

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: P951076

Luminaire Tested: **GALN-SB5B-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951076
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-SB5B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA 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: 19507 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

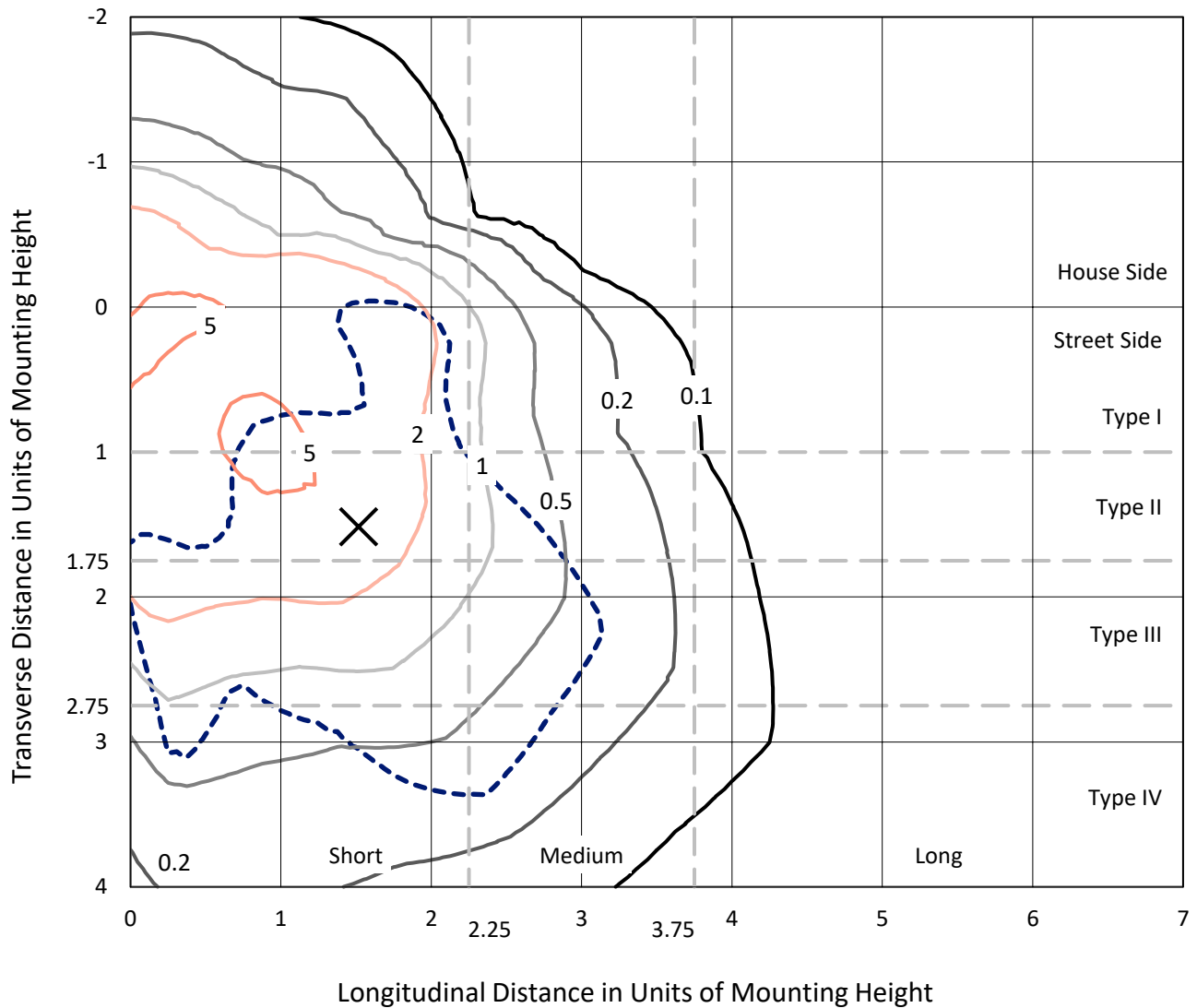
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

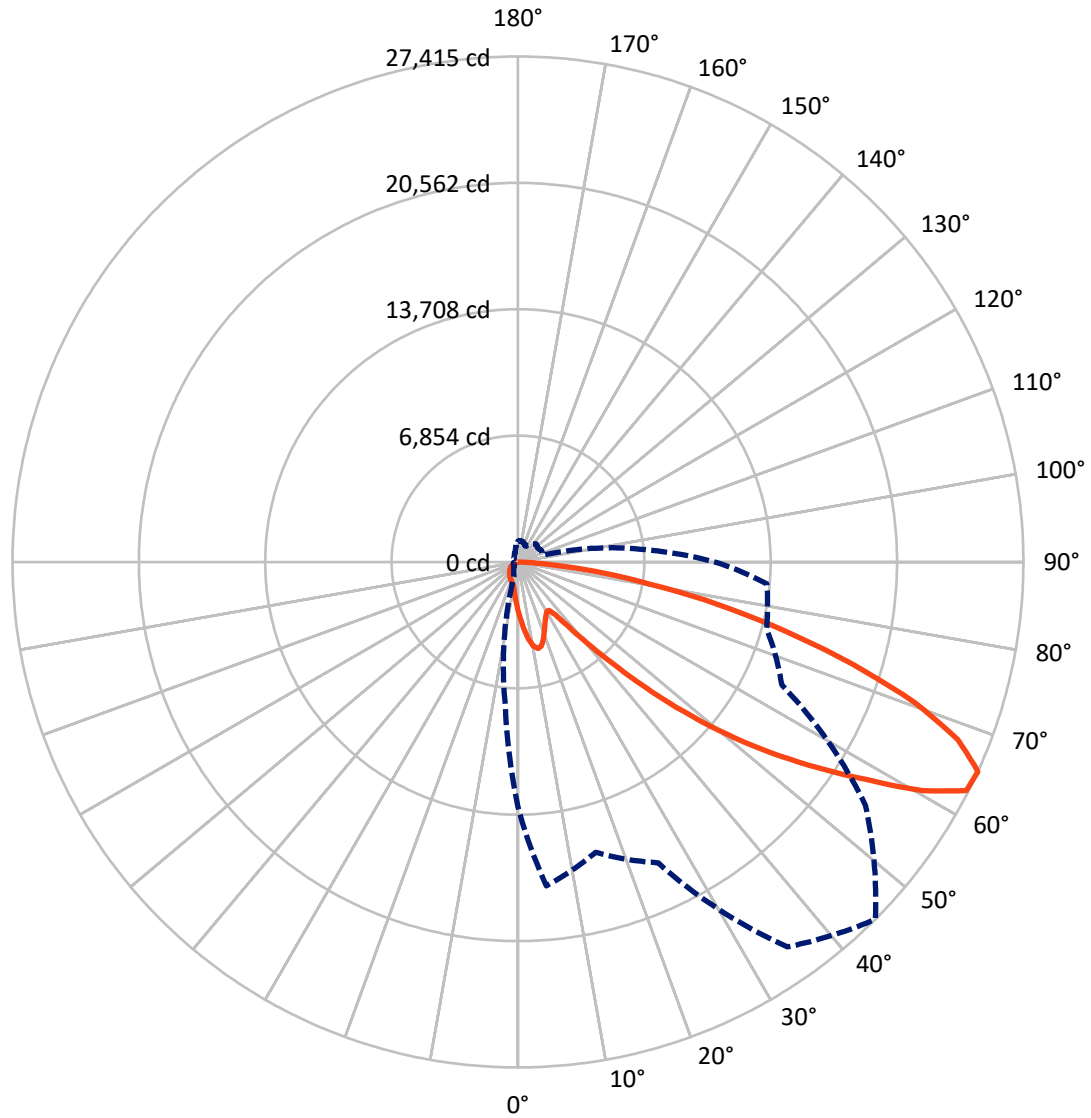
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3877.4	0.0	3877.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	15629.6	0.0	15629.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	19507.0	0.0	19507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.4
10°-20°	797.2	4.1
20°-30°	1174.4	6.0
30°-40°	1508.8	7.7
40°-50°	2440.2	12.5
50°-60°	4279.1	21.9
60°-70°	5354.3	27.4
70°-80°	3128.8	16.0
80°-90°	558.2	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°	19507.0	100.0
0°-180°	19507.0	100.0

Coefficient of Utilization



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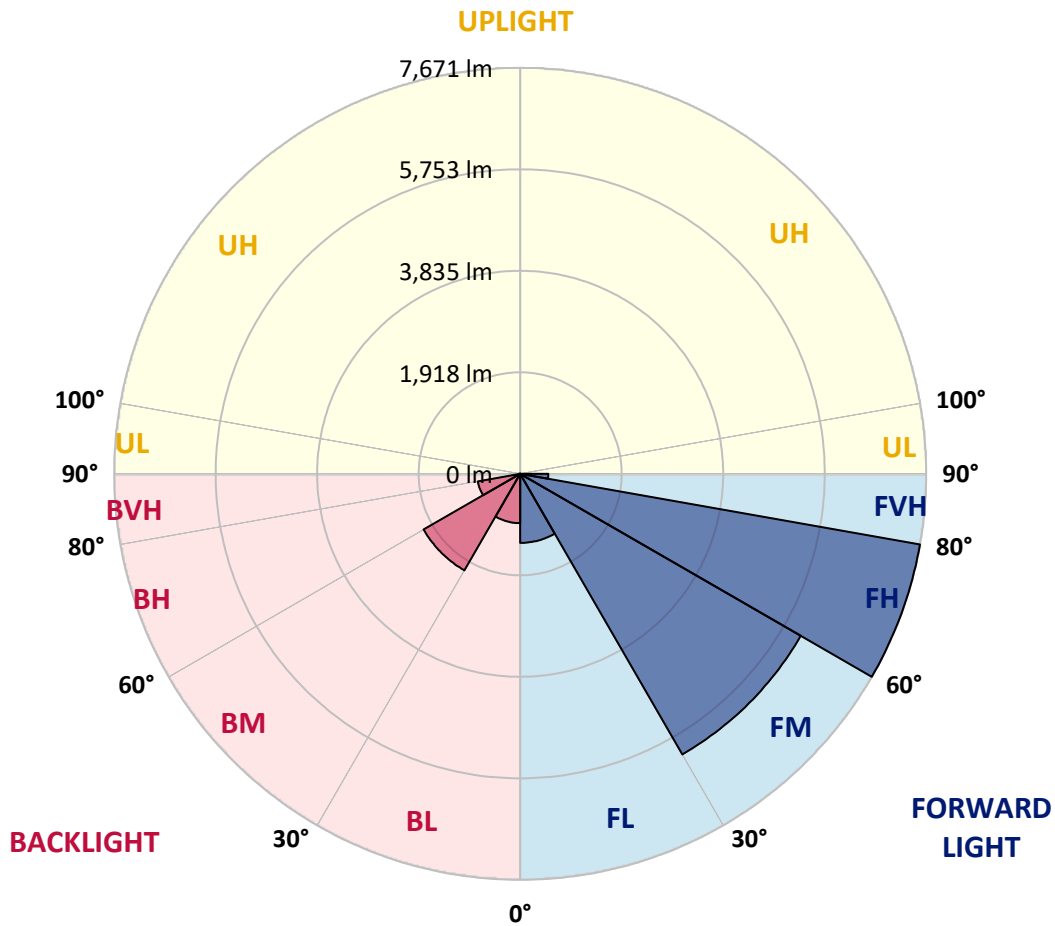
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.2	6.7			
FM (30°-60°)	6121.5	31.4			
FH (60°-80°)	7670.8	39.3			G4/12000
FVH (80°-90°)	532.1	2.7			G4/750
BL (0°-30°)	932.3	4.8	B2/1000		
BM (30°-60°)	2106.6	10.8	B2/2500		
BH (60°-80°)	812.4	4.2	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
2.5°	3026.3	3049.1	3100.2	3127.1	3168.7	3171.4	3171.4	3135.2	3133.8	3059.9
5°	3382.4	3436.2	3557.1	3682.1	3709.0	3715.7	3702.2	3629.7	3575.9	3432.1
7.5°	3735.8	3839.3	4023.4	4190.1	4243.8	4243.8	4211.6	4093.3	3983.1	3774.8
10°	4028.8	4159.1	4409.1	4595.9	4657.7	4644.3	4578.4	4429.3	4277.4	4024.8
12.5°	4222.3	4368.8	4642.9	4793.4	4856.6	4821.7	4746.4	4601.3	4441.4	4175.3
15°	4319.1	4472.3	4710.1	4789.4	4771.9	4735.7	4726.2	4656.4	4535.4	4286.8
17.5°	4360.7	4503.2	4668.5	4618.7	4470.9	4442.7	4536.8	4625.5	4595.9	4383.6
20°	4399.7	4519.3	4569.0	4348.6	4090.6	4065.1	4245.2	4497.8	4626.8	4473.6
22.5°	4453.4	4527.4	4425.2	4063.7	3785.6	3726.4	3925.3	4305.6	4636.2	4587.8
25°	4527.4	4547.5	4266.7	3793.6	3514.1	3455.0	3640.4	4092.0	4620.1	4711.5
27.5°	4616.1	4574.4	4114.8	3567.9	3297.8	3242.7	3428.1	3886.4	4574.4	4835.1
30°	4731.6	4609.3	3964.3	3393.2	3143.2	3102.9	3281.6	3709.0	4518.0	4992.3
32.5°	4848.5	4624.1	3824.5	3291.0	3108.3	3123.1	3269.5	3613.6	4456.1	5142.8
35°	4974.9	4671.1	3756.0	3391.8	3399.9	3528.9	3589.4	3702.2	4446.7	5347.1
37.5°	5146.9	4776.0	3838.0	3893.1	4172.6	4440.0	4390.3	4136.3	4555.6	5652.1
40°	5394.1	4960.1	4195.4	4746.4	5320.2	5754.3	5564.8	4925.1	4888.8	6091.6
42.5°	5754.3	5253.0	4829.7	5789.2	6762.1	7477.1	6969.1	5942.4	5472.1	6719.1
45°	6286.4	5727.4	5597.0	6889.8	8540.0	9666.2	8609.9	7026.9	6289.1	7669.2
47.5°	7024.2	6424.8	6316.0	8049.5	10700.9	12157.6	10429.5	8032.1	7219.0	8964.7
50°	8003.8	7364.2	6997.3	9318.1	13070.1	14697.5	12247.7	9002.3	8284.7	10547.7
52.5°	9296.6	8674.4	7791.5	10526.2	15506.4	17183.5	14073.9	9854.3	9607.0	12384.7
55°	11059.7	10645.8	8877.3	11679.2	17941.5	19684.4	15829.0	10657.9	11354.0	14567.1
57.5°	13247.5	13543.1	10442.9	13016.3	20130.6	22261.9	17592.1	11781.3	13622.4	17007.5
60°	14658.5	17395.9	13441.0	14993.1	22618.0	25176.6	20008.3	13918.0	16006.3	17882.3
62.5°	14317.1	18621.4	17031.7	17516.8	24905.2	27295.8	22376.1	16064.1	16455.2	16593.6
65°	13270.3	17632.4	16299.3	18007.3	25484.4	27415.4	23009.0	15787.3	13958.3	13547.1
67.5°	11829.7	16459.2	14559.0	16706.5	24437.5	25743.7	21830.5	13965.1	10786.9	10166.1
70°	10274.9	15161.1	13416.8	15247.1	22441.9	22830.3	19826.8	12282.6	7934.0	6865.6
72.5°	8799.4	13809.2	12634.7	13751.4	19779.8	18976.2	17218.5	10795.0	5777.1	4952.0
75°	7290.3	11814.9	11520.6	11974.9	16279.1	14947.4	14306.4	8937.8	4534.1	3582.6
77.5°	5625.3	9232.1	9909.4	9589.6	11458.8	11102.7	11089.3	6716.5	3312.5	2390.7
80°	3850.1	6434.3	7741.8	6764.8	7436.7	7255.3	8351.9	4505.9	2402.8	1439.2
82.5°	2263.0	3917.3	5388.8	3274.9	4112.1	4221.0	4973.5	2191.8	1413.7	331.9
85°	917.8	1546.7	2107.1	1282.0	1983.5	1673.1	1888.1	615.5	393.7	8.1
87.5°	231.1	494.5	346.7	143.8	229.8	211.0	166.6	75.3	16.1	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°
2701.1	0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
3051.8	2.5°	2999.4	2968.5	2891.9	2815.3	2753.5	2670.2	2615.1	2549.2	2486.1	2429.6
3401.2	5°	3316.6	3214.4	3074.7	2947.0	2816.7	2690.3	2565.4	2433.7	2312.7	2238.8
3696.9	7.5°	3574.6	3394.5	3209.1	3046.5	2889.2	2741.4	2576.1	2416.2	2226.7	2125.9
3922.6	10°	3766.8	3530.2	3287.0	3100.2	2941.6	2797.9	2658.1	2496.8	2268.4	2142.1
4059.7	12.5°	3893.1	3612.2	3327.3	3113.7	2936.3	2824.7	2762.9	2699.8	2472.6	2324.8
4160.5	15°	3980.4	3670.0	3355.5	3082.7	2865.0	2783.1	2844.9	2917.5	2772.3	2601.7
4265.3	17.5°	4075.8	3745.3	3367.6	2999.4	2726.6	2691.7	2851.6	3019.6	3012.9	2843.5
4364.8	20°	4176.6	3811.1	3359.6	2865.0	2558.6	2589.6	2793.8	2988.7	3070.6	2979.3
4479.0	22.5°	4280.1	3874.3	3328.7	2690.3	2401.4	2498.2	2702.4	2873.1	2969.9	2941.6
4618.7	25°	4410.4	3963.0	3283.0	2502.2	2271.1	2405.5	2596.3	2734.7	2801.9	2800.5
4769.2	27.5°	4566.3	4081.2	3258.8	2350.4	2178.3	2300.6	2470.0	2593.6	2640.6	2640.6
4956.0	30°	4747.7	4221.0	3231.9	2250.9	2124.6	2191.8	2323.5	2444.4	2491.5	2491.5
5160.3	32.5°	4949.3	4355.3	3167.4	2190.4	2084.3	2085.6	2168.9	2279.1	2335.6	2343.6
5415.6	35°	5191.2	4499.1	3026.3	2142.1	2037.2	1982.1	2022.5	2113.8	2181.0	2198.5
5779.8	37.5°	5508.4	4675.2	2824.7	2070.8	1964.7	1873.3	1882.7	1952.6	2026.5	2053.4
6282.4	40°	5934.3	4882.1	2615.1	1968.7	1862.5	1753.7	1749.7	1800.7	1873.3	1902.9
6962.4	42.5°	6497.4	5130.7	2414.9	1870.6	1738.9	1627.4	1620.7	1661.0	1724.1	1755.0
7860.1	45°	7217.7	5435.8	2242.8	1794.0	1618.0	1507.8	1505.1	1538.7	1593.8	1626.0
9009.0	47.5°	8218.9	5740.8	2125.9	1753.7	1522.6	1409.7	1415.1	1444.6	1494.3	1517.2
10496.6	50°	9523.7	5833.6	2066.8	1753.7	1471.5	1322.3	1349.2	1373.4	1411.0	1424.5
12279.9	52.5°	10776.2	5527.2	2013.1	1764.4	1478.2	1248.4	1306.2	1323.7	1355.9	1361.3
13932.8	55°	11390.3	4751.8	1939.1	1767.1	1519.9	1185.3	1271.3	1303.5	1315.6	1314.3
14892.3	57.5°	11179.3	3842.0	1814.2	1756.4	1548.1	1144.9	1228.3	1290.1	1298.1	1286.0
14709.5	60°	10438.9	2828.8	1718.8	1677.1	1537.3	1132.8	1162.4	1260.5	1272.6	1256.5
13301.2	62.5°	9197.2	1963.3	1644.8	1502.4	1490.3	1128.8	1058.9	1196.0	1225.6	1202.7
10691.5	65°	7240.5	1386.8	1416.4	1317.0	1388.2	1107.3	951.4	1118.1	1158.4	1123.4
7756.6	67.5°	4899.6	1001.2	1147.6	1193.3	1222.9	1058.9	873.5	1029.4	1083.1	1037.4
4977.5	70°	2646.0	702.8	757.9	1005.2	1038.8	975.6	803.6	939.3	1001.2	951.4
3538.3	72.5°	1562.9	505.3	530.8	807.6	865.4	858.7	725.7	834.5	909.8	850.6
2441.7	75°	861.4	341.3	379.0	585.9	702.8	662.5	623.5	706.9	783.5	725.7
1530.6	77.5°	385.7	204.3	263.4	384.3	552.3	454.2	482.4	551.0	622.2	561.7
852.0	80°	149.2	114.2	174.7	209.6	401.8	251.3	310.4	405.8	456.9	408.5
185.4	82.5°	18.8	51.1	75.3	82.0	233.8	133.0	180.1	255.3	251.3	217.7
0.0	85°	0.0	9.4	10.8	5.4	100.8	48.4	59.1	83.3	77.9	59.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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°
2701.1	0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
2418.9	2.5°	2353.0	2304.7	2280.5	2260.3	2279.1	2289.9	2289.9	2335.6	2362.5	2373.2
2191.8	5°	2073.5	1983.5	1923.0	1886.7	1898.8	1912.3	1927.1	1984.8	2023.8	2049.3
2034.6	7.5°	1853.1	1716.1	1631.4	1587.1	1593.8	1603.2	1615.3	1671.7	1710.7	1744.3
2005.0	10°	1744.3	1550.8	1439.2	1385.5	1376.1	1370.7	1366.7	1400.3	1429.8	1456.7
2125.9	12.5°	1749.7	1479.6	1343.8	1278.0	1249.8	1217.5	1192.0	1197.4	1216.2	1249.8
2342.3	15°	1818.2	1456.7	1294.1	1212.1	1165.1	1127.5	1096.6	1089.8	1096.6	1101.9
2589.6	17.5°	1910.9	1454.0	1251.1	1149.0	1100.6	1069.7	1041.5	1032.1	1033.4	1040.1
2753.5	20°	1984.8	1446.0	1202.7	1088.5	1045.5	1018.6	990.4	981.0	983.7	985.0
2769.6	22.5°	2023.8	1433.9	1149.0	1028.0	991.7	964.9	939.3	938.0	938.0	946.1
2682.3	25°	2023.8	1408.3	1100.6	970.2	938.0	913.8	882.9	888.3	891.0	901.7
2546.6	27.5°	1975.4	1360.0	1061.6	920.5	886.9	862.7	834.5	841.2	845.3	857.4
2412.2	30°	1913.6	1302.2	1017.3	873.5	834.5	817.0	792.9	795.5	800.9	814.4
2287.2	32.5°	1847.8	1233.6	981.0	826.5	787.5	774.0	747.2	751.2	756.6	771.4
2163.6	35°	1775.2	1153.0	938.0	783.5	744.5	733.7	702.8	705.5	713.6	729.7
2030.5	37.5°	1698.6	1087.2	895.0	741.8	701.5	690.7	658.5	661.2	670.6	689.4
1890.8	40°	1623.3	1022.7	849.3	697.4	657.1	647.7	612.8	615.5	626.2	646.4
1749.7	42.5°	1541.4	972.9	790.2	651.8	608.8	599.3	567.1	571.1	583.2	603.4
1619.3	45°	1443.3	940.7	724.3	608.8	560.4	551.0	521.4	529.5	542.9	563.1
1507.8	47.5°	1342.5	927.2	669.2	563.1	510.7	502.6	478.4	491.8	506.6	522.7
1412.4	50°	1245.7	909.8	612.8	520.1	467.7	459.6	443.5	460.9	475.7	490.5
1343.8	52.5°	1135.5	872.1	561.7	482.4	431.4	428.7	420.6	436.7	450.2	463.6
1284.7	55°	1021.3	811.7	517.4	448.8	400.5	403.1	399.1	412.6	423.3	435.4
1230.9	57.5°	921.9	735.1	482.4	412.6	373.6	381.6	376.3	383.0	389.7	404.5
1166.4	60°	821.1	643.7	443.5	369.6	346.7	356.1	341.3	340.0	342.7	346.7
1071.0	62.5°	685.4	548.3	395.1	331.9	317.1	321.2	293.0	271.5	271.5	275.5
938.0	65°	551.0	459.6	341.3	288.9	276.8	274.1	233.8	204.3	201.6	213.7
783.5	67.5°	452.9	381.6	287.6	240.5	232.5	235.2	205.6	176.0	173.4	186.8
638.3	70°	374.9	307.7	229.8	185.4	193.5	205.6	176.0	147.8	143.8	155.9
518.7	72.5°	298.3	240.5	176.0	137.1	159.9	174.7	143.8	116.9	114.2	125.0
400.5	75°	219.0	172.0	119.6	99.4	123.6	137.1	104.8	83.3	79.3	88.7
267.4	77.5°	135.7	96.8	75.3	59.1	84.7	91.4	55.1	48.4	47.0	53.8
162.6	80°	63.2	41.7	36.3	20.2	30.9	36.3	22.8	25.5	26.9	32.3
82.0	82.5°	17.5	6.7	1.3	0.0	0.0	10.8	5.4	10.8	13.4	20.2
6.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.7	12.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
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: P951076
 CATALOG NUMBER: GALN-SB5B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2701.1	0°	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1	2701.1
2448.5	2.5°	2504.9	2558.6	2644.7	2733.3	2820.7	2909.4	2995.4	3026.3
2166.3	5°	2272.4	2396.0	2566.7	2749.5	2937.6	3128.4	3303.1	3382.4
1874.6	7.5°	2013.1	2190.4	2447.1	2733.3	3033.0	3332.7	3608.2	3735.8
1585.7	10°	1736.2	1960.6	2253.6	2640.6	3070.6	3484.5	3863.5	4028.8
1331.7	12.5°	1472.8	1708.0	2031.9	2495.5	3041.1	3571.9	4027.5	4222.3
1153.0	15°	1252.4	1460.7	1810.1	2323.5	2945.7	3577.3	4105.4	4319.1
1053.6	17.5°	1087.2	1222.9	1584.4	2132.7	2820.7	3527.5	4132.3	4360.7
999.8	20°	1005.2	1042.8	1291.4	1888.1	2703.8	3480.5	4159.1	4399.7
956.8	22.5°	956.8	966.2	1056.2	1572.3	2564.0	3465.7	4206.2	4453.4
917.8	25°	917.8	920.5	944.7	1245.7	2350.4	3456.3	4278.8	4527.4
877.5	27.5°	878.9	878.9	892.3	1003.8	2060.1	3416.0	4372.8	4616.1
837.2	30°	839.9	839.9	849.3	888.3	1720.1	3336.7	4485.7	4731.6
796.9	32.5°	799.6	799.6	807.6	835.9	1373.4	3237.3	4589.2	4848.5
755.2	35°	759.3	756.6	767.3	796.9	1092.5	3111.0	4692.6	4974.9
713.6	37.5°	716.3	714.9	725.7	759.3	943.4	2964.5	4770.6	5146.9
671.9	40°	670.6	670.6	682.7	718.9	900.4	2780.4	4894.2	5394.1
628.9	42.5°	628.9	626.2	639.7	684.0	868.1	2604.3	5116.0	5754.3
589.9	45°	588.6	583.2	595.3	650.4	811.7	2542.5	5529.9	6286.4
552.3	47.5°	551.0	537.5	548.3	610.1	760.6	2773.7	6207.1	7024.2
518.7	50°	520.1	494.5	503.9	569.8	721.6	3274.9	7086.0	8003.8
487.8	52.5°	487.8	454.2	459.6	520.1	686.7	3752.0	8038.8	9296.6
456.9	55°	454.2	416.6	419.3	470.3	637.0	3823.2	8968.7	11059.7
422.0	57.5°	416.6	381.6	381.6	424.6	600.7	3313.9	9683.6	13247.5
379.0	60°	374.9	352.1	345.4	388.4	632.9	2338.3	9766.9	14658.5
323.9	62.5°	329.2	317.1	307.7	353.4	657.1	1385.5	9096.4	14317.1
255.3	65°	276.8	274.1	267.4	388.4	553.7	818.4	7809.0	13270.3
217.7	67.5°	232.5	228.5	228.5	407.2	420.6	514.7	6101.0	11829.7
185.4	70°	200.2	185.4	185.4	307.7	255.3	356.1	4259.9	10274.9
153.2	72.5°	168.0	151.9	141.1	245.9	190.8	260.7	2662.1	8799.4
116.9	75°	134.4	122.3	108.9	162.6	142.4	197.5	1546.7	7290.3
73.9	77.5°	96.8	91.4	76.6	119.6	103.5	142.4	920.5	5625.3
45.7	80°	49.7	51.1	48.4	68.5	69.9	96.8	524.1	3850.1
29.6	82.5°	29.6	22.8	25.5	33.6	40.3	55.1	197.5	2263.0
21.5	85°	18.8	12.1	12.1	16.1	20.2	21.5	60.5	917.8
10.8	87.5°	9.4	4.0	5.4	8.1	6.7	5.4	2.7	231.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)