

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: P952926

Luminaire Tested: **GALN-SB6C-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952926
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-SB6C-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 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: 33153 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

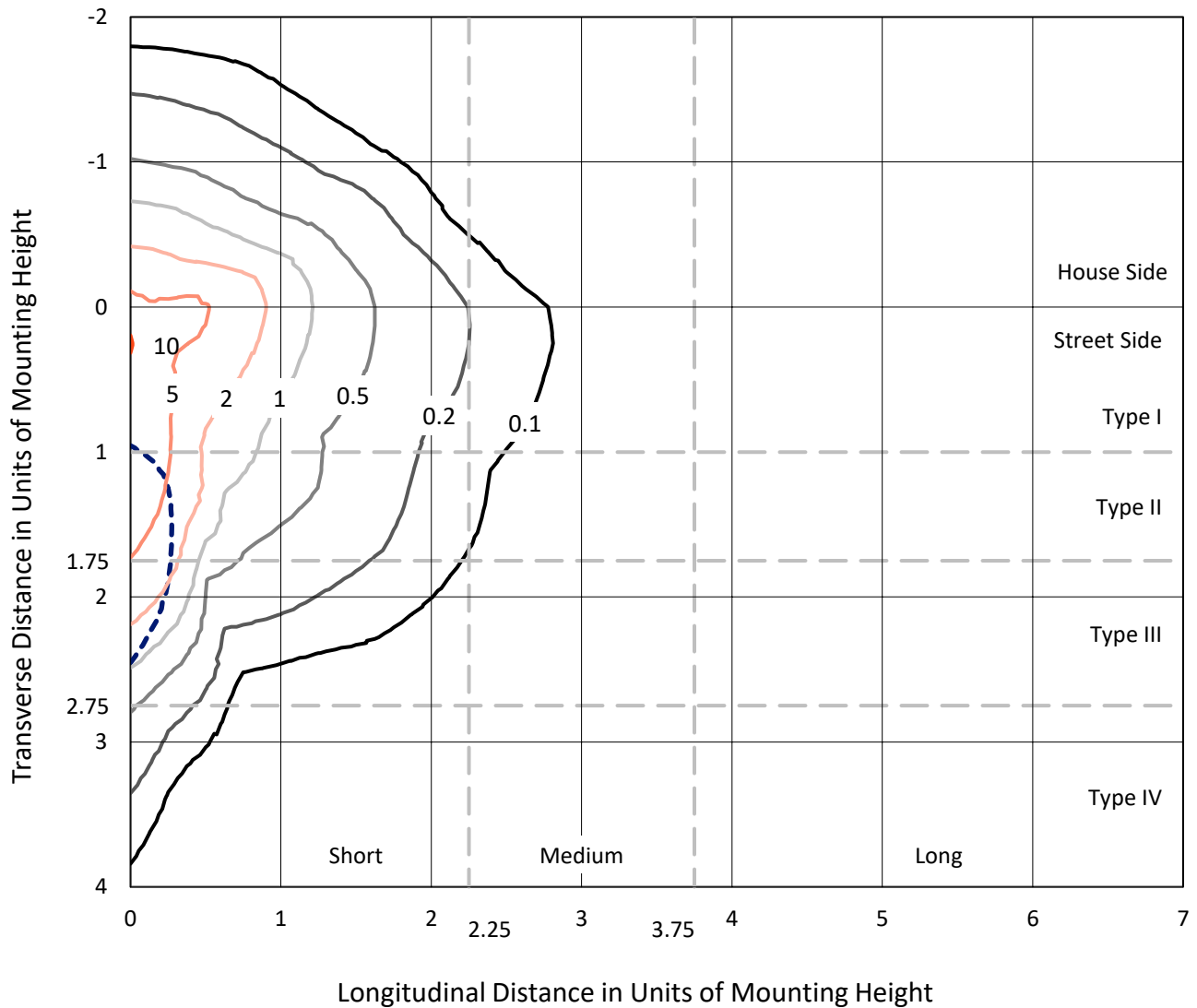
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

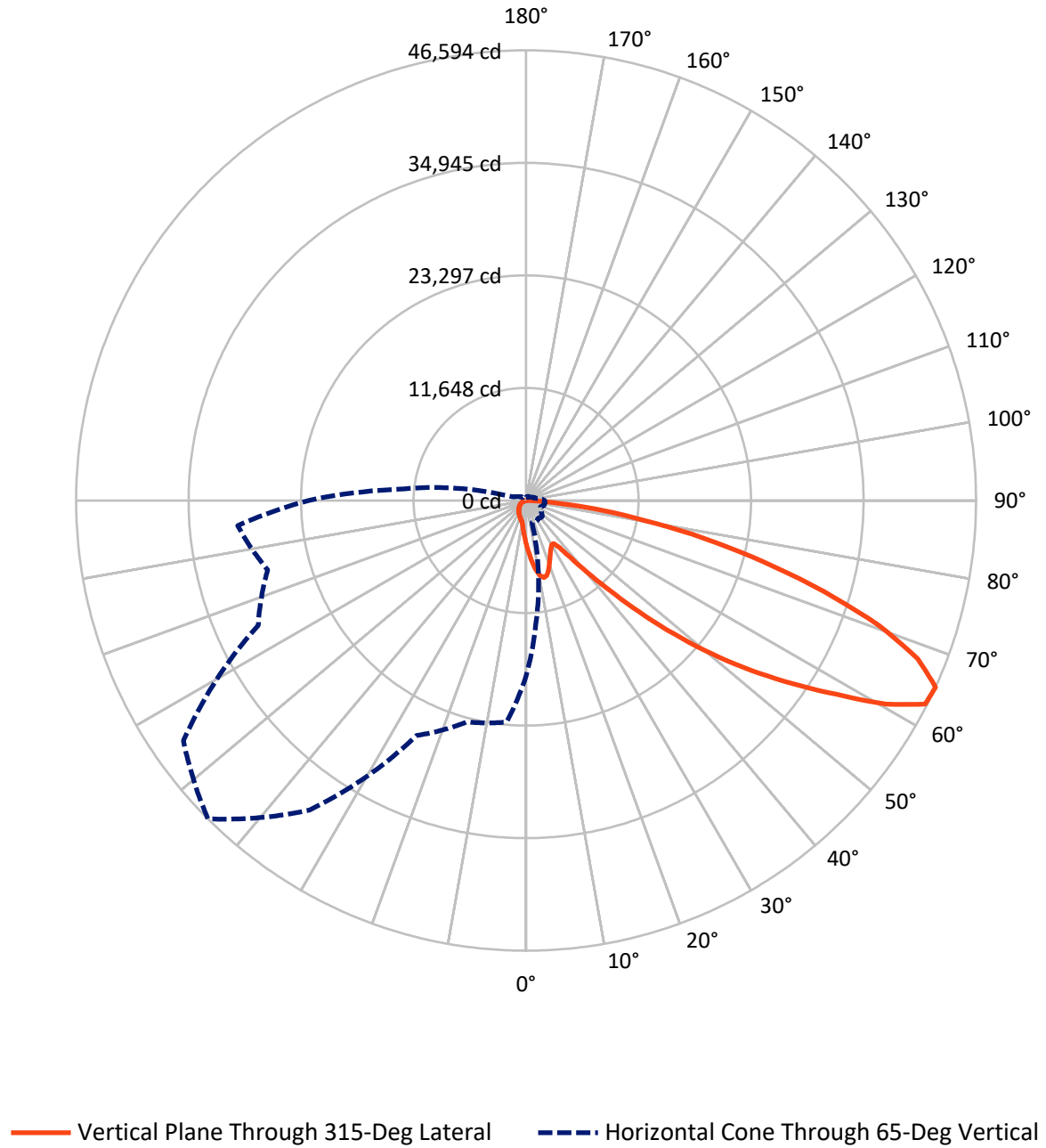
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4642.8	0.0	4642.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	28510.2	0.0	28510.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	33153.0	0.0	33153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.0	1.4
10°-20°	1354.8	4.1
20°-30°	1996.0	6.0
30°-40°	2564.3	7.7
40°-50°	4147.2	12.5
50°-60°	7272.5	21.9
60°-70°	9099.9	27.4
70°-80°	5317.6	16.0
80°-90°	948.7	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°	33153.0	100.0
0°-180°	33153.0	100.0

Coefficient of Utilization



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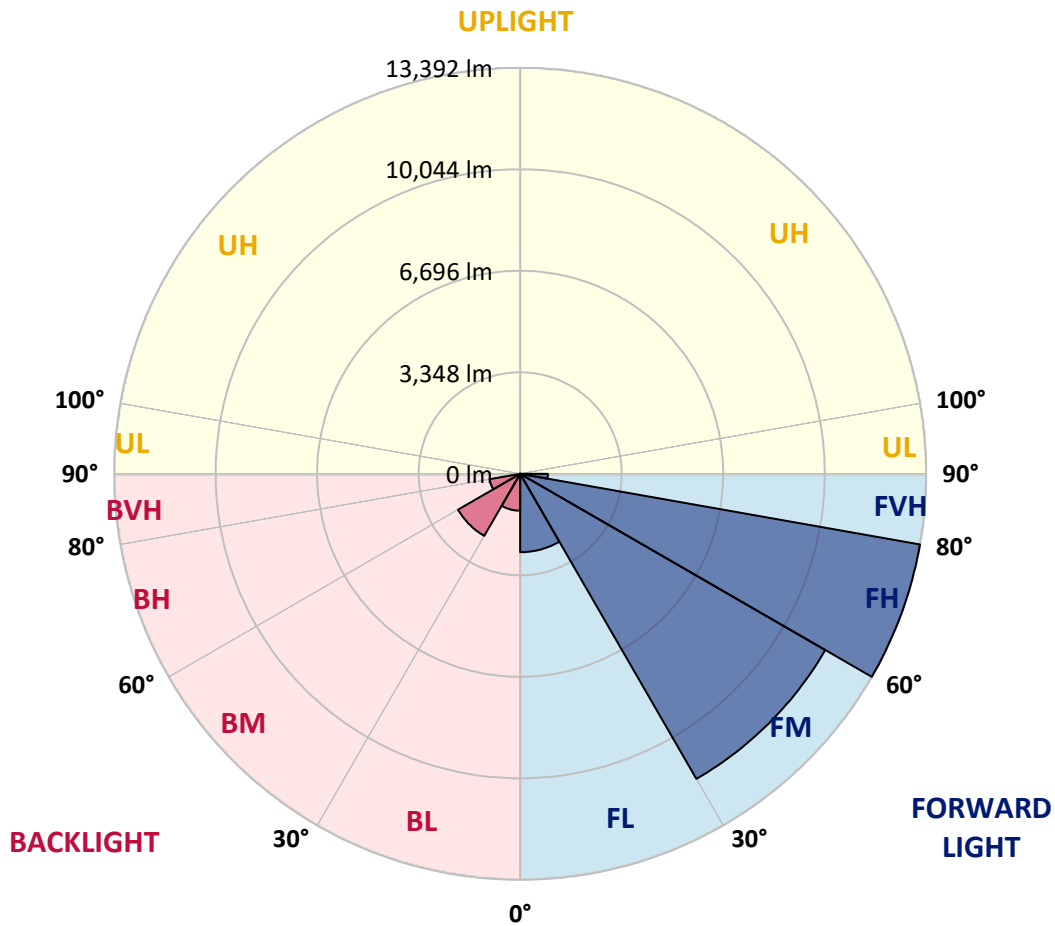
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2585.8	7.8			
FM (30°-60°)	11619.8	35.0			
FH (60°-80°)	13392.3	40.4			G5
FVH (80°-90°)	912.3	2.8			G5
BL (0°-30°)	1217.0	3.7	B3/2500		
BM (30°-60°)	2364.2	7.1	B2/2500		
BH (60°-80°)	1025.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	36.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6
2.5°	5186.7	5097.7	5045.1	4914.9	4784.8	4679.7	4538.1	4444.5	4332.5	4225.2
5°	5780.5	5636.7	5463.1	5225.6	5008.6	4787.0	4572.4	4360.0	4136.1	3930.6
7.5°	6283.0	6075.2	5769.1	5453.9	5177.6	4910.4	4659.1	4378.2	4106.4	3784.4
10°	6666.7	6401.8	5999.8	5586.4	5268.9	4999.4	4755.1	4517.5	4243.5	3855.2
12.5°	6899.6	6616.4	6139.1	5654.9	5291.8	4990.3	4800.7	4695.7	4588.3	4202.4
15°	7070.9	6764.9	6237.3	5702.9	5239.3	4869.3	4729.9	4835.0	4958.3	4711.7
17.5°	7249.1	6927.1	6365.2	5723.4	5097.7	4634.0	4574.6	4846.4	5131.9	5120.5
20°	7418.1	7098.3	6477.1	5709.7	4869.3	4348.5	4401.1	4748.2	5079.4	5218.7
22.5°	7612.2	7274.2	6584.5	5657.2	4572.4	4081.3	4245.8	4592.9	4883.0	5047.4
25°	7849.7	7495.7	6735.2	5579.6	4252.6	3859.8	4088.2	4412.5	4647.7	4761.9
27.5°	8105.5	7760.7	6936.2	5538.4	3994.5	3702.2	3910.0	4197.8	4407.9	4487.9
30°	8423.0	8069.0	7173.7	5492.8	3825.5	3610.8	3725.0	3948.9	4154.4	4234.3
32.5°	8770.2	8411.6	7402.1	5383.1	3722.7	3542.3	3544.6	3686.2	3873.5	3969.4
35°	9204.1	8822.7	7646.5	5143.3	3640.5	3462.4	3368.7	3437.3	3592.6	3706.8
37.5°	9823.0	9361.7	7945.7	4800.7	3519.5	3339.1	3183.8	3199.7	3318.5	3444.1
40°	10677.2	10085.7	8297.4	4444.5	3345.9	3165.5	2980.5	2973.6	3060.4	3183.8
42.5°	11832.9	11042.6	8719.9	4104.2	3179.2	2955.4	2765.8	2754.4	2822.9	2930.2
45°	13358.5	12266.8	9238.4	3811.8	3049.0	2749.8	2562.5	2558.0	2615.1	2708.7
47.5°	15311.2	13968.3	9756.8	3613.1	2980.5	2587.7	2395.8	2404.9	2455.2	2539.7
50°	17839.5	16186.0	9914.4	3512.6	2980.5	2500.9	2247.4	2293.0	2334.1	2398.1
52.5°	20870.2	18314.6	9393.7	3421.3	2998.8	2512.3	2121.7	2219.9	2249.6	2304.5
55°	23679.4	19358.3	8075.9	3295.7	3003.3	2583.1	2014.4	2160.6	2215.4	2235.9
57.5°	25310.1	18999.7	6529.7	3083.3	2985.1	2631.0	1945.9	2087.5	2192.5	2206.2
60°	24999.5	17741.3	4807.6	2921.1	2850.3	2612.8	1925.3	1975.6	2142.3	2162.8
62.5°	22606.0	15631.0	3336.8	2795.5	2553.4	2532.8	1918.5	1799.7	2032.7	2082.9
65°	18170.7	12305.6	2357.0	2407.2	2238.2	2359.3	1881.9	1617.0	1900.2	1968.7
67.5°	13182.6	8327.1	1701.5	1950.4	2028.1	2078.3	1799.7	1484.5	1749.5	1840.8
70°	8459.5	4497.0	1194.5	1288.1	1708.4	1765.5	1658.1	1365.8	1596.4	1701.5
72.5°	6013.5	2656.2	858.7	902.1	1372.6	1470.8	1459.4	1233.3	1418.3	1546.2
75°	4149.8	1464.0	580.1	644.1	995.8	1194.5	1126.0	1059.7	1201.3	1331.5
77.5°	2601.4	655.5	347.2	447.6	653.2	938.7	772.0	819.9	936.4	1057.4
80°	1448.0	253.5	194.1	296.9	356.3	682.9	427.1	527.6	689.7	776.5
82.5°	315.2	32.0	86.8	127.9	139.3	397.4	226.1	306.0	433.9	427.1
85°	0.0	0.0	16.0	18.3	9.1	171.3	82.2	100.5	141.6	132.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4590.6	0°	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6
4129.3	2.5°	4111.0	3999.1	3916.9	3875.8	3841.5	3873.5	3891.8	3891.8	3969.4	4015.1
3805.0	5°	3725.0	3524.1	3371.0	3268.3	3206.6	3227.1	3250.0	3275.1	3373.3	3439.5
3613.1	7.5°	3457.8	3149.5	2916.5	2772.6	2697.3	2708.7	2724.7	2745.2	2841.2	2907.4
3640.5	10°	3407.6	2964.5	2635.6	2446.1	2354.7	2338.7	2329.6	2322.7	2379.8	2430.1
3951.1	12.5°	3613.1	2973.6	2514.6	2283.9	2172.0	2124.0	2069.2	2025.8	2035.0	2066.9
4421.6	15°	3980.8	3090.1	2475.7	2199.4	2060.1	1980.1	1916.2	1863.7	1852.2	1863.7
4832.7	17.5°	4401.1	3247.7	2471.2	2126.3	1952.7	1870.5	1818.0	1770.0	1754.0	1756.3
5063.4	20°	4679.7	3373.3	2457.5	2044.1	1850.0	1776.9	1731.2	1683.2	1667.2	1671.8
4999.4	22.5°	4707.1	3439.5	2436.9	1952.7	1747.2	1685.5	1639.8	1596.4	1594.2	1594.2
4759.6	25°	4558.7	3439.5	2393.5	1870.5	1649.0	1594.2	1553.0	1500.5	1509.7	1514.2
4487.9	27.5°	4328.0	3357.3	2311.3	1804.3	1564.5	1507.4	1466.3	1418.3	1429.7	1436.6
4234.3	30°	4099.6	3252.3	2213.1	1728.9	1484.5	1418.3	1388.6	1347.5	1352.1	1361.2
3983.1	32.5°	3887.2	3140.4	2096.6	1667.2	1404.6	1338.4	1315.5	1269.8	1276.7	1285.8
3736.5	35°	3677.1	3017.0	1959.6	1594.2	1331.5	1265.3	1247.0	1194.5	1199.0	1212.7
3489.8	37.5°	3451.0	2886.8	1847.7	1521.1	1260.7	1192.2	1173.9	1119.1	1123.7	1139.7
3234.0	40°	3213.4	2758.9	1738.0	1443.4	1185.3	1116.8	1100.8	1041.5	1046.0	1064.3
2982.8	42.5°	2973.6	2619.6	1653.5	1342.9	1107.7	1034.6	1018.6	963.8	970.7	991.2
2763.5	45°	2752.1	2452.9	1598.7	1231.0	1034.6	952.4	936.4	886.2	899.9	922.7
2578.5	47.5°	2562.5	2281.6	1575.9	1137.4	957.0	867.9	854.2	813.1	835.9	861.0
2420.9	50°	2400.4	2117.2	1546.2	1041.5	883.9	794.8	781.1	753.7	783.4	808.5
2313.6	52.5°	2283.9	1929.9	1482.2	954.7	819.9	733.1	728.6	714.9	742.3	765.1
2233.6	55°	2183.4	1735.8	1379.5	879.3	762.8	680.6	685.2	678.3	701.2	719.4
2185.7	57.5°	2092.0	1566.8	1249.3	819.9	701.2	634.9	648.6	639.5	650.9	662.3
2135.4	60°	1982.4	1395.5	1094.0	753.7	628.1	589.2	605.2	580.1	577.8	582.4
2044.1	62.5°	1820.3	1164.8	931.8	671.5	564.1	539.0	545.9	497.9	461.3	461.3
1909.3	65°	1594.2	936.4	781.1	580.1	491.0	470.5	465.9	397.4	347.2	342.6
1763.2	67.5°	1331.5	769.7	648.6	488.8	408.8	395.1	399.7	349.4	299.2	294.6
1617.0	70°	1084.9	637.2	523.0	390.5	315.2	328.9	349.4	299.2	251.2	244.4
1445.7	72.5°	881.6	507.0	408.8	299.2	233.0	271.8	296.9	244.4	198.7	194.1
1233.3	75°	680.6	372.3	292.3	203.3	169.0	210.1	233.0	178.1	141.6	134.7
954.7	77.5°	454.5	230.7	164.4	127.9	100.5	143.9	155.3	93.6	82.2	79.9
694.3	80°	276.4	107.3	70.8	61.7	34.3	52.5	61.7	38.8	43.4	45.7
370.0	82.5°	139.3	29.7	11.4	2.3	0.0	0.0	18.3	9.1	18.3	22.8
100.5	85°	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4590.6	0°	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6
4033.4	2.5°	4161.3	4257.2	4348.5	4494.7	4645.4	4793.9	4944.6	5090.8	5143.3	5182.2
3482.9	5°	3681.6	3862.1	4072.2	4362.2	4672.8	4992.6	5316.9	5613.8	5748.6	5839.9
2964.5	7.5°	3186.0	3421.3	3722.7	4159.0	4645.4	5154.8	5664.1	6132.3	6349.2	6525.1
2475.7	10°	2695.0	2950.8	3332.2	3830.1	4487.9	5218.7	5922.1	6566.2	6847.1	7068.7
2124.0	12.5°	2263.3	2503.1	2902.8	3453.2	4241.2	5168.5	6070.6	6844.8	7176.0	7424.9
1872.8	15°	1959.6	2128.6	2482.6	3076.4	3948.9	5006.3	6079.7	6977.3	7340.4	7600.8
1767.7	17.5°	1790.6	1847.7	2078.3	2692.7	3624.5	4793.9	5995.2	7023.0	7411.2	7653.3
1674.1	20°	1699.2	1708.4	1772.3	2194.8	3208.9	4595.2	5915.3	7068.7	7477.5	7680.7
1607.9	22.5°	1626.1	1626.1	1642.1	1795.1	2672.2	4357.7	5890.2	7148.6	7568.8	7694.4
1532.5	25°	1559.9	1559.9	1564.5	1605.6	2117.2	3994.5	5874.2	7271.9	7694.4	7728.7
1457.1	27.5°	1491.4	1493.7	1493.7	1516.5	1706.1	3501.2	5805.7	7431.8	7845.2	7774.4
1384.0	30°	1422.9	1427.4	1427.4	1443.4	1509.7	2923.4	5670.9	7623.6	8041.6	7833.8
1311.0	32.5°	1354.3	1358.9	1358.9	1372.6	1420.6	2334.1	5501.9	7799.5	8240.3	7858.9
1240.2	35°	1283.5	1290.4	1285.8	1304.1	1354.3	1856.8	5287.2	7975.4	8455.0	7938.8
1171.6	37.5°	1212.7	1217.3	1215.0	1233.3	1290.4	1603.3	5038.3	8107.8	8747.3	8117.0
1098.6	40°	1141.9	1139.7	1139.7	1160.2	1221.9	1530.2	4725.4	8317.9	9167.6	8429.9
1025.5	42.5°	1068.9	1068.9	1064.3	1087.1	1162.5	1475.4	4426.2	8694.8	9779.6	8927.7
957.0	45°	1002.6	1000.3	991.2	1011.8	1105.4	1379.5	4321.1	9398.2	10684.1	9734.0
888.4	47.5°	938.7	936.4	913.6	931.8	1036.9	1292.7	4714.0	10549.3	11937.9	10919.3
833.6	50°	881.6	883.9	840.5	856.5	968.4	1226.5	5565.9	12043.0	13602.9	12515.7
787.9	52.5°	829.1	829.1	772.0	781.1	883.9	1167.1	6376.6	13662.3	15800.0	14742.5
740.0	55°	776.5	772.0	708.0	712.6	799.4	1082.6	6497.7	15242.7	18796.5	18093.0
687.5	57.5°	717.1	708.0	648.6	648.6	721.7	1020.9	5632.1	16457.8	22514.6	23017.1
589.2	60°	644.1	637.2	598.4	587.0	660.0	1075.7	3974.0	16599.4	24912.7	29565.0
468.2	62.5°	550.4	559.6	539.0	523.0	600.7	1116.8	2354.7	15459.7	24332.6	31647.9
363.1	65°	433.9	470.5	465.9	454.5	660.0	941.0	1390.9	13271.7	22553.5	29967.0
317.5	67.5°	370.0	395.1	388.3	388.3	692.0	714.9	874.7	10368.9	20105.1	27973.2
264.9	70°	315.2	340.3	315.2	315.2	523.0	433.9	605.2	7239.9	17462.7	25766.9
212.4	72.5°	260.4	285.5	258.1	239.8	418.0	324.3	443.1	4524.4	14954.9	23469.3
150.7	75°	198.7	228.4	207.8	185.0	276.4	242.1	335.7	2628.8	12390.1	20080.0
91.4	77.5°	125.6	164.4	155.3	130.2	203.3	175.9	242.1	1564.5	9560.4	15690.4
54.8	80°	77.7	84.5	86.8	82.2	116.5	118.8	164.4	890.7	6543.4	10935.3
34.3	82.5°	50.2	50.2	38.8	43.4	57.1	68.5	93.6	335.7	3846.1	6657.6
20.6	85°	36.5	32.0	20.6	20.6	27.4	34.3	36.5	102.8	1559.9	2628.8
9.1	87.5°	18.3	16.0	6.9	9.1	13.7	11.4	9.1	4.6	392.8	840.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 CATALOG NUMBER: GALN-SB6C-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4590.6	0°	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6	4590.6
5268.9	2.5°	5314.6	5385.4	5390.0	5390.0	5328.3	5326.0	5200.4	5186.7
6045.5	5°	6257.9	6303.6	6315.0	6292.1	6168.8	6077.4	5833.1	5780.5
6838.0	7.5°	7121.2	7212.5	7212.5	7157.7	6956.7	6769.5	6415.5	6283.0
7493.5	10°	7810.9	7916.0	7893.1	7781.2	7527.7	7269.6	6840.3	6666.7
7890.9	12.5°	8146.7	8254.0	8194.6	8066.7	7820.1	7548.3	7096.1	6899.6
8005.1	15°	8139.8	8110.1	8048.4	8032.5	7913.7	7708.1	7285.6	7070.9
7934.3	17.5°	7849.7	7598.5	7550.6	7710.4	7861.2	7810.9	7450.1	7249.1
7765.2	20°	7390.7	6952.2	6908.8	7214.8	7644.2	7863.5	7603.1	7418.1
7520.9	22.5°	6906.5	6433.7	6333.2	6671.3	7317.6	7879.4	7797.2	7612.2
7251.4	25°	6447.4	5972.4	5871.9	6187.1	6954.5	7852.0	8007.3	7849.7
6993.3	27.5°	6063.7	5604.7	5511.0	5826.2	6605.0	7774.4	8217.5	8105.5
6737.5	30°	5766.8	5342.0	5273.5	5577.3	6303.6	7678.5	8484.7	8423.0
6500.0	32.5°	5593.3	5282.6	5307.8	5556.7	6141.4	7573.4	8740.5	8770.2
6383.5	35°	5764.6	5778.3	5997.5	6100.3	6292.1	7557.4	9087.6	9204.1
6522.8	37.5°	6616.4	7091.5	7546.0	7461.5	7029.8	7742.4	9606.1	9823.0
7130.3	40°	8066.7	9041.9	9779.6	9457.6	8370.5	8308.8	10352.9	10677.2
8208.3	42.5°	9839.0	11492.6	12707.6	11844.3	10099.4	9300.0	11419.5	11832.9
9512.4	45°	11709.5	14514.2	16428.1	14632.9	11942.5	10688.6	13034.2	13358.5
10734.3	47.5°	13680.5	18186.7	20662.4	17725.3	13650.8	12269.1	15235.9	15311.2
11892.2	50°	15836.5	22213.2	24979.0	20815.4	15299.8	14080.2	17926.3	17839.5
13242.0	52.5°	17889.8	26353.9	29204.2	23919.2	16747.8	16327.6	21048.4	20870.2
15087.4	55°	19849.3	30492.3	33454.5	26902.0	18113.6	19296.6	24757.4	23679.4
17748.2	57.5°	22121.8	34212.8	37835.0	29898.5	20022.9	23151.8	28905.0	25310.1
22843.5	60°	25481.4	38440.2	42788.8	34004.9	23654.3	27203.5	30391.8	24999.5
28946.1	62.5°	29770.6	42327.4	46390.5	38029.1	27301.7	27966.3	28201.5	22606.0
27701.4	65°	30604.2	43311.8	46593.7	39104.9	26831.2	23722.8	23023.9	18170.7
24743.7	67.5°	28393.4	41532.6	43752.6	37101.9	23734.2	18332.8	17277.7	13182.6
22802.4	70°	25913.1	38141.1	38801.1	33696.6	20874.8	13484.1	11668.4	8459.5
21473.2	72.5°	23371.1	33616.7	32250.9	29263.6	18346.5	9818.5	8416.2	6013.5
19579.8	75°	20351.8	27667.1	25403.8	24314.4	15190.2	7705.9	6088.9	4149.8
16841.4	77.5°	16297.9	19474.8	18869.5	18846.7	11414.9	5629.8	4063.0	2601.4
13157.5	80°	11497.1	12639.1	12330.8	14194.4	7657.9	4083.6	2446.1	1448.0
9158.4	82.5°	5565.9	6988.7	7173.7	8452.7	3725.0	2402.7	564.1	315.2
3581.1	85°	2178.8	3371.0	2843.4	3208.9	1046.0	669.2	13.7	0.0
589.2	87.5°	244.4	390.5	358.6	283.2	127.9	27.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)