

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: P953451

Luminaire Tested: **GALN-SB7A-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953451
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-SB7A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 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: 24347 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 199.1
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

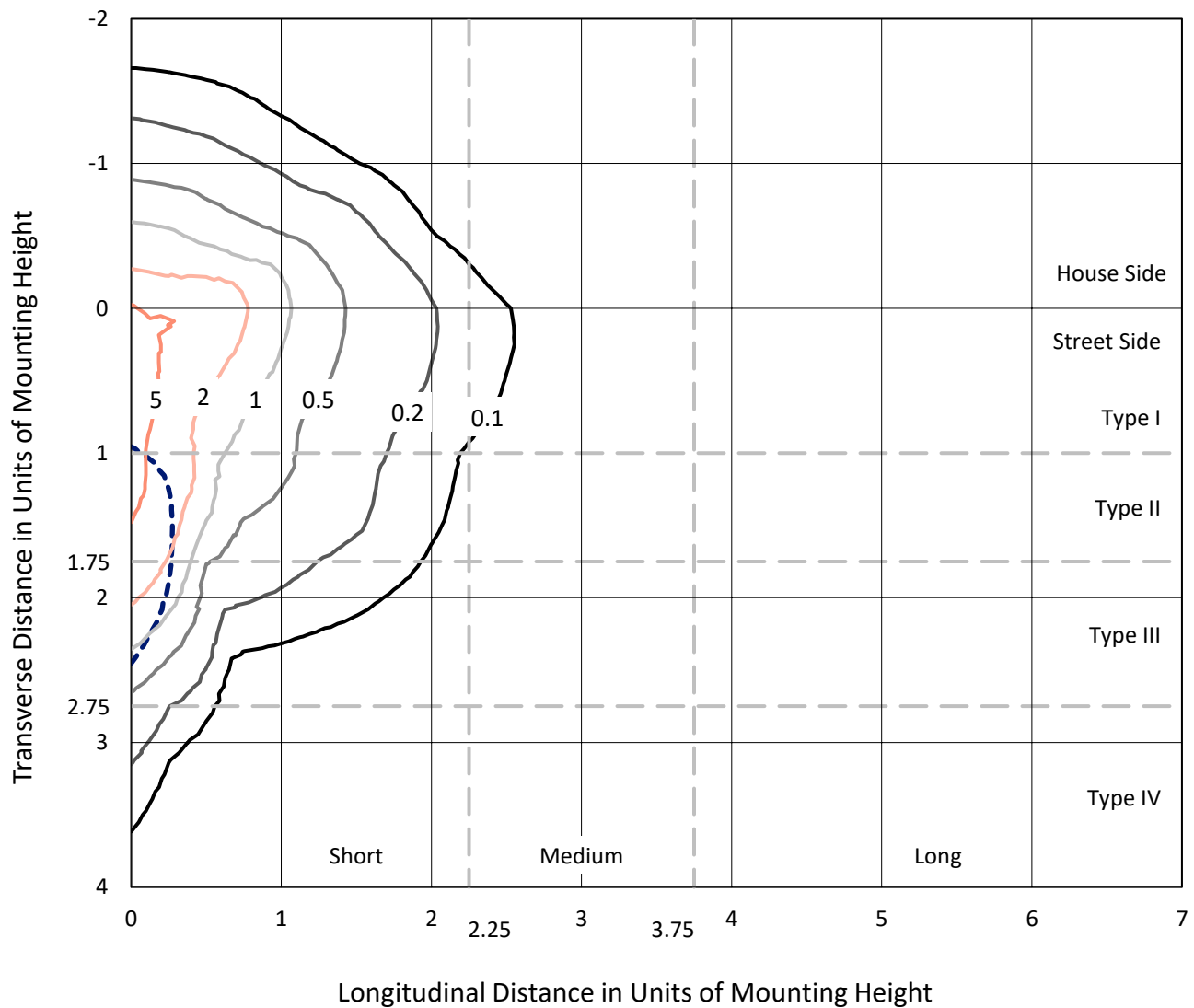


REPORT NUMBER: P953451

CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

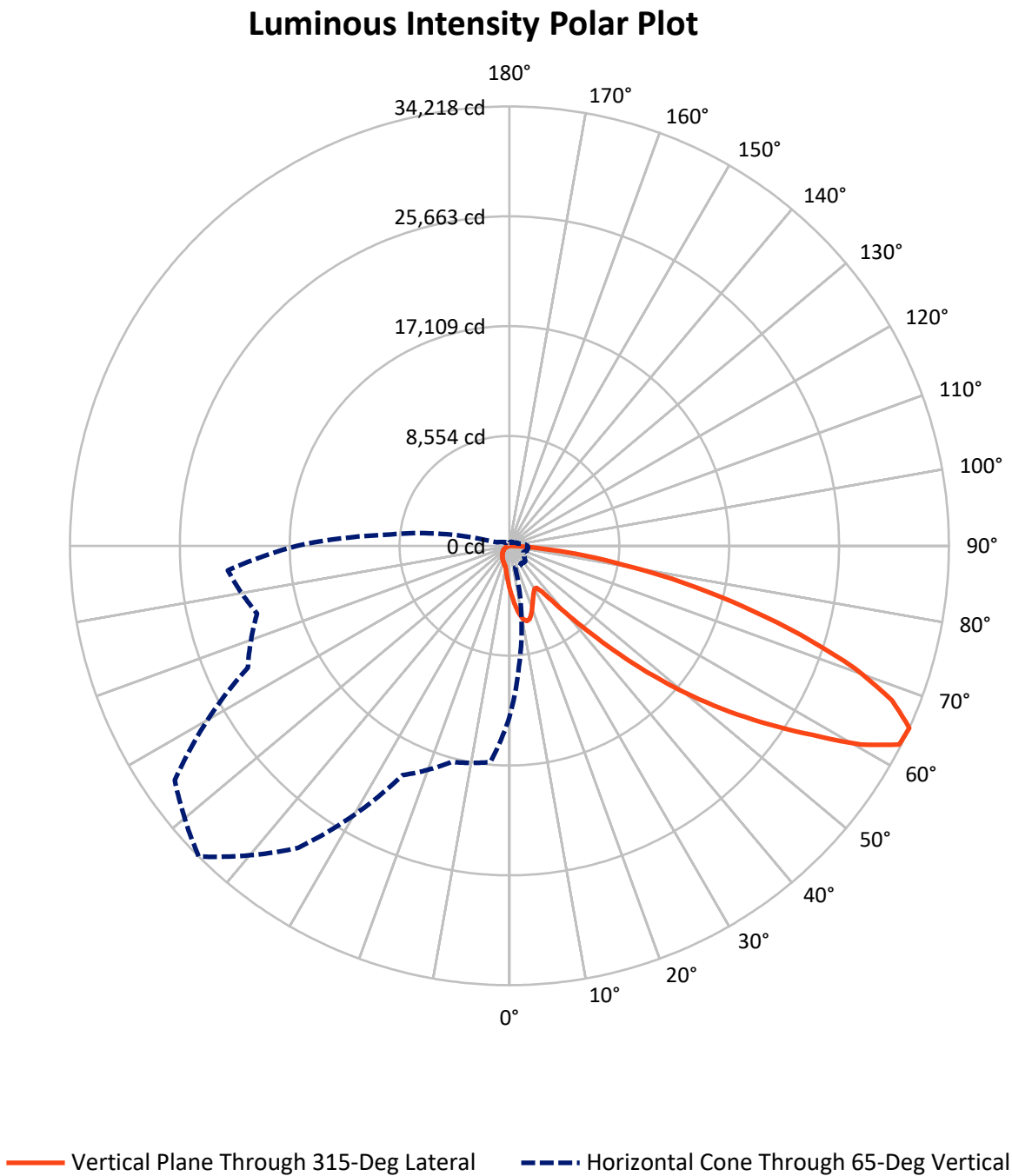
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - N/A

REPORT NUMBER: P953451
CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS



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CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

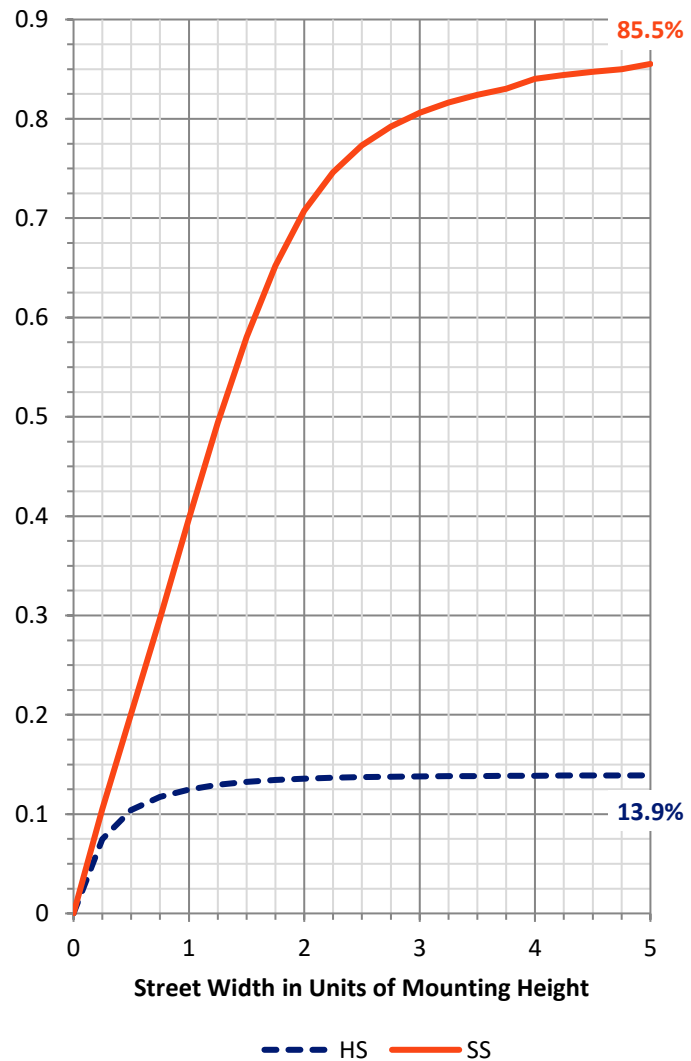
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3409.6	0.0	3409.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20937.4	0.0	20937.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	24347.0	0.0	24347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	1.4
10°-20°	995.0	4.1
20°-30°	1465.8	6.0
30°-40°	1883.2	7.7
40°-50°	3045.6	12.5
50°-60°	5340.8	21.9
60°-70°	6682.8	27.4
70°-80°	3905.1	16.0
80°-90°	696.7	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°	24347.0	100.0
0°-180°	24347.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953451

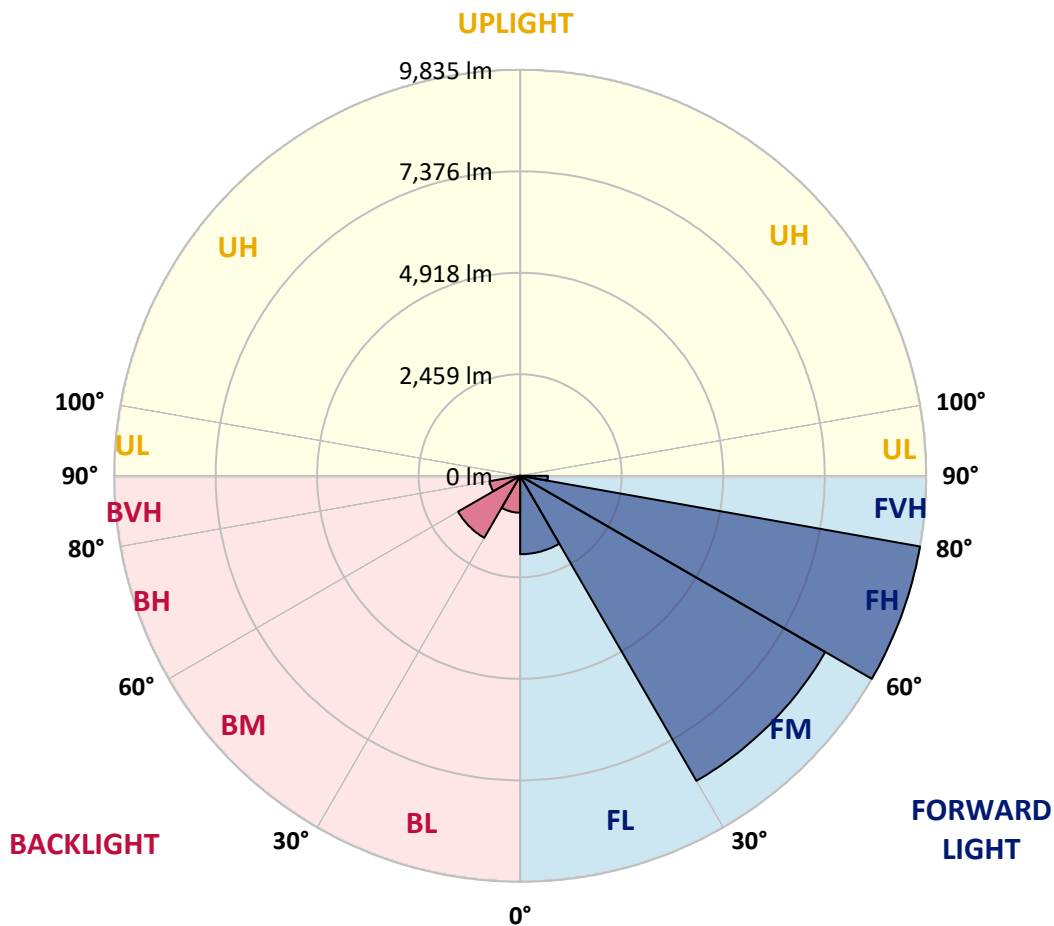
CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1899.0	7.8			
FM	(30°-60°)	8533.4	35.0			
FH	(60°-80°)	9835.1	40.4			G4/12000
FVH	(80°-90°)	670.0	2.8			G4/750
BL	(0°-30°)	893.7	3.7	B2/1000		
BM	(30°-60°)	1736.3	7.1	B2/2500		
BH	(60°-80°)	752.9	3.1	B2/1000		G2/1000
BVH	(80°-90°)	26.8	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: P953451

CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3
2.5°	3809.0	3743.6	3705.1	3609.5	3513.8	3436.7	3332.7	3263.9	3181.8	3102.9	3032.5
5°	4245.1	4139.5	4012.0	3837.6	3678.2	3515.5	3357.9	3201.9	3037.5	2886.6	2794.3
7.5°	4614.1	4461.5	4236.7	4005.3	3802.3	3606.1	3421.6	3215.3	3015.7	2779.2	2653.4
10°	4895.9	4701.3	4406.1	4102.6	3869.4	3671.5	3492.0	3317.6	3116.3	2831.2	2673.5
12.5°	5067.0	4859.0	4508.5	4152.9	3886.2	3664.8	3525.6	3448.4	3369.6	3086.1	2901.6
15°	5192.8	4968.0	4580.6	4188.1	3847.6	3575.9	3473.6	3550.7	3641.3	3460.2	3247.2
17.5°	5323.6	5087.1	4674.5	4203.2	3743.6	3403.1	3359.5	3559.1	3768.8	3760.4	3549.1
20°	5447.7	5212.9	4756.7	4193.1	3575.9	3193.5	3232.1	3487.0	3730.2	3832.5	3718.5
22.5°	5590.3	5342.1	4835.5	4154.6	3357.9	2997.3	3118.0	3373.0	3586.0	3706.7	3671.5
25°	5764.7	5504.7	4946.2	4097.5	3123.0	2834.6	3002.3	3240.5	3413.2	3497.1	3495.4
27.5°	5952.6	5699.3	5093.8	4067.3	2933.5	2718.8	2871.5	3082.8	3237.1	3295.8	3295.8
30°	6185.7	5925.7	5268.3	4033.8	2809.4	2651.7	2735.6	2900.0	3050.9	3109.6	3109.6
32.5°	6440.7	6177.3	5436.0	3953.3	2733.9	2601.4	2603.1	2707.1	2844.6	2915.1	2925.1
35°	6759.3	6479.2	5615.4	3777.2	2673.5	2542.7	2473.9	2524.3	2638.3	2722.2	2744.0
37.5°	7213.9	6875.1	5835.2	3525.6	2584.6	2452.1	2338.1	2349.8	2437.1	2529.3	2562.8
40°	7841.2	7406.8	6093.5	3263.9	2457.2	2324.7	2188.8	2183.8	2247.5	2338.1	2375.0
42.5°	8689.9	8109.5	6403.8	3014.0	2334.7	2170.4	2031.2	2022.8	2073.1	2151.9	2190.5
45°	9810.3	9008.5	6784.5	2799.3	2239.1	2019.4	1881.9	1878.5	1920.5	1989.2	2029.5
47.5°	11244.3	10258.1	7165.2	2653.4	2188.8	1900.3	1759.4	1766.1	1803.0	1865.1	1893.6
50°	13101.0	11886.7	7281.0	2579.6	2188.8	1836.6	1650.4	1684.0	1714.2	1761.1	1777.9
52.5°	15326.7	13449.9	6898.5	2512.5	2202.2	1845.0	1558.2	1630.3	1652.1	1692.3	1699.1
55°	17389.8	14216.4	5930.8	2420.3	2205.6	1897.0	1479.3	1586.7	1626.9	1642.0	1640.4
57.5°	18587.3	13953.1	4795.3	2264.3	2192.2	1932.2	1429.0	1533.0	1610.2	1620.2	1605.1
60°	18359.2	13028.9	3530.6	2145.2	2093.2	1918.8	1413.9	1450.8	1573.3	1588.4	1568.2
62.5°	16601.5	11479.1	2450.5	2053.0	1875.2	1860.1	1408.9	1321.7	1492.8	1529.7	1501.1
65°	13344.2	9037.0	1730.9	1767.8	1643.7	1732.6	1382.1	1187.5	1395.5	1445.8	1402.2
67.5°	9681.1	6115.3	1249.6	1432.4	1489.4	1526.3	1321.7	1090.2	1284.8	1351.9	1294.8
70°	6212.5	3302.5	877.2	946.0	1254.6	1296.5	1217.7	1003.0	1172.4	1249.6	1187.5
72.5°	4416.2	1950.6	630.6	662.5	1008.0	1080.2	1071.8	905.7	1041.6	1135.5	1061.7
75°	3047.6	1075.1	426.0	473.0	731.3	877.2	826.9	778.2	882.2	977.8	905.7
77.5°	1910.4	481.4	254.9	328.7	479.7	689.4	566.9	602.1	687.7	776.6	701.1
80°	1063.4	186.2	142.6	218.0	261.7	501.5	313.6	387.4	506.5	570.3	509.9
82.5°	231.5	23.5	63.7	93.9	102.3	291.8	166.0	224.8	318.7	313.6	271.7
85°	0.0	0.0	11.7	13.4	6.7	125.8	60.4	73.8	104.0	97.3	73.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	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: P953451

CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3
2.5°	3019.1	2936.9	2876.5	2846.3	2821.1	2844.6	2858.0	2858.0	2915.1	2948.6	2962.0
5°	2735.6	2588.0	2475.6	2400.2	2354.9	2370.0	2386.7	2405.2	2477.3	2525.9	2557.8
7.5°	2539.4	2312.9	2141.9	2036.2	1980.8	1989.2	2001.0	2016.1	2086.5	2135.1	2177.1
10°	2502.5	2177.1	1935.6	1796.3	1729.2	1717.5	1710.8	1705.8	1747.7	1784.6	1818.1
12.5°	2653.4	2183.8	1846.7	1677.3	1595.1	1559.8	1519.6	1487.7	1494.4	1517.9	1559.8
15°	2923.5	2269.3	1818.1	1615.2	1512.9	1454.2	1407.2	1368.6	1360.3	1368.6	1375.3
17.5°	3232.1	2385.1	1814.8	1561.5	1434.1	1373.7	1335.1	1299.9	1288.1	1289.8	1298.2
20°	3436.7	2477.3	1804.7	1501.1	1358.6	1304.9	1271.4	1236.1	1224.4	1227.7	1229.4
22.5°	3456.8	2525.9	1789.6	1434.1	1283.1	1237.8	1204.3	1172.4	1170.7	1170.7	1180.8
25°	3347.8	2525.9	1757.8	1373.7	1211.0	1170.7	1140.5	1102.0	1108.7	1112.0	1125.4
27.5°	3178.4	2465.6	1697.4	1325.0	1148.9	1107.0	1076.8	1041.6	1050.0	1055.0	1070.1
30°	3010.7	2388.4	1625.3	1269.7	1090.2	1041.6	1019.8	989.6	992.9	999.6	1016.4
32.5°	2854.7	2306.2	1539.7	1224.4	1031.5	982.9	966.1	932.6	937.6	944.3	962.7
35°	2700.4	2215.7	1439.1	1170.7	977.8	929.2	915.8	877.2	880.6	890.6	910.7
37.5°	2534.3	2120.0	1356.9	1117.1	925.8	875.5	862.1	821.9	825.2	836.9	860.4
40°	2359.9	2026.1	1276.4	1060.0	870.5	820.2	808.4	764.8	768.2	781.6	806.8
42.5°	2183.8	1923.8	1214.3	986.2	813.5	759.8	748.1	707.8	712.8	727.9	753.1
45°	2021.1	1801.4	1174.1	904.0	759.8	699.4	687.7	650.8	660.8	677.6	702.8
47.5°	1881.9	1675.6	1157.3	835.3	702.8	637.4	627.3	597.1	613.9	632.3	652.5
50°	1762.8	1554.8	1135.5	764.8	649.1	583.7	573.6	553.5	575.3	593.7	612.2
52.5°	1677.3	1417.3	1088.5	701.1	602.1	538.4	535.0	525.0	545.1	561.9	578.7
55°	1603.5	1274.7	1013.1	645.7	560.2	499.8	503.2	498.1	514.9	528.3	543.4
57.5°	1536.4	1150.6	917.5	602.1	514.9	466.3	476.3	469.6	478.0	486.4	504.9
60°	1455.9	1024.8	803.4	553.5	461.2	432.7	444.5	426.0	424.3	427.7	432.7
62.5°	1336.8	855.4	684.3	493.1	414.3	395.8	400.9	365.6	338.8	338.8	343.8
65°	1170.7	687.7	573.6	426.0	360.6	345.5	342.2	291.8	254.9	251.6	266.7
67.5°	977.8	565.2	476.3	358.9	300.2	290.2	293.5	256.6	219.7	216.4	233.1
70°	796.7	468.0	384.1	286.8	231.5	241.5	256.6	219.7	184.5	179.5	194.6
72.5°	647.4	372.4	300.2	219.7	171.1	199.6	218.0	179.5	145.9	142.6	156.0
75°	499.8	273.4	214.7	149.3	124.1	154.3	171.1	130.8	104.0	99.0	110.7
77.5°	333.8	169.4	120.8	93.9	73.8	105.7	114.1	68.8	60.4	58.7	67.1
80°	202.9	78.8	52.0	45.3	25.2	38.6	45.3	28.5	31.9	33.5	40.3
82.5°	102.3	21.8	8.4	1.7	0.0	0.0	13.4	6.7	13.4	16.8	25.2
85°	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	8.4	15.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
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: P953451

CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3
2.5°	3056.0	3126.4	3193.5	3300.8	3411.5	3520.6	3631.3	3738.6	3777.2	3805.7	3869.4
5°	2703.7	2836.2	2990.5	3203.6	3431.7	3666.5	3904.6	4122.7	4221.6	4288.7	4439.7
7.5°	2339.8	2512.5	2733.9	3054.3	3411.5	3785.6	4159.6	4503.4	4662.8	4791.9	5021.7
10°	1979.2	2167.0	2447.1	2812.8	3295.8	3832.5	4349.1	4822.1	5028.4	5191.1	5503.1
12.5°	1662.2	1838.3	2131.8	2536.0	3114.7	3795.6	4458.1	5026.7	5269.9	5452.8	5794.9
15°	1439.1	1563.2	1823.2	2259.3	2900.0	3676.5	4464.9	5124.0	5390.7	5581.9	5878.8
17.5°	1315.0	1356.9	1526.3	1977.5	2661.8	3520.6	4402.8	5157.6	5442.7	5620.5	5826.8
20°	1247.9	1254.6	1301.5	1611.8	2356.5	3374.6	4344.1	5191.1	5491.3	5640.6	5702.7
22.5°	1194.2	1194.2	1205.9	1318.3	1962.4	3200.2	4325.6	5249.8	5558.4	5650.7	5523.2
25°	1145.6	1145.6	1148.9	1179.1	1554.8	2933.5	4313.9	5340.4	5650.7	5675.8	5325.3
27.5°	1095.2	1096.9	1096.9	1113.7	1252.9	2571.2	4263.6	5457.8	5761.4	5709.4	5135.8
30°	1044.9	1048.3	1048.3	1060.0	1108.7	2146.9	4164.6	5598.7	5905.6	5753.0	4947.9
32.5°	994.6	998.0	998.0	1008.0	1043.3	1714.2	4040.5	5727.8	6051.5	5771.4	4773.5
35°	942.6	947.6	944.3	957.7	994.6	1363.6	3882.8	5857.0	6209.2	5830.1	4687.9
37.5°	890.6	894.0	892.3	905.7	947.6	1177.4	3700.0	5954.3	6423.9	5961.0	4790.2
40°	838.6	836.9	836.9	852.0	897.3	1123.8	3470.2	6108.6	6732.5	6190.7	5236.4
42.5°	785.0	785.0	781.6	798.4	853.7	1083.5	3250.5	6385.3	7182.0	6556.4	6028.1
45°	736.3	734.6	727.9	743.0	811.8	1013.1	3173.4	6901.9	7846.2	7148.5	6985.8
47.5°	689.4	687.7	670.9	684.3	761.5	949.3	3461.9	7747.2	8767.0	8019.0	7883.1
50°	647.4	649.1	617.2	629.0	711.2	900.7	4087.5	8844.2	9989.7	9191.4	8733.5
52.5°	608.8	608.8	566.9	573.6	649.1	857.1	4682.9	10033.3	11603.2	10826.7	9724.7
55°	570.3	566.9	519.9	523.3	587.0	795.0	4771.8	11194.0	13803.8	13287.2	11079.9
57.5°	526.7	519.9	476.3	476.3	530.0	749.7	4136.1	12086.3	16534.4	16903.4	13033.9
60°	473.0	468.0	439.4	431.1	484.7	790.0	2918.4	12190.3	18295.5	21712.1	16775.9
62.5°	404.2	410.9	395.8	384.1	441.1	820.2	1729.2	11353.3	17869.5	23241.7	21257.5
65°	318.7	345.5	342.2	333.8	484.7	691.0	1021.4	9746.5	16562.9	22007.2	20343.4
67.5°	271.7	290.2	285.1	285.1	508.2	525.0	642.4	7614.7	14764.9	20543.0	18171.4
70°	231.5	249.9	231.5	231.5	384.1	318.7	444.5	5316.9	12824.3	18922.8	16745.7
72.5°	191.2	209.7	189.5	176.1	306.9	238.2	325.4	3322.6	10982.7	17235.5	15769.5
75°	145.9	167.7	152.6	135.9	202.9	177.8	246.6	1930.5	9099.1	14746.4	14379.1
77.5°	92.2	120.8	114.1	95.6	149.3	129.1	177.8	1148.9	7021.0	11522.7	12368.1
80°	57.0	62.1	63.7	60.4	85.5	87.2	120.8	654.1	4805.3	8030.7	9662.7
82.5°	36.9	36.9	28.5	31.9	41.9	50.3	68.8	246.6	2824.5	4889.2	6725.8
85°	26.8	23.5	15.1	15.1	20.1	25.2	26.8	75.5	1145.6	1930.5	2629.9
87.5°	13.4	11.7	5.0	6.7	10.1	8.4	6.7	3.4	288.5	617.2	432.7
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: P953451

CATALOG NUMBER: GALN-SB7A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3	3371.3
2.5°	3903.0	3955.0	3958.3	3958.3	3913.0	3911.4	3819.1	3809.0
5°	4595.7	4629.2	4637.6	4620.8	4530.3	4463.2	4283.7	4245.1
7.5°	5229.7	5296.8	5296.8	5256.5	5108.9	4971.4	4711.4	4614.1
10°	5736.2	5813.4	5796.6	5714.4	5528.2	5338.7	5023.4	4895.9
12.5°	5982.8	6061.6	6018.0	5924.1	5742.9	5543.3	5211.2	5067.0
15°	5977.7	5955.9	5910.6	5898.9	5811.7	5660.7	5350.4	5192.8
17.5°	5764.7	5580.2	5545.0	5662.4	5773.1	5736.2	5471.2	5323.6
20°	5427.6	5105.6	5073.7	5298.4	5613.8	5774.8	5583.6	5447.7
22.5°	5072.0	4724.8	4651.0	4899.3	5373.9	5786.5	5726.1	5590.3
25°	4734.9	4386.0	4312.2	4543.7	5107.2	5766.4	5880.5	5764.7
27.5°	4453.1	4116.0	4047.2	4278.7	4850.6	5709.4	6034.8	5952.6
30°	4235.1	3923.1	3872.8	4095.9	4629.2	5638.9	6231.0	6185.7
32.5°	4107.6	3879.5	3897.9	4080.8	4510.1	5561.8	6418.9	6440.7
35°	4233.4	4243.5	4404.5	4479.9	4620.8	5550.0	6673.8	6759.3
37.5°	4859.0	5207.9	5541.6	5479.6	5162.6	5685.9	7054.5	7213.9
40°	5924.1	6640.2	7182.0	6945.5	6147.1	6101.8	7603.0	7841.2
42.5°	7225.6	8439.9	9332.2	8698.2	7416.8	6829.8	8386.3	8689.9
45°	8599.3	10658.9	12064.5	10746.2	8770.4	7849.5	9572.1	9810.3
47.5°	10046.8	13356.0	15174.1	13017.2	10024.9	9010.2	11189.0	11244.3
50°	11630.1	16313.0	18344.1	15286.5	11235.9	10340.3	13164.8	13101.0
52.5°	13137.9	19353.8	21447.0	17565.9	12299.3	11990.7	15457.6	15326.7
55°	14577.0	22393.0	24568.4	19756.4	13302.3	14171.1	18181.4	17389.8
57.5°	16245.9	25125.3	27785.4	21956.9	14704.5	17002.3	21227.3	18587.3
60°	18713.1	28229.9	31423.4	24972.6	17371.3	19977.8	22319.2	18359.2
62.5°	21863.0	31084.5	34068.4	27928.0	20049.9	20538.0	20710.7	16601.5
65°	22475.2	31807.4	34217.7	28717.9	19704.4	17421.6	16908.4	13344.2
67.5°	20851.6	30500.9	32131.2	27247.0	17430.0	13463.3	12688.4	9681.1
70°	19030.1	28010.1	28494.9	24746.2	15330.1	9902.5	8569.1	6212.5
72.5°	17163.3	24687.5	23684.5	21490.7	13473.4	7210.5	6180.7	4416.2
75°	14946.0	20318.3	18656.1	17856.0	11155.4	5659.1	4471.6	3047.6
77.5°	11968.9	14301.9	13857.5	13840.7	8382.9	4134.4	2983.8	1910.4
80°	8443.3	9281.9	9055.5	10424.1	5623.8	2998.9	1796.3	1063.4
82.5°	4087.5	5132.4	5268.3	6207.5	2735.6	1764.5	414.3	231.5
85°	1600.1	2475.6	2088.2	2356.5	768.2	491.4	10.1	0.0
87.5°	179.5	286.8	263.3	208.0	93.9	20.1	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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