

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: P956431

Luminaire Tested: **GALN-SB9A-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956431
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-SB9A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28019 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

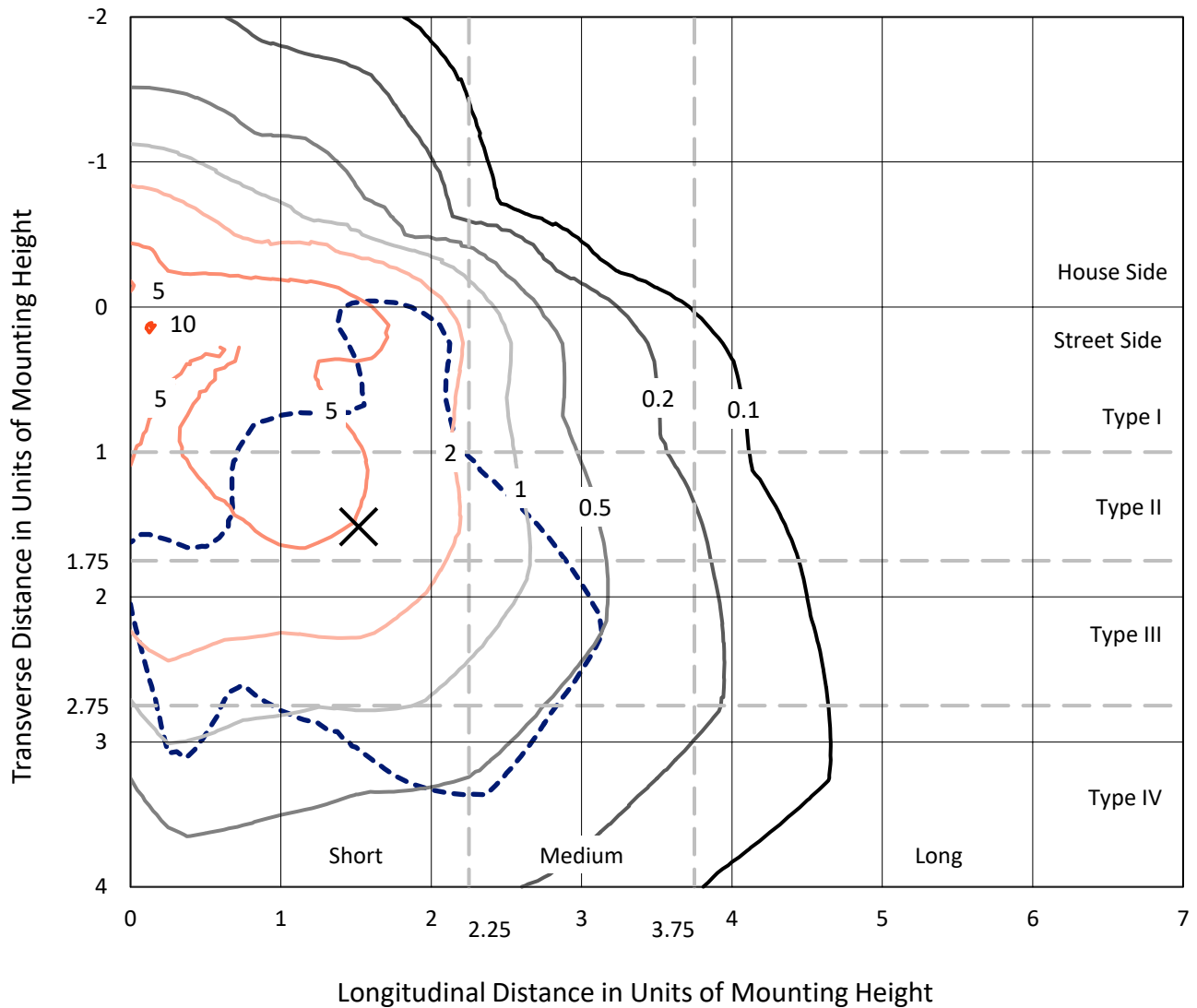
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956431
 CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

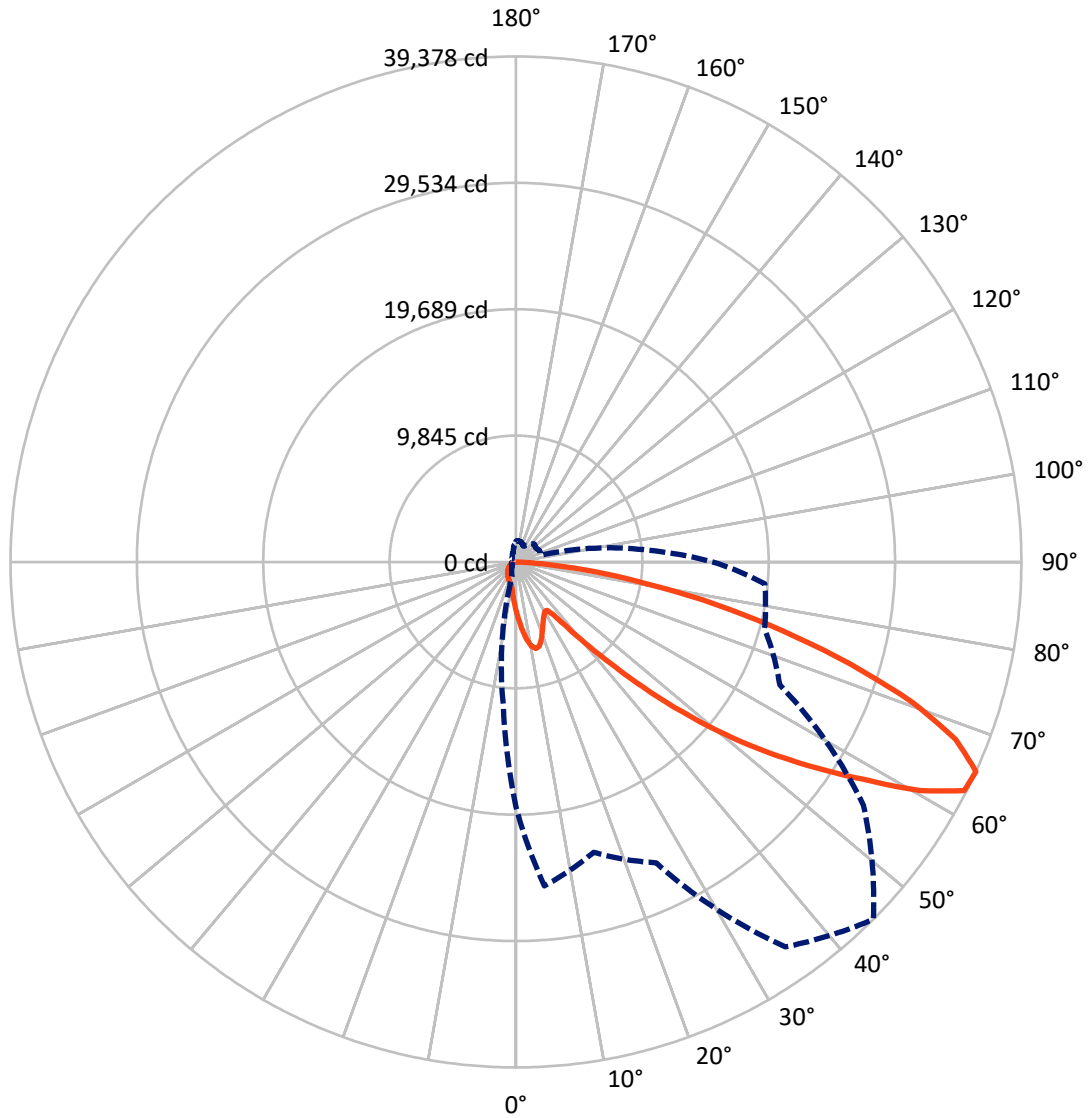
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P956431
CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P956431
 CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5569.3	0.0	5569.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	22449.7	0.0	22449.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	28019.0	0.0	28019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	1.4
10°-20°	1145.0	4.1
20°-30°	1686.9	6.0
30°-40°	2167.2	7.7
40°-50°	3505.0	12.5
50°-60°	6146.3	21.9
60°-70°	7690.7	27.4
70°-80°	4494.1	16.0
80°-90°	801.8	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°	28019.0	100.0
0°-180°	28019.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956431

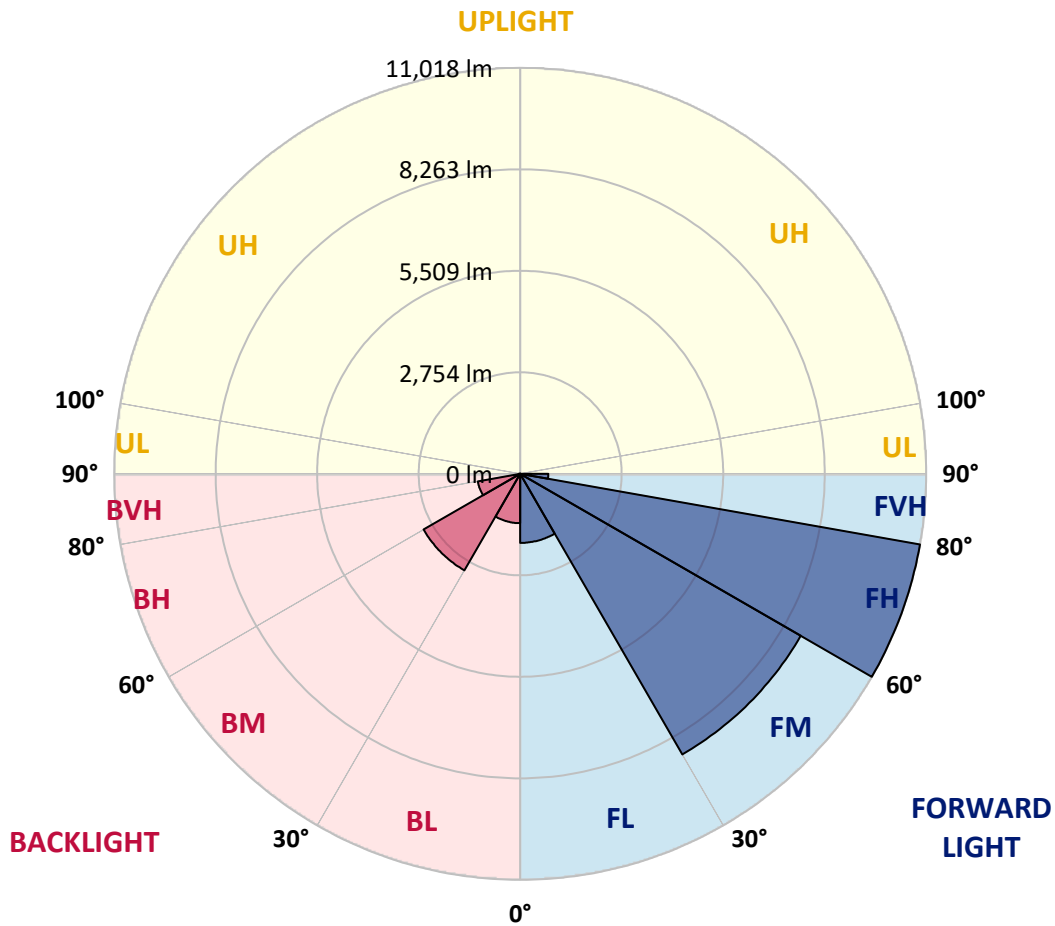
CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.8	6.7			
FM (30°-60°)	8792.7	31.4			
FH (60°-80°)	11017.9	39.3			G4/12000
FVH (80°-90°)	764.2	2.7			G5
BL (0°-30°)	1339.1	4.8	B3/2500		
BM (30°-60°)	3025.8	10.8	B3/5000		
BH (60°-80°)	1166.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	37.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P956431
 CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
2.5°	4346.8	4379.7	4453.0	4491.6	4551.5	4555.3	4555.3	4503.2	4501.3	4395.1
5°	4858.4	4935.6	5109.3	5288.8	5327.4	5337.0	5317.7	5213.5	5136.3	4929.8
7.5°	5366.0	5514.6	5779.1	6018.4	6095.6	6095.6	6049.3	5879.4	5721.2	5422.0
10°	5786.8	5974.0	6333.0	6601.3	6690.1	6670.8	6576.2	6362.0	6143.9	5781.0
12.5°	6064.7	6275.1	6668.9	6885.1	6975.8	6925.6	6817.5	6609.1	6379.4	5997.2
15°	6203.7	6423.8	6765.4	6879.3	6854.2	6802.1	6788.6	6688.2	6514.5	6157.4
17.5°	6263.6	6468.2	6705.6	6634.2	6421.8	6381.3	6516.4	6643.8	6601.3	6296.4
20°	6319.5	6491.3	6562.7	6246.2	5875.6	5838.9	6097.6	6460.4	6645.7	6425.7
22.5°	6396.7	6502.9	6356.2	5837.0	5437.4	5352.5	5638.2	6184.4	6659.2	6589.8
25°	6502.9	6531.9	6128.4	5449.0	5047.5	4962.6	5229.0	5877.5	6636.1	6767.3
27.5°	6630.3	6570.5	5910.3	5124.7	4736.8	4657.6	4924.0	5582.2	6570.5	6944.9
30°	6796.3	6620.6	5694.1	4873.8	4514.8	4456.9	4713.6	5327.4	6489.4	7170.8
32.5°	6964.2	6641.9	5493.4	4727.1	4464.6	4485.8	4696.2	5190.4	6400.6	7386.9
35°	7145.7	6709.4	5395.0	4871.9	4883.4	5068.7	5155.6	5317.7	6387.1	7680.3
37.5°	7392.7	6860.0	5512.7	5591.8	5993.3	6377.4	6306.0	5941.2	6543.4	8118.5
40°	7747.9	7124.4	6026.1	6817.5	7641.7	8265.2	7993.0	7074.2	7022.1	8749.7
42.5°	8265.2	7545.2	6937.2	8315.4	9712.8	10739.7	10010.1	8535.4	7859.8	9651.1
45°	9029.6	8226.6	8039.4	9896.2	12266.5	13884.0	12366.9	10093.1	9033.4	11015.7
47.5°	10089.2	9228.4	9072.0	11562.0	15370.3	17462.7	14980.4	11536.9	10369.1	12876.5
50°	11496.4	10577.6	10050.6	13384.1	18773.3	21110.8	17592.0	12930.5	11899.8	15150.3
52.5°	13353.2	12459.5	11191.4	15119.4	22272.8	24681.7	20215.2	14154.3	13799.1	17788.9
55°	15885.7	15291.2	12751.0	16775.5	25770.3	28273.8	22736.0	15308.5	16308.4	20923.5
57.5°	19028.1	19452.7	14999.7	18696.1	28914.6	31976.0	25268.5	16922.2	19566.6	24428.8
60°	21054.8	24986.7	19306.0	21535.4	32487.5	36162.6	28739.0	19991.3	22990.8	25685.4
62.5°	20564.5	26747.0	24463.6	25160.4	35772.7	39206.6	32140.0	23073.8	23635.5	23834.3
65°	19060.9	25326.4	23411.6	25864.9	36604.6	39378.3	33049.2	22676.2	20049.2	19458.5
67.5°	16991.7	23641.3	20912.0	23996.5	35101.0	36977.2	31356.4	20058.8	15493.8	14602.1
70°	14758.4	21776.7	19271.3	21900.2	32234.6	32792.4	28478.4	17642.2	11396.0	9861.5
72.5°	12639.1	19834.9	18147.9	19751.9	28410.9	27256.6	24731.9	15505.4	8298.0	7112.8
75°	10471.4	16970.5	16547.7	17200.2	23382.6	21469.8	20549.1	12837.9	6512.6	5146.0
77.5°	8079.9	13260.6	14233.4	13774.0	16459.0	15947.4	15928.1	9647.2	4758.0	3433.9
80°	5530.1	9241.9	11120.0	9716.7	10681.8	10421.2	11996.3	6472.0	3451.2	2067.3
82.5°	3250.5	5626.6	7740.2	4703.9	5906.5	6062.8	7143.7	3148.2	2030.6	476.8
85°	1318.3	2221.7	3026.6	1841.4	2849.0	2403.1	2712.0	884.0	565.6	11.6
87.5°	332.0	710.3	498.0	206.5	330.1	303.0	239.3	108.1	23.2	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: P956431
 CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3879.7	0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
4383.5	2.5°	4308.2	4263.8	4153.8	4043.8	3955.0	3835.3	3756.2	3661.6	3570.9	3489.8
4885.4	5°	4763.8	4617.1	4416.3	4233.0	4045.7	3864.3	3684.8	3495.6	3321.9	3215.7
5310.0	7.5°	5134.4	4875.7	4609.4	4375.8	4150.0	3937.6	3700.2	3470.5	3198.4	3053.6
5634.3	10°	5410.4	5070.7	4721.3	4453.0	4225.2	4018.7	3818.0	3586.3	3258.2	3076.8
5831.2	12.5°	5591.8	5188.4	4779.2	4472.3	4217.5	4057.3	3968.5	3877.8	3551.6	3339.3
5975.9	15°	5717.3	5271.4	4819.8	4427.9	4115.2	3997.5	4086.3	4190.5	3982.0	3736.9
6126.5	17.5°	5854.3	5379.5	4837.1	4308.2	3916.4	3866.2	4095.9	4337.2	4327.5	4084.3
6269.3	20°	5999.1	5474.1	4825.5	4115.2	3675.1	3719.5	4012.9	4292.8	4410.5	4279.3
6433.4	22.5°	6147.7	5564.8	4781.1	3864.3	3449.3	3588.3	3881.7	4126.8	4265.8	4225.2
6634.2	25°	6335.0	5692.2	4715.5	3594.1	3262.1	3455.1	3729.2	3928.0	4024.5	4022.6
6850.3	27.5°	6558.9	5862.1	4680.8	3375.9	3128.9	3304.5	3547.7	3725.3	3792.9	3792.9
7118.6	30°	6819.5	6062.8	4642.2	3233.1	3051.7	3148.2	3337.3	3511.1	3578.6	3578.6
7412.0	32.5°	7109.0	6255.8	4549.5	3146.3	2993.8	2995.7	3115.4	3273.6	3354.7	3366.3
7778.8	35°	7456.4	6462.4	4346.8	3076.8	2926.2	2847.1	2905.0	3036.2	3132.7	3157.8
8301.9	37.5°	7912.0	6715.2	4057.3	2974.5	2822.0	2690.7	2704.2	2804.6	2910.8	2949.4
9023.8	40°	8523.8	7012.5	3756.2	2827.8	2675.3	2518.9	2513.1	2586.5	2690.7	2733.2
10000.5	42.5°	9332.6	7369.6	3468.6	2686.9	2497.7	2337.5	2327.8	2385.7	2476.5	2520.9
11289.8	45°	10367.2	7807.7	3221.5	2576.8	2324.0	2165.7	2161.8	2210.1	2289.2	2335.6
12940.2	47.5°	11805.2	8245.9	3053.6	2518.9	2186.9	2024.8	2032.5	2075.0	2146.4	2179.2
15076.9	50°	13679.4	8379.1	2968.7	2518.9	2113.6	1899.3	1937.9	1972.7	2026.7	2046.0
17638.3	52.5°	15478.4	7939.0	2891.5	2534.4	2123.2	1793.2	1876.2	1901.3	1947.6	1955.3
20012.5	55°	16360.5	6825.2	2785.3	2538.2	2183.1	1702.5	1826.0	1872.3	1889.7	1887.8
21390.7	57.5°	16057.5	5518.5	2605.8	2522.8	2223.6	1644.5	1764.2	1853.0	1864.6	1847.2
21128.1	60°	14993.9	4063.1	2468.7	2408.9	2208.2	1627.2	1669.6	1810.5	1827.9	1804.8
19105.3	62.5°	13210.4	2820.0	2362.6	2158.0	2140.6	1621.4	1521.0	1717.9	1760.4	1727.5
15356.8	65°	10400.0	1992.0	2034.4	1891.6	1993.9	1590.5	1366.6	1605.9	1663.8	1613.7
11141.2	67.5°	7037.6	1438.0	1648.4	1714.0	1756.5	1521.0	1254.6	1478.5	1555.8	1490.1
7149.5	70°	3800.6	1009.5	1088.6	1443.8	1492.1	1401.3	1154.3	1349.2	1438.0	1366.6
5082.3	72.5°	2244.8	725.8	762.4	1160.1	1243.1	1233.4	1042.3	1198.7	1306.8	1221.8
3507.2	75°	1237.3	490.3	544.3	841.6	1009.5	951.6	895.6	1015.3	1125.3	1042.3
2198.5	77.5°	554.0	293.4	378.3	552.0	793.3	652.4	692.9	791.4	893.7	806.8
1223.8	80°	214.3	164.1	250.9	301.1	577.1	361.0	445.9	582.9	656.3	586.8
266.4	82.5°	27.0	73.3	108.1	117.7	335.9	191.1	258.6	366.7	361.0	312.7
0.0	85°	0.0	13.5	15.4	7.7	144.8	69.5	84.9	119.7	112.0	84.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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: P956431
 CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3879.7	0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
3474.4	2.5°	3379.8	3310.3	3275.6	3246.6	3273.6	3289.1	3289.1	3354.7	3393.3	3408.8
3148.2	5°	2978.3	2849.0	2762.1	2710.0	2727.4	2746.7	2767.9	2850.9	2906.9	2943.6
2922.3	7.5°	2661.8	2464.9	2343.3	2279.6	2289.2	2302.7	2320.1	2401.2	2457.2	2505.4
2879.9	10°	2505.4	2227.5	2067.3	1990.1	1976.5	1968.8	1963.0	2011.3	2053.8	2092.4
3053.6	12.5°	2513.1	2125.2	1930.2	1835.6	1795.1	1748.8	1712.1	1719.8	1746.8	1795.1
3364.4	15°	2611.6	2092.4	1858.8	1741.1	1673.5	1619.5	1575.1	1565.4	1575.1	1582.8
3719.5	17.5°	2744.8	2088.5	1797.0	1650.3	1580.8	1536.5	1495.9	1482.4	1484.3	1494.0
3955.0	20°	2850.9	2076.9	1727.5	1563.5	1501.7	1463.1	1422.6	1409.1	1412.9	1414.8
3978.2	22.5°	2906.9	2059.5	1650.3	1476.6	1424.5	1385.9	1349.2	1347.3	1347.3	1358.9
3852.7	25°	2906.9	2022.9	1580.8	1393.6	1347.3	1312.5	1268.2	1275.9	1279.7	1295.2
3657.8	27.5°	2837.4	1953.4	1524.9	1322.2	1273.9	1239.2	1198.7	1208.3	1214.1	1231.5
3464.7	30°	2748.6	1870.4	1461.2	1254.6	1198.7	1173.6	1138.8	1142.7	1150.4	1169.7
3285.2	32.5°	2654.0	1771.9	1409.1	1187.1	1131.1	1111.8	1073.2	1079.0	1086.7	1107.9
3107.6	35°	2549.8	1656.1	1347.3	1125.3	1069.3	1053.9	1009.5	1013.4	1024.9	1048.1
2916.6	37.5°	2439.8	1561.5	1285.5	1065.5	1007.6	992.1	945.8	949.7	963.2	990.2
2715.8	40°	2331.7	1468.9	1219.9	1001.8	943.9	930.4	880.2	884.0	899.5	928.4
2513.1	42.5°	2214.0	1397.5	1135.0	936.2	874.4	860.9	814.6	820.3	837.7	866.7
2325.9	45°	2073.1	1351.2	1040.4	874.4	804.9	791.4	748.9	760.5	779.8	808.8
2165.7	47.5°	1928.3	1331.8	961.2	808.8	733.5	721.9	687.2	706.5	727.7	750.9
2028.7	50°	1789.3	1306.8	880.2	747.0	671.7	660.1	637.0	662.1	683.3	704.5
1930.2	52.5°	1631.0	1252.7	806.8	692.9	619.6	615.7	604.2	627.3	646.6	665.9
1845.3	55°	1467.0	1165.9	743.1	644.7	575.2	579.1	573.3	592.6	608.0	625.4
1768.1	57.5°	1324.1	1055.8	692.9	592.6	536.6	548.2	540.5	550.1	559.8	581.0
1675.4	60°	1179.4	924.6	637.0	530.8	498.0	511.5	490.3	488.3	492.2	498.0
1538.4	62.5°	984.4	787.5	567.5	476.8	455.5	461.3	420.8	389.9	389.9	395.7
1347.3	65°	791.4	660.1	490.3	415.0	397.6	393.8	335.9	293.4	289.5	306.9
1125.3	67.5°	650.5	548.2	413.1	345.5	333.9	337.8	295.3	252.9	249.0	268.3
916.9	70°	538.5	442.0	330.1	266.4	278.0	295.3	252.9	212.3	206.5	223.9
745.1	72.5°	428.5	345.5	252.9	196.9	229.7	250.9	206.5	167.9	164.1	179.5
575.2	75°	314.6	247.1	171.8	142.8	177.6	196.9	150.6	119.7	113.9	127.4
384.1	77.5°	195.0	139.0	108.1	84.9	121.6	131.3	79.1	69.5	67.6	77.2
233.6	80°	90.7	59.8	52.1	29.0	44.4	52.1	32.8	36.7	38.6	46.3
117.7	82.5°	25.1	9.7	1.9	0.0	0.0	15.4	7.7	15.4	19.3	29.0
9.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.7	17.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
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: P956431
 CATALOG NUMBER: GALN-SB9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3879.7	0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
3516.9	2.5°	3597.9	3675.1	3798.7	3926.1	4051.5	4178.9	4302.5	4346.8
3111.5	5°	3264.0	3441.6	3686.7	3949.2	4219.5	4493.5	4744.5	4858.4
2692.7	7.5°	2891.5	3146.3	3514.9	3926.1	4356.5	4786.9	5182.6	5366.0
2277.7	10°	2493.8	2816.2	3237.0	3792.9	4410.5	5005.1	5549.4	5786.8
1912.8	12.5°	2115.5	2453.3	2918.5	3584.4	4368.1	5130.5	5784.9	6064.7
1656.1	15°	1799.0	2098.1	2600.0	3337.3	4231.0	5138.2	5896.8	6203.7
1513.3	17.5°	1561.5	1756.5	2275.7	3063.3	4051.5	5066.8	5935.4	6263.6
1436.1	20°	1443.8	1497.8	1854.9	2712.0	3883.6	4999.3	5974.0	6319.5
1374.3	22.5°	1374.3	1387.8	1517.2	2258.4	3682.9	4978.0	6041.6	6396.7
1318.3	25°	1318.3	1322.2	1356.9	1789.3	3375.9	4964.5	6145.8	6502.9
1260.4	27.5°	1262.4	1262.4	1281.7	1441.9	2959.0	4906.6	6280.9	6630.3
1202.5	30°	1206.4	1206.4	1219.9	1275.9	2470.7	4792.7	6443.1	6796.3
1144.6	32.5°	1148.5	1148.5	1160.1	1200.6	1972.7	4649.9	6591.7	6964.2
1084.8	35°	1090.6	1086.7	1102.2	1144.6	1569.3	4468.5	6740.3	7145.7
1024.9	37.5°	1028.8	1026.9	1042.3	1090.6	1355.0	4258.1	6852.3	7392.7
965.1	40°	963.2	963.2	980.5	1032.7	1293.2	3993.6	7029.8	7747.9
903.3	42.5°	903.3	899.5	918.8	982.5	1246.9	3740.8	7348.3	8265.2
847.4	45°	845.4	837.7	855.1	934.2	1165.9	3652.0	7942.8	9029.6
793.3	47.5°	791.4	772.1	787.5	876.3	1092.5	3984.0	8915.7	10089.2
745.1	50°	747.0	710.3	723.8	818.4	1036.5	4703.9	10178.0	11496.4
700.7	52.5°	700.7	652.4	660.1	747.0	986.3	5389.2	11546.6	13353.2
656.3	55°	652.4	598.4	602.2	675.6	914.9	5491.5	12882.3	15885.7
606.1	57.5°	598.4	548.2	548.2	609.9	862.8	4759.9	13909.1	19028.1
544.3	60°	538.5	505.7	496.1	557.8	909.1	3358.6	14028.8	21054.8
465.2	62.5°	472.9	455.5	442.0	507.6	943.9	1990.1	13065.6	20564.5
366.7	65°	397.6	393.8	384.1	557.8	795.2	1175.5	11216.5	19060.9
312.7	67.5°	333.9	328.1	328.1	584.9	604.2	739.3	8763.2	16991.7
266.4	70°	287.6	266.4	266.4	442.0	366.7	511.5	6118.8	14758.4
220.0	72.5°	241.3	218.1	202.7	353.2	274.1	374.5	3823.8	12639.1
167.9	75°	193.0	175.6	156.3	233.6	204.6	283.7	2221.7	10471.4
106.2	77.5°	139.0	131.3	110.0	171.8	148.6	204.6	1322.2	8079.9
65.6	80°	71.4	73.3	69.5	98.4	100.4	139.0	752.8	5530.1
42.5	82.5°	42.5	32.8	36.7	48.3	57.9	79.1	283.7	3250.5
30.9	85°	27.0	17.4	17.4	23.2	29.0	30.9	86.9	1318.3
15.4	87.5°	13.5	5.8	7.7	11.6	9.7	7.7	3.9	332.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)