

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: P949881

Luminaire Tested: **GALN-SB4C-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949881
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-SB4C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 22907 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 200.7
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

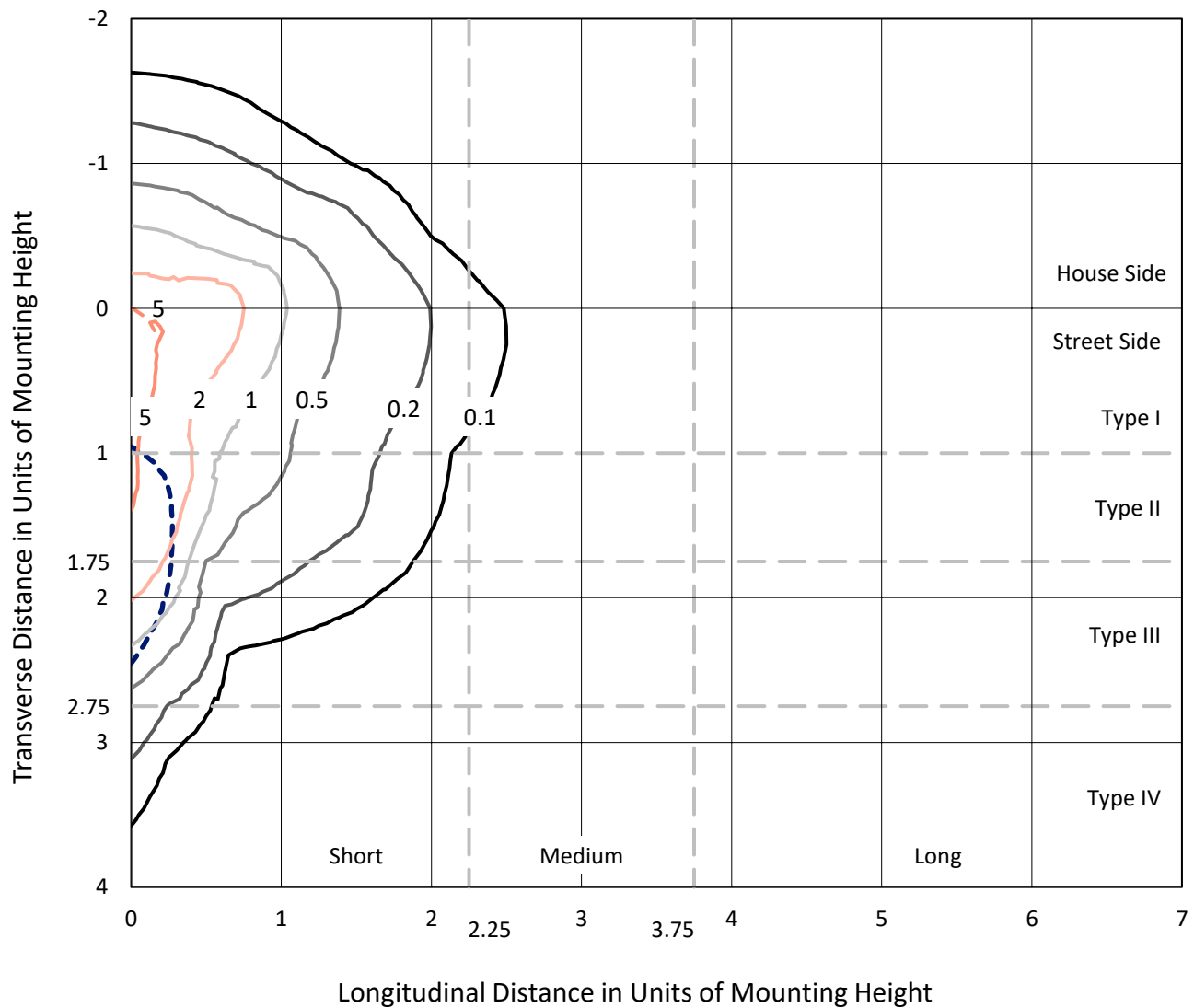


REPORT NUMBER: P949881

CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS

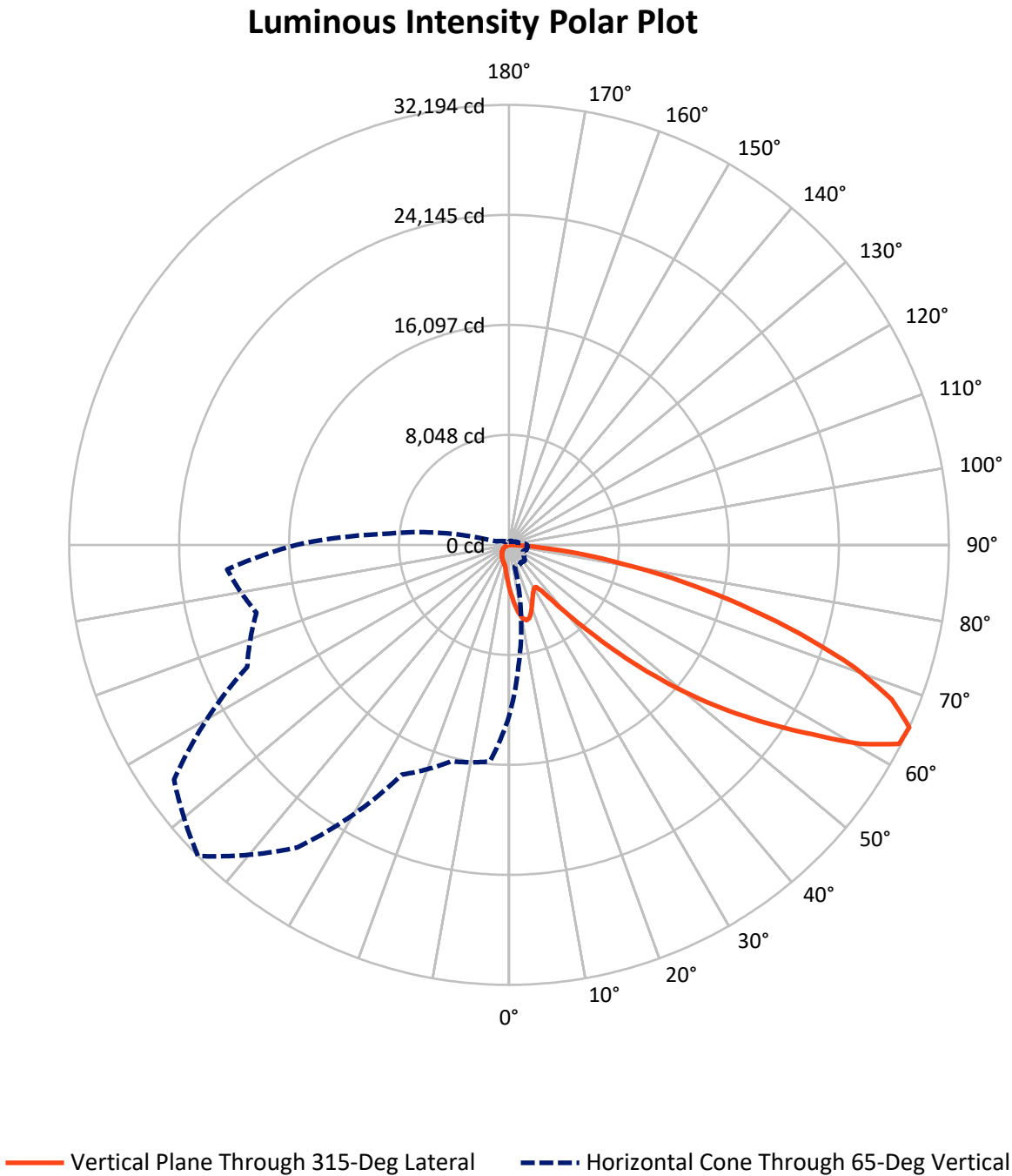
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type IV - Short - N/A

REPORT NUMBER: P949881
CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3208.0	0.0	3208.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19699.0	0.0	19699.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	22907.0	0.0	22907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	1.4
10°-20°	936.1	4.1
20°-30°	1379.1	6.0
30°-40°	1771.8	7.7
40°-50°	2865.5	12.5
50°-60°	5024.9	21.9
60°-70°	6287.6	27.4
70°-80°	3674.2	16.0
80°-90°	655.5	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°	22907.0	100.0
0°-180°	22907.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949881

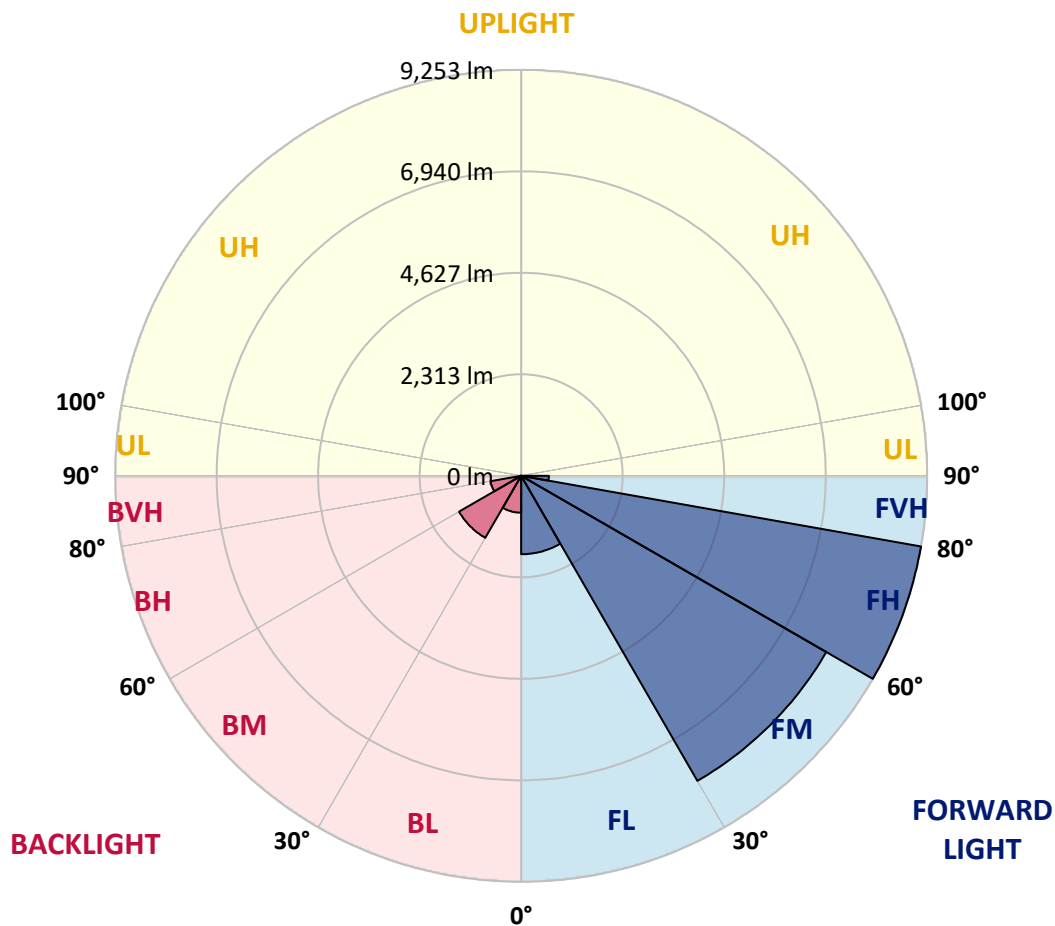
CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1786.7	7.8			
FM	(30°-60°)	8028.6	35.0			
FH	(60°-80°)	9253.4	40.4			G4/12000
FVH	(80°-90°)	630.3	2.8			G4/750
BL	(0°-30°)	840.9	3.7	B2/1000		
BM	(30°-60°)	1633.6	7.1	B2/2500		
BH	(60°-80°)	708.3	3.1	B2/1000		G2/1000
BVH	(80°-90°)	25.2	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: P949881

CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9
2.5°	3583.8	3522.2	3485.9	3396.0	3306.0	3233.4	3135.6	3070.9	2993.6	2919.4	2853.1
5°	3994.1	3894.6	3774.7	3610.6	3460.7	3307.6	3159.3	3012.5	2857.9	2715.8	2629.0
7.5°	4341.2	4197.6	3986.2	3768.4	3577.4	3392.8	3219.2	3025.1	2837.3	2614.8	2496.5
10°	4606.3	4423.3	4145.5	3859.9	3640.6	3454.4	3285.5	3121.4	2932.0	2663.8	2515.4
12.5°	4767.3	4571.6	4241.8	3907.3	3656.3	3448.0	3317.1	3244.5	3170.3	2903.6	2730.0
15°	4885.7	4674.2	4309.7	3940.4	3620.1	3364.4	3268.1	3340.7	3426.0	3255.5	3055.1
17.5°	5008.7	4786.2	4398.0	3954.6	3522.2	3201.9	3160.8	3348.6	3545.9	3538.0	3339.2
20°	5125.5	4904.6	4475.4	3945.1	3364.4	3004.6	3040.9	3280.8	3509.6	3605.9	3498.5
22.5°	5259.7	5026.1	4549.5	3908.8	3159.3	2820.0	2933.6	3173.5	3373.9	3487.5	3454.4
25°	5423.8	5179.2	4653.7	3855.2	2938.3	2666.9	2824.7	3048.8	3211.3	3290.2	3288.7
27.5°	5600.5	5362.2	4792.5	3826.8	2760.0	2558.0	2701.6	2900.5	3045.6	3100.9	3100.9
30°	5819.9	5575.3	4956.7	3795.2	2643.2	2494.9	2573.8	2728.5	2870.5	2925.7	2925.7
32.5°	6059.7	5812.0	5114.5	3719.5	2572.2	2447.6	2449.1	2547.0	2676.4	2742.7	2752.1
35°	6359.6	6096.0	5283.3	3553.8	2515.4	2392.3	2327.6	2375.0	2482.3	2561.2	2581.7
37.5°	6787.2	6468.4	5490.0	3317.1	2431.8	2307.1	2199.8	2210.9	2292.9	2379.7	2411.3
40°	7377.4	6968.7	5733.1	3070.9	2311.8	2187.2	2059.4	2054.6	2114.6	2199.8	2234.5
42.5°	8175.9	7629.9	6025.0	2835.8	2196.6	2042.0	1911.0	1903.1	1950.5	2024.6	2060.9
45°	9230.0	8475.7	6383.2	2633.8	2106.7	1900.0	1770.6	1767.4	1806.9	1871.6	1909.4
47.5°	10579.3	9651.4	6741.4	2496.5	2059.4	1787.9	1655.4	1661.7	1696.4	1754.8	1781.6
50°	12326.2	11183.7	6850.3	2427.0	2059.4	1728.0	1552.8	1584.4	1612.8	1657.0	1672.7
52.5°	14420.2	12654.4	6490.5	2363.9	2072.0	1735.9	1466.0	1533.9	1554.4	1592.3	1598.6
55°	16361.3	13375.6	5580.0	2277.1	2075.1	1784.8	1391.8	1492.8	1530.7	1544.9	1543.3
57.5°	17488.0	13127.8	4511.7	2130.4	2062.5	1817.9	1344.5	1442.3	1514.9	1524.4	1510.2
60°	17273.4	12258.3	3321.8	2018.3	1969.4	1805.3	1330.3	1365.0	1480.2	1494.4	1475.5
62.5°	15619.6	10800.2	2305.5	1931.5	1764.3	1750.1	1325.6	1243.5	1404.5	1439.2	1412.4
65°	12555.0	8502.5	1628.6	1663.3	1546.5	1630.1	1300.3	1117.3	1312.9	1360.3	1319.3
67.5°	9108.5	5753.6	1175.6	1347.7	1401.3	1436.0	1243.5	1025.7	1208.8	1271.9	1218.3
70°	5845.1	3107.2	825.3	890.0	1180.4	1219.8	1145.7	943.7	1103.1	1175.6	1117.3
72.5°	4155.0	1835.3	593.3	623.3	948.4	1016.3	1008.4	852.1	980.0	1068.3	998.9
75°	2867.3	1011.5	400.8	445.0	688.0	825.3	778.0	732.2	830.1	920.0	852.1
77.5°	1797.4	452.9	239.9	309.3	451.3	648.6	533.4	566.5	647.0	730.6	659.6
80°	1000.5	175.2	134.1	205.1	246.2	471.8	295.1	364.5	476.6	536.5	479.7
82.5°	217.8	22.1	60.0	88.4	96.3	274.6	156.2	211.5	299.8	295.1	255.6
85°	0.0	0.0	11.0	12.6	6.3	118.4	56.8	69.4	97.8	91.5	69.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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: P949881

CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9
2.5°	2840.5	2763.2	2706.4	2678.0	2654.3	2676.4	2689.0	2689.0	2742.7	2774.2	2786.8
5°	2573.8	2434.9	2329.2	2258.2	2215.6	2229.8	2245.6	2262.9	2330.8	2376.5	2406.5
7.5°	2389.2	2176.1	2015.2	1915.8	1863.7	1871.6	1882.6	1896.8	1963.1	2008.9	2048.3
10°	2354.5	2048.3	1821.1	1690.1	1627.0	1615.9	1609.6	1604.9	1644.3	1679.0	1710.6
12.5°	2496.5	2054.6	1737.4	1578.1	1500.7	1467.6	1429.7	1399.7	1406.0	1428.1	1467.6
15°	2750.5	2135.1	1710.6	1519.7	1423.4	1368.2	1324.0	1287.7	1279.8	1287.7	1294.0
17.5°	3040.9	2244.0	1707.5	1469.2	1349.2	1292.4	1256.1	1223.0	1211.9	1213.5	1221.4
20°	3233.4	2330.8	1698.0	1412.4	1278.2	1227.7	1196.2	1163.0	1152.0	1155.1	1156.7
22.5°	3252.4	2376.5	1683.8	1349.2	1207.2	1164.6	1133.0	1103.1	1101.5	1101.5	1110.9
25°	3149.8	2376.5	1653.8	1292.4	1139.4	1101.5	1073.1	1036.8	1043.1	1046.2	1058.9
27.5°	2990.4	2319.7	1597.0	1246.7	1081.0	1041.5	1013.1	980.0	987.9	992.6	1006.8
30°	2832.6	2247.1	1529.1	1194.6	1025.7	980.0	959.5	931.1	934.2	940.5	956.3
32.5°	2685.8	2169.8	1448.7	1152.0	970.5	924.7	909.0	877.4	882.1	888.4	905.8
35°	2540.7	2084.6	1354.0	1101.5	920.0	874.2	861.6	825.3	828.5	837.9	856.9
37.5°	2384.4	1994.7	1276.6	1051.0	871.1	823.7	811.1	773.2	776.4	787.4	809.5
40°	2220.3	1906.3	1200.9	997.3	819.0	771.7	760.6	719.6	722.7	735.4	759.0
42.5°	2054.6	1810.0	1142.5	927.9	765.4	714.9	703.8	665.9	670.7	684.9	708.5
45°	1901.6	1694.8	1104.6	850.6	714.9	658.0	647.0	612.3	621.8	637.5	661.2
47.5°	1770.6	1576.5	1088.9	785.9	661.2	599.7	590.2	561.8	577.6	594.9	613.9
50°	1658.5	1462.9	1068.3	719.6	610.7	549.2	539.7	520.8	541.3	558.6	576.0
52.5°	1578.1	1333.5	1024.2	659.6	566.5	506.6	503.4	493.9	512.9	528.6	544.4
55°	1508.6	1199.3	953.1	607.6	527.1	470.3	473.4	468.7	484.5	497.1	511.3
57.5°	1445.5	1082.5	863.2	566.5	484.5	438.7	448.2	441.9	449.7	457.6	475.0
60°	1369.8	964.2	755.9	520.8	434.0	407.1	418.2	400.8	399.2	402.4	407.1
62.5°	1257.7	804.8	643.8	463.9	389.8	372.4	377.2	344.0	318.8	318.8	323.5
65°	1101.5	647.0	539.7	400.8	339.3	325.1	321.9	274.6	239.9	236.7	250.9
67.5°	920.0	531.8	448.2	337.7	282.5	273.0	276.2	241.4	206.7	203.6	219.3
70°	749.6	440.3	361.4	269.8	217.8	227.2	241.4	206.7	173.6	168.9	183.1
72.5°	609.1	350.3	282.5	206.7	161.0	187.8	205.1	168.9	137.3	134.1	146.8
75°	470.3	257.2	202.0	140.4	116.8	145.2	161.0	123.1	97.8	93.1	104.2
77.5°	314.0	159.4	113.6	88.4	69.4	99.4	107.3	64.7	56.8	55.2	63.1
80°	190.9	74.2	48.9	42.6	23.7	36.3	42.6	26.8	30.0	31.6	37.9
82.5°	96.3	20.5	7.9	1.6	0.0	0.0	12.6	6.3	12.6	15.8	23.7
85°	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.9	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
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: P949881

CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9
2.5°	2875.2	2941.5	3004.6	3105.6	3209.8	3312.3	3416.5	3517.5	3553.8	3580.6	3640.6
5°	2543.8	2668.5	2813.7	3014.1	3228.7	3449.6	3673.7	3878.9	3972.0	4035.1	4177.1
7.5°	2201.4	2363.9	2572.2	2873.6	3209.8	3561.7	3913.6	4237.1	4387.0	4508.5	4724.7
10°	1862.1	2038.8	2302.4	2646.4	3100.9	3605.9	4091.9	4536.9	4731.0	4884.1	5177.6
12.5°	1563.9	1729.5	2005.7	2386.0	2930.4	3571.1	4194.5	4729.4	4958.2	5130.3	5452.2
15°	1354.0	1470.7	1715.3	2125.6	2728.5	3459.1	4200.8	4821.0	5071.9	5251.8	5531.1
17.5°	1237.2	1276.6	1436.0	1860.5	2504.4	3312.3	4142.4	4852.5	5120.8	5288.1	5482.2
20°	1174.1	1180.4	1224.6	1516.5	2217.2	3175.0	4087.2	4884.1	5166.5	5307.0	5365.4
22.5°	1123.6	1123.6	1134.6	1240.3	1846.3	3010.9	4069.8	4939.3	5229.7	5316.5	5196.5
25°	1077.8	1077.8	1081.0	1109.4	1462.9	2760.0	4058.8	5024.5	5316.5	5340.1	5010.3
27.5°	1030.5	1032.0	1032.0	1047.8	1178.8	2419.2	4011.4	5135.0	5420.6	5371.7	4832.0
30°	983.1	986.3	986.3	997.3	1043.1	2019.9	3918.3	5267.5	5556.3	5412.7	4655.3
32.5°	935.8	938.9	938.9	948.4	981.5	1612.8	3801.5	5389.1	5693.6	5430.1	4491.1
35°	886.9	891.6	888.4	901.1	935.8	1283.0	3653.2	5510.6	5842.0	5485.3	4410.7
37.5°	837.9	841.1	839.5	852.1	891.6	1107.8	3481.2	5602.1	6043.9	5608.4	4506.9
40°	789.0	787.4	787.4	801.7	844.3	1057.3	3265.0	5747.3	6334.3	5824.6	4926.7
42.5°	738.5	738.5	735.4	751.2	803.2	1019.4	3058.3	6007.6	6757.2	6168.6	5671.5
45°	692.8	691.2	684.9	699.1	763.8	953.1	2985.7	6493.7	7382.1	6725.7	6572.6
47.5°	648.6	647.0	631.2	643.8	716.4	893.2	3257.1	7289.0	8248.5	7544.7	7416.8
50°	609.1	610.7	580.7	591.8	669.1	847.4	3845.7	8321.1	9398.9	8647.7	8216.9
52.5°	572.8	572.8	533.4	539.7	610.7	806.4	4405.9	9439.9	10917.0	10186.3	9149.6
55°	536.5	533.4	489.2	492.4	552.3	748.0	4489.6	10531.9	12987.4	12501.3	10424.6
57.5°	495.5	489.2	448.2	448.2	498.7	705.4	3891.5	11371.4	15556.4	15903.6	12263.0
60°	445.0	440.3	413.4	405.6	456.1	743.3	2745.8	11469.3	17213.4	20427.9	15783.7
62.5°	380.3	386.6	372.4	361.4	415.0	771.7	1627.0	10681.8	16812.6	21867.1	20000.2
65°	299.8	325.1	321.9	314.0	456.1	650.2	961.0	9170.1	15583.3	20705.6	19140.2
67.5°	255.6	273.0	268.3	268.3	478.2	493.9	604.4	7164.4	13891.6	19328.0	17096.6
70°	217.8	235.1	217.8	217.8	361.4	299.8	418.2	5002.4	12065.8	17803.6	15755.3
72.5°	179.9	197.3	178.3	165.7	288.8	224.1	306.1	3126.1	10333.1	16216.1	14836.9
75°	137.3	157.8	143.6	127.8	190.9	167.3	232.0	1816.3	8560.9	13874.2	13528.6
77.5°	86.8	113.6	107.3	89.9	140.4	121.5	167.3	1081.0	6605.7	10841.2	11636.6
80°	53.7	58.4	60.0	56.8	80.5	82.1	113.6	615.4	4521.1	7555.7	9091.2
82.5°	34.7	34.7	26.8	30.0	39.5	47.3	64.7	232.0	2657.4	4600.0	6328.0
85°	25.2	22.1	14.2	14.2	18.9	23.7	25.2	71.0	1077.8	1816.3	2474.4
87.5°	12.6	11.0	4.7	6.3	9.5	7.9	6.3	3.2	271.4	580.7	407.1
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: P949881

CATALOG NUMBER: GALN-SB4C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9	3171.9
2.5°	3672.1	3721.0	3724.2	3724.2	3681.6	3680.0	3593.2	3583.8
5°	4323.9	4355.4	4363.3	4347.5	4262.3	4199.2	4030.3	3994.1
7.5°	4920.4	4983.5	4983.5	4945.6	4806.7	4677.3	4432.8	4341.2
10°	5396.9	5469.5	5453.8	5376.4	5201.3	5022.9	4726.3	4606.3
12.5°	5628.9	5703.1	5662.1	5573.7	5403.3	5215.5	4903.0	4767.3
15°	5624.2	5603.7	5561.1	5550.0	5468.0	5325.9	5034.0	4885.7
17.5°	5423.8	5250.2	5217.0	5327.5	5431.7	5396.9	5147.6	5008.7
20°	5106.6	4803.6	4773.6	4985.1	5281.7	5433.2	5253.3	5125.5
22.5°	4772.0	4445.4	4375.9	4609.5	5056.1	5444.3	5387.5	5259.7
25°	4454.8	4126.6	4057.2	4274.9	4805.2	5425.3	5532.7	5423.8
27.5°	4189.7	3872.5	3807.8	4025.6	4563.7	5371.7	5677.8	5600.5
30°	3984.6	3691.1	3643.7	3853.6	4355.4	5305.4	5862.5	5819.9
32.5°	3864.7	3650.0	3667.4	3839.4	4243.4	5232.8	6039.2	6059.7
35°	3983.0	3992.5	4144.0	4215.0	4347.5	5221.8	6279.1	6359.6
37.5°	4571.6	4899.9	5213.9	5155.5	4857.2	5349.6	6637.3	6787.2
40°	5573.7	6247.5	6757.2	6534.7	5783.6	5741.0	7153.3	7377.4
42.5°	6798.3	7940.8	8780.3	8183.8	6978.2	6425.8	7890.3	8175.9
45°	8090.7	10028.5	11350.9	10110.6	8251.6	7385.3	9005.9	9230.0
47.5°	9452.5	12566.0	14276.6	12247.3	9432.0	8477.3	10527.2	10579.3
50°	10942.2	15348.1	17259.2	14382.4	10571.4	9728.7	12386.1	12326.2
52.5°	12360.9	18209.2	20178.6	16526.9	11571.9	11281.5	14543.3	14420.2
55°	13714.9	21068.6	23115.3	18587.9	12515.5	13333.0	17106.1	16361.3
57.5°	15285.0	23639.2	26142.0	20658.3	13834.8	15996.7	19971.8	17488.0
60°	17606.3	26560.2	29564.8	23495.6	16343.9	18796.2	20999.2	17273.4
62.5°	20569.9	29246.1	32053.4	26276.2	18864.0	19323.3	19485.8	15619.6
65°	21145.9	29926.2	32193.9	27019.4	18539.0	16391.2	15908.4	12555.0
67.5°	19618.4	28696.9	30230.8	25635.5	16399.1	12667.0	11938.0	9108.5
70°	17904.6	26353.5	26809.5	23282.6	14423.4	9316.8	8062.3	5845.1
72.5°	16148.2	23227.4	22283.7	20219.6	12676.5	6784.0	5815.1	4155.0
75°	14062.0	19116.5	17552.7	16800.0	10495.6	5324.4	4207.1	2867.3
77.5°	11261.0	13456.1	13037.9	13022.1	7887.1	3889.9	2807.4	1797.4
80°	7943.9	8732.9	8519.9	9807.6	5291.2	2821.6	1690.1	1000.5
82.5°	3845.7	4828.8	4956.7	5840.4	2573.8	1660.1	389.8	217.8
85°	1505.5	2329.2	1964.7	2217.2	722.7	462.4	9.5	0.0
87.5°	168.9	269.8	247.8	195.7	88.4	18.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)