

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: P949524

Luminaire Tested: **GALN-SB4B-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949524
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-SB4B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

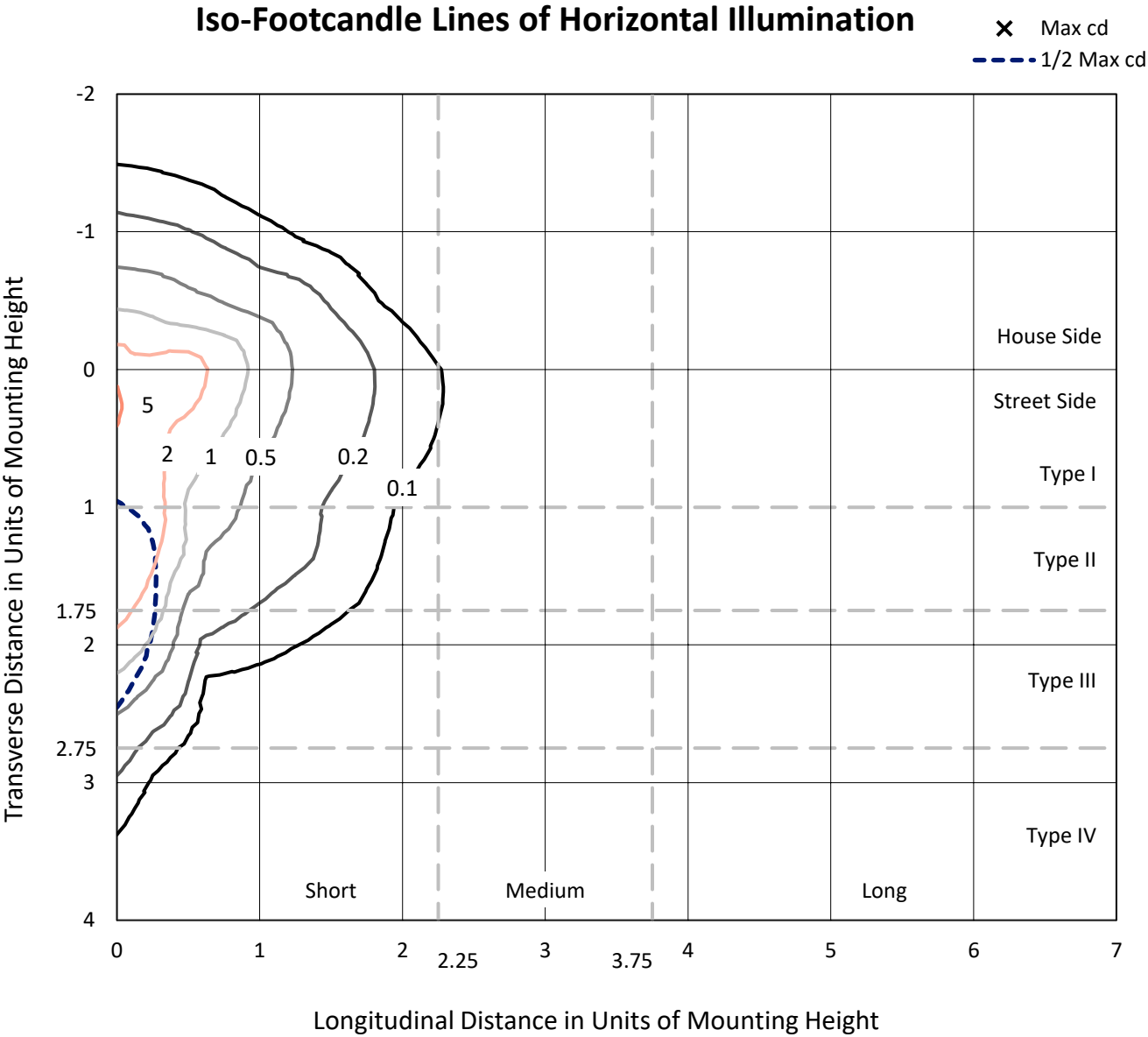
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17224 lumens
Efficiency: N/A
Efficacy: 117.2 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): 147
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



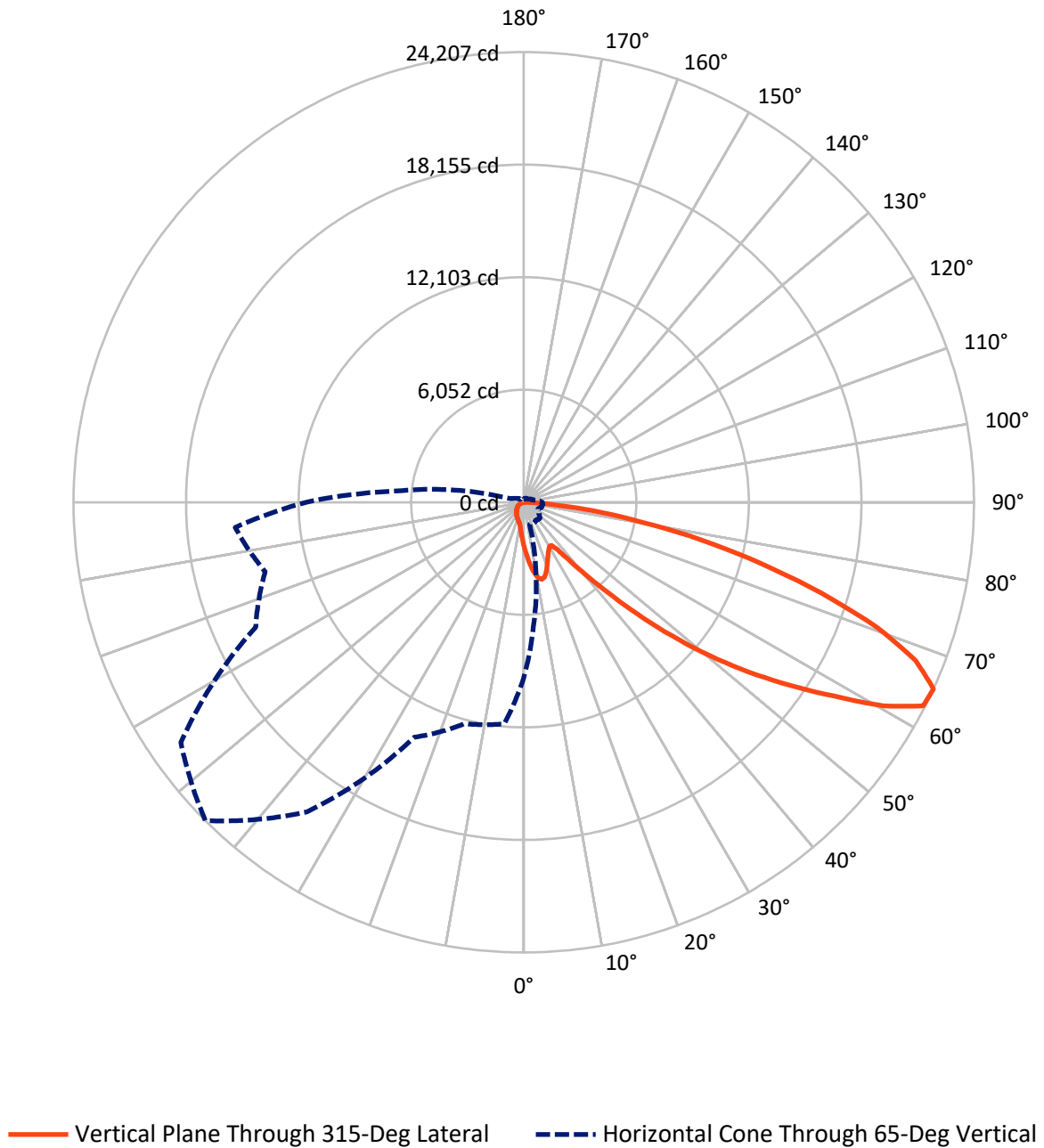
REPORT NUMBER: P949524
CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

REPORT NUMBER: P949524
CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949524

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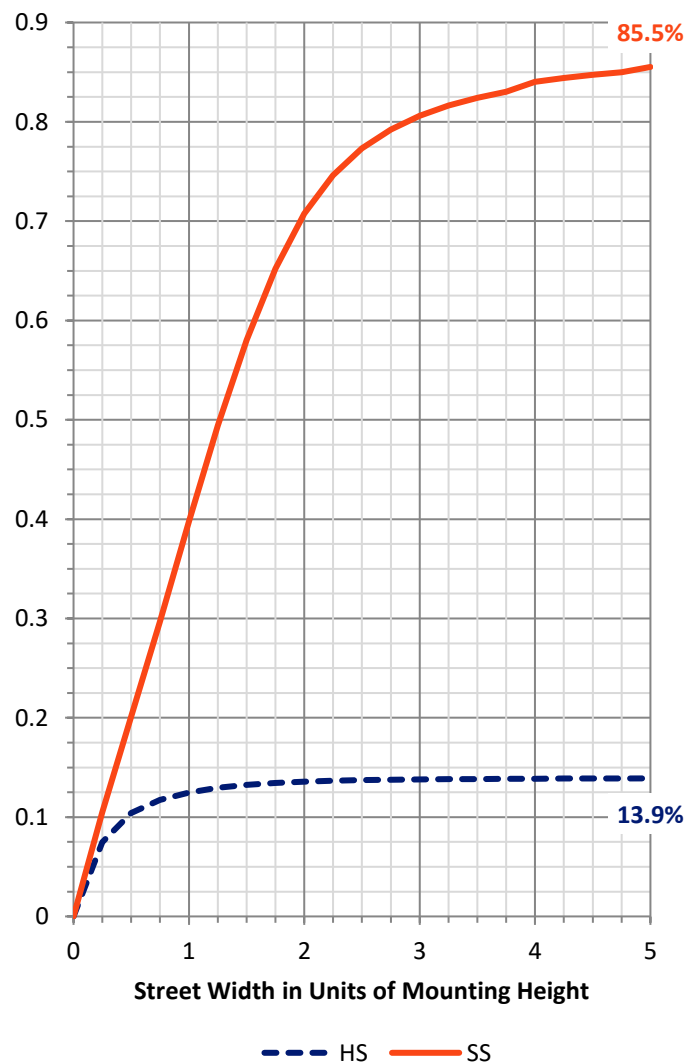
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2412.1	0.0	2412.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14811.9	0.0	14811.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	17224.0	0.0	17224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.4
10°-20°	703.9	4.1
20°-30°	1037.0	6.0
30°-40°	1332.2	7.7
40°-50°	2154.6	12.5
50°-60°	3778.3	21.9
60°-70°	4727.7	27.4
70°-80°	2762.6	16.0
80°-90°	492.9	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°	17224.0	100.0
0°-180°	17224.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949524

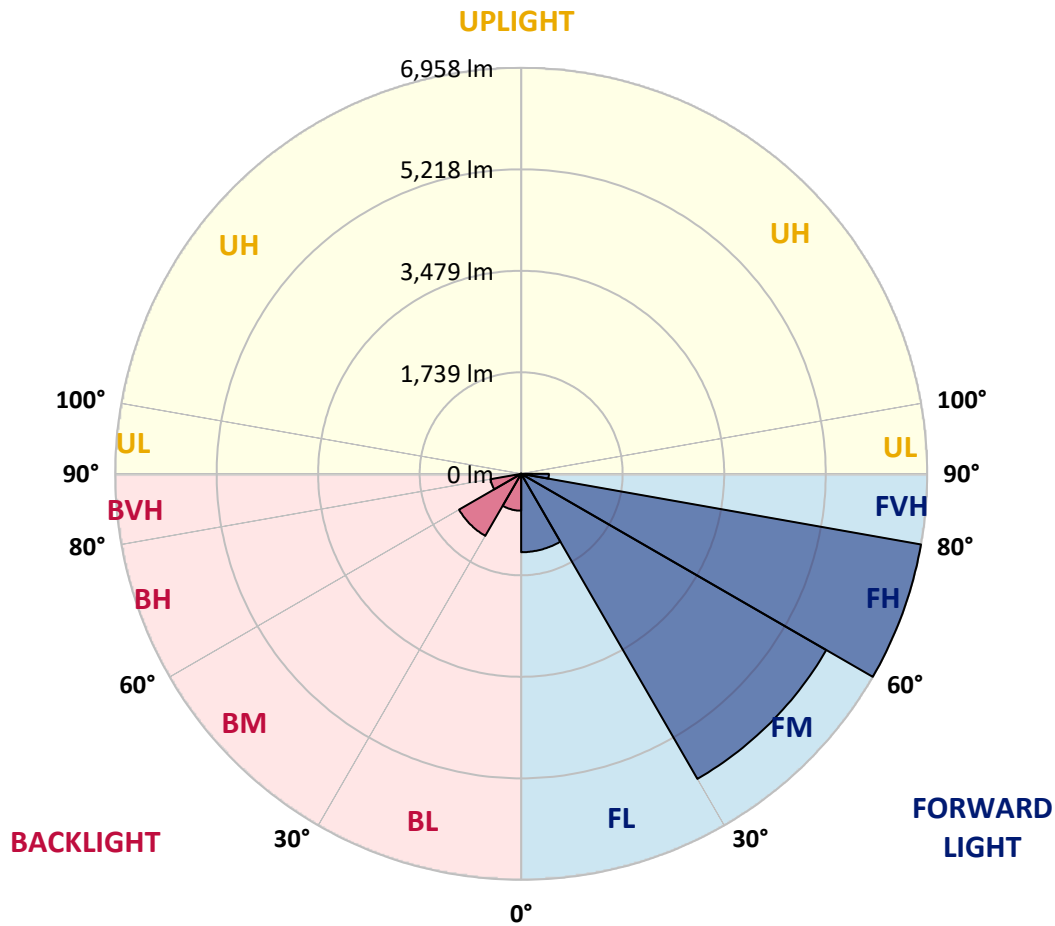
CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1343.4	7.8			
FM	(30°-60°)	6036.8	35.0			
FH	(60°-80°)	6957.7	40.4			G3/7500
FVH	(80°-90°)	474.0	2.8			G3/500
BL	(0°-30°)	632.3	3.7	B2/1000		
BM	(30°-60°)	1228.3	7.1	B2/2500		
BH	(60°-80°)	532.6	3.1	B2/1000		G2/1000
BVH	(80°-90°)	18.9	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: P949524

CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2694.7	2648.4	2621.1	2553.5	2485.8	2431.2	2357.7	2309.0	2250.9	2195.1	2145.3
5°	3003.2	2928.4	2838.2	2714.8	2602.1	2487.0	2375.5	2265.1	2148.8	2042.1	1976.8
7.5°	3264.2	3156.2	2997.2	2833.5	2689.9	2551.1	2420.6	2274.6	2133.4	1966.1	1877.1
10°	3463.6	3325.9	3117.1	2902.3	2737.4	2597.4	2470.4	2347.0	2204.6	2002.9	1891.4
12.5°	3584.6	3437.4	3189.5	2937.9	2749.2	2592.6	2494.1	2439.6	2383.8	2183.3	2052.7
15°	3673.6	3514.6	3240.5	2962.8	2722.0	2529.7	2457.4	2511.9	2576.0	2447.9	2297.2
17.5°	3766.1	3598.8	3306.9	2973.5	2648.4	2407.5	2376.7	2517.9	2666.2	2660.3	2510.7
20°	3853.9	3687.8	3365.1	2966.4	2529.7	2259.2	2286.5	2466.8	2638.9	2711.3	2630.6
22.5°	3954.8	3779.2	3420.8	2939.1	2375.5	2120.4	2205.8	2386.2	2536.9	2622.3	2597.4
25°	4078.2	3894.3	3499.1	2898.8	2209.4	2005.3	2123.9	2292.4	2414.6	2474.0	2472.8
27.5°	4211.1	4031.9	3603.6	2877.4	2075.3	1923.4	2031.4	2180.9	2290.0	2331.6	2331.6
30°	4376.0	4192.1	3727.0	2853.7	1987.5	1875.9	1935.3	2051.6	2158.3	2199.9	2199.9
32.5°	4556.4	4370.1	3845.6	2796.7	1934.1	1840.3	1841.5	1915.1	2012.4	2062.2	2069.3
35°	4781.8	4583.7	3972.6	2672.1	1891.4	1798.8	1750.2	1785.8	1866.4	1925.8	1941.2
37.5°	5103.4	4863.7	4128.0	2494.1	1828.5	1734.7	1654.1	1662.4	1724.1	1789.3	1813.1
40°	5547.1	5239.8	4310.7	2309.0	1738.3	1644.6	1548.5	1544.9	1590.0	1654.1	1680.2
42.5°	6147.5	5737.0	4530.3	2132.2	1651.7	1535.4	1436.9	1431.0	1466.6	1522.3	1549.6
45°	6940.2	6373.0	4799.6	1980.4	1584.0	1428.6	1331.3	1328.9	1358.6	1407.3	1435.7
47.5°	7954.7	7257.0	5069.0	1877.1	1548.5	1344.4	1244.7	1249.4	1275.5	1319.4	1339.6
50°	9268.2	8409.1	5150.8	1824.9	1548.5	1299.3	1167.6	1191.3	1212.7	1245.9	1257.7
52.5°	10842.7	9515.0	4880.3	1777.5	1557.9	1305.2	1102.3	1153.3	1168.8	1197.2	1202.0
55°	12302.2	10057.2	4195.7	1712.2	1560.3	1342.0	1046.5	1122.5	1151.0	1161.6	1160.4
57.5°	13149.4	9870.9	3392.4	1601.8	1550.8	1366.9	1010.9	1084.5	1139.1	1146.2	1135.5
60°	12988.0	9217.1	2497.7	1517.6	1480.8	1357.4	1000.3	1026.4	1113.0	1123.7	1109.4
62.5°	11744.5	8120.8	1733.6	1452.3	1326.6	1315.9	996.7	935.0	1056.0	1082.1	1062.0
65°	9440.2	6393.2	1224.5	1250.6	1162.8	1225.7	977.7	840.1	987.2	1022.8	992.0
67.5°	6848.8	4326.2	884.0	1013.3	1053.7	1079.8	935.0	771.3	908.9	956.4	916.0
70°	4395.0	2336.3	620.6	669.2	887.5	917.2	861.4	709.6	829.4	884.0	840.1
72.5°	3124.2	1380.0	446.1	468.7	713.1	764.1	758.2	640.7	736.8	803.3	751.1
75°	2156.0	760.6	301.4	334.6	517.3	620.6	585.0	550.6	624.1	691.8	640.7
77.5°	1351.5	340.5	180.4	232.6	339.4	487.7	401.1	426.0	486.5	549.4	496.0
80°	752.3	131.7	100.9	154.3	185.1	354.8	221.9	274.1	358.3	403.4	360.7
82.5°	163.7	16.6	45.1	66.4	72.4	206.5	117.5	159.0	225.4	221.9	192.2
85°	0.0	0.0	8.3	9.5	4.7	89.0	42.7	52.2	73.6	68.8	52.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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

REPORT NUMBER: P949524

CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2135.8	2077.7	2034.9	2013.6	1995.8	2012.4	2021.9	2021.9	2062.2	2086.0	2095.5
5°	1935.3	1830.9	1751.4	1698.0	1665.9	1676.6	1688.5	1701.5	1752.5	1786.9	1809.5
7.5°	1796.4	1636.3	1515.2	1440.5	1401.3	1407.3	1415.6	1426.2	1476.1	1510.5	1540.1
10°	1770.3	1540.1	1369.3	1270.8	1223.3	1215.0	1210.3	1206.7	1236.4	1262.5	1286.2
12.5°	1877.1	1544.9	1306.4	1186.6	1128.4	1103.5	1075.0	1052.5	1057.2	1073.8	1103.5
15°	2068.2	1605.4	1286.2	1142.7	1070.3	1028.7	995.5	968.2	962.3	968.2	973.0
17.5°	2286.5	1687.3	1283.9	1104.7	1014.5	971.8	944.5	919.6	911.3	912.5	918.4
20°	2431.2	1752.5	1276.7	1062.0	961.1	923.1	899.4	874.5	866.2	868.6	869.7
22.5°	2445.5	1786.9	1266.1	1014.5	907.7	875.7	851.9	829.4	828.2	828.2	835.3
25°	2368.4	1786.9	1243.5	971.8	856.7	828.2	806.9	779.6	784.3	786.7	796.2
27.5°	2248.5	1744.2	1200.8	937.4	812.8	783.1	761.8	736.8	742.8	746.3	757.0
30°	2129.9	1689.7	1149.8	898.2	771.3	736.8	721.4	700.1	702.4	707.2	719.1
32.5°	2019.5	1631.5	1089.3	866.2	729.7	695.3	683.5	659.7	663.3	668.0	681.1
35°	1910.4	1567.4	1018.1	828.2	691.8	657.4	647.9	620.6	622.9	630.1	644.3
37.5°	1792.9	1499.8	959.9	790.2	655.0	619.4	609.9	581.4	583.8	592.1	608.7
40°	1669.5	1433.4	903.0	749.9	615.8	580.2	571.9	541.1	543.4	552.9	570.7
42.5°	1544.9	1361.0	859.1	697.7	575.5	537.5	529.2	500.7	504.3	515.0	532.8
45°	1429.8	1274.4	830.6	639.6	537.5	494.8	486.5	460.4	467.5	479.4	497.2
47.5°	1331.3	1185.4	818.7	590.9	497.2	450.9	443.8	422.4	434.3	447.3	461.6
50°	1247.1	1099.9	803.3	541.1	459.2	412.9	405.8	391.6	407.0	420.0	433.1
52.5°	1186.6	1002.6	770.1	496.0	426.0	380.9	378.5	371.4	385.6	397.5	409.4
55°	1134.3	901.8	716.7	456.8	396.3	353.6	356.0	352.4	364.3	373.8	384.4
57.5°	1086.9	814.0	649.0	426.0	364.3	329.9	337.0	332.2	338.2	344.1	357.2
60°	1029.9	725.0	568.4	391.6	326.3	306.1	314.4	301.4	300.2	302.6	306.1
62.5°	945.7	605.1	484.1	348.8	293.1	280.0	283.6	258.7	239.7	239.7	243.2
65°	828.2	486.5	405.8	301.4	255.1	244.4	242.1	206.5	180.4	178.0	188.7
67.5°	691.8	399.9	337.0	253.9	212.4	205.3	207.6	181.5	155.4	153.1	164.9
70°	563.6	331.0	271.7	202.9	163.7	170.9	181.5	155.4	130.5	127.0	137.6
72.5°	458.0	263.4	212.4	155.4	121.0	141.2	154.3	127.0	103.2	100.9	110.3
75°	353.6	193.4	151.9	105.6	87.8	109.2	121.0	92.6	73.6	70.0	78.3
77.5°	236.1	119.8	85.4	66.4	52.2	74.8	80.7	48.6	42.7	41.5	47.5
80°	143.6	55.8	36.8	32.0	17.8	27.3	32.0	20.2	22.5	23.7	28.5
82.5°	72.4	15.4	5.9	1.2	0.0	0.0	9.5	4.7	9.5	11.9	17.8
85°	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.9	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949524

CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2161.9	2211.7	2259.2	2335.1	2413.5	2490.6	2568.9	2644.8	2672.1	2692.3	2737.4
5°	1912.7	2006.5	2115.6	2266.3	2427.7	2593.8	2762.3	2916.5	2986.6	3034.0	3140.8
7.5°	1655.2	1777.5	1934.1	2160.7	2413.5	2678.1	2942.7	3185.9	3298.6	3390.0	3552.5
10°	1400.1	1533.0	1731.2	1989.9	2331.6	2711.3	3076.7	3411.3	3557.3	3672.4	3893.1
12.5°	1175.9	1300.5	1508.1	1794.1	2203.4	2685.2	3153.9	3556.1	3728.2	3857.5	4099.5
15°	1018.1	1105.9	1289.8	1598.3	2051.6	2600.9	3158.6	3624.9	3813.6	3948.9	4158.9
17.5°	930.3	959.9	1079.8	1398.9	1883.1	2490.6	3114.7	3648.7	3850.4	3976.1	4122.1
20°	882.8	887.5	920.8	1140.3	1667.1	2387.3	3073.2	3672.4	3884.8	3990.4	4034.3
22.5°	844.8	844.8	853.1	932.6	1388.3	2263.9	3060.1	3713.9	3932.2	3997.5	3907.3
25°	810.4	810.4	812.8	834.1	1099.9	2075.3	3051.8	3778.0	3997.5	4015.3	3767.3
27.5°	774.8	776.0	776.0	787.9	886.4	1819.0	3016.2	3861.0	4075.8	4039.0	3633.2
30°	739.2	741.6	741.6	749.9	784.3	1518.8	2946.2	3960.7	4177.9	4069.9	3500.3
32.5°	703.6	706.0	706.0	713.1	738.0	1212.7	2858.4	4052.1	4281.1	4082.9	3376.9
35°	666.8	670.4	668.0	677.5	703.6	964.7	2746.9	4143.4	4392.6	4124.5	3316.4
37.5°	630.1	632.4	631.2	640.7	670.4	833.0	2617.5	4212.3	4544.5	4217.0	3388.8
40°	593.3	592.1	592.1	602.8	634.8	795.0	2455.0	4321.4	4762.8	4379.6	3704.4
42.5°	555.3	555.3	552.9	564.8	604.0	766.5	2299.5	4517.2	5080.8	4638.2	4264.5
45°	520.9	519.7	515.0	525.6	574.3	716.7	2245.0	4882.7	5550.7	5057.1	4942.0
47.5°	487.7	486.5	474.6	484.1	538.7	671.6	2449.0	5480.7	6202.1	5672.9	5576.8
50°	458.0	459.2	436.7	445.0	503.1	637.2	2891.6	6256.7	7067.1	6502.3	6178.4
52.5°	430.7	430.7	401.1	405.8	459.2	606.3	3312.9	7098.0	8208.6	7659.2	6879.6
55°	403.4	401.1	367.8	370.2	415.3	562.4	3375.7	7919.1	9765.3	9399.9	7838.4
57.5°	372.6	367.8	337.0	337.0	375.0	530.4	2926.0	8550.3	11697.0	11958.1	9220.7
60°	334.6	331.0	310.9	304.9	342.9	558.9	2064.6	8623.9	12942.9	15359.9	11867.9
62.5°	286.0	290.7	280.0	271.7	312.1	580.2	1223.3	8031.8	12641.5	16442.1	15038.4
65°	225.4	244.4	242.1	236.1	342.9	488.9	722.6	6895.1	11717.2	15568.8	14391.7
67.5°	192.2	205.3	201.7	201.7	359.5	371.4	454.5	5387.0	10445.2	14532.9	12855.1
70°	163.7	176.8	163.7	163.7	271.7	225.4	314.4	3761.4	9072.4	13386.7	11846.6
72.5°	135.3	148.3	134.1	124.6	217.1	168.5	230.2	2350.6	7769.6	12193.0	11156.0
75°	103.2	118.7	108.0	96.1	143.6	125.8	174.4	1365.7	6437.1	10432.2	10172.3
77.5°	65.3	85.4	80.7	67.6	105.6	91.4	125.8	812.8	4966.9	8151.6	8749.6
80°	40.3	43.9	45.1	42.7	60.5	61.7	85.4	462.8	3399.5	5681.2	6835.7
82.5°	26.1	26.1	20.2	22.5	29.7	35.6	48.6	174.4	1998.2	3458.8	4758.1
85°	19.0	16.6	10.7	10.7	14.2	17.8	19.0	53.4	810.4	1365.7	1860.5
87.5°	9.5	8.3	3.6	4.7	7.1	5.9	4.7	2.4	204.1	436.7	306.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949524

CATALOG NUMBER: GALN-SB4B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2761.1	2797.9	2800.3	2800.3	2768.2	2767.0	2701.8	2694.7
5°	3251.2	3274.9	3280.8	3269.0	3204.9	3157.4	3030.5	3003.2
7.5°	3699.7	3747.1	3747.1	3718.7	3614.2	3516.9	3333.0	3264.2
10°	4058.0	4112.6	4100.7	4042.6	3910.9	3776.8	3553.7	3463.6
12.5°	4232.4	4288.2	4257.4	4190.9	4062.8	3921.6	3686.6	3584.6
15°	4228.9	4213.5	4181.4	4173.1	4111.4	4004.6	3785.1	3673.6
17.5°	4078.2	3947.7	3922.7	4005.8	4084.1	4058.0	3870.5	3766.1
20°	3839.7	3611.9	3589.3	3748.3	3971.4	4085.3	3950.0	3853.9
22.5°	3588.1	3342.5	3290.3	3465.9	3801.7	4093.6	4050.9	3954.8
25°	3349.6	3102.8	3050.6	3214.4	3613.1	4079.4	4160.1	4078.2
27.5°	3150.3	2911.8	2863.2	3026.9	3431.5	4039.0	4269.2	4211.1
30°	2996.0	2775.3	2739.8	2897.6	3274.9	3989.2	4408.0	4376.0
32.5°	2905.9	2744.5	2757.6	2886.9	3190.6	3934.6	4540.9	4556.4
35°	2994.9	3002.0	3115.9	3169.3	3269.0	3926.3	4721.3	4781.8
37.5°	3437.4	3684.2	3920.4	3876.5	3652.2	4022.4	4990.6	5103.4
40°	4190.9	4697.6	5080.8	4913.5	4348.7	4316.7	5378.6	5547.1
42.5°	5111.7	5970.7	6602.0	6153.5	5246.9	4831.6	5932.8	6147.5
45°	6083.5	7540.5	8534.9	7602.2	6204.5	5553.1	6771.7	6940.2
47.5°	7107.5	9448.5	10734.8	9208.8	7092.0	6374.2	7915.5	7954.7
50°	8227.6	11540.4	12977.3	10814.3	7948.7	7315.1	9313.3	9268.2
52.5°	9294.3	13691.6	15172.5	12426.8	8701.0	8482.7	10935.3	10842.7
55°	10312.3	15841.7	17380.6	13976.4	9410.6	10025.2	12862.2	12302.2
57.5°	11493.0	17774.6	19656.4	15533.2	10402.5	12028.1	15017.0	13149.4
60°	13238.4	19970.9	22230.1	17666.6	12289.1	14133.0	15789.5	12988.0
62.5°	15466.7	21990.4	24101.3	19757.3	14184.1	14529.3	14651.6	11744.5
65°	15899.8	22501.8	24206.9	20316.2	13939.6	12324.7	11961.6	9440.2
67.5°	14751.2	21577.5	22730.8	19275.6	12330.7	9524.5	8976.3	6848.8
70°	13462.6	19815.4	20158.4	17506.4	10845.1	7005.4	6062.1	4395.0
72.5°	12142.0	17464.9	16755.3	15203.3	9531.6	5101.0	4372.5	3124.2
75°	10573.4	14373.9	13198.0	12632.1	7891.8	4003.4	3163.4	2156.0
77.5°	8467.2	10117.7	9803.3	9791.4	5930.4	2924.9	2110.9	1351.5
80°	5973.1	6566.4	6406.2	7374.4	3978.5	2121.6	1270.8	752.3
82.5°	2891.6	3630.9	3727.0	4391.4	1935.3	1248.3	293.1	163.7
85°	1132.0	1751.4	1477.3	1667.1	543.4	347.7	7.1	0.0
87.5°	127.0	202.9	186.3	147.1	66.4	14.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)