

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: P956599

Luminaire Tested: **GALN-SB9A-950-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956599
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-950-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 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: 21692 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

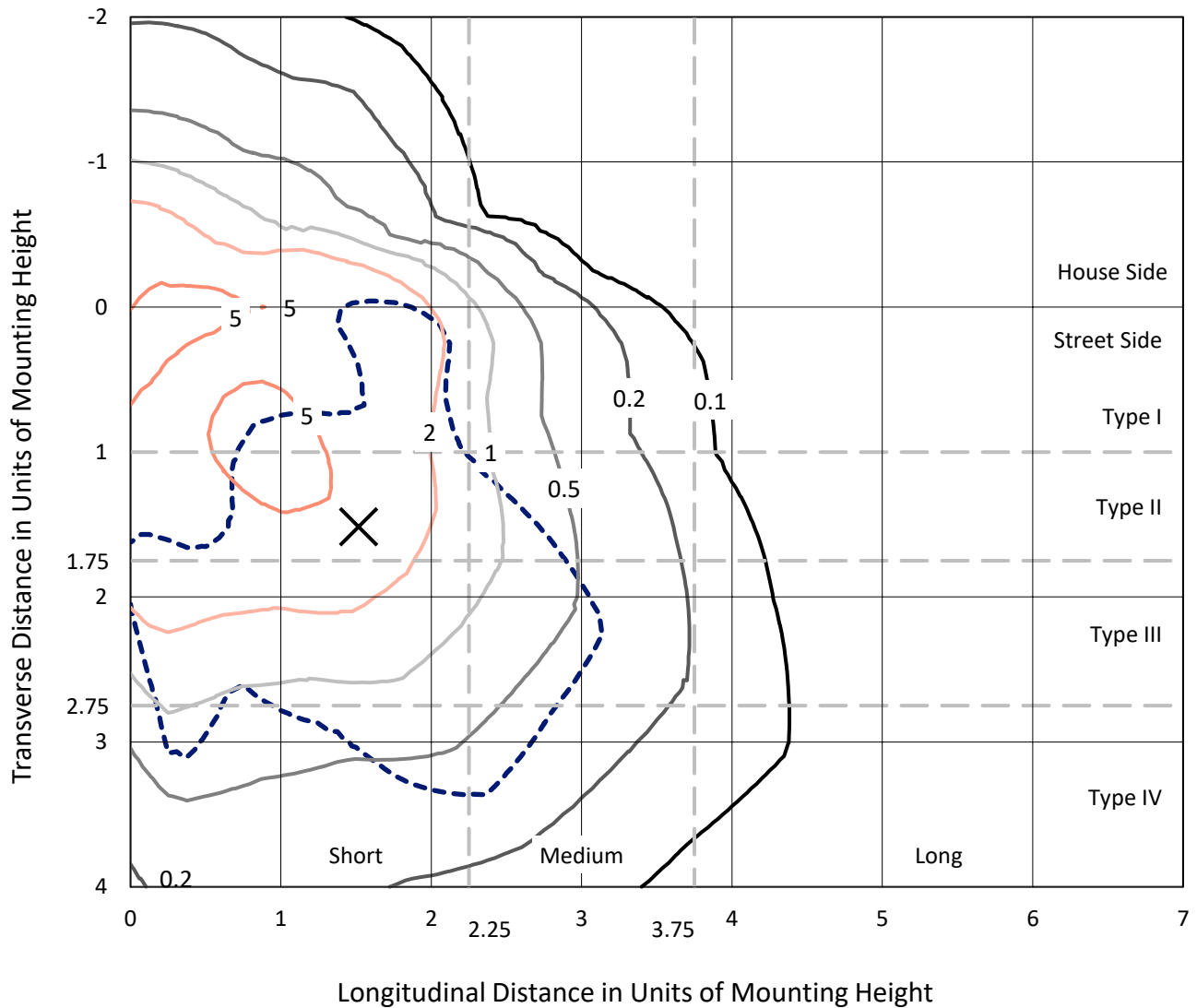
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

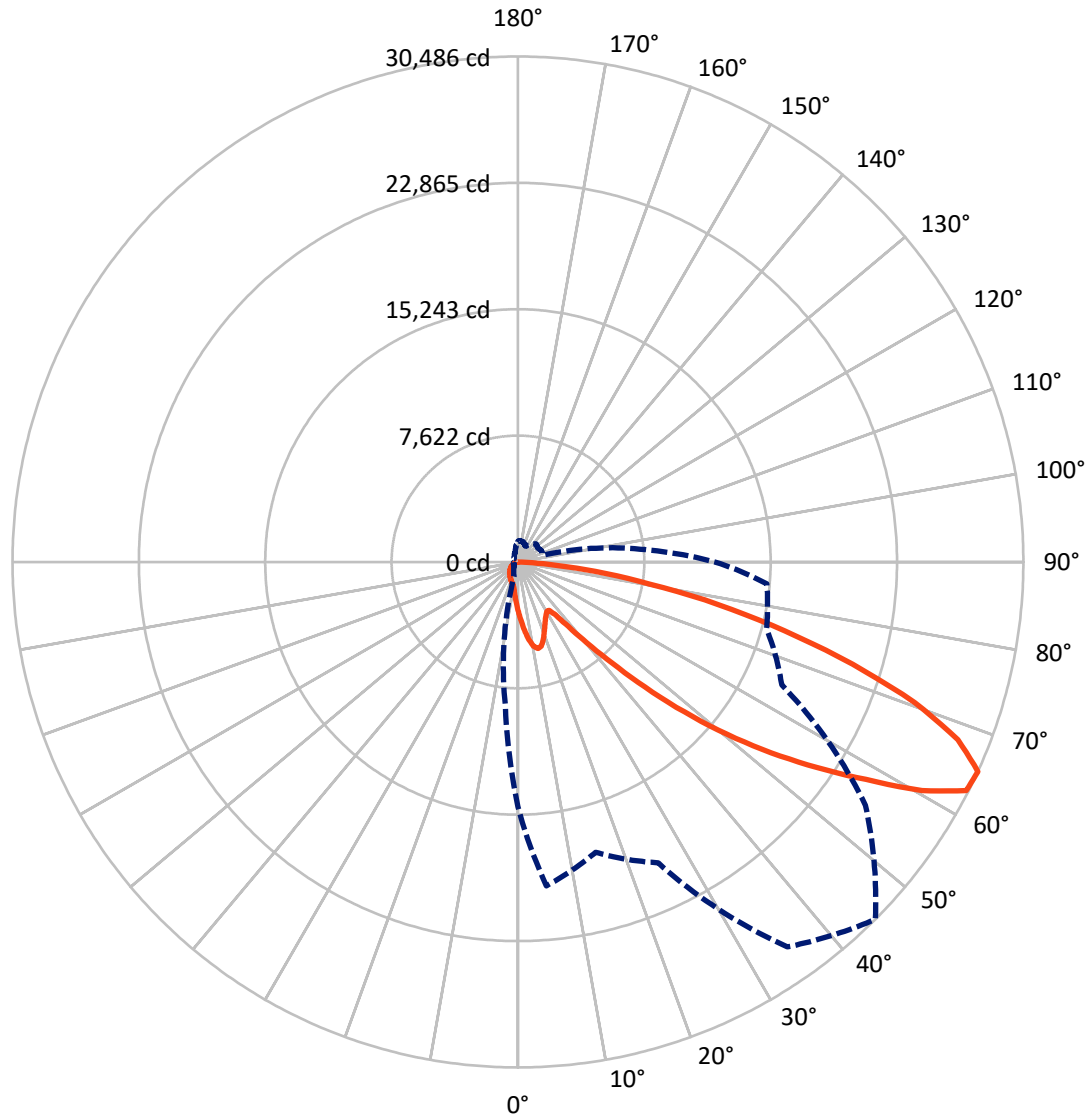
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4311.7	0.0	4311.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	17380.3	0.0	17380.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	21692.0	0.0	21692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	1.4
10°-20°	886.5	4.1
20°-30°	1306.0	6.0
30°-40°	1677.8	7.7
40°-50°	2713.5	12.5
50°-60°	4758.4	21.9
60°-70°	5954.1	27.4
70°-80°	3479.3	16.0
80°-90°	620.8	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°	21692.0	100.0
0°-180°	21692.0	100.0



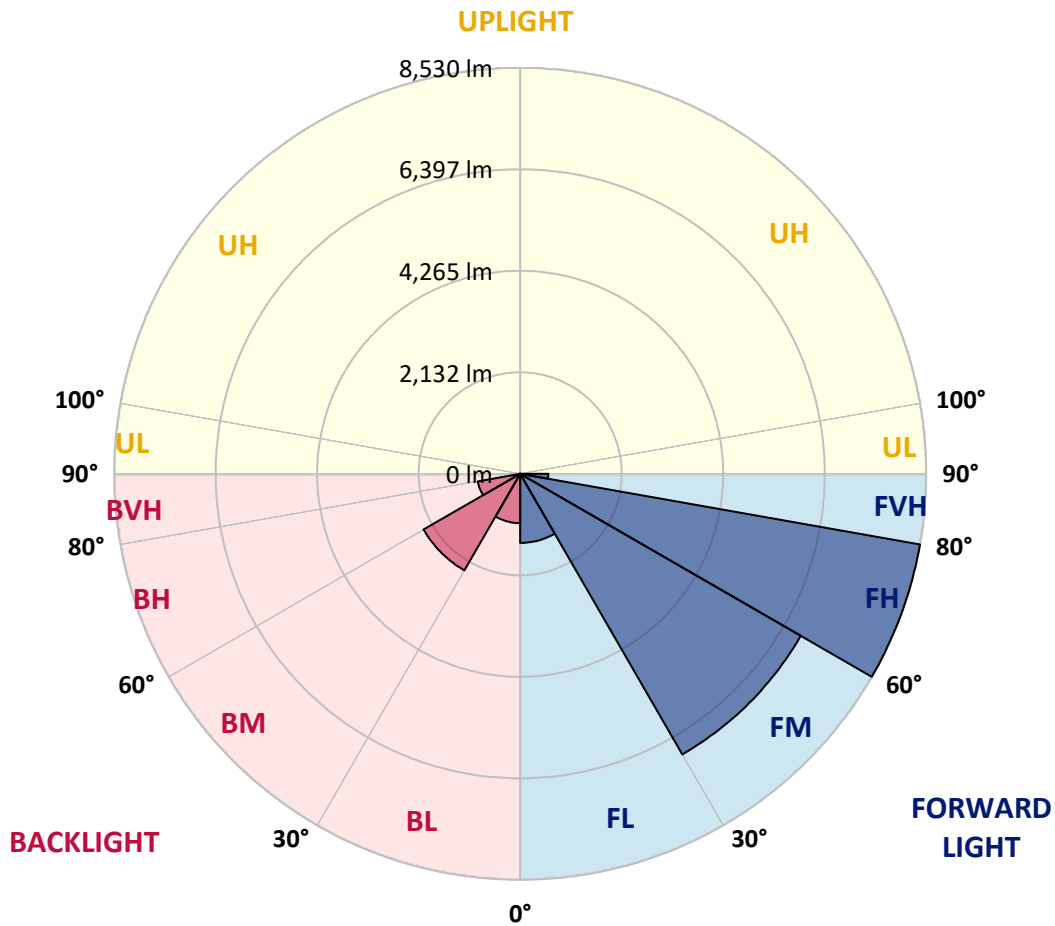
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.4	6.7			
FM (30°-60°)	6807.2	31.4			
FH (60°-80°)	8530.0	39.3			G4/12000
FVH (80°-90°)	591.7	2.7			G4/750
BL (0°-30°)	1036.7	4.8	B3/2500		
BM (30°-60°)	2342.5	10.8	B2/2500		
BH (60°-80°)	903.4	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6
2.5°	3365.3	3390.7	3447.5	3477.4	3523.7	3526.7	3526.7	3486.3	3484.8	3402.6
5°	3761.3	3821.1	3955.6	4094.5	4124.4	4131.9	4116.9	4036.2	3976.5	3816.6
7.5°	4154.3	4269.4	4474.1	4659.4	4719.2	4719.2	4683.3	4551.8	4429.3	4197.6
10°	4480.1	4625.0	4903.0	5110.7	5179.4	5164.5	5091.3	4925.4	4756.5	4475.6
12.5°	4695.3	4858.1	5163.0	5330.4	5400.6	5361.7	5278.1	5116.7	4938.8	4643.0
15°	4802.8	4973.2	5237.7	5325.9	5306.4	5266.1	5255.6	5177.9	5043.4	4767.0
17.5°	4849.2	5007.6	5191.4	5136.1	4971.7	4940.3	5044.9	5143.6	5110.7	4874.6
20°	4892.5	5025.5	5080.8	4835.7	4548.8	4520.4	4720.7	5001.6	5145.1	4974.7
22.5°	4952.3	5034.5	4920.9	4518.9	4209.6	4143.8	4365.0	4787.9	5155.5	5101.7
25°	5034.5	5056.9	4744.6	4218.6	3907.7	3842.0	4048.2	4550.3	5137.6	5239.2
27.5°	5133.1	5086.8	4575.7	3967.5	3667.1	3605.9	3812.1	4321.7	5086.8	5376.7
30°	5261.6	5125.6	4408.3	3773.2	3495.3	3450.5	3649.2	4124.4	5024.0	5551.5
32.5°	5391.6	5142.1	4252.9	3659.7	3456.4	3472.9	3635.8	4018.3	4955.3	5718.9
35°	5532.1	5194.4	4176.7	3771.7	3780.7	3924.2	3991.4	4116.9	4944.8	5946.0
37.5°	5723.4	5310.9	4267.9	4329.1	4640.0	4937.3	4882.0	4599.6	5065.9	6285.2
40°	5998.3	5515.7	4665.4	5278.1	5916.1	6398.8	6188.1	5476.8	5436.5	6773.9
42.5°	6398.8	5841.4	5370.7	6437.7	7519.6	8314.6	7749.7	6608.0	6085.0	7471.8
45°	6990.6	6368.9	6224.0	7661.5	9496.6	10748.9	9574.3	7814.0	6993.6	8528.3
47.5°	7811.0	7144.5	7023.5	8951.2	11899.5	13519.4	11597.7	8931.7	8027.7	9968.8
50°	8900.4	8189.1	7781.1	10361.8	14534.1	16343.7	13619.5	10010.7	9212.7	11729.2
52.5°	10337.9	9646.0	8664.3	11705.3	17243.3	19108.3	15650.4	10958.1	10683.1	13771.9
55°	12298.5	11838.3	9871.7	12987.4	19951.1	21889.3	17602.0	11851.7	12625.8	16198.8
57.5°	14731.3	15060.1	11612.6	14474.3	22385.4	24755.4	19562.6	13101.0	15148.2	18912.5
60°	16300.4	19344.4	14946.5	16672.5	25151.4	27996.7	22249.4	15477.0	17799.2	19885.3
62.5°	15920.8	20707.2	18939.4	19478.9	27694.8	30353.3	24882.5	17863.5	18298.3	18452.3
65°	14756.7	19607.4	18125.0	20024.3	28338.9	30486.3	25586.3	17555.6	15521.8	15064.6
67.5°	13154.8	18302.8	16189.8	18577.8	27174.8	28627.3	24275.8	15529.3	11995.2	11304.8
70°	11425.8	16859.3	14919.6	16954.9	24955.7	25387.5	22047.7	13658.4	8822.7	7634.6
72.5°	9785.0	15356.0	14049.9	15291.7	21995.4	21101.7	19147.1	12004.1	6424.2	5506.7
75°	8106.9	13138.3	12811.1	13316.2	18102.6	16621.7	15908.9	9938.9	5041.9	3983.9
77.5°	6255.4	10266.2	11019.4	10663.7	12742.3	12346.3	12331.4	7468.8	3683.6	2658.5
80°	4281.3	7155.0	8609.0	7522.6	8269.7	8068.0	9287.4	5010.6	2671.9	1600.5
82.5°	2516.5	4356.0	5992.4	3641.7	4572.7	4693.8	5530.6	2437.3	1572.1	369.1
85°	1020.6	1720.0	2343.1	1425.6	2205.7	1860.5	2099.6	684.4	437.8	9.0
87.5°	257.0	549.9	385.5	159.9	255.5	234.6	185.3	83.7	17.9	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3003.6	0°	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6
3393.7	2.5°	3335.4	3301.0	3215.8	3130.7	3061.9	2969.3	2908.0	2834.8	2764.6	2701.8
3782.2	5°	3688.1	3574.5	3419.1	3277.1	3132.2	2991.7	2852.7	2706.3	2571.8	2489.6
4111.0	7.5°	3975.0	3774.7	3568.5	3387.7	3212.9	3048.5	2864.7	2686.8	2476.1	2364.1
4362.0	10°	4188.7	3925.7	3655.2	3447.5	3271.1	3111.2	2955.8	2776.5	2522.5	2382.0
4514.4	12.5°	4329.1	4016.8	3700.0	3462.4	3265.2	3141.1	3072.4	3002.2	2749.6	2585.2
4626.5	15°	4426.3	4081.1	3731.4	3428.0	3186.0	3094.8	3163.5	3244.2	3082.8	2893.1
4743.1	17.5°	4532.4	4164.8	3744.8	3335.4	3032.0	2993.2	3171.0	3357.8	3350.3	3162.0
4853.7	20°	4644.4	4238.0	3735.9	3186.0	2845.2	2879.6	3106.8	3323.4	3414.6	3313.0
4980.7	22.5°	4759.5	4308.2	3701.5	2991.7	2670.4	2778.0	3005.1	3194.9	3302.5	3271.1
5136.1	25°	4904.5	4406.8	3650.7	2782.5	2525.5	2674.9	2887.1	3041.0	3115.7	3114.2
5303.5	27.5°	5077.8	4538.3	3623.8	2613.6	2422.3	2558.3	2746.6	2884.1	2936.4	2936.4
5511.2	30°	5279.5	4693.8	3593.9	2503.0	2362.6	2437.3	2583.7	2718.2	2770.5	2770.5
5738.3	32.5°	5503.7	4843.2	3522.2	2435.8	2317.7	2319.2	2411.9	2534.4	2597.2	2606.2
6022.2	35°	5772.7	5003.1	3365.3	2382.0	2265.4	2204.2	2249.0	2350.6	2425.3	2444.8
6427.2	37.5°	6125.3	5198.9	3141.1	2302.8	2184.7	2083.1	2093.6	2171.3	2253.5	2283.4
6986.1	40°	6599.1	5429.0	2908.0	2189.2	2071.2	1950.1	1945.6	2002.4	2083.1	2116.0
7742.2	42.5°	7225.2	5705.4	2685.4	2080.1	1933.7	1809.7	1802.2	1847.0	1917.3	1951.6
8740.5	45°	8026.2	6044.7	2494.1	1995.0	1799.2	1676.7	1673.7	1711.0	1772.3	1808.2
10018.1	47.5°	9139.5	6383.9	2364.1	1950.1	1693.1	1567.6	1573.6	1606.4	1661.7	1687.1
11672.4	50°	10590.5	6487.0	2298.3	1950.1	1636.3	1470.4	1500.3	1527.2	1569.1	1584.0
13655.4	52.5°	11983.2	6146.3	2238.5	1962.1	1643.8	1388.3	1452.5	1471.9	1507.8	1513.8
15493.4	55°	12666.1	5284.0	2156.4	1965.1	1690.1	1318.0	1413.7	1449.5	1463.0	1461.5
16560.4	57.5°	12431.5	4272.4	2017.4	1953.1	1721.5	1273.2	1365.8	1434.6	1443.5	1430.1
16357.2	60°	11608.1	3145.6	1911.3	1865.0	1709.5	1259.7	1292.6	1401.7	1415.2	1397.2
14791.1	62.5°	10227.3	2183.2	1829.1	1670.7	1657.2	1255.3	1177.5	1330.0	1362.8	1337.4
11889.1	65°	8051.6	1542.2	1575.0	1464.5	1543.7	1231.3	1058.0	1243.3	1288.1	1249.3
8625.4	67.5°	5448.4	1113.3	1276.2	1327.0	1359.9	1177.5	971.3	1144.7	1204.4	1153.6
5535.1	70°	2942.4	781.5	842.8	1117.8	1155.1	1084.9	893.6	1044.6	1113.3	1058.0
3934.6	72.5°	1737.9	561.9	590.3	898.1	962.4	954.9	807.0	928.0	1011.7	945.9
2715.2	75°	957.9	379.6	421.4	651.5	781.5	736.7	693.4	786.0	871.2	807.0
1702.1	77.5°	428.9	227.1	292.9	427.4	614.2	505.1	536.5	612.7	691.9	624.6
947.4	80°	165.9	127.0	194.3	233.1	446.8	279.4	345.2	451.3	508.1	454.3
206.2	82.5°	20.9	56.8	83.7	91.2	260.0	147.9	200.2	283.9	279.4	242.1
0.0	85°	0.0	10.5	12.0	6.0	112.1	53.8	65.8	92.6	86.7	65.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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°
3003.6	0°	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6
2689.8	2.5°	2616.6	2562.8	2535.9	2513.5	2534.4	2546.4	2546.4	2597.2	2627.1	2639.0
2437.3	5°	2305.8	2205.7	2138.4	2098.1	2111.5	2126.5	2142.9	2207.2	2250.5	2278.9
2262.4	7.5°	2060.7	1908.3	1814.1	1764.8	1772.3	1782.8	1796.2	1859.0	1902.3	1939.7
2229.6	10°	1939.7	1724.5	1600.5	1540.7	1530.2	1524.2	1519.8	1557.1	1590.0	1619.9
2364.1	12.5°	1945.6	1645.3	1494.4	1421.1	1389.7	1353.9	1325.5	1331.5	1352.4	1389.7
2604.7	15°	2021.9	1619.9	1439.1	1347.9	1295.6	1253.8	1219.4	1211.9	1219.4	1225.4
2879.6	17.5°	2125.0	1616.9	1391.2	1277.7	1223.9	1189.5	1158.1	1147.7	1149.2	1156.6
3061.9	20°	2207.2	1607.9	1337.4	1210.4	1162.6	1132.7	1101.3	1090.9	1093.9	1095.4
3079.9	22.5°	2250.5	1594.5	1277.7	1143.2	1102.8	1072.9	1044.6	1043.1	1043.1	1052.0
2982.7	25°	2250.5	1566.1	1223.9	1078.9	1043.1	1016.2	981.8	987.8	990.8	1002.7
2831.8	27.5°	2196.7	1512.3	1180.5	1023.6	986.3	959.4	928.0	935.5	939.9	953.4
2682.4	30°	2128.0	1448.0	1131.2	971.3	928.0	908.6	881.7	884.7	890.6	905.6
2543.4	32.5°	2054.7	1371.8	1090.9	919.0	875.7	860.7	830.9	835.3	841.3	857.8
2405.9	35°	1974.0	1282.2	1043.1	871.2	827.9	815.9	781.5	784.5	793.5	811.4
2258.0	37.5°	1888.9	1208.9	995.2	824.9	780.1	768.1	732.2	735.2	745.7	766.6
2102.6	40°	1805.2	1137.2	944.4	775.6	730.7	720.3	681.4	684.4	696.4	718.8
1945.6	42.5°	1714.0	1081.9	878.7	724.8	676.9	666.5	630.6	635.1	648.5	671.0
1800.7	45°	1604.9	1046.0	805.5	676.9	623.1	612.7	579.8	588.8	603.7	626.1
1676.7	47.5°	1492.9	1031.1	744.2	626.1	567.9	558.9	532.0	546.9	563.4	581.3
1570.6	50°	1385.3	1011.7	681.4	578.3	520.0	511.1	493.1	512.6	529.0	545.4
1494.4	52.5°	1262.7	969.8	624.6	536.5	479.7	476.7	467.7	485.7	500.6	515.6
1428.6	55°	1135.7	902.6	575.3	499.1	445.3	448.3	443.8	458.8	470.7	484.2
1368.8	57.5°	1025.1	817.4	536.5	458.8	415.4	424.4	418.4	425.9	433.4	449.8
1297.1	60°	913.0	715.8	493.1	410.9	385.5	396.0	379.6	378.1	381.1	385.5
1191.0	62.5°	762.1	609.7	439.3	369.1	352.7	357.2	325.8	301.9	301.9	306.3
1043.1	65°	612.7	511.1	379.6	321.3	307.8	304.8	260.0	227.1	224.2	237.6
871.2	67.5°	503.6	424.4	319.8	267.5	258.5	261.5	228.6	195.8	192.8	207.7
709.8	70°	416.9	342.2	255.5	206.2	215.2	228.6	195.8	164.4	159.9	173.3
576.8	72.5°	331.7	267.5	195.8	152.4	177.8	194.3	159.9	130.0	127.0	139.0
445.3	75°	243.6	191.3	133.0	110.6	137.5	152.4	116.6	92.6	88.2	98.6
297.4	77.5°	150.9	107.6	83.7	65.8	94.1	101.6	61.3	53.8	52.3	59.8
180.8	80°	70.2	46.3	40.3	22.4	34.4	40.3	25.4	28.4	29.9	35.9
91.2	82.5°	19.4	7.5	1.5	0.0	0.0	12.0	6.0	12.0	14.9	22.4
7.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.5	13.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
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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 CATALOG NUMBER: GALN-SB9A-950-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3003.6	0°	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6	3003.6
2722.7	2.5°	2785.5	2845.2	2940.9	3039.5	3136.6	3235.3	3330.9	3365.3
2408.9	5°	2526.9	2664.4	2854.2	3057.4	3266.7	3478.9	3673.1	3761.3
2084.6	7.5°	2238.5	2435.8	2721.2	3039.5	3372.8	3706.0	4012.3	4154.3
1763.3	10°	1930.7	2180.3	2506.0	2936.4	3414.6	3874.9	4296.3	4480.1
1480.9	12.5°	1637.8	1899.3	2259.5	2775.0	3381.7	3972.0	4478.6	4695.3
1282.2	15°	1392.7	1624.4	2012.9	2583.7	3275.6	3978.0	4565.2	4802.8
1171.6	17.5°	1208.9	1359.9	1761.8	2371.5	3136.6	3922.7	4595.1	4849.2
1111.8	20°	1117.8	1159.6	1436.1	2099.6	3006.6	3870.4	4625.0	4892.5
1064.0	22.5°	1064.0	1074.4	1174.6	1748.4	2851.2	3853.9	4677.3	4952.3
1020.6	25°	1020.6	1023.6	1050.5	1385.3	2613.6	3843.5	4758.0	5034.5
975.8	27.5°	977.3	977.3	992.2	1116.3	2290.8	3798.6	4862.6	5133.1
931.0	30°	934.0	934.0	944.4	987.8	1912.8	3710.5	4988.1	5261.6
886.2	32.5°	889.1	889.1	898.1	929.5	1527.2	3599.9	5103.2	5391.6
839.8	35°	844.3	841.3	853.3	886.2	1214.9	3459.4	5218.3	5532.1
793.5	37.5°	796.5	795.0	807.0	844.3	1049.0	3296.5	5305.0	5723.4
747.2	40°	745.7	745.7	759.1	799.5	1001.2	3091.8	5442.4	5998.3
699.4	42.5°	699.4	696.4	711.3	760.6	965.4	2896.1	5689.0	6398.8
656.0	45°	654.5	648.5	662.0	723.3	902.6	2827.3	6149.3	6990.6
614.2	47.5°	612.7	597.7	609.7	678.4	845.8	3084.3	6902.4	7811.0
576.8	50°	578.3	549.9	560.4	633.6	802.5	3641.7	7879.7	8900.4
542.4	52.5°	542.4	505.1	511.1	578.3	763.6	4172.2	8939.2	10337.9
508.1	55°	505.1	463.2	466.2	523.0	708.3	4251.4	9973.3	12298.5
469.2	57.5°	463.2	424.4	424.4	472.2	668.0	3685.1	10768.3	14731.3
421.4	60°	416.9	391.5	384.0	431.9	703.8	2600.2	10861.0	16300.4
360.1	62.5°	366.1	352.7	342.2	393.0	730.7	1540.7	10115.3	15920.8
283.9	65°	307.8	304.8	297.4	431.9	615.7	910.1	8683.7	14756.7
242.1	67.5°	258.5	254.0	254.0	452.8	467.7	572.3	6784.4	13154.8
206.2	70°	222.7	206.2	206.2	342.2	283.9	396.0	4737.1	11425.8
170.4	72.5°	186.8	168.9	156.9	273.5	212.2	289.9	2960.3	9785.0
130.0	75°	149.4	136.0	121.0	180.8	158.4	219.7	1720.0	8106.9
82.2	77.5°	107.6	101.6	85.2	133.0	115.1	158.4	1023.6	6255.4
50.8	80°	55.3	56.8	53.8	76.2	77.7	107.6	582.8	4281.3
32.9	82.5°	32.9	25.4	28.4	37.4	44.8	61.3	219.7	2516.5
23.9	85°	20.9	13.4	13.4	17.9	22.4	23.9	67.2	1020.6
12.0	87.5°	10.5	4.5	6.0	9.0	7.5	6.0	3.0	257.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)