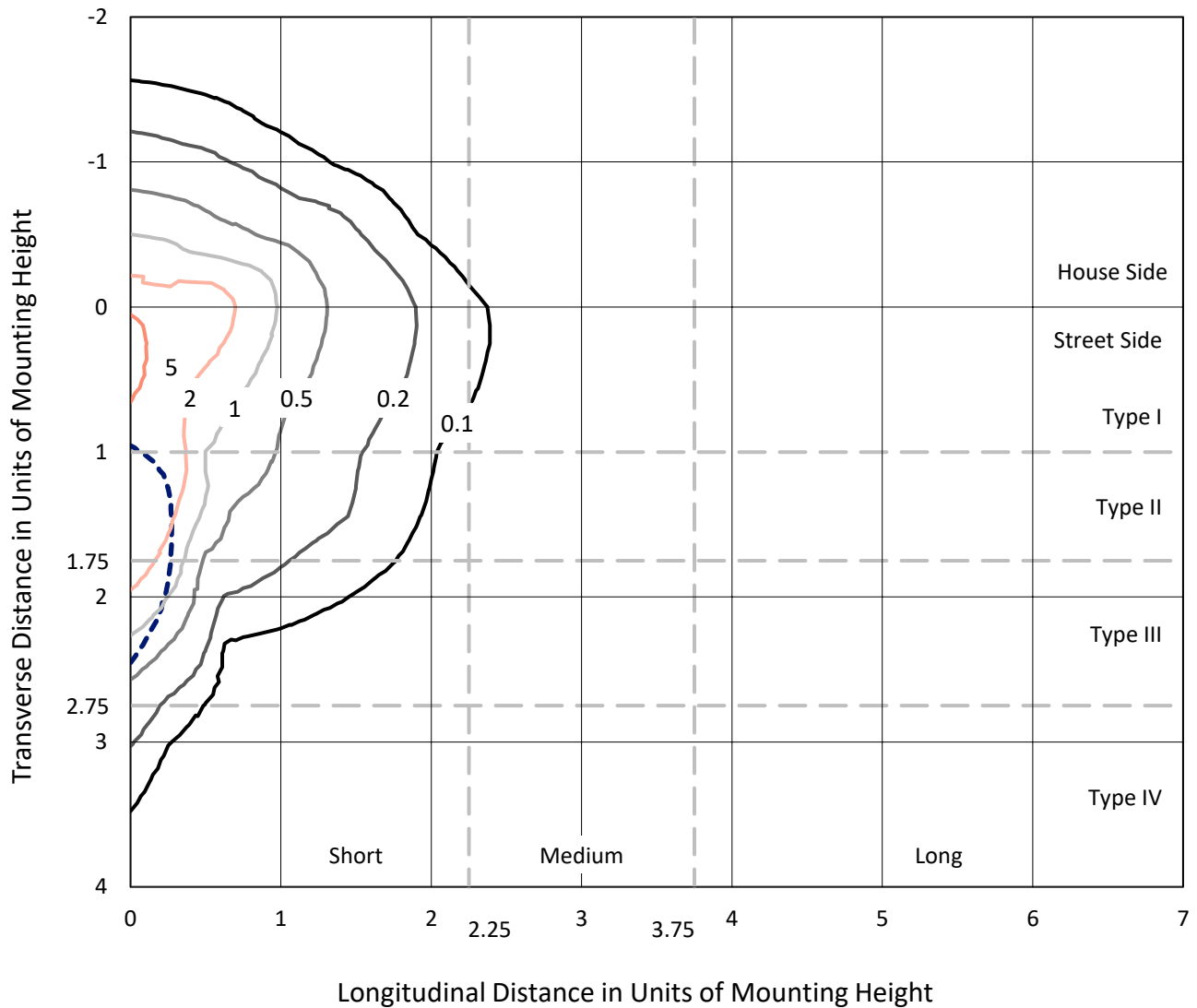
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

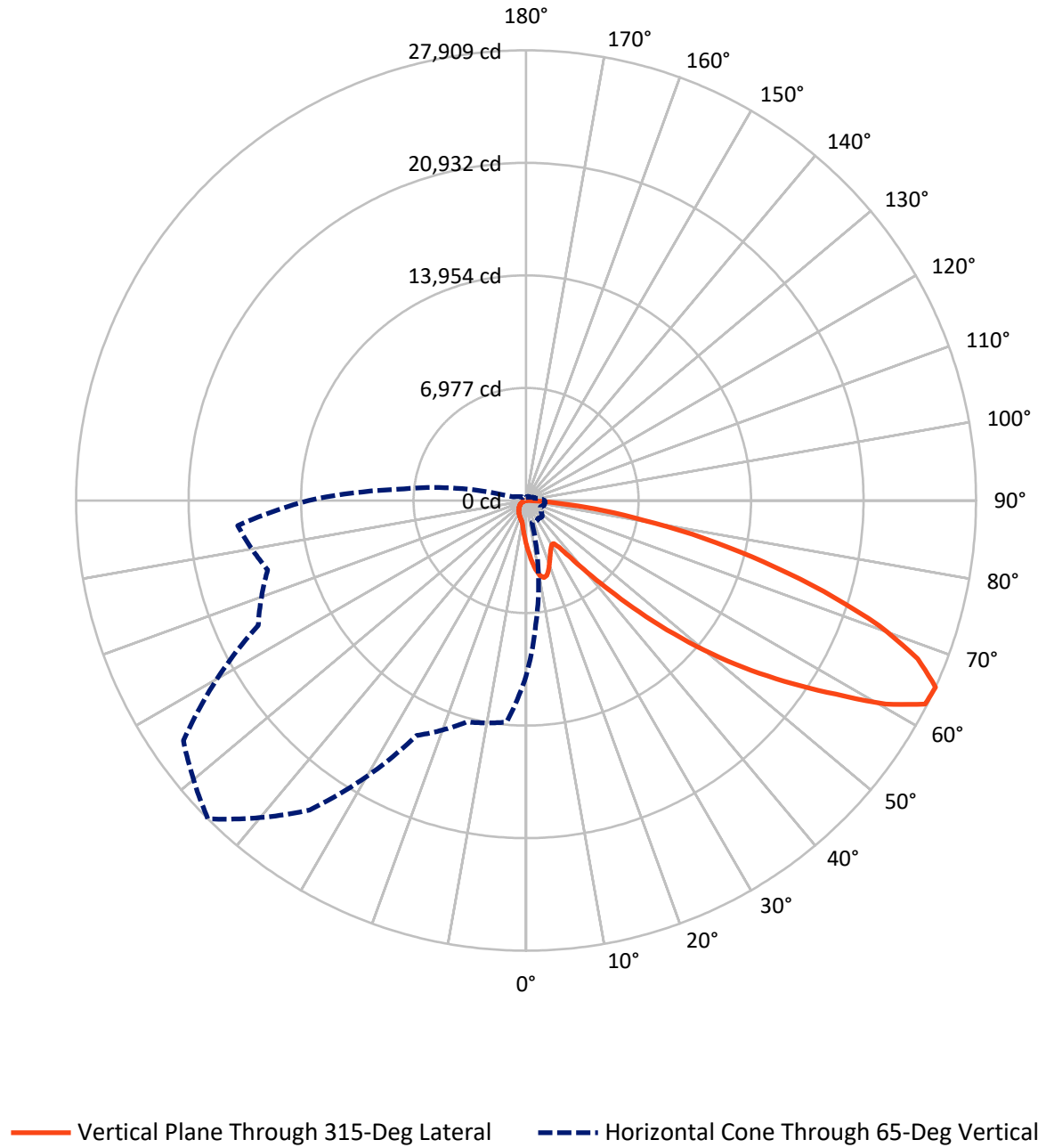
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P952191
CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.0	0.0	2781.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17077.0	0.0	17077.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	19858.0	0.0	19858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	1.4
10°-20°	811.5	4.1
20°-30°	1195.5	6.0
30°-40°	1536.0	7.7
40°-50°	2484.1	12.5
50°-60°	4356.1	21.9
60°-70°	5450.7	27.4
70°-80°	3185.1	16.0
80°-90°	568.3	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°	19858.0	100.0
0°-180°	19858.0	100.0

Coefficient of Utilization



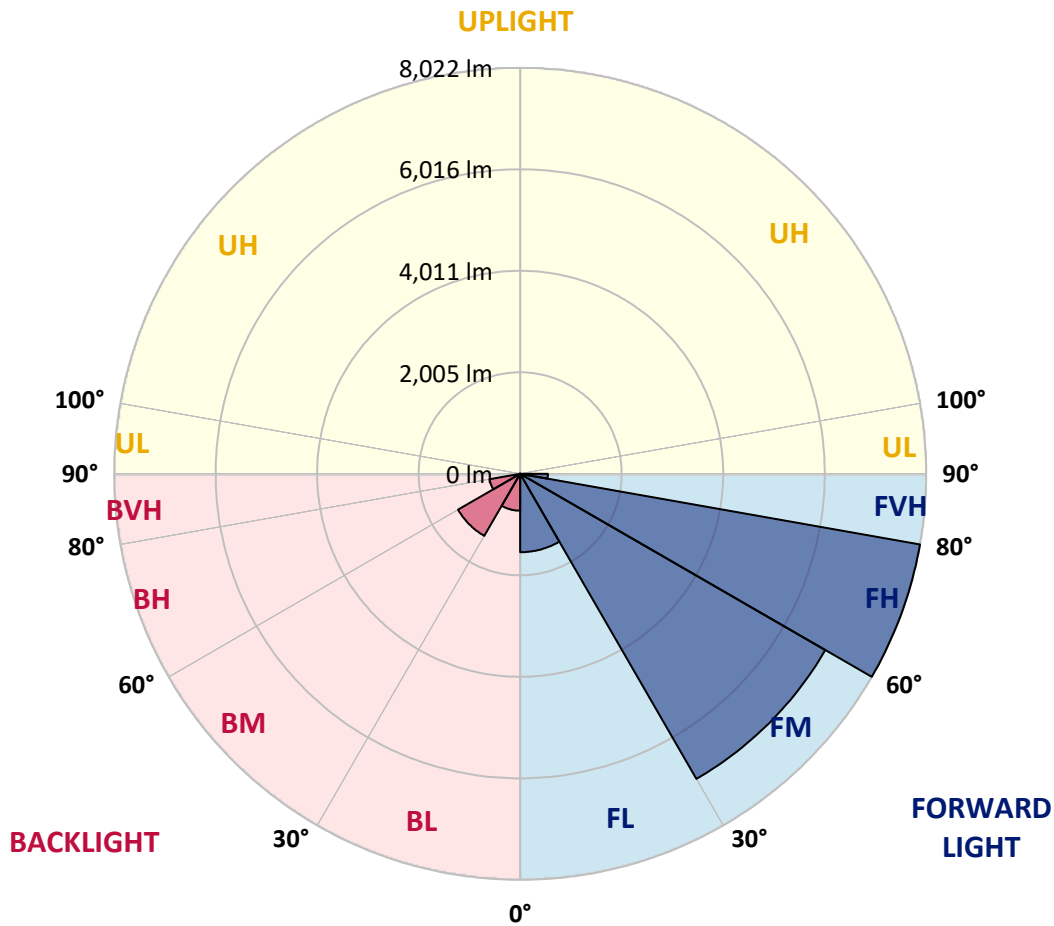
REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.9	7.8			
FM (30°-60°)	6960.0	35.0			
FH (60°-80°)	8021.7	40.4			G4/12000
FVH (80°-90°)	546.4	2.8			G4/750
BL (0°-30°)	728.9	3.7	B2/1000		
BM (30°-60°)	1416.1	7.1	B2/2500		
BH (60°-80°)	614.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	21.8	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



REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7
2.5°	3106.7	3053.4	3021.9	2944.0	2866.0	2803.0	2718.2	2662.1	2595.1	2530.8
5°	3462.4	3376.2	3272.3	3130.0	3000.0	2867.3	2738.8	2611.5	2477.5	2354.3
7.5°	3763.4	3638.9	3455.6	3266.8	3101.3	2941.2	2790.7	2622.5	2459.7	2266.8
10°	3993.2	3834.5	3593.8	3346.1	3156.0	2994.6	2848.2	2705.9	2541.8	2309.2
12.5°	4132.8	3963.1	3677.2	3387.2	3169.7	2989.1	2875.6	2812.6	2748.3	2517.1
15°	4235.4	4052.0	3736.0	3415.9	3138.2	2916.6	2833.1	2896.1	2969.9	2822.2
17.5°	4342.1	4149.2	3812.6	3428.2	3053.4	2775.7	2740.1	2902.9	3073.9	3067.1
20°	4443.3	4251.8	3879.7	3420.0	2916.6	2604.7	2636.2	2844.1	3042.5	3125.9
22.5°	4559.6	4357.1	3944.0	3388.6	2738.8	2444.6	2543.1	2751.1	2924.8	3023.3
25°	4701.8	4489.8	4034.3	3342.0	2547.2	2311.9	2448.7	2643.0	2783.9	2852.3
27.5°	4855.1	4648.5	4154.6	3317.4	2392.6	2217.5	2342.0	2514.4	2640.3	2688.1
30°	5045.2	4833.2	4296.9	3290.1	2291.4	2162.8	2231.2	2365.3	2488.4	2536.3
32.5°	5253.2	5038.4	4433.7	3224.4	2229.9	2121.8	2123.1	2208.0	2320.1	2377.6
35°	5513.1	5284.6	4580.1	3080.8	2180.6	2073.9	2017.8	2058.9	2151.9	2220.3
37.5°	5883.8	5607.5	4759.3	2875.6	2108.1	2000.0	1907.0	1916.6	1987.7	2063.0
40°	6395.4	6041.1	4970.0	2662.1	2004.1	1896.1	1785.3	1781.1	1833.1	1907.0
42.5°	7087.7	6614.3	5223.1	2458.3	1904.3	1770.2	1656.7	1649.8	1690.9	1755.2
45°	8001.5	7347.6	5533.6	2283.2	1826.3	1647.1	1534.9	1532.2	1566.4	1622.5
47.5°	9171.1	8366.7	5844.1	2164.2	1785.3	1550.0	1435.0	1440.5	1470.6	1521.2
50°	10685.5	9695.1	5938.5	2104.0	1785.3	1498.0	1346.1	1373.5	1398.1	1436.4
52.5°	12500.9	10970.1	5626.6	2049.3	1796.2	1504.8	1270.9	1329.7	1347.5	1380.3
55°	14183.5	11595.2	4837.3	1974.0	1798.9	1547.2	1206.6	1294.1	1327.0	1339.3
57.5°	15160.3	11380.5	3911.1	1846.8	1788.0	1575.9	1165.5	1250.4	1313.3	1321.5
60°	14974.2	10626.7	2879.7	1749.7	1707.3	1565.0	1153.2	1183.3	1283.2	1295.5
62.5°	13540.6	9362.7	1998.7	1674.4	1529.4	1517.1	1149.1	1078.0	1217.5	1247.6
65°	10883.9	7370.8	1411.8	1441.9	1340.6	1413.2	1127.2	968.6	1138.2	1179.2
67.5°	7896.1	4987.8	1019.2	1168.3	1214.8	1244.9	1078.0	889.2	1047.9	1102.6
70°	5067.1	2693.6	715.5	771.6	1023.3	1057.5	993.2	818.1	956.2	1019.2
72.5°	3602.0	1591.0	514.4	540.4	822.2	881.0	874.2	738.7	849.5	926.1
75°	2485.7	876.9	347.5	385.8	596.5	715.5	674.4	634.8	719.6	797.5
77.5°	1558.2	392.6	207.9	268.1	391.3	562.3	462.4	491.1	560.9	633.4
80°	867.3	151.8	116.3	177.8	213.4	409.0	255.8	316.0	413.1	465.1
82.5°	188.8	19.2	52.0	76.6	83.4	238.0	135.4	183.3	259.9	255.8
85°	0.0	0.0	9.6	10.9	5.5	102.6	49.2	60.2	84.8	79.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2749.7	0°	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7
2473.4	2.5°	2462.4	2395.4	2346.1	2321.5	2301.0	2320.1	2331.1	2331.1	2377.6	2405.0
2279.1	5°	2231.2	2110.8	2019.2	1957.6	1920.7	1933.0	1946.7	1961.7	2020.5	2060.2
2164.2	7.5°	2071.2	1886.5	1746.9	1660.8	1615.6	1622.5	1632.0	1644.3	1701.8	1741.5
2180.6	10°	2041.1	1775.7	1578.7	1465.1	1410.4	1400.8	1395.4	1391.3	1425.5	1455.6
2366.7	12.5°	2164.2	1781.1	1506.2	1368.0	1301.0	1272.2	1239.4	1213.4	1218.9	1238.0
2648.5	15°	2384.4	1850.9	1482.9	1317.4	1233.9	1186.1	1147.8	1116.3	1109.5	1116.3
2894.7	17.5°	2636.2	1945.3	1480.2	1273.6	1169.6	1120.4	1088.9	1060.2	1050.6	1052.0
3032.9	20°	2803.0	2020.5	1472.0	1224.4	1108.1	1064.3	1037.0	1008.2	998.6	1001.4
2994.6	22.5°	2819.5	2060.2	1459.7	1169.6	1046.5	1009.6	982.2	956.2	954.9	954.9
2850.9	25°	2730.5	2060.2	1433.7	1120.4	987.7	954.9	930.2	898.8	904.3	907.0
2688.1	27.5°	2592.4	2011.0	1384.4	1080.7	937.1	902.9	878.3	849.5	856.4	860.5
2536.3	30°	2455.6	1948.0	1325.6	1035.6	889.2	849.5	831.7	807.1	809.9	815.3
2385.8	32.5°	2328.4	1881.0	1255.8	998.6	841.3	801.7	788.0	760.6	764.7	770.2
2238.1	35°	2202.5	1807.1	1173.8	954.9	797.5	757.9	746.9	715.5	718.2	726.4
2090.3	37.5°	2067.1	1729.2	1106.7	911.1	755.1	714.1	703.2	670.3	673.1	682.6
1937.1	40°	1924.8	1652.6	1041.1	864.6	710.0	669.0	659.4	623.8	626.5	637.5
1786.6	42.5°	1781.1	1569.1	990.4	804.4	663.5	619.7	610.1	577.3	581.4	593.7
1655.3	45°	1648.5	1469.2	957.6	737.4	619.7	570.5	560.9	530.8	539.0	552.7
1544.5	47.5°	1534.9	1366.6	943.9	681.3	573.2	519.8	511.6	487.0	500.7	515.7
1450.1	50°	1437.8	1268.1	926.1	623.8	529.4	476.1	467.9	451.4	469.2	484.3
1385.8	52.5°	1368.0	1156.0	887.8	571.8	491.1	439.1	436.4	428.2	444.6	458.3
1337.9	55°	1307.8	1039.7	826.3	526.7	456.9	407.7	410.4	406.3	420.0	430.9
1309.2	57.5°	1253.1	938.5	748.3	491.1	420.0	380.3	388.5	383.0	389.9	396.7
1279.1	60°	1187.4	835.9	655.3	451.4	376.2	352.9	362.5	347.5	346.1	348.8
1224.4	62.5°	1090.3	697.7	558.1	402.2	337.9	322.9	327.0	298.2	276.3	276.3
1143.7	65°	954.9	560.9	467.9	347.5	294.1	281.8	279.1	238.0	207.9	205.2
1056.1	67.5°	797.5	461.0	388.5	292.8	244.9	236.7	239.4	209.3	179.2	176.5
968.6	70°	649.8	381.7	313.3	233.9	188.8	197.0	209.3	179.2	150.5	146.4
865.9	72.5°	528.1	303.7	244.9	179.2	139.5	162.8	177.8	146.4	119.0	116.3
738.7	75°	407.7	223.0	175.1	121.8	101.2	125.9	139.5	106.7	84.8	80.7
571.8	77.5°	272.2	138.2	98.5	76.6	60.2	86.2	93.0	56.1	49.2	47.9
415.9	80°	165.5	64.3	42.4	36.9	20.5	31.5	36.9	23.3	26.0	27.4
221.6	82.5°	83.4	17.8	6.8	1.4	0.0	0.0	10.9	5.5	10.9	13.7
60.2	85°	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.8
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

REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2749.7	0°	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7
2415.9	2.5°	2492.5	2550.0	2604.7	2692.2	2782.5	2871.5	2961.7	3049.3	3080.8	3104.0
2086.2	5°	2205.2	2313.3	2439.2	2612.9	2798.9	2990.5	3184.7	3362.6	3443.3	3498.0
1775.7	7.5°	1908.4	2049.3	2229.9	2491.1	2782.5	3087.6	3392.7	3673.1	3803.1	3908.4
1482.9	10°	1614.3	1767.5	1995.9	2294.2	2688.1	3125.9	3547.2	3933.0	4101.3	4234.0
1272.2	12.5°	1355.7	1499.3	1738.7	2068.4	2540.4	3095.8	3636.2	4099.9	4298.3	4447.4
1121.8	15°	1173.8	1275.0	1487.0	1842.7	2365.3	2998.7	3641.6	4179.3	4396.8	4552.7
1058.8	17.5°	1072.5	1106.7	1244.9	1612.9	2171.0	2871.5	3591.0	4206.6	4439.2	4584.2
1002.8	20°	1017.8	1023.3	1061.6	1314.7	1922.1	2752.4	3543.1	4234.0	4478.9	4600.6
963.1	22.5°	974.0	974.0	983.6	1075.3	1600.6	2610.2	3528.1	4281.9	4533.6	4608.8
917.9	25°	934.3	934.3	937.1	961.7	1268.1	2392.6	3518.5	4355.7	4608.8	4629.3
872.8	27.5°	893.3	894.7	894.7	908.4	1021.9	2097.2	3477.5	4451.5	4699.1	4656.7
829.0	30°	852.3	855.0	855.0	864.6	904.3	1751.1	3396.8	4566.4	4816.8	4692.3
785.2	32.5°	811.2	814.0	814.0	822.2	850.9	1398.1	3295.5	4671.7	4935.8	4707.3
742.8	35°	768.8	772.9	770.2	781.1	811.2	1112.2	3166.9	4777.1	5064.4	4755.2
701.8	37.5°	726.4	729.1	727.8	738.7	772.9	960.3	3017.8	4856.4	5239.5	4861.9
658.0	40°	684.0	682.6	682.6	694.9	731.9	916.6	2830.4	4982.3	5491.2	5049.3
614.2	42.5°	640.2	640.2	637.5	651.2	696.3	883.7	2651.2	5208.0	5857.8	5347.5
573.2	45°	600.6	599.2	593.7	606.0	662.1	826.3	2588.3	5629.4	6399.5	5830.5
532.2	47.5°	562.3	560.9	547.2	558.1	621.1	774.3	2823.6	6318.8	7150.6	6540.4
499.3	50°	528.1	529.4	503.4	513.0	580.0	734.6	3333.8	7213.5	8147.9	7496.7
472.0	52.5°	496.6	496.6	462.4	467.9	529.4	699.1	3819.5	8183.4	9463.9	8830.5
443.2	55°	465.1	462.4	424.1	426.8	478.8	648.4	3892.0	9130.1	11258.7	10837.4
411.8	57.5°	429.6	424.1	388.5	388.5	432.3	611.5	3373.5	9857.9	13485.8	13786.8
352.9	60°	385.8	381.7	358.4	351.6	395.4	644.3	2380.3	9942.7	14922.2	17708.9
280.4	62.5°	329.7	335.2	322.9	313.3	359.8	669.0	1410.4	9260.1	14574.8	18956.5
217.5	65°	259.9	281.8	279.1	272.2	395.4	563.6	833.1	7949.5	13509.1	17949.6
190.2	67.5°	221.6	236.7	232.6	232.6	414.5	428.2	523.9	6210.8	12042.6	16755.4
158.7	70°	188.8	203.8	188.8	188.8	313.3	259.9	362.5	4336.6	10459.8	15433.9
127.2	72.5°	156.0	171.0	154.6	143.6	250.3	194.3	265.4	2710.0	8957.7	14057.7
90.3	75°	119.0	136.8	124.5	110.8	165.5	145.0	201.1	1574.6	7421.4	12027.5
54.7	77.5°	75.2	98.5	93.0	78.0	121.8	105.3	145.0	937.1	5726.5	9398.2
32.8	80°	46.5	50.6	52.0	49.2	69.8	71.1	98.5	533.5	3919.3	6550.0
20.5	82.5°	30.1	30.1	23.3	26.0	34.2	41.0	56.1	201.1	2303.7	3987.7
12.3	85°	21.9	19.2	12.3	12.3	16.4	20.5	21.9	61.6	934.3	1574.6
5.5	87.5°	10.9	9.6	4.1	5.5	8.2	6.8	5.5	2.7	235.3	503.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952191
 CATALOG NUMBER: GALN-SB6A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2749.7	0°	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7	2749.7
3156.0	2.5°	3183.4	3225.8	3228.5	3228.5	3191.6	3190.2	3115.0	3106.7
3621.1	5°	3748.3	3775.7	3782.5	3768.9	3695.0	3640.3	3493.9	3462.4
4095.8	7.5°	4265.5	4320.2	4320.2	4287.3	4167.0	4054.8	3842.7	3763.4
4488.4	10°	4678.6	4741.5	4727.8	4660.8	4509.0	4354.4	4097.2	3993.2
4726.5	12.5°	4879.7	4944.0	4908.4	4831.8	4684.1	4521.3	4250.4	4132.8
4794.9	15°	4875.6	4857.8	4820.9	4811.3	4740.2	4617.0	4363.9	4235.4
4752.5	17.5°	4701.8	4551.4	4522.6	4618.4	4708.7	4678.6	4462.4	4342.1
4651.2	20°	4426.9	4164.2	4138.2	4321.5	4578.7	4710.1	4554.1	4443.3
4504.9	22.5°	4136.9	3853.7	3793.5	3996.0	4383.1	4719.6	4670.4	4559.6
4343.4	25°	3861.9	3577.3	3517.2	3705.9	4165.6	4703.2	4796.2	4701.8
4188.8	27.5°	3632.1	3357.1	3301.0	3489.8	3956.3	4656.7	4922.1	4855.1
4035.6	30°	3454.2	3199.8	3158.7	3340.7	3775.7	4599.2	5082.2	5045.2
3893.4	32.5°	3350.3	3164.2	3179.3	3328.4	3678.6	4536.3	5235.4	5253.2
3823.6	35°	3452.9	3461.1	3592.4	3654.0	3768.9	4526.7	5443.3	5513.1
3907.0	37.5°	3963.1	4247.7	4519.9	4469.3	4210.7	4637.5	5753.8	5883.8
4270.9	40°	4831.8	5415.9	5857.8	5664.9	5013.8	4976.8	6201.2	6395.4
4916.6	42.5°	5893.4	6883.8	7611.6	7094.5	6049.3	5570.5	6840.0	7087.7
5697.8	45°	7013.8	8693.7	9840.1	8764.8	7153.3	6402.3	7807.2	8001.5
6429.6	47.5°	8194.4	10893.5	12376.4	10617.1	8176.6	7348.9	9126.0	9171.1
7123.2	50°	9485.8	13305.3	14961.9	12468.0	9164.3	8433.8	10737.5	10685.5
7931.7	52.5°	10715.6	15785.5	17492.7	14327.2	10031.6	9779.9	12607.6	12500.9
9037.1	55°	11889.4	18264.3	20038.6	16113.8	10849.7	11558.3	14829.2	14183.5
10630.8	57.5°	13250.5	20492.8	22662.4	17908.6	11993.3	13867.5	17313.5	15160.3
13682.8	60°	15262.9	23025.0	25629.6	20368.3	14168.5	16294.4	18204.1	14974.2
17338.1	62.5°	17832.0	25353.3	27787.0	22778.7	16353.2	16751.3	16892.2	13540.6
16592.6	65°	18331.3	25942.9	27908.7	23423.0	16071.4	14209.5	13790.9	10883.9
14821.0	67.5°	17007.1	24877.2	26206.9	22223.3	14216.3	10981.0	10349.0	7896.1
13658.2	70°	15521.4	22845.7	23241.1	20183.6	12503.6	8076.7	6989.2	5067.1
12862.0	72.5°	13998.8	20135.7	19317.7	17528.3	10989.2	5881.1	5041.1	3602.0
11727.9	75°	12190.3	16572.1	15216.4	14563.8	9098.6	4615.7	3647.1	2485.7
10087.7	77.5°	9762.1	11665.0	11302.5	11288.8	6837.3	3372.1	2433.7	1558.2
7881.1	80°	6886.6	7570.6	7385.9	8502.2	4586.9	2446.0	1465.1	867.3
5485.7	82.5°	3333.8	4186.1	4296.9	5063.0	2231.2	1439.1	337.9	188.8
2145.0	85°	1305.1	2019.2	1703.2	1922.1	626.5	400.8	8.2	0.0
352.9	87.5°	146.4	233.9	214.8	169.6	76.6	16.4	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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