

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: P956244

Luminaire Tested: **GALN-SB8D-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956244
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-SB8D-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA 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: 43686 lumens
Efficiency: N/A
Efficacy: 74.7 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

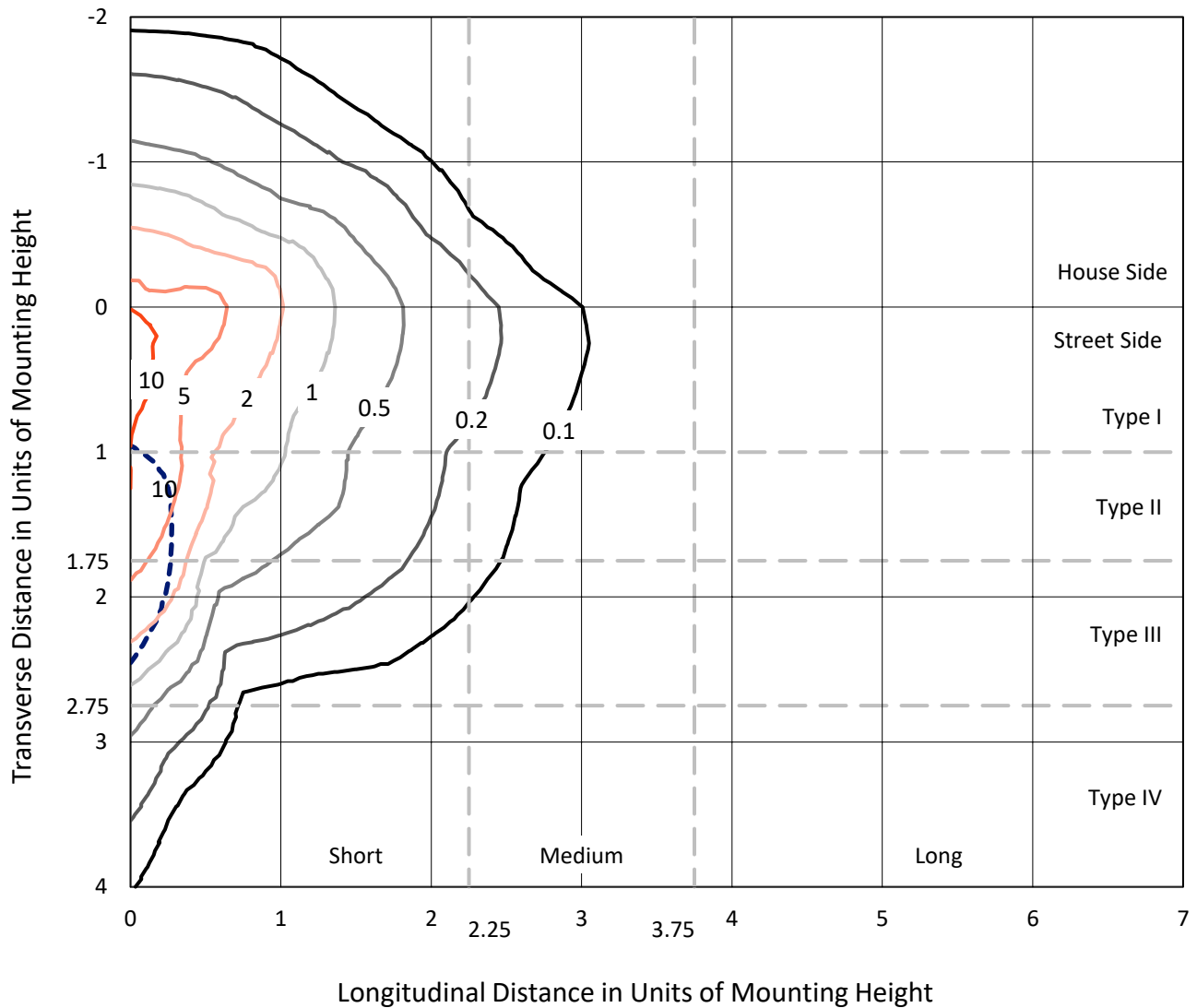
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

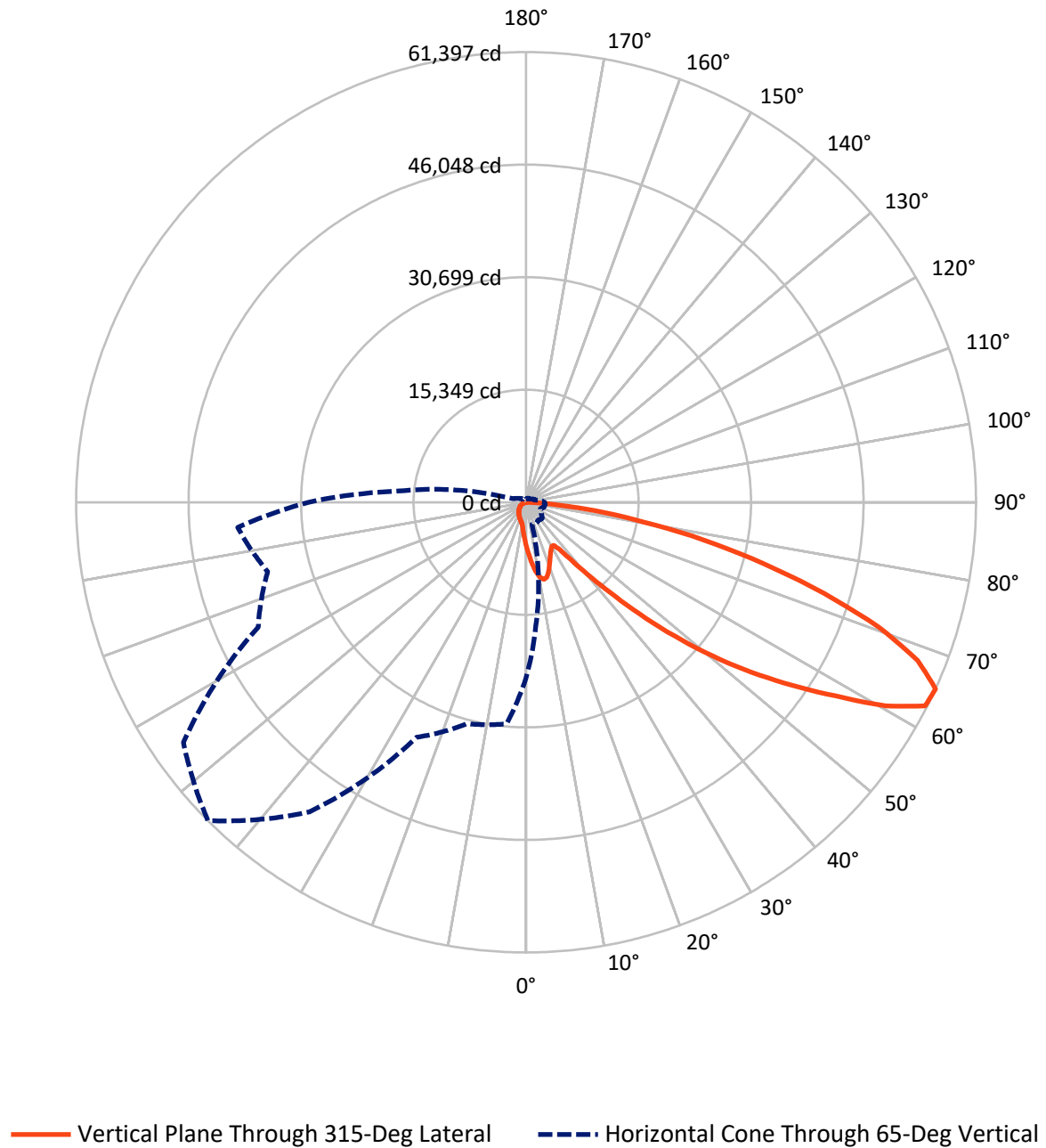
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	6117.9	0.0	6117.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	37568.1	0.0	37568.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	43686.0	0.0	43686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.6	1.4
10°-20°	1785.3	4.1
20°-30°	2630.1	6.0
30°-40°	3379.0	7.7
40°-50°	5464.8	12.5
50°-60°	9583.1	21.9
60°-70°	11991.0	27.4
70°-80°	7007.0	16.0
80°-90°	1250.2	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°	43686.0	100.0
0°-180°	43686.0	100.0

Coefficient of Utilization



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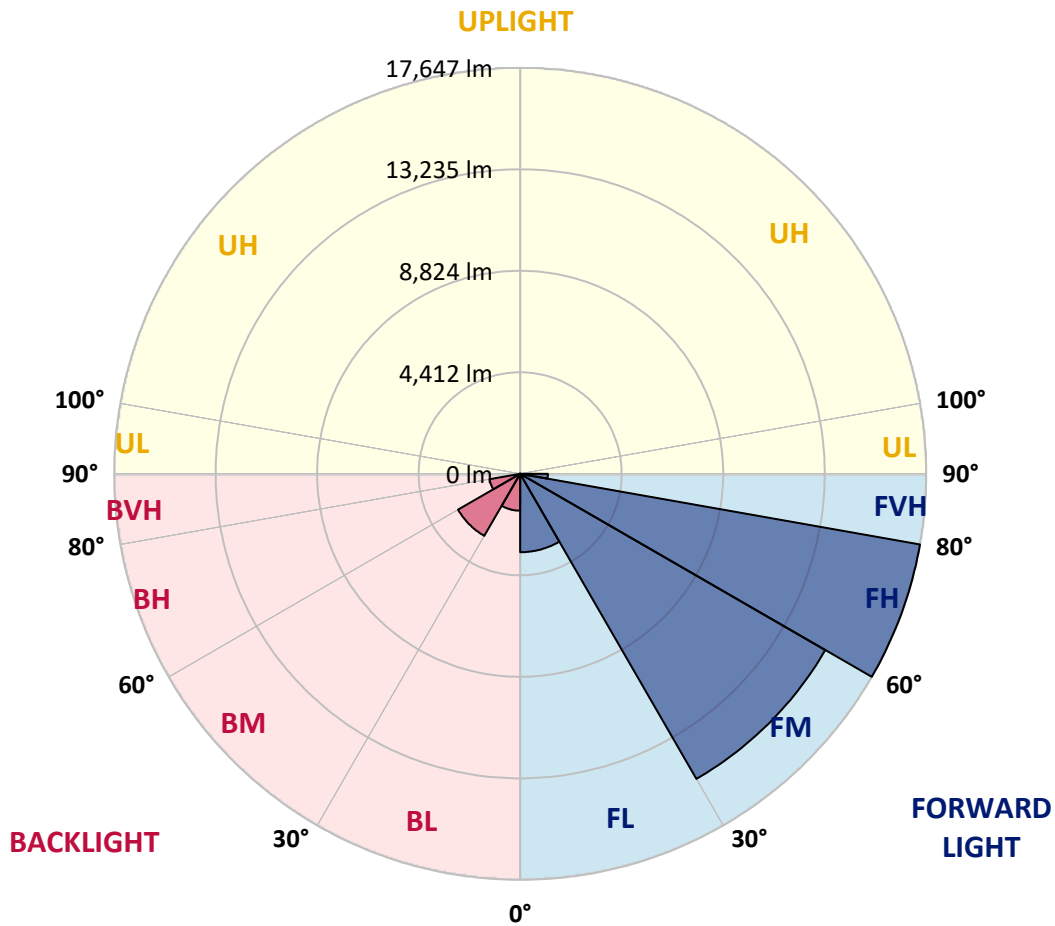
CATALOG NUMBER: GALN-SB8D-950-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3407.4	7.8			
FM (30°-60°)	15311.5	35.0			
FH (60°-80°)	17647.2	40.4			G5
FVH (80°-90°)	1202.1	2.8			G5
BL (0°-30°)	1603.6	3.7	B3/2500		
BM (30°-60°)	3115.4	7.1	B3/5000		
BH (60°-80°)	1350.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	48.0	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1
2.5°	6834.6	6717.2	6648.0	6476.5	6304.9	6166.5	5979.9	5856.5	5709.0	5567.6
5°	7617.1	7427.5	7198.7	6885.8	6599.9	6307.9	6025.0	5745.2	5450.2	5179.4
7.5°	8279.2	8005.3	7602.0	7186.7	6822.6	6470.4	6139.4	5769.2	5411.1	4986.8
10°	8784.8	8435.7	7906.0	7361.3	6942.9	6587.8	6265.8	5952.8	5591.7	5080.1
12.5°	9091.7	8718.5	8089.6	7451.5	6973.0	6575.8	6326.0	6187.6	6046.1	5537.5
15°	9317.4	8914.2	8219.0	7514.7	6903.8	6416.3	6232.7	6371.1	6533.6	6208.6
17.5°	9552.2	9127.8	8387.5	7541.8	6717.2	6106.3	6028.0	6386.2	6762.4	6747.3
20°	9774.9	9353.6	8535.0	7523.8	6416.3	5730.1	5799.3	6256.8	6693.1	6876.7
22.5°	10030.7	9585.3	8676.4	7454.6	6025.0	5378.0	5594.7	6052.1	6434.3	6651.0
25°	10343.7	9877.2	8875.0	7352.2	5603.7	5086.1	5387.0	5814.4	6124.4	6274.8
27.5°	10680.7	10226.3	9139.9	7298.1	5263.6	4878.4	5152.3	5531.5	5808.4	5913.7
30°	11099.1	10632.6	9452.9	7237.9	5040.9	4758.0	4908.5	5203.4	5474.3	5579.6
32.5°	11556.5	11084.0	9753.8	7093.4	4905.5	4667.7	4670.8	4857.3	5104.1	5230.5
35°	12128.3	11625.7	10075.8	6777.4	4797.2	4562.4	4439.0	4529.3	4734.0	4884.4
37.5°	12943.9	12336.0	10470.1	6326.0	4637.7	4399.9	4195.3	4216.3	4372.8	4538.3
40°	14069.5	13290.0	10933.5	5856.5	4408.9	4171.2	3927.4	3918.4	4032.7	4195.3
42.5°	15592.3	14551.0	11490.3	5408.1	4189.2	3894.3	3644.5	3629.5	3719.8	3861.2
45°	17602.6	16164.1	12173.5	5022.9	4017.7	3623.4	3376.7	3370.7	3445.9	3569.3
47.5°	20175.7	18406.2	12856.6	4761.0	3927.4	3409.8	3157.0	3169.0	3235.2	3346.6
50°	23507.3	21328.4	13064.3	4628.6	3927.4	3295.4	2961.4	3021.5	3075.7	3160.0
52.5°	27500.9	24133.3	12378.1	4508.2	3951.5	3310.5	2795.8	2925.2	2964.4	3036.6
55°	31202.6	25508.6	10641.6	4342.7	3957.5	3403.8	2654.4	2847.0	2919.2	2946.3
57.5°	33351.4	25036.1	8604.2	4062.8	3933.4	3467.0	2564.1	2750.7	2889.1	2907.2
60°	32942.1	23377.9	6335.0	3849.2	3755.9	3442.9	2537.0	2603.2	2822.9	2850.0
62.5°	29788.1	20597.1	4396.9	3683.6	3364.6	3337.5	2528.0	2371.5	2678.5	2744.7
65°	23943.7	16215.2	3105.8	3172.0	2949.3	3108.8	2479.8	2130.7	2503.9	2594.2
67.5°	17370.9	10972.7	2242.1	2570.1	2672.4	2738.7	2371.5	1956.2	2305.3	2425.7
70°	11147.2	5925.7	1574.0	1697.4	2251.1	2326.4	2184.9	1799.7	2103.6	2242.1
72.5°	7924.0	3500.1	1131.6	1188.8	1808.7	1938.1	1923.1	1625.1	1868.9	2037.4
75°	5468.3	1929.1	764.4	848.7	1312.1	1574.0	1483.7	1396.4	1583.0	1754.5
77.5°	3427.8	863.7	457.4	589.9	860.7	1236.9	1017.2	1080.4	1233.9	1393.4
80°	1908.0	334.1	255.8	391.2	469.5	899.8	562.8	695.2	908.9	1023.2
82.5°	415.3	42.1	114.4	168.5	183.6	523.7	297.9	403.3	571.8	562.8
85°	0.0	0.0	21.1	24.1	12.0	225.7	108.3	132.4	186.6	174.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
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°
6049.1	0°	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1
5441.2	2.5°	5417.1	5269.7	5161.3	5107.1	5062.0	5104.1	5128.2	5128.2	5230.5	5290.7
5013.8	5°	4908.5	4643.7	4442.0	4306.6	4225.4	4252.4	4282.5	4315.6	4445.0	4532.3
4761.0	7.5°	4556.4	4150.1	3843.1	3653.5	3554.2	3569.3	3590.3	3617.4	3743.8	3831.1
4797.2	10°	4490.2	3906.3	3473.0	3223.2	3102.8	3081.7	3069.7	3060.7	3135.9	3202.1
5206.5	12.5°	4761.0	3918.4	3313.5	3009.5	2862.0	2798.8	2726.6	2669.4	2681.5	2723.6
5826.4	15°	5245.6	4071.9	3262.3	2898.2	2714.6	2609.2	2525.0	2455.8	2440.7	2455.8
6368.1	17.5°	5799.3	4279.5	3256.3	2801.9	2573.1	2464.8	2395.6	2332.4	2311.3	2314.3
6672.1	20°	6166.5	4445.0	3238.2	2693.5	2437.7	2341.4	2281.2	2218.0	2196.9	2203.0
6587.8	22.5°	6202.6	4532.3	3211.1	2573.1	2302.3	2221.0	2160.8	2103.6	2100.6	2100.6
6271.8	25°	6007.0	4532.3	3154.0	2464.8	2172.9	2100.6	2046.5	1977.2	1989.3	1995.3
5913.7	27.5°	5703.0	4424.0	3045.6	2377.5	2061.5	1986.3	1932.1	1868.9	1884.0	1893.0
5579.6	30°	5402.1	4285.5	2916.2	2278.2	1956.2	1868.9	1829.8	1775.6	1781.6	1793.7
5248.6	32.5°	5122.2	4138.1	2762.7	2196.9	1850.8	1763.6	1733.5	1673.3	1682.3	1694.4
4923.6	35°	4845.3	3975.6	2582.2	2100.6	1754.5	1667.3	1643.2	1574.0	1580.0	1598.0
4598.5	37.5°	4547.4	3804.0	2434.7	2004.3	1661.2	1571.0	1546.9	1474.7	1480.7	1501.7
4261.5	40°	4234.4	3635.5	2290.2	1902.0	1561.9	1471.6	1450.6	1372.3	1378.4	1402.4
3930.4	42.5°	3918.4	3451.9	2178.9	1769.6	1459.6	1363.3	1342.2	1270.0	1279.0	1306.1
3641.5	45°	3626.5	3232.2	2106.7	1622.1	1363.3	1255.0	1233.9	1167.7	1185.7	1215.8
3397.7	47.5°	3376.7	3006.5	2076.6	1498.7	1261.0	1143.6	1125.6	1071.4	1101.5	1134.6
3190.1	50°	3163.0	2789.8	2037.4	1372.3	1164.7	1047.3	1029.3	993.1	1032.3	1065.4
3048.6	52.5°	3009.5	2543.0	1953.2	1258.0	1080.4	966.1	960.0	942.0	978.1	1008.2
2943.3	55°	2877.1	2287.2	1817.7	1158.7	1005.2	896.8	902.9	893.8	923.9	948.0
2880.1	57.5°	2756.7	2064.5	1646.2	1080.4	923.9	836.6	854.7	842.7	857.7	872.8
2813.9	60°	2612.3	1838.8	1441.6	993.1	827.6	776.5	797.5	764.4	761.4	767.4
2693.5	62.5°	2398.6	1534.8	1227.9	884.8	743.3	710.2	719.3	656.1	607.9	607.9
2515.9	65°	2100.6	1233.9	1029.3	764.4	647.0	620.0	613.9	523.7	457.4	451.4
2323.3	67.5°	1754.5	1014.2	854.7	644.0	538.7	520.6	526.7	460.5	394.2	388.2
2130.7	70°	1429.5	839.7	689.2	514.6	415.3	433.4	460.5	394.2	331.0	322.0
1905.0	72.5°	1161.7	668.1	538.7	394.2	307.0	358.1	391.2	322.0	261.8	255.8
1625.1	75°	896.8	490.5	385.2	267.8	222.7	276.9	307.0	234.7	186.6	177.6
1258.0	77.5°	598.9	304.0	216.7	168.5	132.4	189.6	204.6	123.4	108.3	105.3
914.9	80°	364.2	141.4	93.3	81.3	45.1	69.2	81.3	51.2	57.2	60.2
487.5	82.5°	183.6	39.1	15.0	3.0	0.0	0.0	24.1	12.0	24.1	30.1
132.4	85°	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	15.0
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°
6049.1	0°	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1
5314.8	2.5°	5483.3	5609.7	5730.1	5922.7	6121.3	6317.0	6515.6	6708.2	6777.4	6828.6
4589.5	5°	4851.3	5089.1	5366.0	5748.2	6157.5	6578.8	7006.1	7397.4	7574.9	7695.3
3906.3	7.5°	4198.3	4508.2	4905.5	5480.3	6121.3	6792.5	7463.6	8080.5	8366.4	8598.2
3262.3	10°	3551.2	3888.3	4390.9	5046.9	5913.7	6876.7	7803.7	8652.3	9022.5	9314.4
2798.8	12.5°	2982.4	3298.4	3825.1	4550.4	5588.7	6810.5	7999.3	9019.5	9455.9	9783.9
2467.8	15°	2582.2	2804.9	3271.3	4053.8	5203.4	6596.8	8011.3	9194.1	9672.6	10015.6
2329.4	17.5°	2359.5	2434.7	2738.7	3548.2	4776.1	6317.0	7900.0	9254.2	9765.9	10084.9
2206.0	20°	2239.1	2251.1	2335.4	2892.1	4228.4	6055.1	7794.6	9314.4	9853.1	10121.0
2118.7	22.5°	2142.8	2142.8	2163.8	2365.5	3521.1	5742.1	7761.5	9419.8	9973.5	10139.0
2019.4	25°	2055.5	2055.5	2061.5	2115.7	2789.8	5263.6	7740.5	9582.3	10139.0	10184.2
1920.1	27.5°	1965.2	1968.2	1968.2	1998.3	2248.1	4613.6	7650.2	9792.9	10337.7	10244.4
1823.8	30°	1874.9	1880.9	1880.9	1902.0	1989.3	3852.2	7472.6	10045.7	10596.5	10322.6
1727.5	32.5°	1784.6	1790.7	1790.7	1808.7	1871.9	3075.7	7249.9	10277.5	10858.3	10355.7
1634.2	35°	1691.3	1700.4	1694.4	1718.4	1784.6	2446.7	6967.0	10509.2	11141.2	10461.1
1543.9	37.5°	1598.0	1604.1	1601.1	1625.1	1700.4	2112.7	6639.0	10683.8	11526.4	10695.8
1447.6	40°	1504.8	1501.7	1501.7	1528.8	1610.1	2016.4	6226.7	10960.6	12080.2	11108.1
1351.3	42.5°	1408.5	1408.5	1402.4	1432.5	1531.8	1944.1	5832.4	11457.2	12886.7	11764.2
1261.0	45°	1321.2	1318.2	1306.1	1333.2	1456.6	1817.7	5694.0	12384.1	14078.5	12826.5
1170.7	47.5°	1236.9	1233.9	1203.8	1227.9	1366.3	1703.4	6211.6	13900.9	15730.7	14388.5
1098.5	50°	1161.7	1164.7	1107.5	1128.6	1276.0	1616.1	7334.2	15869.1	17924.6	16492.1
1038.3	52.5°	1092.5	1092.5	1017.2	1029.3	1164.7	1537.9	8402.5	18002.9	20819.8	19426.4
975.1	55°	1023.2	1017.2	932.9	939.0	1053.3	1426.5	8562.1	20085.5	24768.3	23841.3
905.9	57.5°	945.0	932.9	854.7	854.7	951.0	1345.3	7421.4	21686.5	29667.7	30329.8
776.5	60°	848.7	839.7	788.5	773.4	869.7	1417.5	5236.5	21873.1	32827.7	38958.1
616.9	62.5°	725.3	737.3	710.2	689.2	791.5	1471.6	3102.8	20371.4	32063.3	41702.8
478.5	65°	571.8	620.0	613.9	598.9	869.7	1239.9	1832.8	17488.3	29718.9	39487.8
418.3	67.5°	487.5	520.6	511.6	511.6	911.9	942.0	1152.6	13663.2	26492.7	36860.5
349.1	70°	415.3	448.4	415.3	415.3	689.2	571.8	797.5	9540.1	23010.7	33953.3
279.9	72.5°	343.1	376.2	340.1	316.0	550.7	427.4	583.8	5961.8	19706.3	30925.7
198.6	75°	261.8	301.0	273.9	243.8	364.2	319.0	442.4	3463.9	16326.6	26459.6
120.4	77.5°	165.5	216.7	204.6	171.5	267.8	231.7	319.0	2061.5	12597.8	20675.3
72.2	80°	102.3	111.4	114.4	108.3	153.5	156.5	216.7	1173.7	8622.2	14409.5
45.1	82.5°	66.2	66.2	51.2	57.2	75.2	90.3	123.4	442.4	5068.0	8772.7
27.1	85°	48.2	42.1	27.1	27.1	36.1	45.1	48.2	135.4	2055.5	3463.9
12.0	87.5°	24.1	21.1	9.0	12.0	18.1	15.0	12.0	6.0	517.6	1107.5
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-SB8D-950-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
6049.1	0°	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1
6942.9	2.5°	7003.1	7096.4	7102.4	7102.4	7021.2	7018.2	6852.7	6834.6
7966.2	5°	8246.1	8306.2	8321.3	8291.2	8128.7	8008.3	7686.3	7617.1
9010.5	7.5°	9383.6	9504.0	9504.0	9431.8	9167.0	8920.2	8453.7	8279.2
9874.2	10°	10292.5	10431.0	10400.9	10253.4	9919.3	9579.3	9013.5	8784.8
10397.9	12.5°	10734.9	10876.4	10798.1	10629.6	10304.6	9946.4	9350.5	9091.7
10548.3	15°	10725.9	10686.8	10605.5	10584.4	10427.9	10157.1	9600.3	9317.4
10455.0	17.5°	10343.7	10012.6	9949.4	10160.1	10358.7	10292.5	9817.0	9552.2
10232.3	20°	9738.8	9160.9	9103.8	9507.0	10072.8	10361.7	10018.7	9774.9
9910.3	22.5°	9100.8	8477.8	8345.4	8790.8	9642.5	10382.8	10274.5	10030.7
9555.2	25°	8495.8	7869.9	7737.4	8152.8	9164.0	10346.7	10551.3	10343.7
9215.1	27.5°	7990.2	7385.3	7261.9	7677.3	8703.5	10244.4	10828.2	10680.7
8878.1	30°	7599.0	7039.2	6949.0	7349.2	8306.2	10118.0	11180.3	11099.1
8565.1	32.5°	7370.3	6961.0	6994.1	7322.1	8092.6	9979.5	11517.4	11556.5
8411.6	35°	7596.0	7614.1	7903.0	8038.4	8291.2	9958.5	11974.8	12128.3
8595.2	37.5°	8718.5	9344.5	9943.4	9832.1	9263.3	10202.2	12658.0	12943.9
9395.7	40°	10629.6	11914.6	12886.7	12462.4	11029.9	10948.6	13642.1	14069.5
10816.2	42.5°	12965.0	15143.8	16744.9	15607.3	13308.0	12254.7	15047.5	15592.3
12534.6	45°	15429.8	19125.4	21647.4	19281.9	15736.7	14084.5	17175.3	17602.6
14144.7	47.5°	18027.0	23964.7	27227.0	23356.8	17987.8	16167.1	20076.4	20175.7
15670.5	50°	20867.9	29270.5	32915.0	27428.7	20160.7	18553.6	23621.6	23507.3
17449.1	52.5°	23573.5	34726.7	38482.6	31518.6	22068.7	21515.0	27735.6	27500.9
19880.8	55°	26155.6	40180.0	44083.3	35449.0	23868.4	25427.3	32623.1	31202.6
23386.9	57.5°	29150.1	45082.4	49855.5	39397.5	26384.4	30507.4	38088.3	33351.4
30101.1	60°	33577.1	50653.0	56383.2	44808.6	31169.5	35846.3	40047.5	32942.1
38142.5	62.5°	39229.0	55775.2	61129.1	50111.3	35975.7	36851.4	37161.4	29788.1
36502.3	65°	40327.4	57072.3	61397.0	51528.8	35355.7	31259.8	30338.9	23943.7
32605.0	67.5°	37414.2	54727.9	57653.2	48889.5	31274.8	24157.3	22766.9	17370.9
30046.9	70°	34145.9	50258.8	51128.5	44402.3	27506.9	17768.1	15375.6	11147.2
28295.4	72.5°	30796.3	44297.0	42497.3	38560.8	24175.4	12937.9	11090.0	7924.0
25800.5	75°	26817.7	36457.2	33474.8	32039.2	20016.2	10154.1	8023.4	5468.3
22192.1	77.5°	21475.9	25662.1	24864.6	24834.5	15041.5	7418.4	5353.9	3427.8
17337.8	80°	15149.9	16654.6	16248.3	18704.1	10090.9	5381.0	3223.2	1908.0
12068.1	82.5°	7334.2	9209.1	9452.9	11138.2	4908.5	3166.0	743.3	415.3
4718.9	85°	2871.1	4442.0	3746.8	4228.4	1378.4	881.8	18.1	0.0
776.5	87.5°	322.0	514.6	472.5	373.2	168.5	36.1	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)