

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: P949083

Luminaire Tested: **GALN-SB3D-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949083
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-SB3D-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA 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: 16885 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

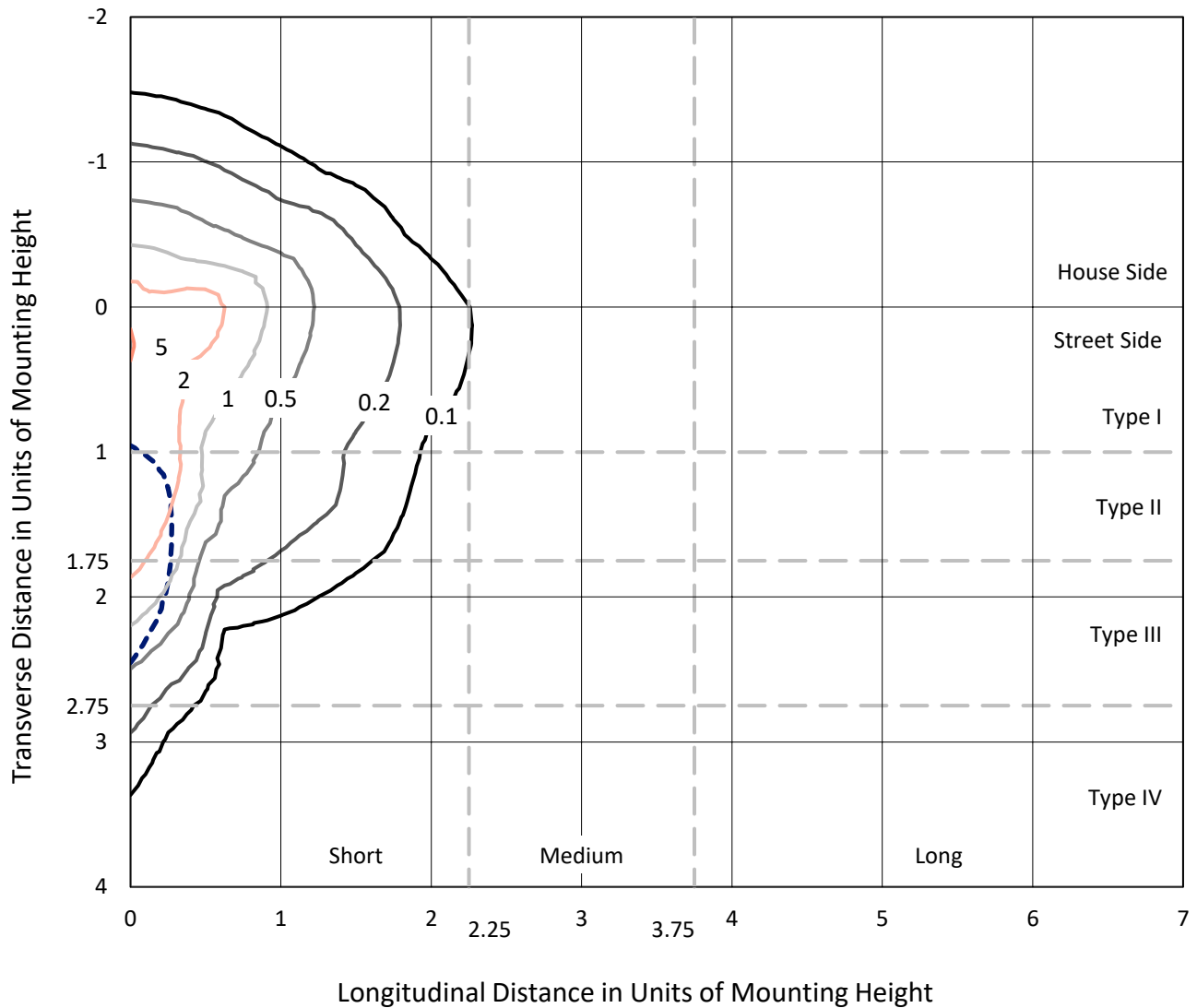
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949083
 CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

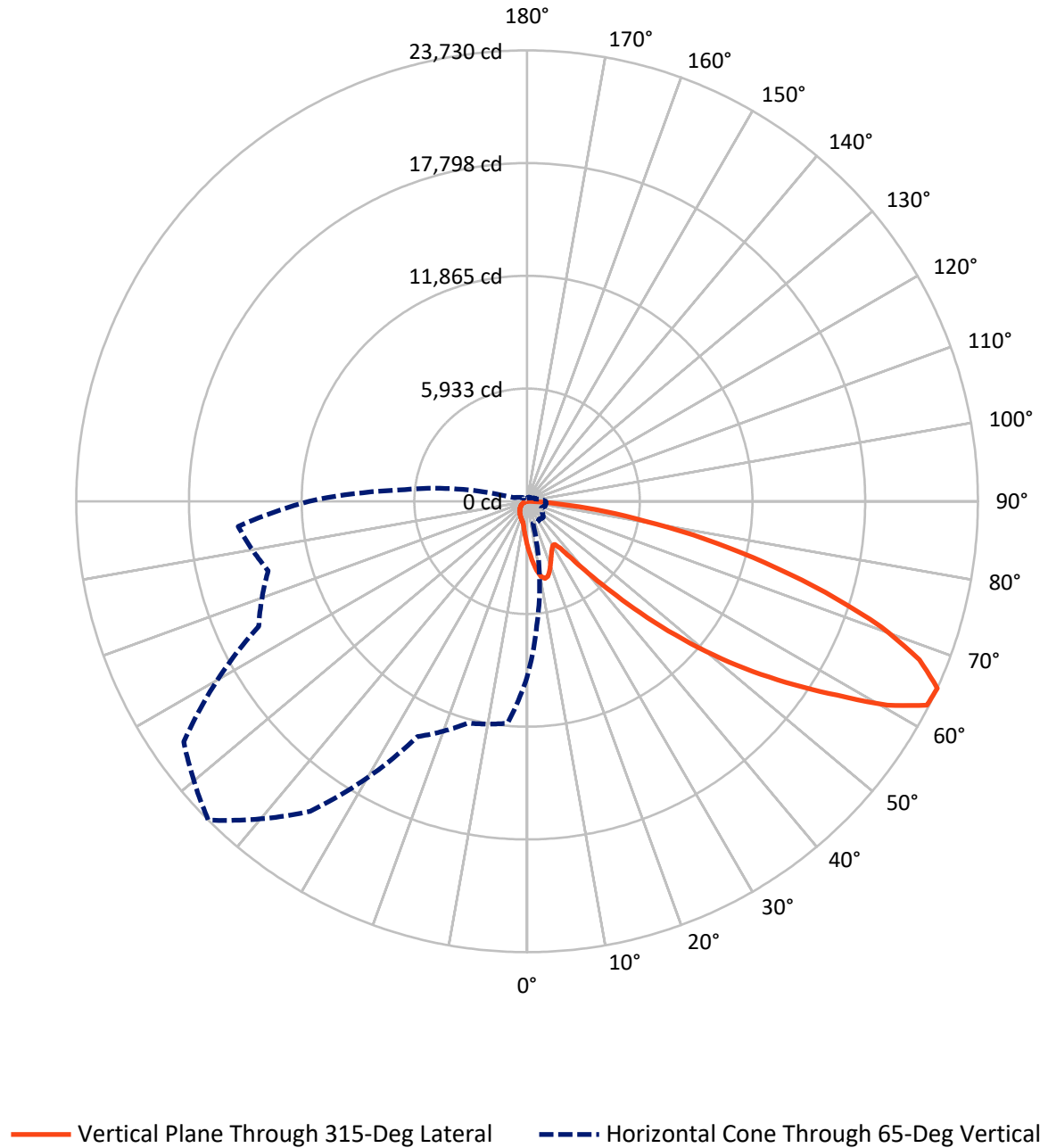
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P949083
CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949083
 CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2364.6	0.0	2364.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14520.4	0.0	14520.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	16885.0	0.0	16885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	1.4
10°-20°	690.0	4.1
20°-30°	1016.6	6.0
30°-40°	1306.0	7.7
40°-50°	2112.2	12.5
50°-60°	3703.9	21.9
60°-70°	4634.6	27.4
70°-80°	2708.3	16.0
80°-90°	483.2	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°	16885.0	100.0
0°-180°	16885.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949083

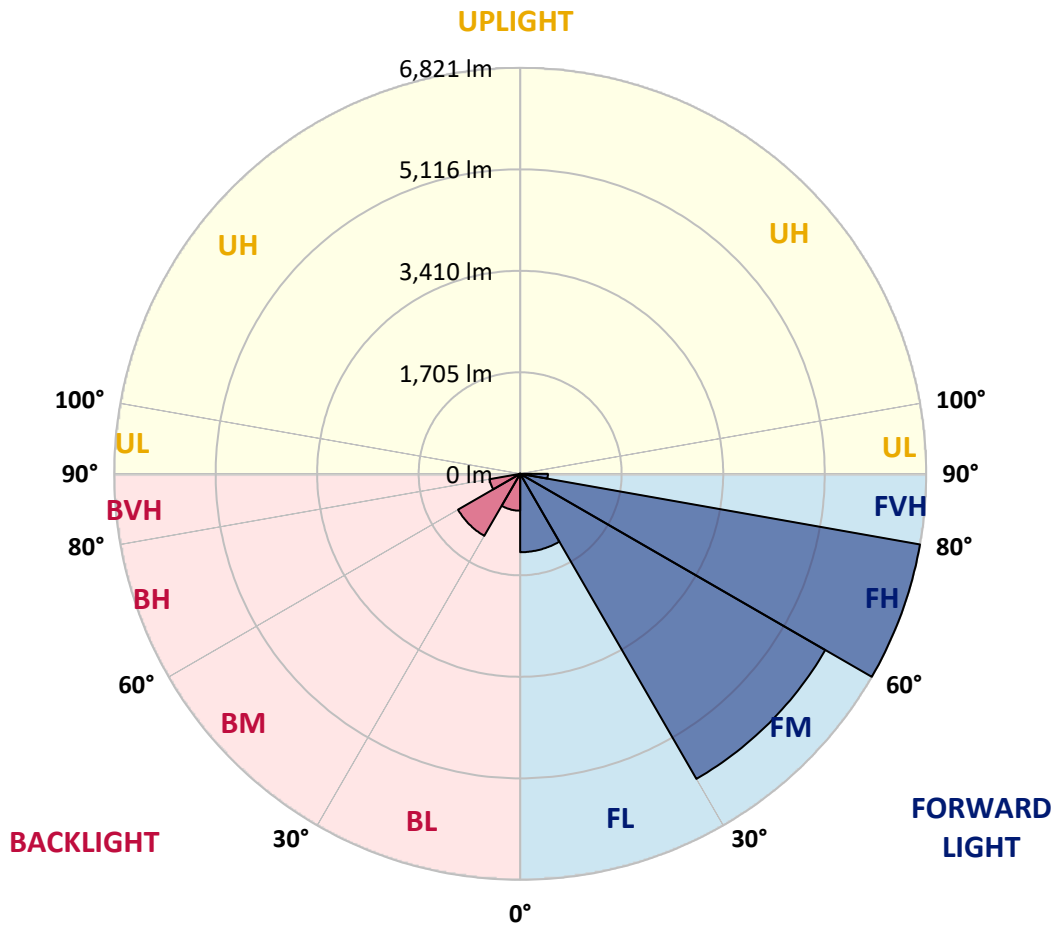
CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.0	7.8			
FM (30°-60°)	5918.0	35.0			
FH (60°-80°)	6820.8	40.4			G3/7500
FVH (80°-90°)	464.6	2.8			G3/500
BL (0°-30°)	619.8	3.7	B2/1000		
BM (30°-60°)	1204.1	7.1	B2/2500		
BH (60°-80°)	522.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	18.6	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



REPORT NUMBER: P949083

CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2.5°	2641.6	2596.3	2569.5	2503.2	2436.9	2383.4	2311.3	2263.6	2206.6	2151.9
5°	2944.1	2870.8	2782.4	2661.4	2550.9	2438.1	2328.7	2220.5	2106.6	2001.9
7.5°	3200.0	3094.1	2938.2	2777.7	2637.0	2500.9	2372.9	2229.9	2091.4	1927.4
10°	3395.4	3260.4	3055.7	2845.2	2683.5	2546.2	2421.8	2300.8	2161.2	1963.5
12.5°	3514.0	3369.8	3126.7	2880.1	2695.1	2541.6	2445.0	2391.5	2336.9	2140.3
15°	3601.3	3445.4	3176.7	2904.5	2668.4	2479.9	2409.0	2462.5	2525.3	2399.7
17.5°	3692.0	3528.0	3241.8	2915.0	2596.3	2360.1	2329.9	2468.3	2613.7	2607.9
20°	3778.1	3615.2	3298.8	2908.0	2479.9	2214.7	2241.5	2418.3	2587.0	2657.9
22.5°	3876.9	3704.8	3353.5	2881.2	2328.7	2078.6	2162.4	2339.2	2486.9	2570.7
25°	3997.9	3817.6	3430.3	2841.7	2165.9	1965.8	2082.1	2247.3	2367.1	2425.3
27.5°	4128.2	3952.6	3532.6	2820.8	2034.4	1885.5	1991.4	2138.0	2245.0	2285.7
30°	4289.9	4109.6	3653.6	2797.5	1948.4	1839.0	1897.2	2011.2	2115.9	2156.6
32.5°	4466.7	4284.1	3769.9	2741.7	1896.0	1804.1	1805.3	1877.4	1972.8	2021.6
35°	4687.7	4493.4	3894.4	2619.5	1854.1	1763.4	1715.7	1750.6	1829.7	1887.9
37.5°	5002.9	4768.0	4046.8	2445.0	1792.5	1700.6	1621.5	1629.6	1690.1	1754.1
40°	5438.0	5136.7	4225.9	2263.6	1704.1	1612.2	1518.0	1514.5	1558.7	1621.5
42.5°	6026.5	5624.1	4441.1	2090.3	1619.2	1505.2	1408.6	1402.8	1437.7	1492.4
45°	6803.6	6247.5	4705.1	1941.4	1552.9	1400.5	1305.1	1302.8	1331.9	1379.6
47.5°	7798.1	7114.1	4969.2	1840.2	1518.0	1317.9	1220.2	1224.8	1250.4	1293.5
50°	9085.8	8243.6	5049.5	1789.0	1518.0	1273.7	1144.6	1167.9	1188.8	1221.4
52.5°	10629.3	9327.7	4784.2	1742.5	1527.3	1279.5	1080.6	1130.6	1145.8	1173.7
55°	12060.1	9859.3	4113.1	1678.5	1529.6	1315.6	1025.9	1100.4	1128.3	1138.8
57.5°	12890.6	9676.7	3325.6	1570.3	1520.3	1340.0	991.0	1063.2	1116.7	1123.7
60°	12732.4	9035.7	2448.5	1487.7	1451.7	1330.7	980.6	1006.2	1091.1	1101.6
62.5°	11513.4	7960.9	1699.4	1423.8	1300.5	1290.0	977.1	916.6	1035.2	1060.8
65°	9254.4	6267.3	1200.4	1226.0	1139.9	1201.6	958.5	823.5	967.8	1002.7
67.5°	6714.0	4241.0	866.6	993.4	1032.9	1058.5	916.6	756.1	891.0	937.5
70°	4308.5	2290.3	608.4	656.0	870.1	899.2	844.5	695.6	813.1	866.6
72.5°	3062.7	1352.8	437.4	459.5	699.1	749.1	743.3	628.1	722.3	787.5
75°	2113.5	745.6	295.5	328.0	507.2	608.4	573.5	539.7	611.8	678.1
77.5°	1324.9	333.8	176.8	228.0	332.7	478.1	393.2	417.6	476.9	538.6
80°	737.5	129.1	98.9	151.2	181.5	347.8	217.5	268.7	351.3	395.5
82.5°	160.5	16.3	44.2	65.1	71.0	202.4	115.2	155.9	221.0	217.5
85°	0.0	0.0	8.1	9.3	4.7	87.2	41.9	51.2	72.1	67.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949083
 CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2338.0	0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2103.1	2.5°	2093.8	2036.8	1994.9	1974.0	1956.5	1972.8	1982.1	1982.1	2021.6	2044.9
1937.9	5°	1897.2	1794.8	1716.9	1664.5	1633.1	1643.6	1655.2	1668.0	1718.0	1751.8
1840.2	7.5°	1761.1	1604.1	1485.4	1412.1	1373.7	1379.6	1387.7	1398.2	1447.0	1480.8
1854.1	10°	1735.5	1509.8	1342.3	1245.8	1199.3	1191.1	1186.5	1183.0	1212.1	1237.6
2012.3	12.5°	1840.2	1514.5	1280.7	1163.2	1106.2	1081.8	1053.9	1031.8	1036.4	1052.7
2252.0	15°	2027.5	1573.8	1260.9	1120.2	1049.2	1008.5	975.9	949.2	943.4	949.2
2461.3	17.5°	2241.5	1654.1	1258.6	1082.9	994.5	952.7	925.9	901.5	893.3	894.5
2578.8	20°	2383.4	1718.0	1251.6	1041.1	942.2	905.0	881.7	857.3	849.1	851.5
2546.2	22.5°	2397.4	1751.8	1241.1	994.5	889.8	858.4	835.2	813.1	811.9	811.9
2424.1	25°	2321.7	1751.8	1219.0	952.7	839.8	811.9	791.0	764.2	768.9	771.2
2285.7	27.5°	2204.3	1709.9	1177.2	918.9	796.8	767.7	746.8	722.3	728.2	731.7
2156.6	30°	2087.9	1656.4	1127.1	880.5	756.1	722.3	707.2	686.3	688.6	693.3
2028.6	32.5°	1979.8	1599.4	1067.8	849.1	715.4	681.6	670.0	646.7	650.2	654.9
1903.0	35°	1872.8	1536.6	998.0	811.9	678.1	644.4	635.1	608.4	610.7	617.7
1777.4	37.5°	1757.6	1470.3	941.0	774.7	642.1	607.2	597.9	570.0	572.3	580.4
1647.1	40°	1636.6	1405.1	885.2	735.1	603.7	568.8	560.7	530.4	532.7	542.1
1519.1	42.5°	1514.5	1334.2	842.2	684.0	564.2	526.9	518.8	490.9	494.4	504.8
1407.5	45°	1401.7	1249.3	814.2	627.0	526.9	485.1	476.9	451.3	458.3	469.9
1313.3	47.5°	1305.1	1162.0	802.6	579.3	487.4	442.0	435.0	414.1	425.7	438.5
1233.0	50°	1222.5	1078.3	787.5	530.4	450.2	404.8	397.8	383.9	399.0	411.8
1178.3	52.5°	1163.2	982.9	754.9	486.2	417.6	373.4	371.1	364.1	378.0	389.7
1137.6	55°	1112.0	884.0	702.6	447.8	388.5	346.6	349.0	345.5	357.1	366.4
1113.2	57.5°	1065.5	798.0	636.3	417.6	357.1	323.4	330.3	325.7	331.5	337.3
1087.6	60°	1009.7	710.7	557.2	383.9	319.9	300.1	308.2	295.5	294.3	296.6
1041.1	62.5°	927.1	593.2	474.6	342.0	287.3	274.5	278.0	253.6	235.0	235.0
972.4	65°	811.9	476.9	397.8	295.5	250.1	239.6	237.3	202.4	176.8	174.5
898.0	67.5°	678.1	392.0	330.3	248.9	208.2	201.2	203.6	178.0	152.4	150.1
823.5	70°	552.5	324.5	266.4	198.9	160.5	167.5	178.0	152.4	128.0	124.5
736.3	72.5°	449.0	258.2	208.2	152.4	118.6	138.4	151.2	124.5	101.2	98.9
628.1	75°	346.6	189.6	148.9	103.5	86.1	107.0	118.6	90.7	72.1	68.6
486.2	77.5°	231.5	117.5	83.8	65.1	51.2	73.3	79.1	47.7	41.9	40.7
353.6	80°	140.7	54.7	36.1	31.4	17.4	26.8	31.4	19.8	22.1	23.3
188.4	82.5°	71.0	15.1	5.8	1.2	0.0	0.0	9.3	4.7	9.3	11.6
51.2	85°	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.8
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: P949083
 CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2338.0	0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2054.2	2.5°	2119.4	2168.2	2214.7	2289.2	2365.9	2441.6	2518.3	2592.8	2619.5	2639.3
1773.9	5°	1875.1	1967.0	2074.0	2221.7	2379.9	2542.8	2707.9	2859.1	2927.8	2974.3
1509.8	7.5°	1622.7	1742.5	1896.0	2118.2	2365.9	2625.3	2884.7	3123.2	3233.7	3323.3
1260.9	10°	1372.6	1502.9	1697.1	1950.7	2285.7	2657.9	3016.2	3344.2	3487.3	3600.1
1081.8	12.5°	1152.7	1274.9	1478.4	1758.8	2160.1	2632.3	3091.8	3486.1	3654.8	3781.6
953.8	15°	998.0	1084.1	1264.4	1566.8	2011.2	2549.7	3096.4	3553.6	3738.5	3871.1
900.3	17.5°	911.9	941.0	1058.5	1371.4	1846.0	2441.6	3053.4	3576.8	3774.6	3897.9
852.6	20°	865.4	870.1	902.6	1117.8	1634.3	2340.4	3012.7	3600.1	3808.3	3911.8
818.9	22.5°	828.2	828.2	836.3	914.3	1360.9	2219.4	2999.9	3640.8	3854.8	3918.8
780.5	25°	794.5	794.5	796.8	817.7	1078.3	2034.4	2991.8	3703.6	3918.8	3936.3
742.1	27.5°	759.6	760.7	760.7	772.4	868.9	1783.2	2956.9	3785.1	3995.6	3959.5
704.9	30°	724.7	727.0	727.0	735.1	768.9	1488.9	2888.2	3882.8	4095.6	3989.8
667.7	32.5°	689.8	692.1	692.1	699.1	723.5	1188.8	2802.1	3972.3	4196.8	4002.6
631.6	35°	653.7	657.2	654.9	664.2	689.8	945.7	2692.8	4061.9	4306.2	4043.3
596.7	37.5°	617.7	620.0	618.8	628.1	657.2	816.6	2566.0	4129.4	4455.1	4134.0
559.5	40°	581.6	580.4	580.4	590.9	622.3	779.3	2406.7	4236.4	4669.1	4293.4
522.3	42.5°	544.4	544.4	542.1	553.7	592.1	751.4	2254.3	4428.3	4980.8	4546.9
487.4	45°	510.6	509.5	504.8	515.3	563.0	702.6	2200.8	4786.6	5441.5	4957.6
452.5	47.5°	478.1	476.9	465.3	474.6	528.1	658.4	2400.8	5372.8	6080.0	5561.3
424.6	50°	449.0	450.2	428.1	436.2	493.2	624.6	2834.7	6133.6	6928.0	6374.3
401.3	52.5°	422.2	422.2	393.2	397.8	450.2	594.4	3247.7	6958.3	8047.0	7508.5
376.9	55°	395.5	393.2	360.6	362.9	407.1	551.4	3309.3	7763.2	9573.1	9214.9
350.1	57.5°	365.2	360.6	330.3	330.3	367.6	520.0	2868.5	8382.0	11466.8	11722.7
300.1	60°	328.0	324.5	304.8	298.9	336.2	547.9	2024.0	8454.1	12688.2	15057.6
238.5	62.5°	280.3	285.0	274.5	266.4	305.9	568.8	1199.3	7873.7	12392.7	16118.5
184.9	65°	221.0	239.6	237.3	231.5	336.2	479.2	708.4	6759.4	11486.6	15262.3
161.7	67.5°	188.4	201.2	197.7	197.7	352.4	364.1	445.5	5280.9	10239.7	14246.9
134.9	70°	160.5	173.3	160.5	160.5	266.4	221.0	308.2	3687.3	8893.8	13123.2
108.2	72.5°	132.6	145.4	131.4	122.1	212.9	165.2	225.7	2304.3	7616.6	11953.0
76.8	75°	101.2	116.3	105.9	94.2	140.7	123.3	171.0	1338.8	6310.4	10226.9
46.5	77.5°	64.0	83.8	79.1	66.3	103.5	89.6	123.3	796.8	4869.2	7991.2
27.9	80°	39.5	43.0	44.2	41.9	59.3	60.5	83.8	453.6	3332.6	5569.4
17.4	82.5°	25.6	25.6	19.8	22.1	29.1	34.9	47.7	171.0	1958.8	3390.7
10.5	85°	18.6	16.3	10.5	10.5	14.0	17.4	18.6	52.3	794.5	1338.8
4.7	87.5°	9.3	8.1	3.5	4.7	7.0	5.8	4.7	2.3	200.1	428.1
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: P949083
 CATALOG NUMBER: GALN-SB3D-940-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2338.0	0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2683.5	2.5°	2706.8	2742.8	2745.2	2745.2	2713.7	2712.6	2648.6	2641.6
3079.0	5°	3187.2	3210.4	3216.2	3204.6	3141.8	3095.3	2970.8	2944.1
3482.6	7.5°	3626.9	3673.4	3673.4	3645.5	3543.1	3447.7	3267.4	3200.0
3816.5	10°	3978.1	4031.7	4020.0	3963.0	3833.9	3702.5	3483.8	3395.4
4018.9	12.5°	4149.1	4203.8	4173.6	4108.4	3982.8	3844.4	3614.1	3514.0
4077.0	15°	4145.6	4130.5	4099.1	4091.0	4030.5	3925.8	3710.6	3601.3
4041.0	17.5°	3997.9	3870.0	3845.5	3927.0	4003.7	3978.1	3794.4	3692.0
3954.9	20°	3764.1	3540.8	3518.7	3674.5	3893.2	4004.9	3872.3	3778.1
3830.4	22.5°	3517.5	3276.7	3225.6	3397.7	3726.9	4013.0	3971.2	3876.9
3693.2	25°	3283.7	3041.8	2990.6	3151.1	3541.9	3999.1	4078.2	3997.9
3561.7	27.5°	3088.3	2854.5	2806.8	2967.3	3364.0	3959.5	4185.2	4128.2
3431.4	30°	2937.1	2720.7	2685.8	2840.5	3210.4	3910.7	4321.3	4289.9
3310.5	32.5°	2848.7	2690.5	2703.3	2830.1	3127.8	3857.2	4451.6	4466.7
3251.1	35°	2935.9	2942.9	3054.6	3106.9	3204.6	3849.0	4628.4	4687.7
3322.1	37.5°	3369.8	3611.7	3843.2	3800.2	3580.3	3943.2	4892.4	5002.9
3631.5	40°	4108.4	4605.1	4980.8	4816.8	4263.1	4231.7	5272.8	5438.0
4180.5	42.5°	5011.1	5853.2	6472.0	6032.4	5143.7	4736.6	5816.0	6026.5
4844.7	45°	5963.7	7392.1	8366.9	7452.6	6082.4	5443.8	6638.4	6803.6
5467.0	47.5°	6967.6	9262.6	10523.5	9027.6	6952.4	6248.7	7759.7	7798.1
6056.8	50°	8065.6	11313.3	12721.9	10601.4	7792.3	7171.1	9130.0	9085.8
6744.2	52.5°	9111.3	13422.2	14873.8	12182.2	8529.7	8315.7	10720.1	10629.3
7684.1	55°	10109.4	15529.9	17038.6	13701.3	9225.3	9827.9	12609.1	12060.1
9039.2	57.5°	11266.8	17424.7	19269.6	15227.5	10197.8	11791.4	14721.5	12890.6
11634.3	60°	12977.8	19577.8	21792.6	17318.9	12047.3	13854.9	15478.7	12732.4
14742.4	62.5°	15162.3	21557.6	23626.9	19368.4	13904.9	14243.4	14363.2	11513.4
14108.5	65°	15586.9	22058.9	23730.4	19916.3	13665.3	12082.2	11726.2	9254.4
12602.1	67.5°	14460.9	21152.8	22283.4	18896.2	12088.0	9337.0	8799.6	6714.0
11613.4	70°	13197.7	19425.4	19761.6	17161.9	10631.6	6867.5	5942.8	4308.5
10936.4	72.5°	11903.0	17121.1	16425.5	14904.1	9344.0	5000.6	4286.4	3062.7
9972.1	75°	10365.3	14091.0	12938.3	12383.4	7736.4	3924.6	3101.1	2113.5
8577.4	77.5°	8300.6	9918.6	9610.4	9598.7	5813.7	2867.3	2069.3	1324.9
6701.2	80°	5855.5	6437.1	6280.1	7229.3	3900.2	2079.8	1245.8	737.5
4664.4	82.5°	2834.7	3559.4	3653.6	4305.0	1897.2	1223.7	287.3	160.5
1823.9	85°	1109.7	1716.9	1448.2	1634.3	532.7	340.8	7.0	0.0
300.1	87.5°	124.5	198.9	182.6	144.2	65.1	14.0	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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