

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: P950530

Luminaire Tested: **GALN-SB4D-950-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950530
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-SB4D-950-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA 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: 21652 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

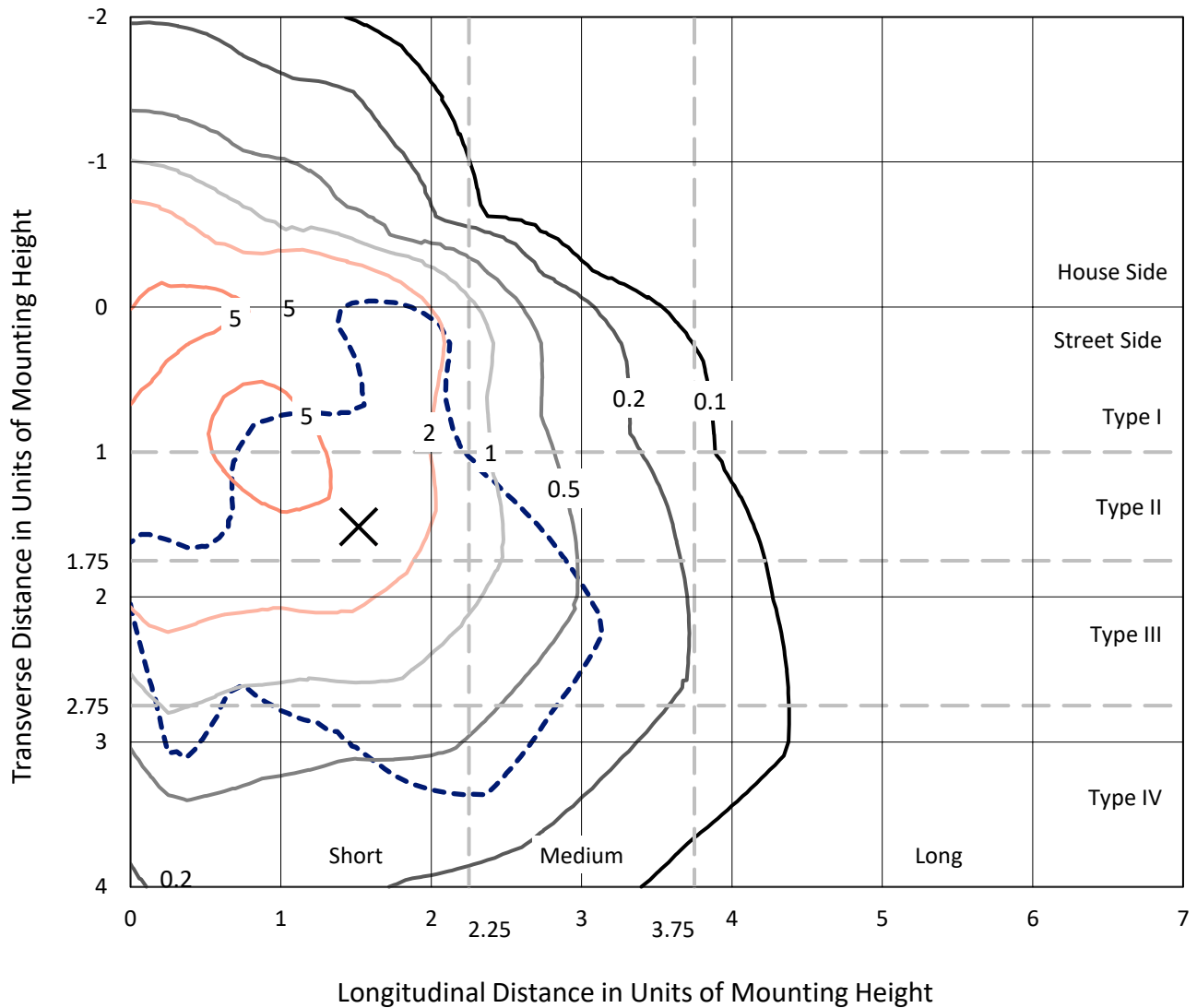
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

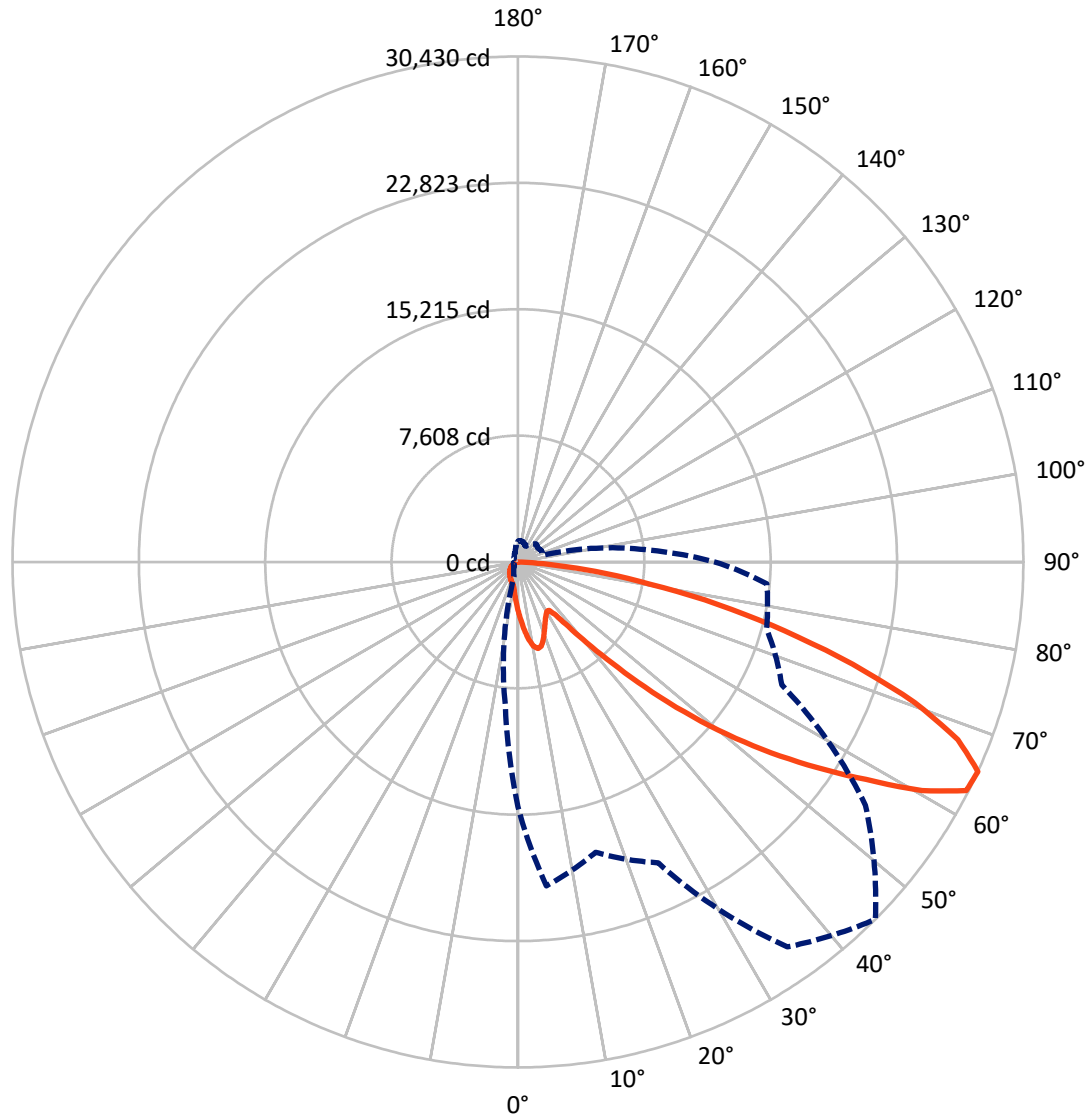
✕ Max cd
 - - - 1/2 Max cd



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	4303.8	0.0	4303.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	17348.2	0.0	17348.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	21652.0	0.0	21652.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.4
10°-20°	884.8	4.1
20°-30°	1303.6	6.0
30°-40°	1674.7	7.7
40°-50°	2708.5	12.5
50°-60°	4749.6	21.9
60°-70°	5943.1	27.4
70°-80°	3472.9	16.0
80°-90°	619.6	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°	21652.0	100.0
0°-180°	21652.0	100.0



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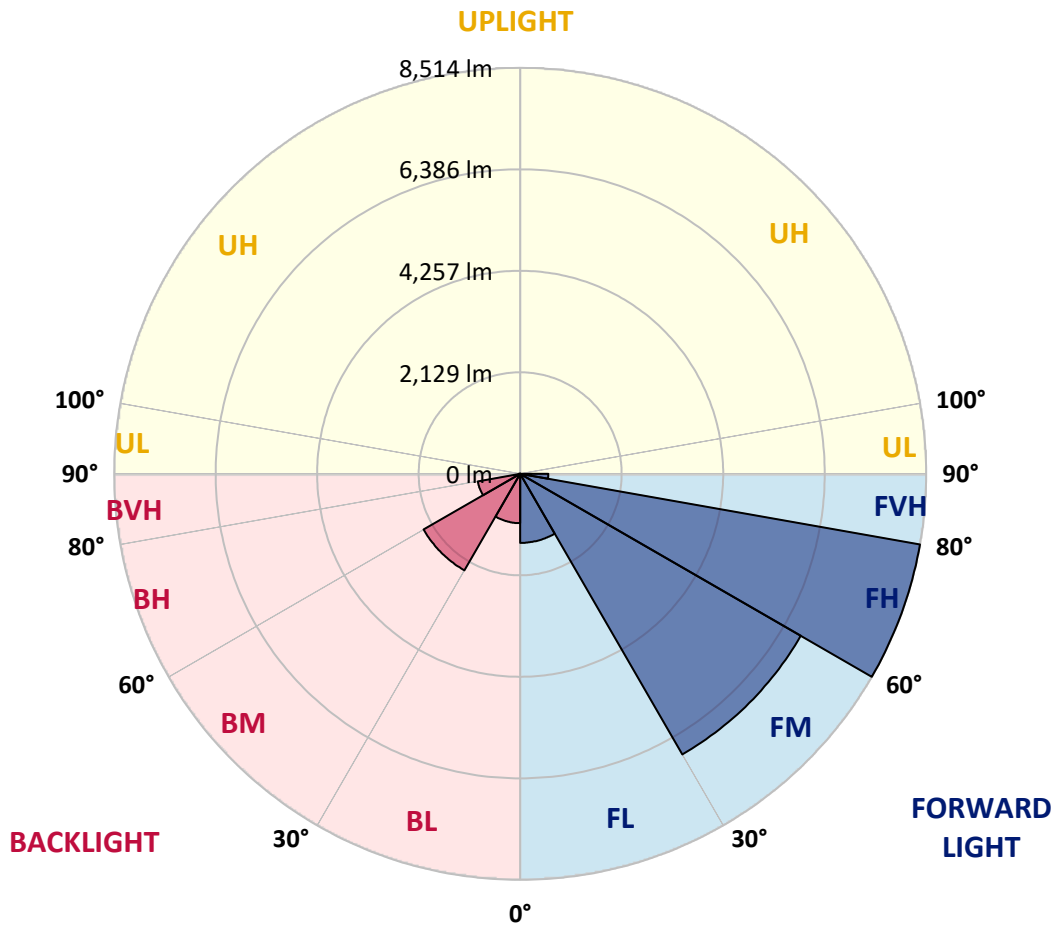
CATALOG NUMBER: GALN-SB4D-950-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.8	6.7			
FM (30°-60°)	6794.7	31.4			
FH (60°-80°)	8514.2	39.3			G4/12000
FVH (80°-90°)	590.6	2.7			G4/750
BL (0°-30°)	1034.8	4.8	B3/2500		
BM (30°-60°)	2338.2	10.8	B2/2500		
BH (60°-80°)	901.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.0	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°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
2.5°	3359.1	3384.4	3441.1	3470.9	3517.2	3520.2	3520.2	3479.9	3478.4	3396.4
5°	3754.3	3814.0	3948.3	4087.0	4116.8	4124.3	4109.3	4028.8	3969.1	3809.5
7.5°	4146.6	4261.5	4465.8	4650.8	4710.5	4710.5	4674.7	4543.4	4421.1	4189.9
10°	4471.8	4616.5	4893.9	5101.3	5169.9	5155.0	5081.9	4916.3	4747.8	4467.3
12.5°	4686.6	4849.2	5153.5	5320.5	5390.6	5351.8	5268.3	5107.2	4929.7	4634.4
15°	4794.0	4964.0	5228.0	5316.1	5296.7	5256.4	5245.9	5168.4	5034.1	4758.2
17.5°	4840.2	4998.3	5181.8	5126.6	4962.5	4931.2	5035.6	5134.1	5101.3	4865.6
20°	4883.5	5016.2	5071.4	4826.8	4540.4	4512.1	4712.0	4992.4	5135.6	4965.5
22.5°	4943.2	5025.2	4911.8	4510.6	4201.8	4136.2	4357.0	4779.1	5146.0	5092.3
25°	5025.2	5047.6	4735.8	4210.8	3900.5	3834.9	4040.7	4541.9	5128.1	5229.5
27.5°	5123.6	5077.4	4567.3	3960.2	3660.4	3599.2	3805.1	4313.7	5077.4	5366.8
30°	5251.9	5116.2	4400.2	3766.3	3488.8	3444.1	3642.5	4116.8	5014.7	5541.3
32.5°	5381.7	5132.6	4245.1	3652.9	3450.1	3466.5	3629.1	4010.9	4946.1	5708.3
35°	5521.9	5184.8	4169.0	3764.8	3773.7	3916.9	3984.1	4109.3	4935.7	5935.1
37.5°	5712.8	5301.1	4260.0	4321.2	4631.4	4928.2	4873.0	4591.1	5056.5	6273.7
40°	5987.3	5505.5	4656.8	5268.3	5905.2	6387.0	6176.7	5466.7	5426.4	6761.4
42.5°	6387.0	5830.7	5360.8	6425.8	7505.7	8299.2	7735.4	6595.8	6073.8	7458.0
45°	6977.7	6357.2	6212.5	7647.4	9479.1	10729.1	9556.7	7799.6	6980.7	8512.5
47.5°	7796.6	7131.3	7010.5	8934.7	11877.6	13494.5	11576.3	8915.3	8012.9	9950.4
50°	8883.9	8173.9	7766.7	10342.7	14507.3	16313.6	13594.4	9992.2	9195.7	11707.5
52.5°	10318.9	9628.3	8648.3	11683.7	17211.5	19073.0	15621.5	10937.9	10663.4	13746.6
55°	12275.8	11816.4	9853.5	12963.5	19914.3	21848.9	17569.5	11829.9	12602.5	16168.9
57.5°	14704.2	15032.3	11591.2	14447.6	22344.1	24709.8	19526.5	13076.8	15120.3	18877.6
60°	16270.3	19308.7	14918.9	16641.7	25105.1	27945.1	22208.4	15448.5	17766.4	19848.7
62.5°	15891.5	20669.1	18904.5	19443.0	27643.8	30297.3	24836.6	17830.5	18264.6	18418.2
65°	14729.5	19571.2	18091.6	19987.4	28286.6	30430.1	25539.1	17523.3	15493.2	15036.8
67.5°	13130.5	18269.1	16160.0	18543.5	27124.7	28574.5	24231.0	15500.7	11973.0	11283.9
70°	11404.7	16828.2	14892.1	16923.7	24909.7	25340.7	22007.0	13633.2	8806.4	7620.6
72.5°	9767.0	15327.6	14024.0	15263.5	21954.8	21062.8	19111.8	11982.0	6412.4	5496.5
75°	8091.9	13114.1	12787.5	13291.6	18069.2	16591.0	15879.5	9920.6	5032.6	3976.6
77.5°	6243.8	10247.3	10999.0	10644.0	12718.8	12323.6	12308.7	7455.0	3676.8	2653.6
80°	4273.4	7141.8	8593.1	7508.7	8254.5	8053.1	9270.3	5001.3	2667.0	1597.5
82.5°	2511.8	4348.0	5981.3	3635.0	4564.3	4685.1	5520.4	2432.8	1569.2	368.4
85°	1018.8	1716.8	2338.8	1423.0	2201.6	1857.0	2095.7	683.2	437.0	8.9
87.5°	256.6	548.9	384.8	159.6	255.1	234.2	185.0	83.5	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°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
3387.4	2.5°	3329.2	3294.9	3209.9	3124.9	3056.3	2963.8	2902.6	2829.6	2759.5	2696.8
3775.2	5°	3681.3	3567.9	3412.8	3271.1	3126.4	2986.2	2847.5	2701.3	2567.0	2485.0
4103.4	7.5°	3967.6	3767.8	3561.9	3381.4	3206.9	3042.9	2859.4	2681.9	2471.6	2359.7
4354.0	10°	4180.9	3918.4	3648.4	3441.1	3265.1	3105.5	2950.4	2771.4	2517.8	2377.6
4506.1	12.5°	4321.2	4009.4	3693.2	3456.0	3259.1	3135.3	3066.7	2996.6	2744.5	2580.5
4618.0	15°	4418.1	4073.6	3724.5	3421.7	3180.1	3089.1	3157.7	3238.3	3077.2	2887.7
4734.3	17.5°	4524.0	4157.1	3737.9	3329.2	3026.4	2987.7	3165.2	3351.6	3344.2	3156.2
4844.7	20°	4635.9	4230.2	3729.0	3180.1	2840.0	2874.3	3101.0	3317.3	3408.3	3306.9
4971.5	22.5°	4750.7	4300.3	3694.7	2986.2	2665.5	2772.9	2999.6	3189.0	3296.4	3265.1
5126.6	25°	4895.4	4398.7	3644.0	2777.4	2520.8	2670.0	2881.8	3035.4	3110.0	3108.5
5293.7	27.5°	5068.4	4530.0	3617.1	2608.8	2417.9	2553.6	2741.6	2878.8	2931.0	2931.0
5501.0	30°	5269.8	4685.1	3587.3	2498.4	2358.2	2432.8	2579.0	2713.2	2765.4	2765.4
5727.7	32.5°	5493.6	4834.3	3515.7	2431.3	2313.5	2315.0	2407.4	2529.7	2592.4	2601.3
6011.1	35°	5762.0	4993.9	3359.1	2377.6	2261.3	2200.1	2244.9	2346.3	2420.9	2440.3
6415.4	37.5°	6114.1	5189.3	3135.3	2298.6	2180.7	2079.3	2089.7	2167.3	2249.3	2279.2
6973.2	40°	6586.9	5419.0	2902.6	2185.2	2067.4	1946.5	1942.1	1998.7	2079.3	2112.1
7728.0	42.5°	7211.9	5694.9	2680.4	2076.3	1930.1	1806.3	1798.9	1843.6	1913.7	1948.0
8724.3	45°	8011.4	6033.5	2489.5	1991.3	1795.9	1673.6	1670.6	1707.9	1769.0	1804.8
9999.7	47.5°	9122.6	6372.1	2359.7	1946.5	1690.0	1564.7	1570.7	1603.5	1658.7	1684.0
11650.9	50°	10570.9	6475.0	2294.1	1946.5	1633.3	1467.7	1497.6	1524.4	1566.2	1581.1
13630.2	52.5°	11961.1	6134.9	2234.4	1958.5	1640.8	1385.7	1449.8	1469.2	1505.0	1511.0
15464.9	55°	12642.8	5274.3	2152.4	1961.4	1687.0	1315.6	1411.1	1446.8	1460.3	1458.8
16529.9	57.5°	12408.6	4264.5	2013.7	1949.5	1718.3	1270.8	1363.3	1431.9	1440.9	1427.5
16327.0	60°	11586.7	3139.8	1907.8	1861.5	1706.4	1257.4	1290.2	1399.1	1412.5	1394.6
14763.8	62.5°	10208.5	2179.2	1825.7	1667.6	1654.2	1252.9	1175.4	1327.5	1360.3	1335.0
11867.1	65°	8036.7	1539.3	1572.1	1461.8	1540.8	1229.1	1056.1	1241.0	1285.8	1247.0
8609.5	67.5°	5438.4	1111.2	1273.8	1324.5	1357.4	1175.4	969.5	1142.6	1202.2	1151.5
5524.9	70°	2937.0	780.1	841.3	1115.7	1153.0	1082.9	892.0	1042.6	1111.2	1056.1
3927.4	72.5°	1734.7	560.8	589.2	896.4	960.6	953.1	805.5	926.3	1009.8	944.2
2710.2	75°	956.1	378.9	420.6	650.3	780.1	735.4	692.1	784.6	869.6	805.5
1698.9	77.5°	428.1	226.7	292.4	426.6	613.0	504.2	535.5	611.6	690.6	623.5
945.7	80°	165.6	126.8	193.9	232.7	446.0	278.9	344.6	450.5	507.1	453.4
205.8	82.5°	20.9	56.7	83.5	91.0	259.5	147.7	199.9	283.4	278.9	241.6
0.0	85°	0.0	10.4	11.9	6.0	111.9	53.7	65.6	92.5	86.5	65.6
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°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
2684.9	2.5°	2611.8	2558.1	2531.2	2508.9	2529.7	2541.7	2541.7	2592.4	2622.2	2634.2
2432.8	5°	2301.5	2201.6	2134.5	2094.2	2107.6	2122.5	2138.9	2203.1	2246.3	2274.7
2258.3	7.5°	2056.9	1904.8	1810.8	1761.6	1769.0	1779.5	1792.9	1855.5	1898.8	1936.1
2225.5	10°	1936.1	1721.3	1597.5	1537.8	1527.4	1521.4	1517.0	1554.2	1587.1	1616.9
2359.7	12.5°	1942.1	1642.2	1491.6	1418.5	1387.2	1351.4	1323.0	1329.0	1349.9	1387.2
2599.9	15°	2018.1	1616.9	1436.4	1345.4	1293.2	1251.4	1217.1	1209.7	1217.1	1223.1
2874.3	17.5°	2121.1	1613.9	1388.7	1275.3	1221.6	1187.3	1156.0	1145.5	1147.0	1154.5
3056.3	20°	2203.1	1605.0	1335.0	1208.2	1160.5	1130.6	1099.3	1088.9	1091.8	1093.3
3074.2	22.5°	2246.3	1591.5	1275.3	1141.1	1100.8	1071.0	1042.6	1041.1	1041.1	1050.1
2977.2	25°	2246.3	1563.2	1221.6	1076.9	1041.1	1014.3	980.0	985.9	988.9	1000.9
2826.6	27.5°	2192.6	1509.5	1178.4	1021.7	984.5	957.6	926.3	933.7	938.2	951.6
2677.4	30°	2124.0	1445.4	1129.1	969.5	926.3	906.9	880.0	883.0	889.0	903.9
2538.7	32.5°	2050.9	1369.3	1088.9	917.3	874.1	859.2	829.3	833.8	839.8	856.2
2401.5	35°	1970.4	1279.8	1041.1	869.6	826.3	814.4	780.1	783.1	792.0	809.9
2253.8	37.5°	1885.4	1206.7	993.4	823.4	778.6	766.7	730.9	733.9	744.3	765.2
2098.7	40°	1801.8	1135.1	942.7	774.1	729.4	718.9	680.2	683.2	695.1	717.5
1942.1	42.5°	1710.9	1079.9	877.1	723.4	675.7	665.3	629.5	633.9	647.4	669.7
1797.4	45°	1602.0	1044.1	804.0	675.7	622.0	611.6	578.7	587.7	602.6	625.0
1673.6	47.5°	1490.1	1029.2	742.8	625.0	566.8	557.9	531.0	545.9	562.3	580.2
1567.7	50°	1382.7	1009.8	680.2	577.2	519.1	510.1	492.2	511.6	528.0	544.4
1491.6	52.5°	1260.4	968.0	623.5	535.5	478.8	475.8	466.9	484.8	499.7	514.6
1426.0	55°	1133.6	900.9	574.3	498.2	444.5	447.5	443.0	457.9	469.9	483.3
1366.3	57.5°	1023.2	815.9	535.5	457.9	414.7	423.6	417.6	425.1	432.6	449.0
1294.7	60°	911.4	714.5	492.2	410.2	384.8	395.3	378.9	377.4	380.4	384.8
1188.8	62.5°	760.7	608.6	438.5	368.4	352.0	356.5	325.2	301.3	301.3	305.8
1041.1	65°	611.6	510.1	378.9	320.7	307.3	304.3	259.5	226.7	223.7	237.2
869.6	67.5°	502.7	423.6	319.2	267.0	258.0	261.0	228.2	195.4	192.4	207.3
708.5	70°	416.2	341.6	255.1	205.8	214.8	228.2	195.4	164.1	159.6	173.0
575.8	72.5°	331.1	267.0	195.4	152.1	177.5	193.9	159.6	129.8	126.8	138.7
444.5	75°	243.1	190.9	132.8	110.4	137.2	152.1	116.3	92.5	88.0	98.4
296.8	77.5°	150.7	107.4	83.5	65.6	94.0	101.4	61.2	53.7	52.2	59.7
180.5	80°	70.1	46.2	40.3	22.4	34.3	40.3	25.4	28.3	29.8	35.8
91.0	82.5°	19.4	7.5	1.5	0.0	0.0	11.9	6.0	11.9	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-SB4D-950-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
2717.7	2.5°	2780.3	2840.0	2935.5	3033.9	3130.9	3229.3	3324.8	3359.1
2404.5	5°	2522.3	2659.5	2848.9	3051.8	3260.6	3472.4	3666.3	3754.3
2080.8	7.5°	2234.4	2431.3	2716.2	3033.9	3366.5	3699.2	4004.9	4146.6
1760.1	10°	1927.1	2176.2	2501.4	2931.0	3408.3	3867.7	4288.3	4471.8
1478.2	12.5°	1634.8	1895.8	2255.3	2769.9	3375.5	3964.7	4470.3	4686.6
1279.8	15°	1390.2	1621.4	2009.2	2579.0	3269.6	3970.6	4556.8	4794.0
1169.4	17.5°	1206.7	1357.4	1758.6	2367.2	3130.9	3915.4	4586.7	4840.2
1109.7	20°	1115.7	1157.5	1433.4	2095.7	3001.1	3863.2	4616.5	4883.5
1062.0	22.5°	1062.0	1072.5	1172.4	1745.2	2846.0	3846.8	4668.7	4943.2
1018.8	25°	1018.8	1021.7	1048.6	1382.7	2608.8	3836.4	4749.2	5025.2
974.0	27.5°	975.5	975.5	990.4	1114.2	2286.6	3791.6	4853.7	5123.6
929.3	30°	932.2	932.2	942.7	985.9	1909.2	3703.6	4978.9	5251.9
884.5	32.5°	887.5	887.5	896.4	927.8	1524.4	3593.3	5093.8	5381.7
838.3	35°	842.8	839.8	851.7	884.5	1212.7	3453.0	5208.7	5521.9
792.0	37.5°	795.0	793.5	805.5	842.8	1047.1	3290.5	5295.2	5712.8
745.8	40°	744.3	744.3	757.7	798.0	999.4	3086.1	5432.4	5987.3
698.1	42.5°	698.1	695.1	710.0	759.2	963.6	2890.7	5678.5	6387.0
654.8	45°	653.3	647.4	660.8	721.9	900.9	2822.1	6137.9	6977.7
613.0	47.5°	611.6	596.6	608.6	677.2	844.2	3078.7	6889.7	7796.6
575.8	50°	577.2	548.9	559.3	632.4	801.0	3635.0	7865.2	8883.9
541.4	52.5°	541.4	504.2	510.1	577.2	762.2	4164.5	8922.7	10318.9
507.1	55°	504.2	462.4	465.4	522.1	707.0	4243.6	9954.9	12275.8
468.4	57.5°	462.4	423.6	423.6	471.3	666.7	3678.3	10748.4	14704.2
420.6	60°	416.2	390.8	383.3	431.1	702.5	2595.4	10840.9	16270.3
359.5	62.5°	365.4	352.0	341.6	392.3	729.4	1537.8	10096.6	15891.5
283.4	65°	307.3	304.3	296.8	431.1	614.5	908.4	8667.7	14729.5
241.6	67.5°	258.0	253.6	253.6	452.0	466.9	571.3	6771.8	13130.5
205.8	70°	222.2	205.8	205.8	341.6	283.4	395.3	4728.4	11404.7
170.0	72.5°	186.4	168.6	156.6	273.0	211.8	289.4	2954.9	9767.0
129.8	75°	149.2	135.7	120.8	180.5	158.1	219.3	1716.8	8091.9
82.0	77.5°	107.4	101.4	85.0	132.8	114.9	158.1	1021.7	6243.8
50.7	80°	55.2	56.7	53.7	76.1	77.6	107.4	581.7	4273.4
32.8	82.5°	32.8	25.4	28.3	37.3	44.7	61.2	219.3	2511.8
23.9	85°	20.9	13.4	13.4	17.9	22.4	23.9	67.1	1018.8
11.9	87.5°	10.4	4.5	6.0	8.9	7.5	6.0	3.0	256.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)