

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: P945954

Luminaire Tested: **GALN-SB1D-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945954
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-SB1D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

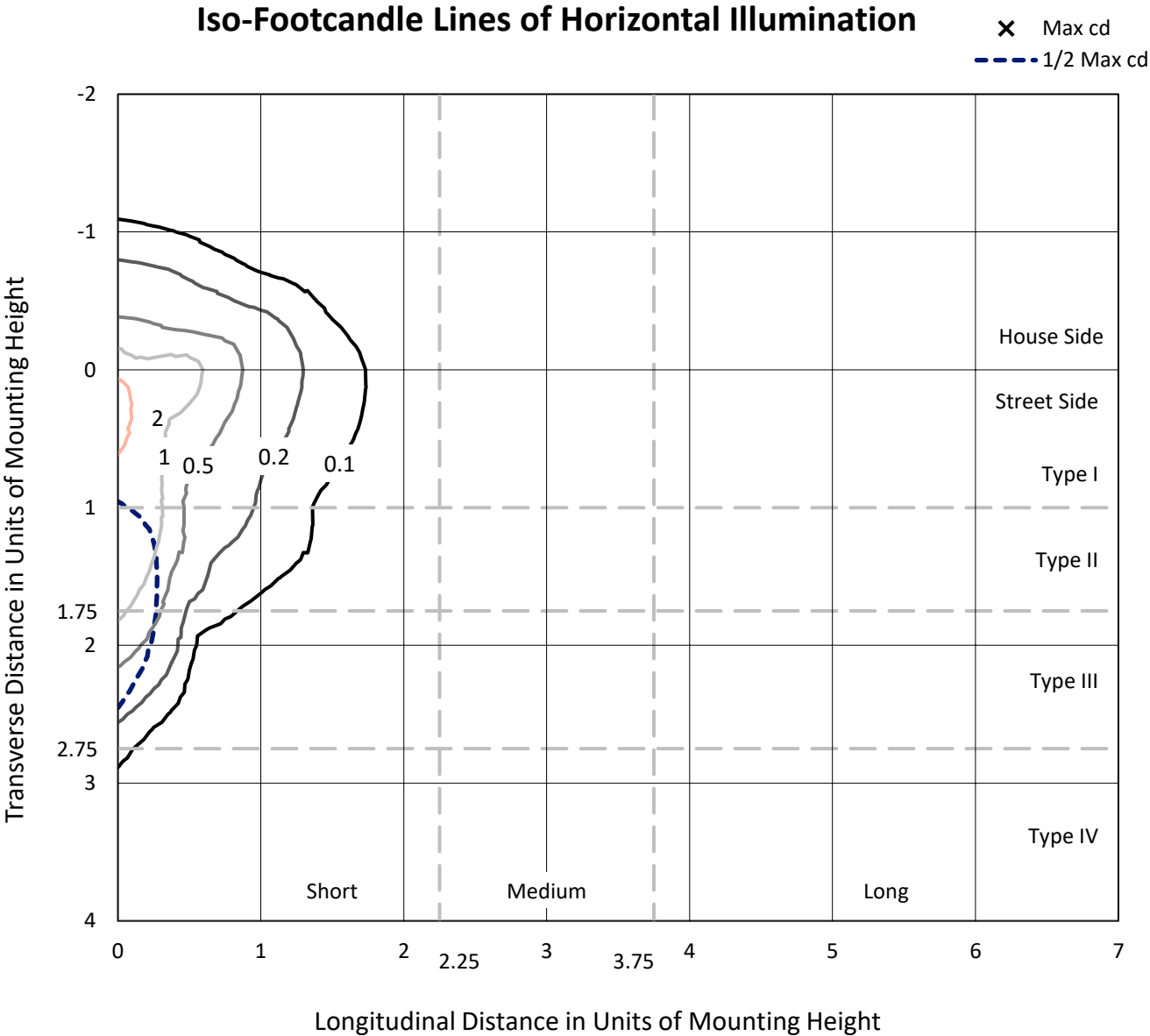
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7769 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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



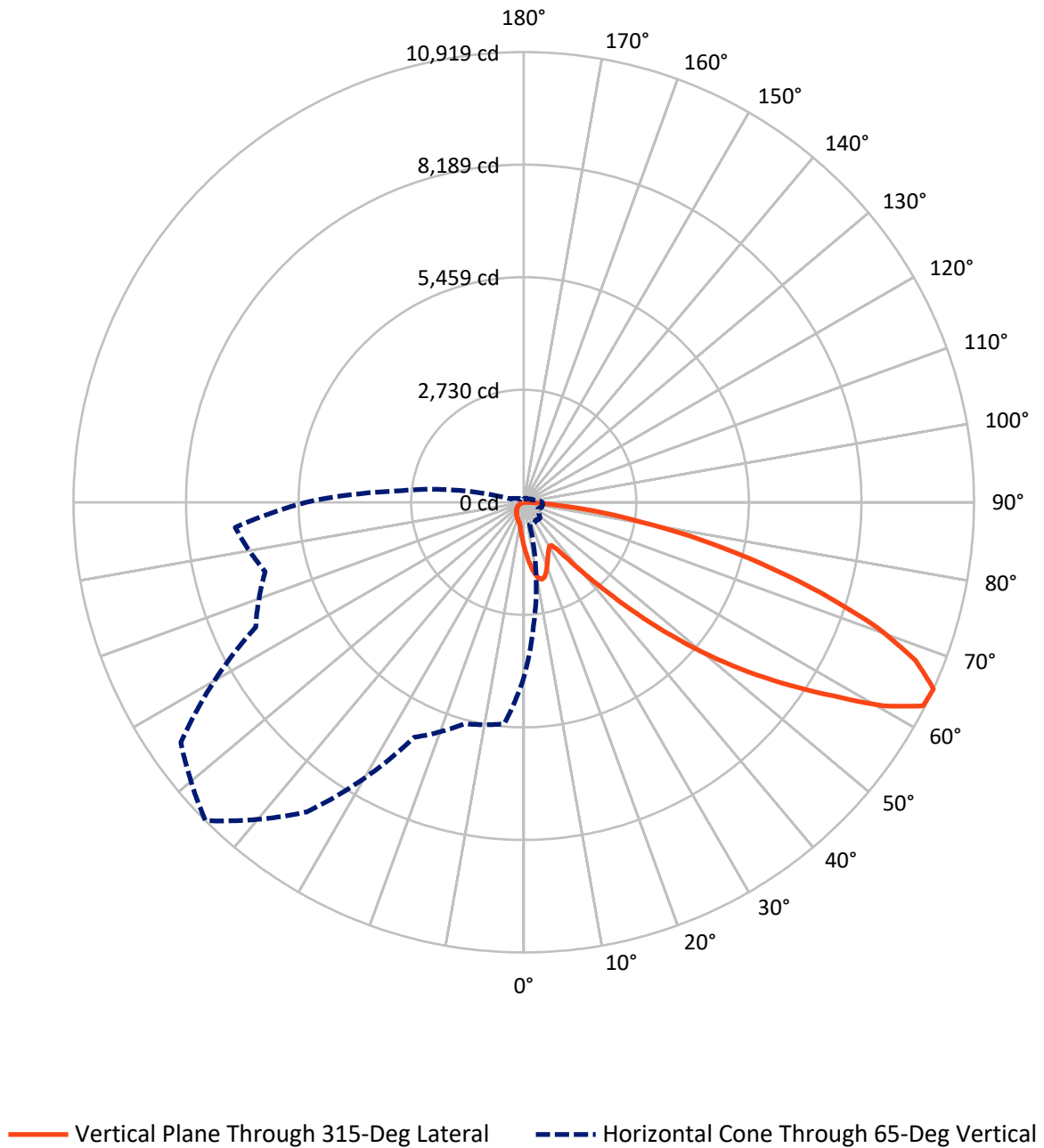
REPORT NUMBER: P945954
CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

REPORT NUMBER: P945954
CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945954

CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

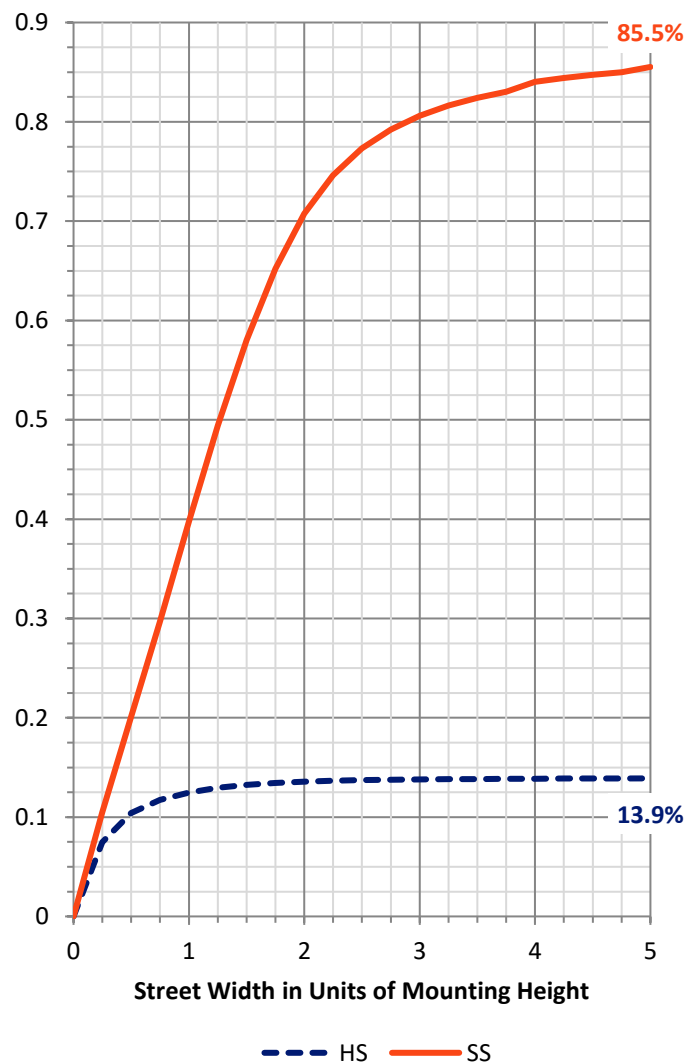
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.0	0.0	1088.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6681.0	0.0	6681.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	7769.0	0.0	7769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.4
10°-20°	317.5	4.1
20°-30°	467.7	6.0
30°-40°	600.9	7.7
40°-50°	971.8	12.5
50°-60°	1704.2	21.9
60°-70°	2132.5	27.4
70°-80°	1246.1	16.0
80°-90°	222.3	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°	7769.0	100.0
0°-180°	7769.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945954

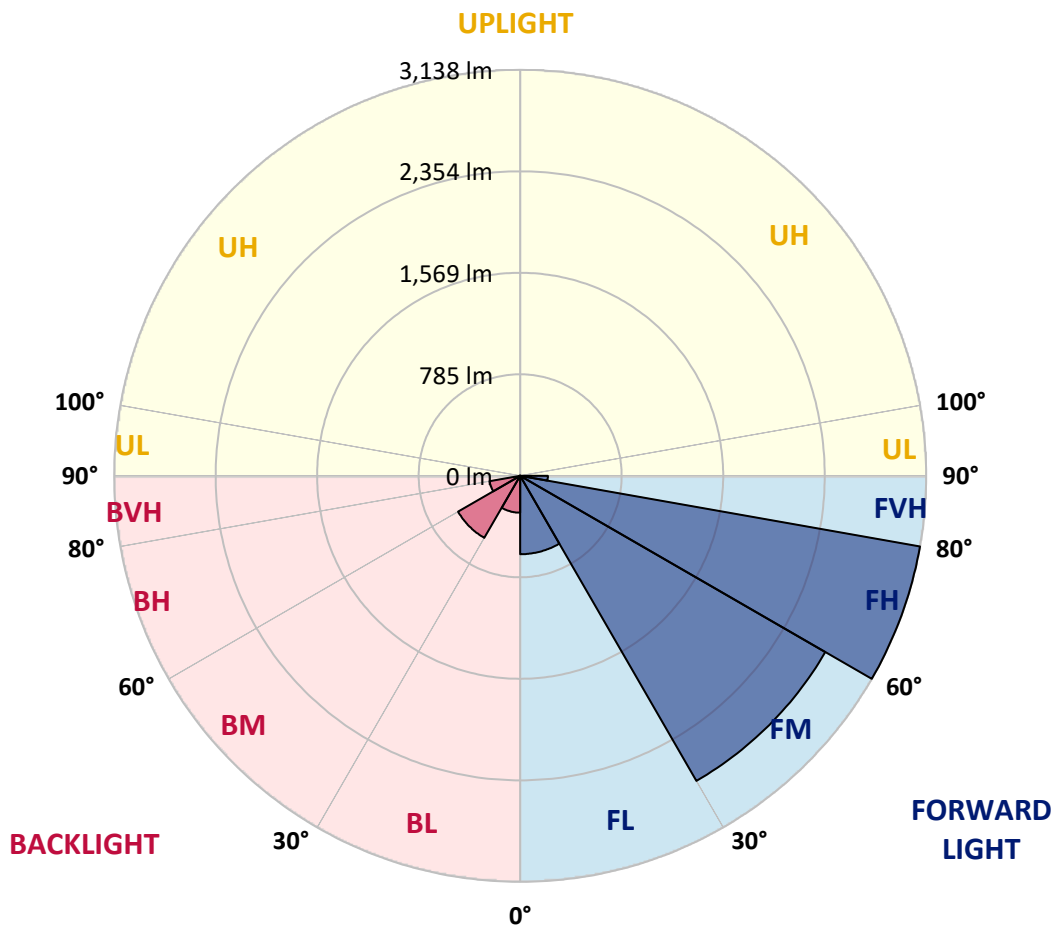
CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.0	7.8			
FM	(30°-60°)	2722.9	35.0			
FH	(60°-80°)	3138.3	40.4			G2/5000
FVH	(80°-90°)	213.8	2.8			G2/225
BL	(0°-30°)	285.2	3.7	B1/500		
BM	(30°-60°)	554.0	7.1	B1/1000		
BH	(60°-80°)	240.2	3.1	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P945954

CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	1215.4	1194.6	1182.3	1151.8	1121.3	1096.6	1063.4	1041.5	1015.3	990.1	967.6
5°	1354.6	1320.9	1280.2	1224.5	1173.7	1121.8	1071.5	1021.7	969.3	921.1	891.6
7.5°	1472.3	1423.6	1351.9	1278.1	1213.3	1150.7	1091.8	1026.0	962.3	886.8	846.7
10°	1562.3	1500.2	1406.0	1309.1	1234.7	1171.6	1114.3	1058.6	994.4	903.4	853.1
12.5°	1616.8	1550.5	1438.6	1325.2	1240.1	1169.4	1125.0	1100.4	1075.2	984.8	925.9
15°	1657.0	1585.3	1461.6	1336.4	1227.8	1141.1	1108.4	1133.0	1161.9	1104.1	1036.2
17.5°	1698.7	1623.3	1491.6	1341.2	1194.6	1085.9	1072.0	1135.7	1202.6	1199.9	1132.5
20°	1738.3	1663.4	1517.8	1338.0	1141.1	1019.0	1031.3	1112.7	1190.3	1222.9	1186.5
22.5°	1783.8	1704.6	1543.0	1325.7	1071.5	956.4	994.9	1076.3	1144.3	1182.8	1171.6
25°	1839.5	1756.5	1578.3	1307.5	996.5	904.5	958.0	1034.0	1089.1	1115.9	1115.4
27.5°	1899.4	1818.6	1625.4	1297.9	936.1	867.6	916.3	983.7	1032.9	1051.7	1051.7
30°	1973.8	1890.9	1681.1	1287.2	896.5	846.2	872.9	925.4	973.5	992.3	992.3
32.5°	2055.2	1971.2	1734.6	1261.5	872.4	830.1	830.6	863.8	907.7	930.2	933.4
35°	2156.9	2067.5	1791.9	1205.3	853.1	811.4	789.4	805.5	841.9	868.6	875.6
37.5°	2301.9	2193.8	1862.0	1125.0	824.7	782.5	746.1	749.8	777.6	807.1	817.8
40°	2502.1	2363.5	1944.4	1041.5	784.1	741.8	698.4	696.8	717.2	746.1	757.8
42.5°	2772.9	2587.7	2043.4	961.8	745.0	692.6	648.1	645.5	661.5	686.7	699.0
45°	3130.4	2874.6	2164.9	893.3	714.5	644.4	600.5	599.4	612.8	634.8	647.6
47.5°	3588.0	3273.3	2286.4	846.7	698.4	606.4	561.4	563.6	575.3	595.1	604.2
50°	4180.5	3793.0	2323.3	823.1	698.4	586.0	526.6	537.3	547.0	562.0	567.3
52.5°	4890.7	4291.8	2201.3	801.7	702.7	588.7	497.2	520.2	527.2	540.0	542.2
55°	5549.0	4536.4	1892.5	772.3	703.8	605.3	472.0	506.3	519.1	524.0	523.4
57.5°	5931.1	4452.4	1530.1	722.5	699.5	616.6	456.0	489.2	513.8	517.0	512.2
60°	5858.3	4157.5	1126.6	684.5	667.9	612.3	451.2	463.0	502.0	506.8	500.4
62.5°	5297.4	3662.9	781.9	655.1	598.4	593.5	449.6	421.7	476.3	488.1	479.0
65°	4258.1	2883.7	552.3	564.1	524.5	552.9	441.0	378.9	445.3	461.3	447.4
67.5°	3089.2	1951.3	398.7	457.1	475.3	487.0	421.7	347.9	410.0	431.4	413.2
70°	1982.4	1053.8	279.9	301.9	400.3	413.7	388.6	320.1	374.1	398.7	378.9
72.5°	1409.2	622.4	201.2	211.4	321.7	344.7	342.0	289.0	332.4	362.3	338.8
75°	972.5	343.1	135.9	150.9	233.3	279.9	263.9	248.3	281.5	312.0	289.0
77.5°	609.6	153.6	81.4	104.9	153.1	220.0	180.9	192.1	219.4	247.8	223.7
80°	339.3	59.4	45.5	69.6	83.5	160.0	100.1	123.6	161.6	182.0	162.7
82.5°	73.9	7.5	20.3	30.0	32.6	93.1	53.0	71.7	101.7	100.1	86.7
85°	0.0	0.0	3.7	4.3	2.1	40.1	19.3	23.5	33.2	31.0	23.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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: P945954

CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	963.4	937.1	917.9	908.2	900.2	907.7	912.0	912.0	930.2	940.9	945.2
5°	872.9	825.8	790.0	765.9	751.4	756.2	761.6	767.5	790.5	806.0	816.2
7.5°	810.3	738.0	683.5	649.7	632.1	634.8	638.5	643.3	665.8	681.3	694.7
10°	798.5	694.7	617.6	573.2	551.8	548.0	545.9	544.3	557.7	569.5	580.2
12.5°	846.7	696.8	589.3	535.2	509.0	497.7	484.9	474.7	476.9	484.4	497.7
15°	932.9	724.1	580.2	515.4	482.8	464.0	449.0	436.7	434.0	436.7	438.9
17.5°	1031.3	761.1	579.1	498.3	457.6	438.3	426.0	414.8	411.0	411.6	414.2
20°	1096.6	790.5	575.9	479.0	433.5	416.4	405.7	394.4	390.7	391.8	392.3
22.5°	1103.1	806.0	571.1	457.6	409.4	395.0	384.3	374.1	373.6	373.6	376.8
25°	1068.3	806.0	560.9	438.3	386.4	373.6	363.9	351.6	353.8	354.8	359.1
27.5°	1014.2	786.7	541.6	422.8	366.6	353.2	343.6	332.4	335.0	336.6	341.5
30°	960.7	762.1	518.6	405.1	347.9	332.4	325.4	315.8	316.8	319.0	324.3
32.5°	910.9	735.9	491.3	390.7	329.1	313.6	308.3	297.6	299.2	301.3	307.2
35°	861.7	707.0	459.2	373.6	312.0	296.5	292.2	279.9	281.0	284.2	290.6
37.5°	808.7	676.5	433.0	356.4	295.4	279.4	275.1	262.2	263.3	267.1	274.6
40°	753.0	646.5	407.3	338.2	277.8	261.7	258.0	244.1	245.1	249.4	257.4
42.5°	696.8	613.9	387.5	314.7	259.6	242.4	238.7	225.9	227.5	232.3	240.3
45°	644.9	574.8	374.6	288.5	242.4	223.2	219.4	207.7	210.9	216.2	224.3
47.5°	600.5	534.7	369.3	266.5	224.3	203.4	200.2	190.5	195.9	201.8	208.2
50°	562.5	496.1	362.3	244.1	207.1	186.3	183.0	176.6	183.6	189.5	195.3
52.5°	535.2	452.2	347.3	223.7	192.1	171.8	170.7	167.5	173.9	179.3	184.6
55°	511.7	406.8	323.3	206.1	178.8	159.5	160.6	159.0	164.3	168.6	173.4
57.5°	490.2	367.1	292.8	192.1	164.3	148.8	152.0	149.9	152.5	155.2	161.1
60°	464.6	327.0	256.4	176.6	147.2	138.1	141.8	135.9	135.4	136.5	138.1
62.5°	426.6	273.0	218.4	157.3	132.2	126.3	127.9	116.7	108.1	108.1	109.7
65°	373.6	219.4	183.0	135.9	115.1	110.3	109.2	93.1	81.4	80.3	85.1
67.5°	312.0	180.4	152.0	114.5	95.8	92.6	93.7	81.9	70.1	69.0	74.4
70°	254.2	149.3	122.6	91.5	73.9	77.1	81.9	70.1	58.9	57.3	62.1
72.5°	206.6	118.8	95.8	70.1	54.6	63.7	69.6	57.3	46.6	45.5	49.8
75°	159.5	87.2	68.5	47.6	39.6	49.2	54.6	41.7	33.2	31.6	35.3
77.5°	106.5	54.1	38.5	30.0	23.5	33.7	36.4	21.9	19.3	18.7	21.4
80°	64.8	25.2	16.6	14.5	8.0	12.3	14.5	9.1	10.2	10.7	12.8
82.5°	32.6	7.0	2.7	0.5	0.0	0.0	4.3	2.1	4.3	5.4	8.0
85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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: P945954

CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	975.1	997.6	1019.0	1053.3	1088.6	1123.4	1158.7	1193.0	1205.3	1214.4	1234.7
5°	862.7	905.0	954.3	1022.2	1095.0	1170.0	1246.0	1315.5	1347.1	1368.5	1416.7
7.5°	746.6	801.7	872.4	974.6	1088.6	1208.0	1327.3	1437.0	1487.9	1529.1	1602.4
10°	631.5	691.5	780.9	897.5	1051.7	1222.9	1387.8	1538.7	1604.5	1656.5	1756.0
12.5°	530.4	586.6	680.2	809.2	993.9	1211.2	1422.6	1604.0	1681.6	1739.9	1849.1
15°	459.2	498.8	581.8	720.9	925.4	1173.2	1424.7	1635.0	1720.1	1781.2	1875.9
17.5°	419.6	433.0	487.0	631.0	849.4	1123.4	1404.9	1645.7	1736.7	1793.5	1859.3
20°	398.2	400.3	415.3	514.3	752.0	1076.8	1386.2	1656.5	1752.3	1799.9	1819.7
22.5°	381.1	381.1	384.8	420.7	626.2	1021.2	1380.3	1675.2	1773.7	1803.1	1762.4
25°	365.5	365.5	366.6	376.2	496.1	936.1	1376.5	1704.1	1803.1	1811.1	1699.3
27.5°	349.5	350.0	350.0	355.4	399.8	820.5	1360.5	1741.6	1838.4	1821.8	1638.8
30°	333.4	334.5	334.5	338.2	353.8	685.1	1328.9	1786.5	1884.4	1835.7	1578.8
32.5°	317.4	318.4	318.4	321.7	332.9	547.0	1289.3	1827.7	1931.0	1841.6	1523.2
35°	300.8	302.4	301.3	305.6	317.4	435.1	1239.0	1868.9	1981.3	1860.4	1495.9
37.5°	284.2	285.3	284.7	289.0	302.4	375.7	1180.7	1900.0	2049.8	1902.1	1528.5
40°	267.6	267.1	267.1	271.9	286.3	358.6	1107.3	1949.2	2148.3	1975.4	1670.9
42.5°	250.5	250.5	249.4	254.8	272.4	345.7	1037.2	2037.5	2291.7	2092.1	1923.5
45°	235.0	234.4	232.3	237.1	259.0	323.3	1012.6	2202.4	2503.7	2281.0	2229.1
47.5°	220.0	219.4	214.1	218.4	243.0	302.9	1104.7	2472.1	2797.5	2558.8	2515.5
50°	206.6	207.1	197.0	200.7	226.9	287.4	1304.3	2822.1	3187.7	2932.9	2786.8
52.5°	194.3	194.3	180.9	183.0	207.1	273.5	1494.3	3201.6	3702.5	3454.7	3103.1
55°	182.0	180.9	165.9	167.0	187.3	253.7	1522.7	3571.9	4404.7	4239.9	3535.6
57.5°	168.1	165.9	152.0	152.0	169.1	239.2	1319.8	3856.7	5276.0	5393.8	4159.1
60°	150.9	149.3	140.2	137.5	154.7	252.1	931.3	3889.9	5838.0	6928.2	5353.1
62.5°	129.0	131.1	126.3	122.6	140.8	261.7	551.8	3622.8	5702.1	7416.3	6783.2
65°	101.7	110.3	109.2	106.5	154.7	220.5	325.9	3110.1	5285.1	7022.4	6491.5
67.5°	86.7	92.6	91.0	91.0	162.2	167.5	205.0	2429.8	4711.4	6555.2	5798.4
70°	73.9	79.7	73.9	73.9	122.6	101.7	141.8	1696.6	4092.2	6038.2	5343.5
72.5°	61.0	66.9	60.5	56.2	97.9	76.0	103.8	1060.2	3504.5	5499.7	5032.0
75°	46.6	53.5	48.7	43.4	64.8	56.7	78.7	616.0	2903.5	4705.5	4588.3
77.5°	29.4	38.5	36.4	30.5	47.6	41.2	56.7	366.6	2240.4	3676.8	3946.6
80°	18.2	19.8	20.3	19.3	27.3	27.8	38.5	208.7	1533.4	2562.6	3083.3
82.5°	11.8	11.8	9.1	10.2	13.4	16.1	21.9	78.7	901.3	1560.1	2146.2
85°	8.6	7.5	4.8	4.8	6.4	8.0	8.6	24.1	365.5	616.0	839.2
87.5°	4.3	3.7	1.6	2.1	3.2	2.7	2.1	1.1	92.1	197.0	138.1
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: P945954

CATALOG NUMBER: GALN-SB1D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	1245.4	1262.0	1263.1	1263.1	1248.6	1248.1	1218.7	1215.4
5°	1466.5	1477.2	1479.8	1474.5	1445.6	1424.2	1366.9	1354.6
7.5°	1668.8	1690.2	1690.2	1677.3	1630.2	1586.3	1503.4	1472.3
10°	1830.4	1855.0	1849.7	1823.4	1764.0	1703.6	1602.9	1562.3
12.5°	1909.1	1934.2	1920.3	1890.3	1832.5	1768.8	1662.9	1616.8
15°	1907.5	1900.5	1886.1	1882.3	1854.5	1806.3	1707.3	1657.0
17.5°	1839.5	1780.6	1769.4	1806.8	1842.2	1830.4	1745.8	1698.7
20°	1731.9	1629.2	1619.0	1690.7	1791.3	1842.7	1781.7	1738.3
22.5°	1618.5	1507.7	1484.1	1563.3	1714.8	1846.5	1827.2	1783.8
25°	1510.9	1399.6	1376.0	1449.9	1629.7	1840.0	1876.4	1839.5
27.5°	1421.0	1313.4	1291.4	1365.3	1547.8	1821.8	1925.7	1899.4
30°	1351.4	1251.8	1235.8	1307.0	1477.2	1799.4	1988.3	1973.8
32.5°	1310.7	1237.9	1243.8	1302.1	1439.2	1774.7	2048.2	2055.2
35°	1350.9	1354.1	1405.4	1429.5	1474.5	1771.0	2129.6	2156.9
37.5°	1550.5	1661.8	1768.3	1748.5	1647.4	1814.3	2251.1	2301.9
40°	1890.3	2118.9	2291.7	2216.3	1961.5	1947.1	2426.1	2502.1
42.5°	2305.7	2693.1	2977.9	2775.6	2366.7	2179.3	2676.0	2772.9
45°	2744.0	3401.2	3849.7	3429.0	2798.6	2504.7	3054.4	3130.4
47.5°	3205.9	4261.8	4842.0	4153.7	3198.9	2875.1	3570.3	3588.0
50°	3711.1	5205.4	5853.5	4877.8	3585.3	3299.5	4200.8	4180.5
52.5°	4192.2	6175.7	6843.6	5605.2	3924.6	3826.2	4932.4	4890.7
55°	4651.4	7145.5	7839.7	6304.2	4244.7	4521.9	5801.6	5549.0
57.5°	5184.0	8017.3	8866.2	7006.3	4692.1	5425.4	6773.5	5931.1
60°	5971.3	9008.0	10027.0	7968.6	5543.1	6374.8	7121.9	5858.3
62.5°	6976.4	9918.9	10871.0	8911.7	6397.8	6553.6	6608.7	5297.4
65°	7171.7	10149.6	10918.7	9163.7	6287.6	5559.2	5395.4	4258.1
67.5°	6653.6	9732.7	10252.9	8694.4	5561.8	4296.1	4048.8	3089.2
70°	6072.4	8937.9	9092.6	7896.4	4891.8	3159.8	2734.4	1982.4
72.5°	5476.7	7877.7	7557.6	6857.6	4299.3	2300.8	1972.2	1409.2
75°	4769.2	6483.4	5953.1	5697.8	3559.6	1805.8	1426.9	972.5
77.5°	3819.2	4563.7	4421.8	4416.5	2674.9	1319.3	952.1	609.6
80°	2694.2	2961.8	2889.6	3326.3	1794.5	956.9	573.2	339.3
82.5°	1304.3	1637.7	1681.1	1980.8	872.9	563.0	132.2	73.9
85°	510.6	790.0	666.3	752.0	245.1	156.8	3.2	0.0
87.5°	57.3	91.5	84.0	66.4	30.0	6.4	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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