

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: P950719

Luminaire Tested: **GALN-SB5A-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950719
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 15539 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

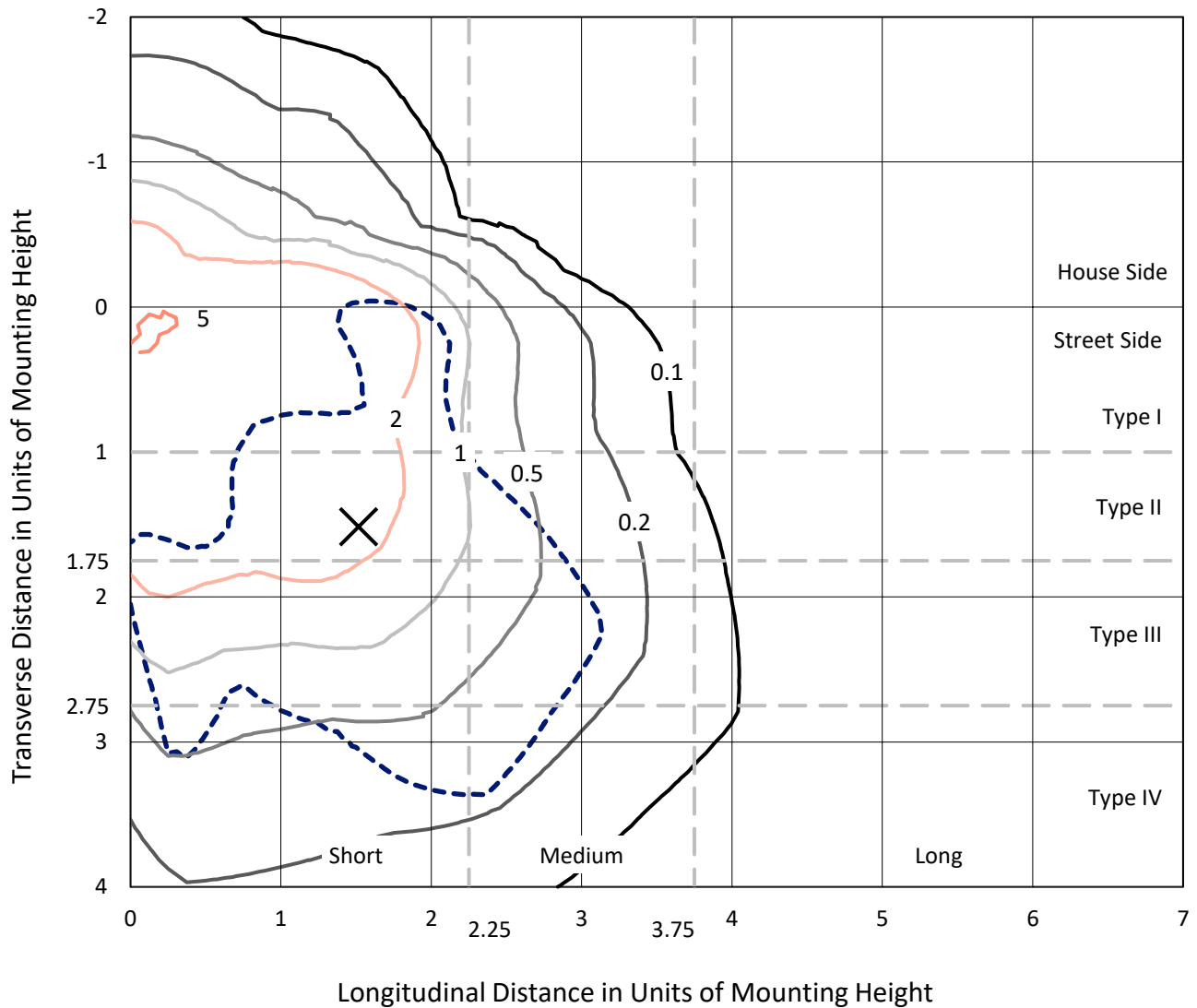
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950719
 CATALOG NUMBER: GALN-SB5A-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

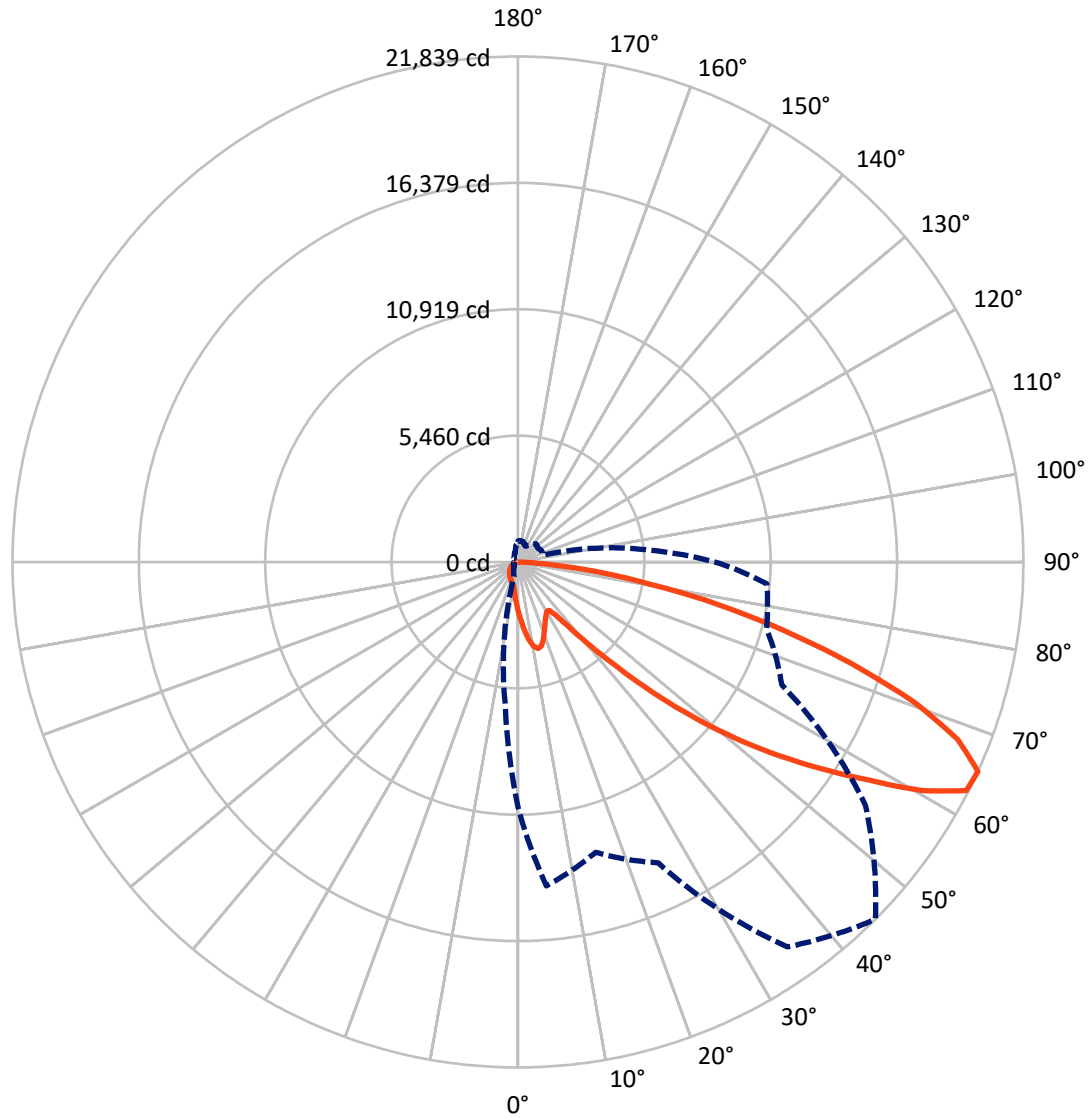
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P950719
CATALOG NUMBER: GALN-SB5A-830-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P950719
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.7	0.0	3088.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	12450.3	0.0	12450.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	15539.0	0.0	15539.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.4
10°-20°	635.0	4.1
20°-30°	935.5	6.0
30°-40°	1201.9	7.7
40°-50°	1943.8	12.5
50°-60°	3408.7	21.9
60°-70°	4265.2	27.4
70°-80°	2492.4	16.0
80°-90°	444.7	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°	15539.0	100.0
0°-180°	15539.0	100.0



REPORT NUMBER: P950719

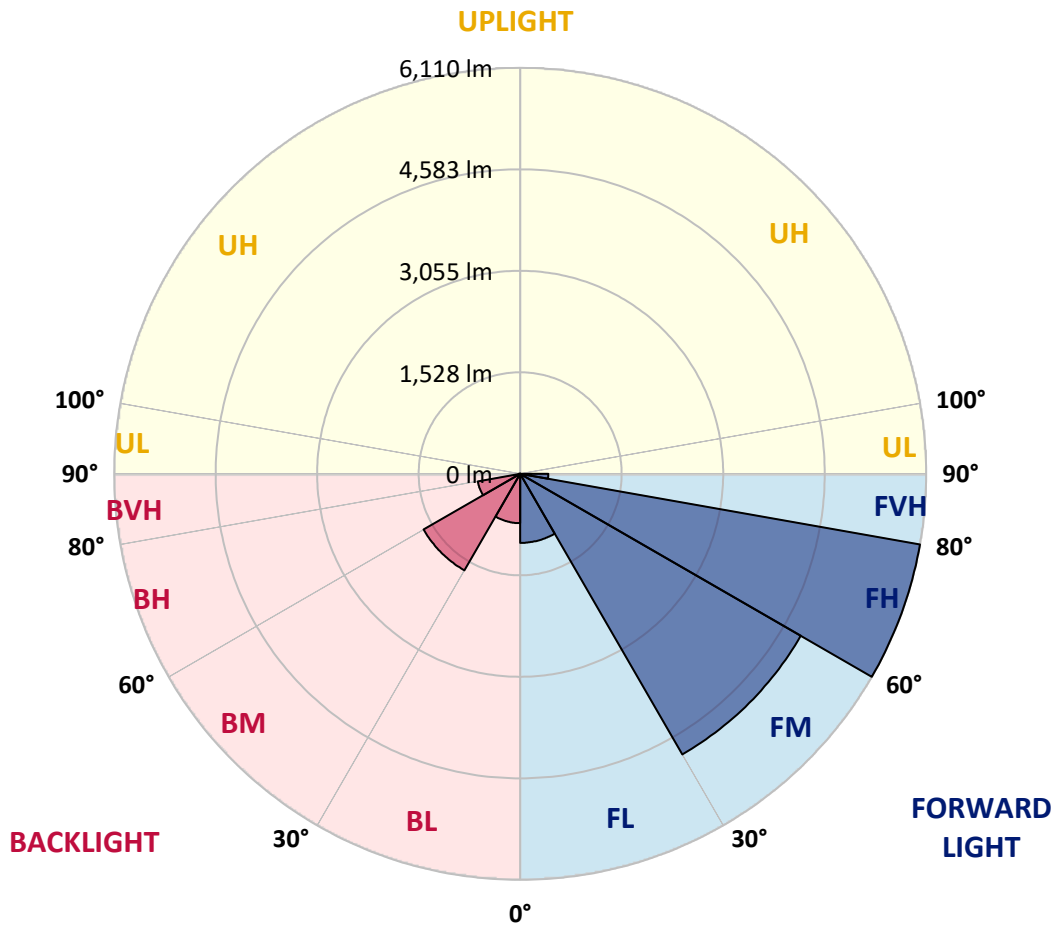
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.7	6.7			
FM (30°-60°)	4876.3	31.4			
FH (60°-80°)	6110.4	39.3			G3/7500
FVH (80°-90°)	423.8	2.7			G3/500
BL (0°-30°)	742.6	4.8	B2/1000		
BM (30°-60°)	1678.1	10.8	B2/2500		
BH (60°-80°)	647.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	20.8	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-G3

Type IV Short



REPORT NUMBER: P950719
 CATALOG NUMBER: GALN-SB5A-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
2.5°	2410.7	2428.9	2469.6	2491.0	2524.2	2526.3	2526.3	2497.4	2496.3	2437.5
5°	2694.4	2737.2	2833.5	2933.1	2954.5	2959.9	2949.2	2891.4	2848.5	2734.0
7.5°	2975.9	3058.3	3205.0	3337.7	3380.6	3380.6	3354.9	3260.7	3172.9	3007.0
10°	3209.3	3313.1	3512.2	3661.0	3710.3	3699.6	3647.1	3528.3	3407.3	3206.1
12.5°	3363.4	3480.1	3698.5	3818.4	3868.7	3840.9	3780.9	3665.3	3537.9	3326.0
15°	3440.5	3562.5	3752.0	3815.2	3801.3	3772.4	3764.9	3709.2	3612.9	3414.8
17.5°	3473.7	3587.2	3718.8	3679.2	3561.5	3539.0	3613.9	3684.6	3661.0	3491.9
20°	3504.7	3600.0	3639.6	3464.1	3258.5	3238.2	3381.6	3582.9	3685.6	3563.6
22.5°	3547.6	3606.4	3525.1	3237.1	3015.5	2968.4	3126.9	3429.8	3693.1	3654.6
25°	3606.4	3622.5	3398.8	3022.0	2799.3	2752.2	2899.9	3259.6	3680.3	3753.1
27.5°	3677.1	3643.9	3277.8	2842.1	2626.9	2583.1	2730.8	3095.8	3643.9	3851.6
30°	3769.1	3671.7	3157.9	2702.9	2503.8	2471.7	2614.1	2954.5	3598.9	3976.8
32.5°	3862.3	3683.5	3046.6	2621.6	2476.0	2487.8	2604.5	2878.5	3549.7	4096.7
35°	3962.9	3721.0	2992.0	2701.9	2708.3	2811.1	2859.2	2949.2	3542.2	4259.4
37.5°	4099.9	3804.5	3057.3	3101.2	3323.8	3536.8	3497.2	3294.9	3628.9	4502.4
40°	4296.9	3951.1	3342.0	3780.9	4238.0	4583.8	4432.8	3923.3	3894.4	4852.5
42.5°	4583.8	4184.5	3847.3	4611.6	5386.6	5956.1	5551.5	4733.6	4359.0	5352.4
45°	5007.7	4562.4	4458.5	5488.3	6802.9	7699.9	6858.5	5597.5	5009.8	6109.2
47.5°	5595.4	5117.9	5031.2	6412.1	8524.2	9684.6	8308.0	6398.2	5750.6	7141.1
50°	6375.7	5866.2	5574.0	7422.7	10411.4	11707.8	9756.3	7171.1	6599.5	8402.2
52.5°	7405.5	6909.9	6206.6	8385.0	12352.2	13688.2	11211.1	7849.8	7652.8	9865.5
55°	8810.0	8480.3	7071.6	9303.5	14291.9	15680.3	12609.1	8489.9	9044.4	11603.9
57.5°	10552.7	10788.2	8318.7	10368.6	16035.7	17733.5	14013.6	9384.9	10851.4	13547.9
60°	11676.7	13857.3	10706.9	11943.3	18017.2	20055.3	15938.3	11086.9	12750.4	14244.8
62.5°	11404.8	14833.6	13567.2	13953.6	19839.1	21743.5	17824.5	12796.5	13108.0	13218.2
65°	10570.9	14045.7	12983.8	14344.4	20300.5	21838.8	18328.7	12575.9	11119.0	10791.5
67.5°	9423.4	13111.2	11597.5	13308.1	19466.6	20507.1	17389.9	11124.4	8592.7	8098.1
70°	8184.9	12077.1	10687.6	12145.6	17876.9	18186.3	15793.8	9784.1	6320.1	5469.1
72.5°	7009.5	11000.2	10064.6	10954.2	15756.3	15116.2	13716.0	8599.1	4602.0	3944.7
75°	5807.3	9411.6	9177.2	9539.0	12967.7	11906.9	11396.3	7119.7	3611.8	2853.9
77.5°	4481.0	7354.2	7893.7	7638.9	9127.9	8844.3	8833.6	5350.2	2638.7	1904.4
80°	3066.9	5125.4	6167.0	5388.8	5924.0	5779.5	6653.0	3589.3	1914.0	1146.5
82.5°	1802.7	3120.4	4292.6	2608.7	3275.7	3362.4	3961.8	1745.9	1126.1	264.4
85°	731.1	1232.1	1678.5	1021.2	1580.0	1332.7	1504.0	490.3	313.6	6.4
87.5°	184.1	393.9	276.2	114.5	183.1	168.1	132.7	59.9	12.8	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: P950719
 CATALOG NUMBER: GALN-SB5A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2151.7	0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
2431.0	2.5°	2389.3	2364.7	2303.7	2242.6	2193.4	2127.0	2083.1	2030.7	1980.4	1935.4
2709.4	5°	2641.9	2560.6	2449.2	2347.6	2243.7	2143.1	2043.5	1938.6	1842.3	1783.4
2944.9	7.5°	2847.5	2704.0	2556.3	2426.8	2301.5	2183.8	2052.1	1924.7	1773.8	1693.5
3124.7	10°	3000.5	2812.1	2618.4	2469.6	2343.3	2228.7	2117.4	1988.9	1807.0	1706.3
3233.9	12.5°	3101.2	2877.4	2650.5	2480.3	2339.0	2250.1	2200.9	2150.6	1969.7	1851.9
3314.2	15°	3170.7	2923.5	2673.0	2455.7	2282.3	2217.0	2266.2	2324.0	2208.4	2072.4
3397.7	17.5°	3246.7	2983.4	2682.6	2389.3	2172.0	2144.2	2271.5	2405.4	2400.0	2265.1
3476.9	20°	3327.0	3035.9	2676.2	2282.3	2038.2	2062.8	2225.5	2380.7	2446.0	2373.2
3567.9	22.5°	3409.5	3086.2	2651.6	2143.1	1912.9	1990.0	2152.7	2288.7	2365.7	2343.3
3679.2	25°	3513.3	3156.8	2615.2	1993.2	1809.1	1916.1	2068.2	2178.4	2231.9	2230.9
3799.1	27.5°	3637.5	3251.0	2595.9	1872.3	1735.2	1832.7	1967.5	2066.0	2103.5	2103.5
3947.9	30°	3782.0	3362.4	2574.5	1793.0	1692.4	1745.9	1850.9	1947.2	1984.7	1984.7
4110.6	32.5°	3942.6	3469.4	2523.1	1744.9	1660.3	1661.4	1727.7	1815.5	1860.5	1866.9
4314.0	35°	4135.2	3583.9	2410.7	1706.3	1622.8	1579.0	1611.1	1683.9	1737.4	1751.3
4604.1	37.5°	4387.9	3724.2	2250.1	1649.6	1565.0	1492.2	1499.7	1555.4	1614.3	1635.7
5004.5	40°	4727.2	3889.0	2083.1	1568.2	1483.7	1397.0	1393.8	1434.4	1492.2	1515.8
5546.1	42.5°	5175.7	4087.1	1923.6	1490.1	1385.2	1296.3	1291.0	1323.1	1373.4	1398.0
6261.2	45°	5749.5	4330.1	1786.6	1429.1	1288.9	1201.1	1198.9	1225.7	1269.6	1295.3
7176.5	47.5°	6547.0	4573.1	1693.5	1397.0	1212.8	1122.9	1127.2	1150.8	1190.4	1208.6
8361.5	50°	7586.5	4646.9	1646.4	1397.0	1172.2	1053.3	1074.8	1094.0	1124.0	1134.7
9782.0	52.5°	8584.1	4402.9	1603.6	1405.5	1177.5	994.5	1040.5	1054.4	1080.1	1084.4
11098.7	55°	9073.3	3785.2	1544.7	1407.7	1210.7	944.2	1012.7	1038.4	1048.0	1046.9
11863.0	57.5°	8905.3	3060.5	1445.1	1399.1	1233.2	912.0	978.4	1027.7	1034.1	1024.4
11717.4	60°	8315.4	2253.3	1369.1	1336.0	1224.6	902.4	926.0	1004.1	1013.7	1000.9
10595.6	62.5°	7326.3	1564.0	1310.3	1196.8	1187.2	899.2	843.5	952.7	976.3	958.1
8516.7	65°	5767.7	1104.7	1128.3	1049.1	1105.8	882.1	757.9	890.6	922.7	894.9
6178.8	67.5°	3903.0	797.5	914.2	950.6	974.1	843.5	695.8	820.0	862.8	826.4
3965.0	70°	2107.8	559.9	603.7	800.7	827.5	777.2	640.1	748.3	797.5	757.9
2818.6	72.5°	1245.0	402.5	422.8	643.4	689.4	684.0	578.1	664.8	724.7	677.6
1945.1	75°	686.2	271.9	301.9	466.7	559.9	527.7	496.7	563.1	624.1	578.1
1219.3	77.5°	307.2	162.7	209.8	306.2	440.0	361.8	384.3	438.9	495.6	447.5
678.7	80°	118.8	91.0	139.2	167.0	320.1	200.2	247.3	323.3	364.0	325.4
147.7	82.5°	15.0	40.7	59.9	65.3	186.3	106.0	143.4	203.4	200.2	173.4
0.0	85°	0.0	7.5	8.6	4.3	80.3	38.5	47.1	66.4	62.1	47.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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

REPORT NUMBER: P950719
 CATALOG NUMBER: GALN-SB5A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2151.7	0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
1926.9	2.5°	1874.4	1835.9	1816.6	1800.5	1815.5	1824.1	1824.1	1860.5	1881.9	1890.5
1745.9	5°	1651.7	1580.0	1531.8	1502.9	1512.6	1523.3	1535.1	1581.1	1612.1	1632.5
1620.7	7.5°	1476.2	1367.0	1299.6	1264.2	1269.6	1277.1	1286.7	1331.7	1362.7	1389.5
1597.1	10°	1389.5	1235.3	1146.5	1103.7	1096.2	1091.9	1088.7	1115.4	1139.0	1160.4
1693.5	12.5°	1393.8	1178.6	1070.5	1018.0	995.5	969.9	949.5	953.8	968.8	995.5
1865.8	15°	1448.4	1160.4	1030.9	965.6	928.1	898.1	873.5	868.2	873.5	877.8
2062.8	17.5°	1522.2	1158.3	996.6	915.3	876.7	852.1	829.6	822.1	823.2	828.5
2193.4	20°	1581.1	1151.8	958.1	867.1	832.8	811.4	788.9	781.4	783.6	784.7
2206.2	22.5°	1612.1	1142.2	915.3	818.9	790.0	768.6	748.3	747.2	747.2	753.6
2136.7	25°	1612.1	1121.9	876.7	772.9	747.2	727.9	703.3	707.6	709.7	718.3
2028.5	27.5°	1573.6	1083.3	845.7	733.3	706.5	687.2	664.8	670.1	673.3	683.0
1921.5	30°	1524.4	1037.3	810.3	695.8	664.8	650.8	631.6	633.7	638.0	648.7
1821.9	32.5°	1471.9	982.7	781.4	658.3	627.3	616.6	595.2	598.4	602.7	614.5
1723.5	35°	1414.1	918.5	747.2	624.1	593.0	584.5	559.9	562.0	568.4	581.3
1617.5	37.5°	1353.1	866.0	712.9	590.9	558.8	550.2	524.5	526.7	534.2	549.2
1506.2	40°	1293.1	814.6	676.5	555.6	523.5	516.0	488.1	490.3	498.8	514.9
1393.8	42.5°	1227.8	775.0	629.4	519.2	484.9	477.4	451.7	455.0	464.6	480.6
1289.9	45°	1149.7	749.3	577.0	484.9	446.4	438.9	415.3	421.8	432.5	448.5
1201.1	47.5°	1069.4	738.6	533.1	448.5	406.8	400.4	381.1	391.8	403.6	416.4
1125.1	50°	992.3	724.7	488.1	414.3	372.5	366.1	353.3	367.2	378.9	390.7
1070.5	52.5°	904.6	694.7	447.5	384.3	343.6	341.5	335.1	347.9	358.6	369.3
1023.4	55°	813.6	646.6	412.1	357.5	319.0	321.1	317.9	328.6	337.2	346.8
980.6	57.5°	734.3	585.5	384.3	328.6	297.6	304.0	299.7	305.1	310.4	322.2
929.2	60°	654.1	512.8	353.3	294.4	276.2	283.7	271.9	270.8	273.0	276.2
853.2	62.5°	545.9	436.8	314.7	264.4	252.6	255.8	233.4	216.2	216.2	219.4
747.2	65°	438.9	366.1	271.9	230.2	220.5	218.4	186.3	162.7	160.6	170.2
624.1	67.5°	360.7	304.0	229.1	191.6	185.2	187.3	163.8	140.2	138.1	148.8
508.5	70°	298.7	245.1	183.1	147.7	154.1	163.8	140.2	117.8	114.5	124.2
413.2	72.5°	237.6	191.6	140.2	109.2	127.4	139.2	114.5	93.1	91.0	99.6
319.0	75°	174.5	137.0	95.3	79.2	98.5	109.2	83.5	66.4	63.2	70.7
213.0	77.5°	108.1	77.1	59.9	47.1	67.4	72.8	43.9	38.5	37.5	42.8
129.5	80°	50.3	33.2	28.9	16.1	24.6	28.9	18.2	20.3	21.4	25.7
65.3	82.5°	13.9	5.4	1.1	0.0	0.0	8.6	4.3	8.6	10.7	16.1
5.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.4	9.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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: P950719
 CATALOG NUMBER: GALN-SB5A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2151.7	0°	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7	2151.7
1950.4	2.5°	1995.4	2038.2	2106.7	2177.3	2246.9	2317.6	2386.1	2410.7
1725.6	5°	1810.2	1908.7	2044.6	2190.2	2340.1	2492.1	2631.2	2694.4
1493.3	7.5°	1603.6	1744.9	1949.3	2177.3	2416.1	2654.8	2874.2	2975.9
1263.2	10°	1383.1	1561.8	1795.2	2103.5	2446.0	2775.7	3077.6	3209.3
1060.8	12.5°	1173.2	1360.6	1618.6	1987.9	2422.5	2845.3	3208.2	3363.4
918.5	15°	997.7	1163.6	1441.9	1850.9	2346.5	2849.6	3270.3	3440.5
839.3	17.5°	866.0	974.1	1262.1	1698.8	2246.9	2810.0	3291.7	3473.7
796.4	20°	800.7	830.7	1028.7	1504.0	2153.8	2772.5	3313.1	3504.7
762.2	22.5°	762.2	769.7	841.4	1252.5	2042.5	2760.8	3350.6	3547.6
731.1	25°	731.1	733.3	752.5	992.3	1872.3	2753.3	3408.4	3606.4
699.0	27.5°	700.1	700.1	710.8	799.6	1641.0	2721.1	3483.3	3677.1
666.9	30°	669.0	669.0	676.5	707.6	1370.2	2658.0	3573.2	3769.1
634.8	32.5°	636.9	636.9	643.4	665.8	1094.0	2578.8	3655.7	3862.3
601.6	35°	604.8	602.7	611.2	634.8	870.3	2478.1	3738.1	3962.9
568.4	37.5°	570.6	569.5	578.1	604.8	751.5	2361.5	3800.2	4099.9
535.2	40°	534.2	534.2	543.8	572.7	717.2	2214.8	3898.7	4296.9
501.0	42.5°	501.0	498.8	509.5	544.9	691.5	2074.6	4075.3	4583.8
469.9	45°	468.9	464.6	474.2	518.1	646.6	2025.3	4405.0	5007.7
440.0	47.5°	438.9	428.2	436.8	486.0	605.9	2209.5	4944.5	5595.4
413.2	50°	414.3	393.9	401.4	453.9	574.8	2608.7	5644.6	6375.7
388.6	52.5°	388.6	361.8	366.1	414.3	547.0	2988.8	6403.6	7405.5
364.0	55°	361.8	331.8	334.0	374.7	507.4	3045.5	7144.3	8810.0
336.1	57.5°	331.8	304.0	304.0	338.3	478.5	2639.8	7713.8	10552.7
301.9	60°	298.7	280.5	275.1	309.4	504.2	1862.6	7780.2	11676.7
258.0	62.5°	262.3	252.6	245.1	281.5	523.5	1103.7	7246.0	11404.8
203.4	65°	220.5	218.4	213.0	309.4	441.0	651.9	6220.5	10570.9
173.4	67.5°	185.2	182.0	182.0	324.4	335.1	410.0	4860.0	9423.4
147.7	70°	159.5	147.7	147.7	245.1	203.4	283.7	3393.4	8184.9
122.0	72.5°	133.8	121.0	112.4	195.9	152.0	207.7	2120.6	7009.5
93.1	75°	107.0	97.4	86.7	129.5	113.5	157.4	1232.1	5807.3
58.9	77.5°	77.1	72.8	61.0	95.3	82.4	113.5	733.3	4481.0
36.4	80°	39.6	40.7	38.5	54.6	55.7	77.1	417.5	3066.9
23.6	82.5°	23.6	18.2	20.3	26.8	32.1	43.9	157.4	1802.7
17.1	85°	15.0	9.6	9.6	12.8	16.1	17.1	48.2	731.1
8.6	87.5°	7.5	3.2	4.3	6.4	5.4	4.3	2.1	184.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)