

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: P945721

Luminaire Tested: **GALN-SB1C-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945721
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-SB1C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5137 lumens
Efficiency: N/A
Efficacy: 94.4 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

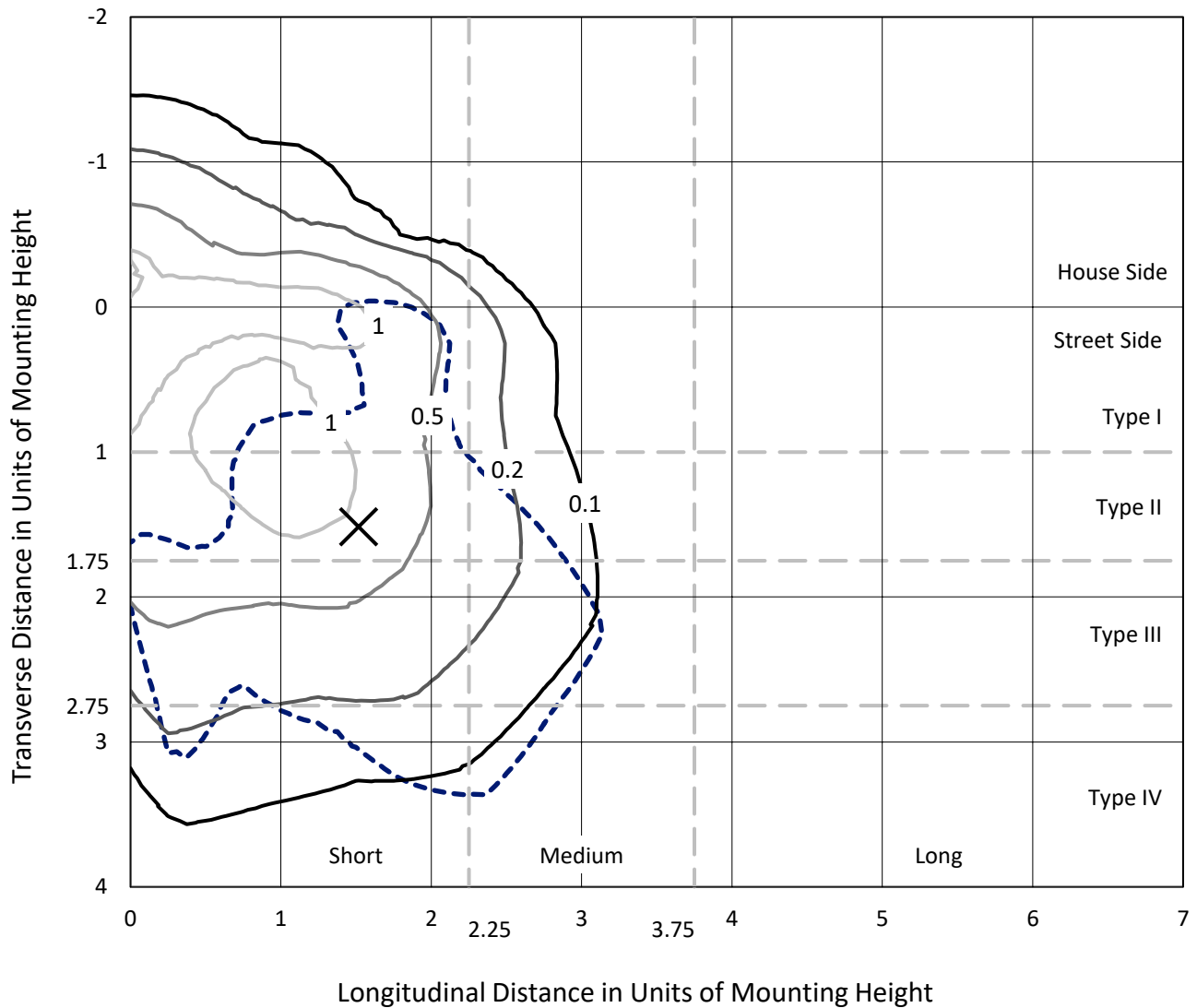
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945721
 CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

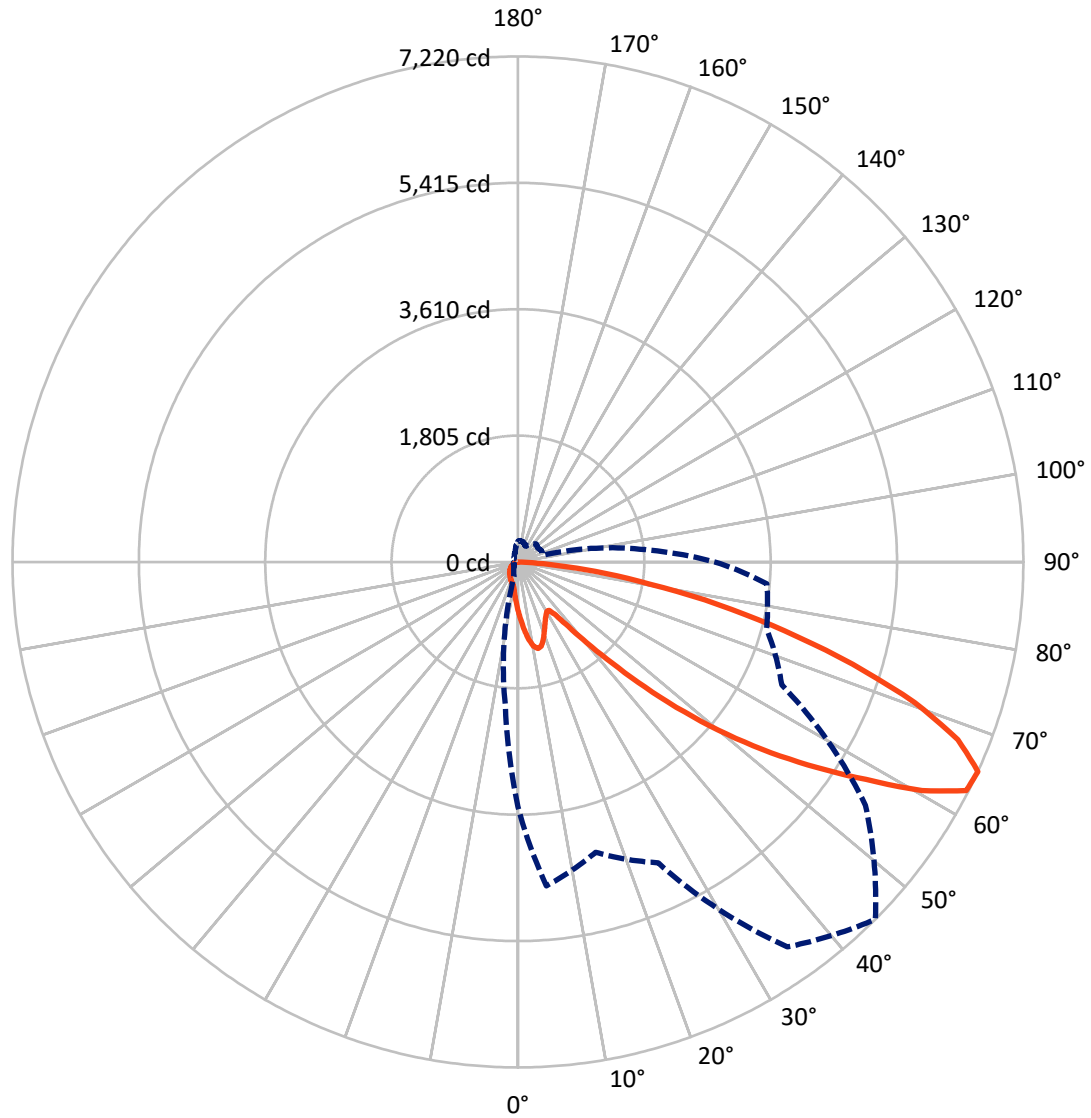
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P945721
CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P945721

CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.1	0.0	1021.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4115.9	0.0	4115.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	5137.0	0.0	5137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.4
10°-20°	209.9	4.1
20°-30°	309.3	6.0
30°-40°	397.3	7.7
40°-50°	642.6	12.5
50°-60°	1126.9	21.9
60°-70°	1410.0	27.4
70°-80°	823.9	16.0
80°-90°	147.0	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°	5137.0	100.0
0°-180°	5137.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945721

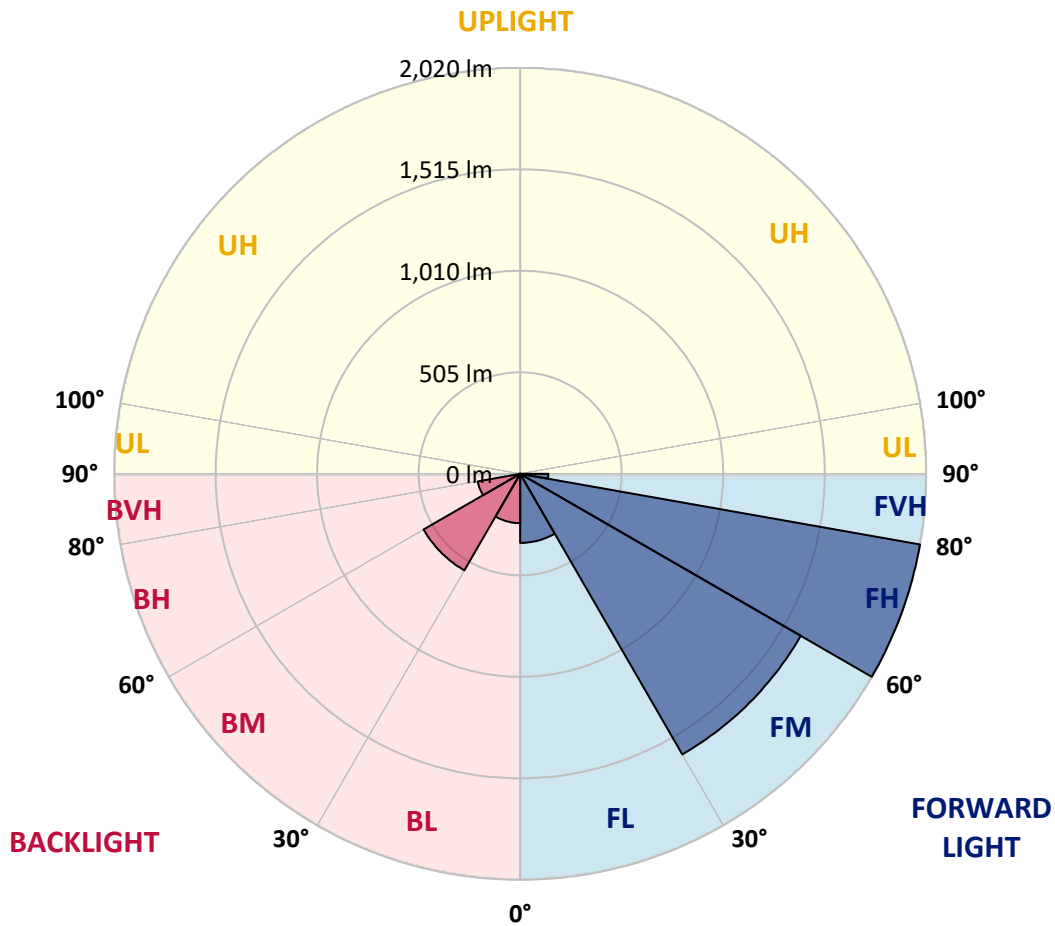
CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.7	6.7			
FM (30°-60°)	1612.0	31.4			
FH (60°-80°)	2020.0	39.3			G2/5000
FVH (80°-90°)	140.1	2.7			G2/225
BL (0°-30°)	245.5	4.8	B1/500		
BM (30°-60°)	554.7	10.8	B1/1000		
BH (60°-80°)	213.9	4.2	B1/500		G1/500
BVH (80°-90°)	6.9	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: P945721

CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	797.0	803.0	816.4	823.5	834.5	835.2	835.2	825.6	825.3	805.8
5°	890.7	904.9	936.7	969.6	976.7	978.5	975.0	955.8	941.7	903.8
7.5°	983.8	1011.1	1059.5	1103.4	1117.6	1117.6	1109.1	1077.9	1048.9	994.1
10°	1060.9	1095.3	1161.1	1210.3	1226.6	1223.0	1205.7	1166.4	1126.4	1059.9
12.5°	1111.9	1150.5	1222.7	1262.3	1278.9	1269.7	1249.9	1211.7	1169.6	1099.5
15°	1137.4	1177.7	1240.4	1261.2	1256.6	1247.1	1244.6	1226.2	1194.4	1128.9
17.5°	1148.4	1185.9	1229.4	1216.3	1177.4	1169.9	1194.7	1218.1	1210.3	1154.4
20°	1158.6	1190.1	1203.2	1145.2	1077.2	1070.5	1117.9	1184.5	1218.4	1178.1
22.5°	1172.8	1192.2	1165.3	1070.2	996.9	981.3	1033.7	1133.8	1220.9	1208.2
25°	1192.2	1197.5	1123.6	999.0	925.4	909.8	958.7	1077.6	1216.7	1240.7
27.5°	1215.6	1204.6	1083.6	939.6	868.4	853.9	902.8	1023.4	1204.6	1273.3
30°	1246.0	1213.8	1044.0	893.6	827.7	817.1	864.2	976.7	1189.8	1314.7
32.5°	1276.8	1217.7	1007.2	866.7	818.5	822.4	861.0	951.6	1173.5	1354.3
35°	1310.1	1230.1	989.1	893.2	895.3	929.3	945.2	975.0	1171.0	1408.1
37.5°	1355.4	1257.7	1010.7	1025.2	1098.8	1169.2	1156.1	1089.3	1199.7	1488.4
40°	1420.5	1306.2	1104.8	1249.9	1401.0	1515.3	1465.4	1297.0	1287.4	1604.2
42.5°	1515.3	1383.3	1271.9	1524.5	1780.8	1969.0	1835.3	1564.9	1441.0	1769.4
45°	1655.5	1508.3	1473.9	1814.4	2248.9	2545.5	2267.3	1850.5	1656.2	2019.6
47.5°	1849.8	1691.9	1663.3	2119.8	2818.0	3201.6	2746.5	2115.2	1901.1	2360.8
50°	2107.7	1939.3	1842.7	2453.8	3441.9	3870.4	3225.3	2370.7	2181.7	2777.6
52.5°	2448.2	2284.3	2051.8	2772.0	4083.5	4525.1	3706.2	2595.0	2529.9	3261.4
55°	2912.5	2803.5	2337.8	3075.6	4724.7	5183.7	4168.4	2806.7	2990.0	3836.1
57.5°	3488.6	3566.5	2750.0	3427.7	5301.2	5862.5	4632.7	3102.5	3587.3	4478.8
60°	3860.2	4581.0	3539.6	3948.3	5956.2	6630.0	5269.0	3665.2	4215.1	4709.2
62.5°	3770.3	4903.8	4485.1	4612.9	6558.6	7188.1	5892.5	4230.3	4333.3	4369.8
65°	3494.6	4643.3	4292.3	4742.1	6711.1	7219.6	6059.2	4157.4	3675.8	3567.5
67.5°	3115.3	4334.4	3834.0	4399.5	6435.4	6779.4	5748.9	3677.6	2840.6	2677.1
70°	2705.8	3992.5	3533.2	4015.2	5909.9	6012.2	5221.2	3234.5	2089.3	1808.0
72.5°	2317.2	3636.5	3327.2	3621.3	5208.8	4997.2	4534.3	2842.8	1521.4	1304.1
75°	1919.8	3111.4	3033.9	3153.5	4287.0	3936.3	3767.5	2353.7	1194.0	943.5
77.5°	1481.4	2431.2	2609.6	2525.3	3017.6	2923.8	2920.3	1768.7	872.3	629.6
80°	1013.9	1694.4	2038.7	1781.5	1958.4	1910.6	2199.4	1186.6	632.7	379.0
82.5°	595.9	1031.6	1419.1	862.4	1082.9	1111.6	1309.7	577.2	372.3	87.4
85°	241.7	407.3	554.9	337.6	522.3	440.6	497.2	162.1	103.7	2.1
87.5°	60.9	130.2	91.3	37.9	60.5	55.6	43.9	19.8	4.2	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: P945721
 CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
711.3	0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
803.7	2.5°	789.9	781.7	761.6	741.4	725.1	703.2	688.7	671.3	654.7	639.8
895.7	5°	873.4	846.5	809.7	776.1	741.7	708.5	675.6	640.9	609.0	589.6
973.5	7.5°	941.3	893.9	845.1	802.3	760.9	721.9	678.4	636.3	586.4	559.8
1033.0	10°	991.9	929.7	865.6	816.4	774.7	736.8	700.0	657.5	597.4	564.1
1069.1	12.5°	1025.2	951.2	876.2	820.0	773.2	743.9	727.6	711.0	651.1	612.2
1095.6	15°	1048.2	966.5	883.7	811.8	754.5	732.9	749.2	768.3	730.1	685.1
1123.2	17.5°	1073.3	986.3	886.8	789.9	718.0	708.8	750.9	795.2	793.4	748.8
1149.4	20°	1099.9	1003.6	884.7	754.5	673.8	681.9	735.7	787.0	808.6	784.6
1179.5	22.5°	1127.1	1020.3	876.6	708.5	632.4	657.9	711.7	756.6	782.1	774.7
1216.3	25°	1161.5	1043.6	864.5	658.9	598.1	633.5	683.7	720.2	737.9	737.5
1255.9	27.5°	1202.5	1074.8	858.2	618.9	573.6	605.9	650.4	683.0	695.4	695.4
1305.1	30°	1250.3	1111.6	851.1	592.8	559.5	577.2	611.9	643.7	656.1	656.1
1358.9	32.5°	1303.4	1146.9	834.1	576.8	548.9	549.2	571.2	600.2	615.1	617.2
1426.2	35°	1367.1	1184.8	797.0	564.1	536.5	522.0	532.6	556.7	574.4	579.0
1522.1	37.5°	1450.6	1231.2	743.9	545.3	517.4	493.3	495.8	514.2	533.7	540.7
1654.4	40°	1562.8	1285.7	688.7	518.4	490.5	461.8	460.8	474.2	493.3	501.1
1833.5	42.5°	1711.0	1351.1	635.9	492.6	457.9	428.6	426.8	437.4	454.0	462.2
2069.9	45°	1900.7	1431.5	590.6	472.4	426.1	397.1	396.4	405.2	419.7	428.2
2372.4	47.5°	2164.4	1511.8	559.8	461.8	401.0	371.2	372.6	380.4	393.5	399.5
2764.2	50°	2508.0	1536.2	544.3	461.8	387.5	348.2	355.3	361.7	371.6	375.1
3233.8	52.5°	2837.8	1455.5	530.1	464.7	389.3	328.8	344.0	348.6	357.1	358.5
3669.1	55°	2999.5	1251.3	510.7	465.4	400.2	312.1	334.8	343.3	346.5	346.1
3921.8	57.5°	2944.0	1011.8	477.7	462.5	407.7	301.5	323.5	339.7	341.9	338.7
3873.6	60°	2749.0	744.9	452.6	441.6	404.8	298.3	306.1	331.9	335.1	330.9
3502.8	62.5°	2422.0	517.0	433.2	395.6	392.5	297.3	278.9	315.0	322.7	316.7
2815.5	65°	1906.7	365.2	373.0	346.8	365.6	291.6	250.6	294.4	305.0	295.8
2042.6	67.5°	1290.3	263.6	302.2	314.3	322.0	278.9	230.0	271.1	285.2	273.2
1310.8	70°	696.8	185.1	199.6	264.7	273.6	256.9	211.6	247.4	263.6	250.6
931.8	72.5°	411.6	133.1	139.8	212.7	227.9	226.1	191.1	219.8	239.6	224.0
643.0	75°	226.8	89.9	99.8	154.3	185.1	174.5	164.2	186.1	206.3	191.1
403.1	77.5°	101.6	53.8	69.4	101.2	145.4	119.6	127.0	145.1	163.8	147.9
224.4	80°	39.3	30.1	46.0	55.2	105.8	66.2	81.7	106.9	120.3	107.6
48.8	82.5°	5.0	13.4	19.8	21.6	61.6	35.0	47.4	67.2	66.2	57.3
0.0	85°	0.0	2.5	2.8	1.4	26.5	12.7	15.6	21.9	20.5	15.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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: P945721
 CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
711.3	0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
637.0	2.5°	619.7	606.9	600.5	595.2	600.2	603.0	603.0	615.1	622.1	625.0
577.2	5°	546.0	522.3	506.4	496.9	500.0	503.6	507.5	522.7	533.0	539.7
535.8	7.5°	488.0	451.9	429.6	417.9	419.7	422.2	425.4	440.2	450.5	459.3
528.0	10°	459.3	408.4	379.0	364.9	362.4	361.0	359.9	368.7	376.5	383.6
559.8	12.5°	460.8	389.6	353.9	336.5	329.1	320.6	313.9	315.3	320.3	329.1
616.8	15°	478.8	383.6	340.8	319.2	306.8	296.9	288.8	287.0	288.8	290.2
681.9	17.5°	503.2	382.9	329.5	302.6	289.8	281.7	274.3	271.8	272.1	273.9
725.1	20°	522.7	380.8	316.7	286.6	275.3	268.2	260.8	258.3	259.0	259.4
729.4	22.5°	533.0	377.6	302.6	270.7	261.2	254.1	247.4	247.0	247.0	249.1
706.4	25°	533.0	370.9	289.8	255.5	247.0	240.6	232.5	233.9	234.6	237.5
670.6	27.5°	520.2	358.1	279.6	242.4	233.6	227.2	219.8	221.5	222.6	225.8
635.2	30°	503.9	342.9	267.9	230.0	219.8	215.2	208.8	209.5	210.9	214.5
602.3	32.5°	486.6	324.9	258.3	217.6	207.4	203.8	196.8	197.8	199.2	203.1
569.8	35°	467.5	303.6	247.0	206.3	196.1	193.2	185.1	185.8	187.9	192.2
534.7	37.5°	447.3	286.3	235.7	195.3	184.7	181.9	173.4	174.1	176.6	181.5
497.9	40°	427.5	269.3	223.7	183.7	173.1	170.6	161.4	162.1	164.9	170.2
460.8	42.5°	405.9	256.2	208.1	171.6	160.3	157.8	149.3	150.4	153.6	158.9
426.4	45°	380.1	247.7	190.7	160.3	147.6	145.1	137.3	139.4	143.0	148.3
397.1	47.5°	353.5	244.2	176.2	148.3	134.5	132.4	126.0	129.5	133.4	137.7
371.9	50°	328.1	239.6	161.4	137.0	123.2	121.0	116.8	121.4	125.3	129.2
353.9	52.5°	299.0	229.7	147.9	127.0	113.6	112.9	110.8	115.0	118.6	122.1
338.3	55°	269.0	213.7	136.2	118.2	105.5	106.2	105.1	108.6	111.5	114.7
324.2	57.5°	242.8	193.6	127.0	108.6	98.4	100.5	99.1	100.9	102.6	106.5
307.2	60°	216.2	169.5	116.8	97.3	91.3	93.8	89.9	89.5	90.2	91.3
282.0	62.5°	180.5	144.4	104.0	87.4	83.5	84.6	77.1	71.5	71.5	72.5
247.0	65°	145.1	121.0	89.9	76.1	72.9	72.2	61.6	53.8	53.1	56.3
206.3	67.5°	119.3	100.5	75.7	63.3	61.2	61.9	54.1	46.4	45.7	49.2
168.1	70°	98.7	81.0	60.5	48.8	51.0	54.1	46.4	38.9	37.9	41.1
136.6	72.5°	78.6	63.3	46.4	36.1	42.1	46.0	37.9	30.8	30.1	32.9
105.5	75°	57.7	45.3	31.5	26.2	32.6	36.1	27.6	21.9	20.9	23.4
70.4	77.5°	35.7	25.5	19.8	15.6	22.3	24.1	14.5	12.7	12.4	14.2
42.8	80°	16.6	11.0	9.6	5.3	8.1	9.6	6.0	6.7	7.1	8.5
21.6	82.5°	4.6	1.8	0.4	0.0	0.0	2.8	1.4	2.8	3.5	5.3
1.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.8	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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: P945721
 CATALOG NUMBER: GALN-SB1C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
711.3	0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
644.8	2.5°	659.6	673.8	696.4	719.8	742.8	766.2	788.8	797.0
570.5	5°	598.4	631.0	675.9	724.1	773.6	823.8	869.9	890.7
493.7	7.5°	530.1	576.8	644.4	719.8	798.7	877.6	950.2	983.8
417.6	10°	457.2	516.3	593.5	695.4	808.6	917.6	1017.4	1060.9
350.7	12.5°	387.9	449.8	535.1	657.2	800.8	940.6	1060.6	1111.9
303.6	15°	329.8	384.7	476.7	611.9	775.7	942.0	1081.1	1137.4
277.4	17.5°	286.3	322.0	417.2	561.6	742.8	928.9	1088.2	1148.4
263.3	20°	264.7	274.6	340.1	497.2	712.0	916.6	1095.3	1158.6
252.0	22.5°	252.0	254.4	278.2	414.0	675.2	912.7	1107.7	1172.8
241.7	25°	241.7	242.4	248.8	328.1	618.9	910.2	1126.8	1192.2
231.1	27.5°	231.4	231.4	235.0	264.4	542.5	899.6	1151.5	1215.6
220.5	30°	221.2	221.2	223.7	233.9	453.0	878.7	1181.3	1246.0
209.9	32.5°	210.6	210.6	212.7	220.1	361.7	852.5	1208.5	1276.8
198.9	35°	199.9	199.2	202.1	209.9	287.7	819.2	1235.8	1310.1
187.9	37.5°	188.6	188.3	191.1	199.9	248.4	780.7	1256.3	1355.4
176.9	40°	176.6	176.6	179.8	189.3	237.1	732.2	1288.9	1420.5
165.6	42.5°	165.6	164.9	168.4	180.1	228.6	685.8	1347.2	1515.3
155.4	45°	155.0	153.6	156.8	171.3	213.7	669.6	1456.2	1655.5
145.4	47.5°	145.1	141.6	144.4	160.7	200.3	730.4	1634.6	1849.8
136.6	50°	137.0	130.2	132.7	150.0	190.0	862.4	1866.0	2107.7
128.5	52.5°	128.5	119.6	121.0	137.0	180.8	988.0	2116.9	2448.2
120.3	55°	119.6	109.7	110.4	123.9	167.7	1006.8	2361.8	2912.5
111.1	57.5°	109.7	100.5	100.5	111.8	158.2	872.7	2550.1	3488.6
99.8	60°	98.7	92.7	90.9	102.3	166.7	615.8	2572.0	3860.2
85.3	62.5°	86.7	83.5	81.0	93.1	173.1	364.9	2395.5	3770.3
67.2	65°	72.9	72.2	70.4	102.3	145.8	215.5	2056.4	3494.6
57.3	67.5°	61.2	60.2	60.2	107.2	110.8	135.5	1606.6	3115.3
48.8	70°	52.7	48.8	48.8	81.0	67.2	93.8	1121.8	2705.8
40.3	72.5°	44.2	40.0	37.2	64.8	50.3	68.7	701.0	2317.2
30.8	75°	35.4	32.2	28.7	42.8	37.5	52.0	407.3	1919.8
19.5	77.5°	25.5	24.1	20.2	31.5	27.2	37.5	242.4	1481.4
12.0	80°	13.1	13.4	12.7	18.0	18.4	25.5	138.0	1013.9
7.8	82.5°	7.8	6.0	6.7	8.8	10.6	14.5	52.0	595.9
5.7	85°	5.0	3.2	3.2	4.2	5.3	5.7	15.9	241.7
2.8	87.5°	2.5	1.1	1.4	2.1	1.8	1.4	0.7	60.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)