

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: P948934

Luminaire Tested: **GALN-SB3D-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948934
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-SB3D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 20938 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

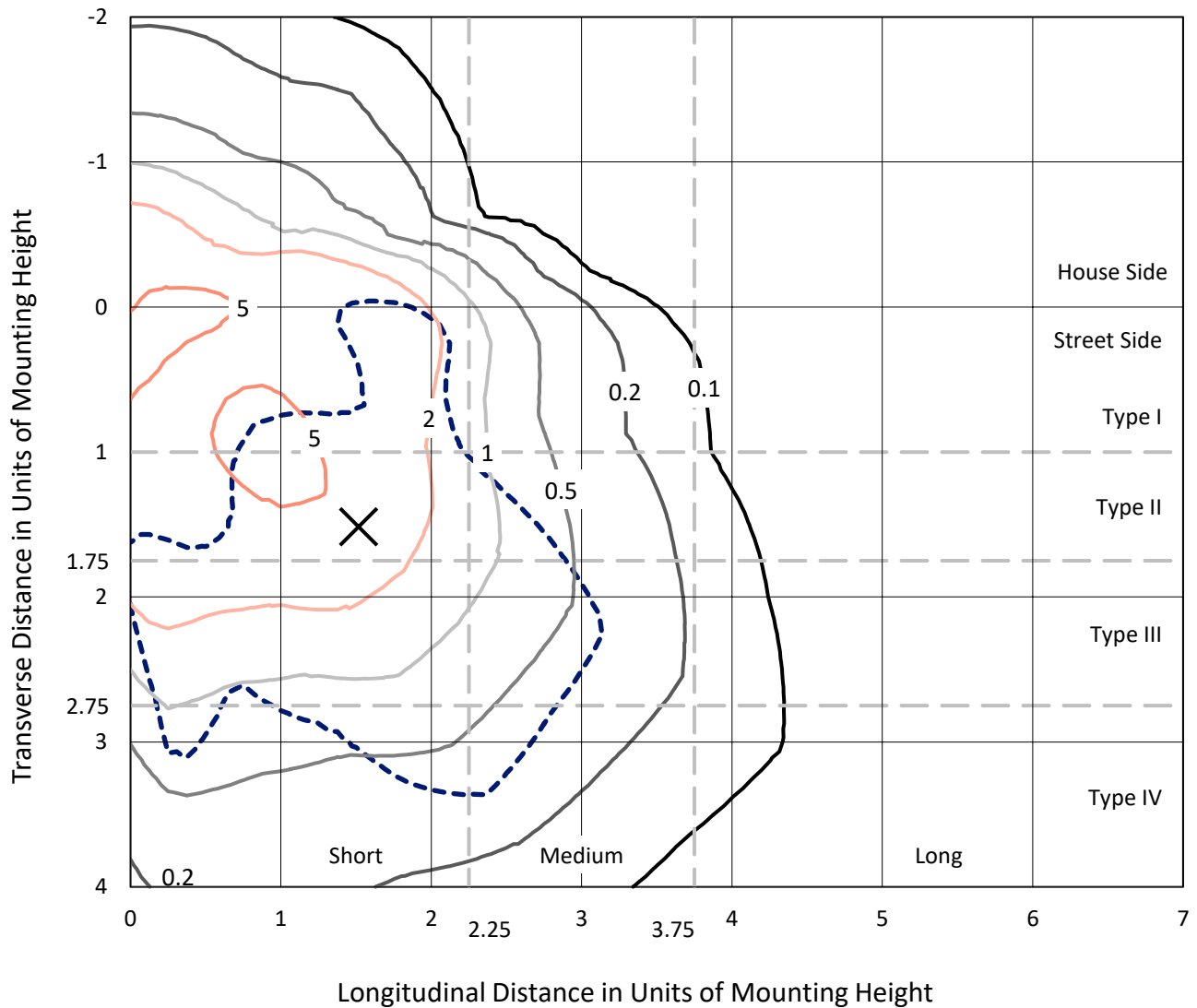
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

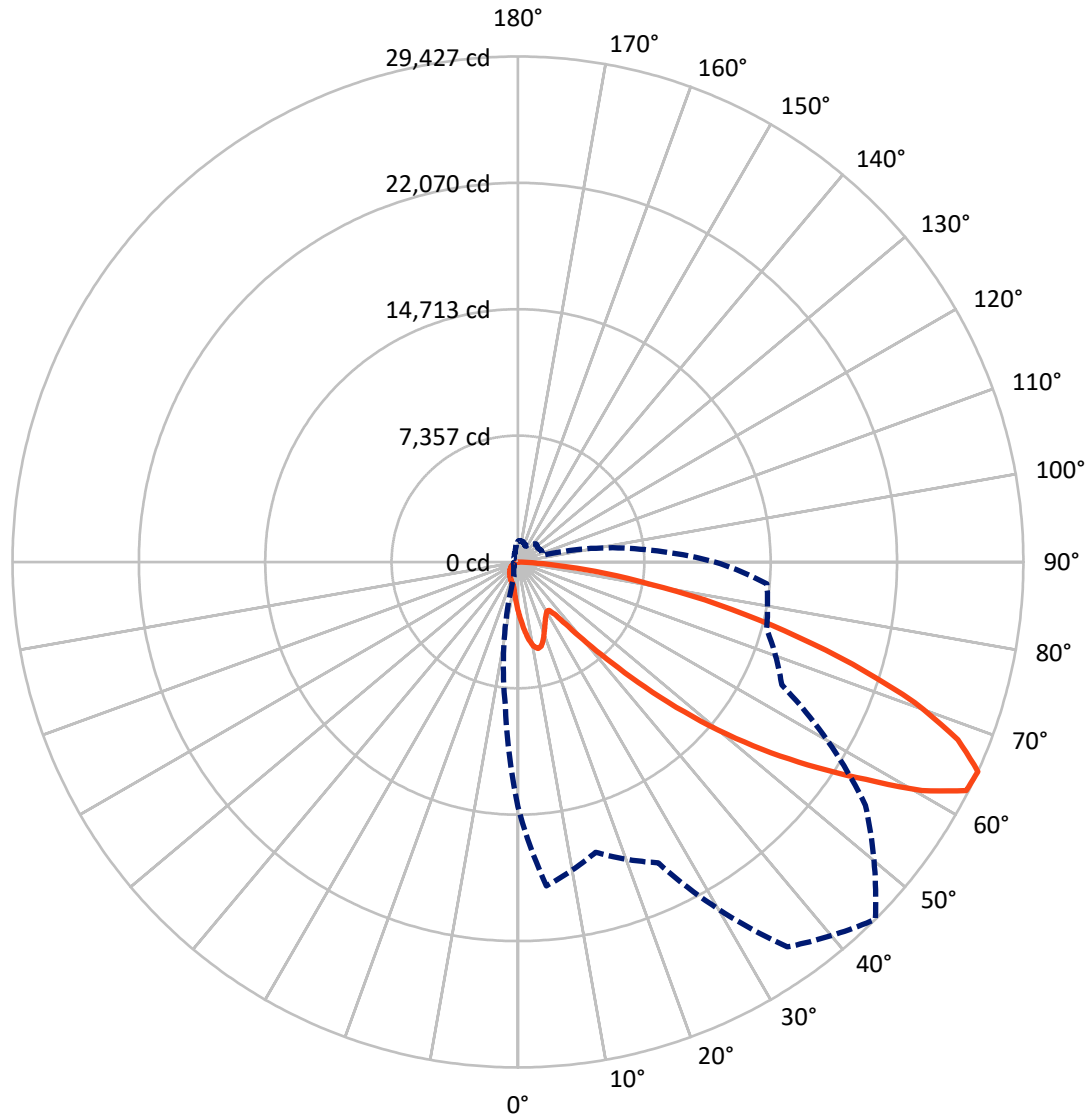
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	4161.8	0.0	4161.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	16776.2	0.0	16776.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	20938.0	0.0	20938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	1.4
10°-20°	855.7	4.1
20°-30°	1260.6	6.0
30°-40°	1619.5	7.7
40°-50°	2619.2	12.5
50°-60°	4593.0	21.9
60°-70°	5747.1	27.4
70°-80°	3358.3	16.0
80°-90°	599.2	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°	20938.0	100.0
0°-180°	20938.0	100.0

Coefficient of Utilization



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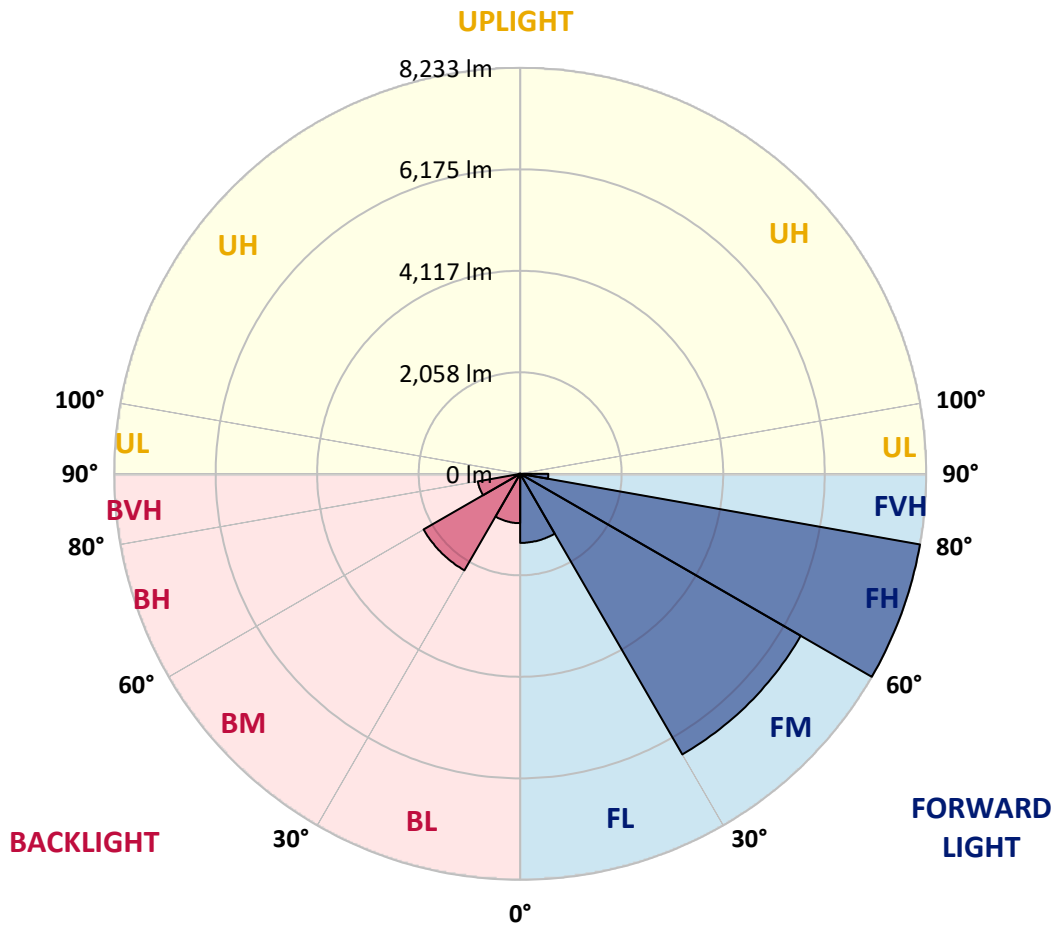
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.0	6.7			
FM (30°-60°)	6570.6	31.4			
FH (60°-80°)	8233.5	39.3			G4/12000
FVH (80°-90°)	571.1	2.7			G4/750
BL (0°-30°)	1000.7	4.8	B3/2500		
BM (30°-60°)	2261.1	10.8	B2/2500		
BH (60°-80°)	872.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.1	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°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2.5°	3248.3	3272.8	3327.6	3356.5	3401.2	3404.1	3404.1	3365.1	3363.7	3284.4
5°	3630.5	3688.2	3818.1	3952.2	3981.1	3988.3	3973.8	3895.9	3838.3	3683.9
7.5°	4009.9	4121.0	4318.6	4497.4	4555.1	4555.1	4520.5	4393.6	4275.3	4051.7
10°	4324.3	4464.3	4732.5	4933.0	4999.4	4985.0	4914.3	4754.2	4591.2	4320.0
12.5°	4532.1	4689.3	4983.5	5145.1	5212.9	5175.4	5094.6	4938.8	4767.2	4481.6
15°	4635.9	4800.3	5055.6	5140.7	5122.0	5083.1	5073.0	4997.9	4868.1	4601.3
17.5°	4680.6	4833.5	5010.9	4957.6	4798.9	4768.6	4869.6	4964.8	4933.0	4705.1
20°	4722.4	4850.8	4904.2	4667.6	4390.7	4363.3	4556.6	4827.7	4966.2	4801.8
22.5°	4780.1	4859.5	4749.9	4361.8	4063.3	3999.8	4213.3	4621.5	4976.3	4924.4
25°	4859.5	4881.1	4579.7	4071.9	3771.9	3708.4	3907.5	4392.1	4959.0	5057.1
27.5°	4954.7	4910.0	4416.7	3829.6	3539.7	3480.5	3679.6	4171.4	4910.0	5189.8
30°	5078.7	4947.5	4255.1	3642.1	3373.8	3330.5	3522.4	3981.1	4849.4	5358.6
32.5°	5204.2	4963.3	4105.1	3532.5	3336.3	3352.2	3509.4	3878.6	4783.0	5520.1
35°	5339.8	5013.8	4031.5	3640.6	3649.3	3787.8	3852.7	3973.8	4772.9	5739.3
37.5°	5524.4	5126.3	4119.5	4178.7	4478.7	4765.7	4712.4	4439.7	4889.8	6066.8
40°	5789.8	5323.9	4503.2	5094.6	5710.5	6176.4	5973.0	5286.4	5247.5	6538.4
42.5°	6176.4	5638.4	5184.0	6213.9	7258.2	8025.6	7480.3	6378.3	5873.5	7212.0
45°	6747.6	6147.5	6007.6	7395.2	9166.5	10375.3	9241.5	7542.4	6750.5	8231.8
47.5°	7539.5	6896.2	6779.3	8640.0	11485.9	13049.5	11194.5	8621.3	7748.6	9622.3
50°	8591.0	7904.4	7510.6	10001.7	14028.9	15775.6	13146.1	9662.7	8892.5	11321.5
52.5°	9978.6	9310.8	8363.1	11298.4	16644.0	18444.1	15106.4	10577.2	10311.8	13293.2
55°	11871.0	11426.8	9528.6	12536.0	19257.6	21128.4	16990.1	11439.7	12186.9	15635.7
57.5°	14219.3	14536.6	11209.0	13971.2	21607.3	23895.0	18882.6	12645.6	14621.7	18255.1
60°	15733.8	18672.0	14427.0	16093.0	24277.2	27023.5	21476.0	14939.0	17180.5	19194.1
62.5°	15367.4	19987.5	18281.1	18801.8	26732.2	29298.2	24017.6	17242.6	17662.3	17810.9
65°	14243.8	18925.9	17495.0	19328.3	27353.9	29426.6	24696.9	16945.4	14982.3	14540.9
67.5°	12697.5	17666.6	15627.1	17932.0	26230.2	27632.2	23431.9	14989.5	11578.2	10911.8
70°	11028.7	16273.3	14401.0	16365.6	24088.2	24505.1	21281.3	13183.6	8516.0	7369.3
72.5°	9444.9	14822.2	13561.5	14760.2	21230.8	20368.3	18481.6	11586.9	6200.9	5315.3
75°	7825.1	12681.7	12365.8	12853.3	17473.3	16043.9	15355.9	9593.5	4866.7	3845.5
77.5°	6037.9	9909.4	10636.3	10293.0	12299.4	11917.2	11902.8	7209.2	3555.5	2566.0
80°	4132.5	6906.3	8309.7	7261.1	7982.3	7787.6	8964.6	4836.4	2579.0	1544.8
82.5°	2429.0	4204.6	5784.1	3515.2	4413.8	4530.6	5338.4	2352.6	1517.4	356.3
85°	985.2	1660.2	2261.7	1376.1	2129.0	1795.8	2026.6	660.6	422.6	8.7
87.5°	248.1	530.8	372.1	154.3	246.7	226.5	178.9	80.8	17.3	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°
2899.2	0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
3275.7	2.5°	3219.5	3186.3	3104.1	3021.8	2955.5	2866.1	2806.9	2736.3	2668.5	2607.9
3650.7	5°	3559.9	3450.2	3300.2	3163.2	3023.3	2887.7	2753.6	2612.2	2482.4	2403.1
3968.1	7.5°	3836.8	3643.5	3444.5	3269.9	3101.2	2942.5	2765.1	2593.5	2390.1	2281.9
4210.4	10°	4043.1	3789.2	3528.1	3327.6	3157.4	3003.1	2853.1	2680.0	2434.8	2299.2
4357.5	12.5°	4178.7	3877.2	3571.4	3342.1	3151.7	3031.9	2965.6	2897.8	2654.0	2495.4
4465.7	15°	4272.4	3939.2	3601.7	3308.9	3075.2	2987.2	3053.6	3131.5	2975.7	2792.5
4578.2	17.5°	4374.8	4020.0	3614.7	3219.5	2926.6	2889.1	3060.8	3241.1	3233.9	3052.1
4684.9	20°	4483.0	4090.7	3606.0	3075.2	2746.3	2779.5	2998.8	3207.9	3295.9	3197.8
4807.6	22.5°	4594.1	4158.5	3572.8	2887.7	2577.6	2681.4	2900.7	3083.9	3187.7	3157.4
4957.6	25°	4734.0	4253.7	3523.8	2685.8	2437.7	2581.9	2786.7	2935.3	3007.4	3006.0
5119.1	27.5°	4901.3	4380.6	3497.8	2522.8	2338.1	2469.4	2651.1	2783.9	2834.3	2834.3
5319.6	30°	5096.0	4530.6	3469.0	2416.0	2280.4	2352.6	2493.9	2623.7	2674.2	2674.2
5538.9	32.5°	5312.4	4674.8	3399.8	2351.1	2237.2	2238.6	2328.0	2446.3	2506.9	2515.6
5812.9	35°	5572.0	4829.2	3248.3	2299.2	2186.7	2127.6	2170.8	2268.9	2341.0	2359.8
6203.8	37.5°	5912.4	5018.1	3031.9	2222.8	2108.8	2010.7	2020.8	2095.8	2175.2	2204.0
6743.3	40°	6369.7	5240.3	2806.9	2113.1	1999.2	1882.3	1878.0	1932.8	2010.7	2042.5
7473.1	42.5°	6974.0	5507.1	2592.0	2007.8	1866.5	1746.8	1739.5	1782.8	1850.6	1883.8
8436.7	45°	7747.2	5834.5	2407.4	1925.6	1736.7	1618.4	1615.5	1651.6	1710.7	1745.3
9669.9	47.5°	8821.8	6162.0	2281.9	1882.3	1634.2	1513.1	1518.9	1550.6	1604.0	1628.5
11266.7	50°	10222.4	6261.5	2218.4	1882.3	1579.4	1419.3	1448.2	1474.1	1514.5	1529.0
13180.7	52.5°	11566.7	5932.6	2160.7	1893.9	1586.7	1340.0	1402.0	1420.8	1455.4	1461.2
14954.9	55°	12225.9	5100.4	2081.4	1896.8	1631.4	1272.2	1364.5	1399.1	1412.1	1410.7
15984.8	57.5°	11999.4	4123.8	1947.3	1885.2	1661.7	1228.9	1318.4	1384.7	1393.4	1380.4
15788.6	60°	11204.6	3036.3	1844.8	1800.1	1650.1	1216.0	1247.7	1353.0	1366.0	1348.7
14277.0	62.5°	9871.9	2107.4	1765.5	1612.6	1599.6	1211.6	1136.6	1283.7	1315.5	1291.0
11475.8	65°	7771.7	1488.6	1520.3	1413.6	1490.0	1188.5	1021.2	1200.1	1243.4	1205.9
8325.6	67.5°	5259.0	1074.6	1231.8	1280.9	1312.6	1136.6	937.6	1104.9	1162.6	1113.5
5342.7	70°	2840.1	754.4	813.5	1078.9	1115.0	1047.2	862.6	1008.2	1074.6	1021.2
3797.9	72.5°	1677.5	542.3	569.8	866.9	928.9	921.7	778.9	895.7	976.5	913.0
2620.9	75°	924.6	366.4	406.8	628.9	754.4	711.1	669.3	758.7	840.9	778.9
1642.9	77.5°	414.0	219.2	282.7	412.5	592.8	487.5	517.8	591.4	667.8	602.9
914.5	80°	160.1	122.6	187.5	225.0	431.3	269.7	333.2	435.6	490.4	438.5
199.1	82.5°	20.2	54.8	80.8	88.0	251.0	142.8	193.3	274.1	269.7	233.7
0.0	85°	0.0	10.1	11.5	5.8	108.2	51.9	63.5	89.4	83.7	63.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	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°
2899.2	0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2596.3	2.5°	2525.7	2473.7	2447.8	2426.1	2446.3	2457.9	2457.9	2506.9	2535.8	2547.3
2352.6	5°	2225.6	2129.0	2064.1	2025.1	2038.1	2052.5	2068.4	2130.4	2172.3	2199.7
2183.8	7.5°	1989.1	1842.0	1751.1	1703.5	1710.7	1720.8	1733.8	1794.4	1836.2	1872.2
2152.1	10°	1872.2	1664.5	1544.8	1487.1	1477.0	1471.3	1466.9	1503.0	1534.7	1563.6
2281.9	12.5°	1878.0	1588.1	1442.4	1371.7	1341.4	1306.8	1279.4	1285.2	1305.4	1341.4
2514.1	15°	1951.6	1563.6	1389.0	1301.1	1250.6	1210.2	1177.0	1169.8	1177.0	1182.8
2779.5	17.5°	2051.1	1560.7	1342.9	1233.3	1181.3	1148.2	1117.9	1107.8	1109.2	1116.4
2955.5	20°	2130.4	1552.0	1291.0	1168.4	1122.2	1093.3	1063.1	1053.0	1055.8	1057.3
2972.8	22.5°	2172.3	1539.1	1233.3	1103.4	1064.5	1035.6	1008.2	1006.8	1006.8	1015.5
2879.0	25°	2172.3	1511.6	1181.3	1041.4	1006.8	980.8	947.7	953.4	956.3	967.9
2733.4	27.5°	2120.3	1459.7	1139.5	988.1	952.0	926.0	895.7	902.9	907.3	920.3
2589.1	30°	2054.0	1397.7	1091.9	937.6	895.7	877.0	851.0	853.9	859.7	874.1
2455.0	32.5°	1983.3	1324.1	1053.0	887.1	845.3	830.8	802.0	806.3	812.1	827.9
2322.3	35°	1905.4	1237.6	1006.8	840.9	799.1	787.6	754.4	757.3	765.9	783.2
2179.5	37.5°	1823.2	1166.9	960.6	796.2	752.9	741.4	706.8	709.7	719.8	740.0
2029.5	40°	1742.4	1097.7	911.6	748.6	705.3	695.2	657.7	660.6	672.2	693.8
1878.0	42.5°	1654.4	1044.3	848.1	699.6	653.4	643.3	608.7	613.0	626.0	647.6
1738.1	45°	1549.1	1009.7	777.5	653.4	601.5	591.4	559.7	568.3	582.7	604.4
1618.4	47.5°	1441.0	995.3	718.3	604.4	548.1	539.5	513.5	527.9	543.8	561.1
1516.0	50°	1337.1	976.5	657.7	558.2	502.0	493.3	476.0	494.7	510.6	526.5
1442.4	52.5°	1218.8	936.1	602.9	517.8	463.0	460.1	451.5	468.8	483.2	497.6
1378.9	55°	1096.2	871.2	555.3	481.8	429.8	432.7	428.4	442.8	454.4	467.3
1321.2	57.5°	989.5	789.0	517.8	442.8	401.0	409.6	403.9	411.1	418.3	434.2
1252.0	60°	881.3	690.9	476.0	396.7	372.1	382.2	366.4	364.9	367.8	372.1
1149.6	62.5°	735.6	588.5	424.1	356.3	340.4	344.7	314.4	291.4	291.4	295.7
1006.8	65°	591.4	493.3	366.4	310.1	297.1	294.3	251.0	219.2	216.4	229.3
840.9	67.5°	486.1	409.6	308.7	258.2	249.5	252.4	220.7	189.0	186.1	200.5
685.1	70°	402.4	330.3	246.7	199.1	207.7	220.7	189.0	158.7	154.3	167.3
556.8	72.5°	320.2	258.2	189.0	147.1	171.6	187.5	154.3	125.5	122.6	134.1
429.8	75°	235.1	184.6	128.4	106.7	132.7	147.1	112.5	89.4	85.1	95.2
287.0	77.5°	145.7	103.9	80.8	63.5	90.9	98.1	59.1	51.9	50.5	57.7
174.5	80°	67.8	44.7	38.9	21.6	33.2	38.9	24.5	27.4	28.8	34.6
88.0	82.5°	18.8	7.2	1.4	0.0	0.0	11.5	5.8	11.5	14.4	21.6
7.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.2	13.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
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: P948934
 CATALOG NUMBER: GALN-SB3D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2899.2	0°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2628.1	2.5°	2688.7	2746.3	2838.7	2933.9	3027.6	3122.8	3215.1	3248.3
2325.2	5°	2439.1	2571.8	2755.0	2951.2	3153.1	3357.9	3545.4	3630.5
2012.2	7.5°	2160.7	2351.1	2626.6	2933.9	3255.5	3577.2	3872.9	4009.9
1702.0	10°	1863.6	2104.5	2418.9	2834.3	3295.9	3740.2	4146.9	4324.3
1429.4	12.5°	1580.9	1833.3	2180.9	2678.6	3264.2	3833.9	4322.9	4532.1
1237.6	15°	1344.3	1567.9	1942.9	2493.9	3161.8	3839.7	4406.6	4635.9
1130.8	17.5°	1166.9	1312.6	1700.6	2289.1	3027.6	3786.3	4435.4	4680.6
1073.2	20°	1078.9	1119.3	1386.2	2026.6	2902.1	3735.8	4464.3	4722.4
1027.0	22.5°	1027.0	1037.1	1133.7	1687.6	2752.1	3720.0	4514.7	4780.1
985.2	25°	985.2	988.1	1014.0	1337.1	2522.8	3709.9	4592.6	4859.5
941.9	27.5°	943.3	943.3	957.8	1077.5	2211.2	3666.6	4693.6	4954.7
898.6	30°	901.5	901.5	911.6	953.4	1846.3	3581.5	4814.8	5078.7
855.3	32.5°	858.2	858.2	866.9	897.2	1474.1	3474.8	4925.8	5204.2
810.6	35°	815.0	812.1	823.6	855.3	1172.7	3339.2	5036.9	5339.8
765.9	37.5°	768.8	767.4	778.9	815.0	1012.6	3182.0	5120.6	5524.4
721.2	40°	719.8	719.8	732.7	771.7	966.4	2984.3	5253.3	5789.8
675.0	42.5°	675.0	672.2	686.6	734.2	931.8	2795.4	5491.3	6176.4
633.2	45°	631.8	626.0	639.0	698.1	871.2	2729.0	5935.5	6747.6
592.8	47.5°	591.4	577.0	588.5	654.9	816.4	2977.1	6662.5	7539.5
556.8	50°	558.2	530.8	540.9	611.6	774.6	3515.2	7605.8	8591.0
523.6	52.5°	523.6	487.5	493.3	558.2	737.1	4027.2	8628.5	9978.6
490.4	55°	487.5	447.1	450.0	504.8	683.7	4103.7	9626.6	11871.0
452.9	57.5°	447.1	409.6	409.6	455.8	644.8	3557.0	10394.0	14219.3
406.8	60°	402.4	377.9	370.7	416.9	679.4	2509.8	10483.4	15733.8
347.6	62.5°	353.4	340.4	330.3	379.4	705.3	1487.1	9763.7	15367.4
274.1	65°	297.1	294.3	287.0	416.9	594.3	878.4	8381.8	14243.8
233.7	67.5°	249.5	245.2	245.2	437.1	451.5	552.4	6548.5	12697.5
199.1	70°	214.9	199.1	199.1	330.3	274.1	382.2	4572.4	11028.7
164.4	72.5°	180.3	163.0	151.5	264.0	204.8	279.8	2857.4	9444.9
125.5	75°	144.2	131.3	116.8	174.5	152.9	212.0	1660.2	7825.1
79.3	77.5°	103.9	98.1	82.2	128.4	111.1	152.9	988.1	6037.9
49.0	80°	53.4	54.8	51.9	73.6	75.0	103.9	562.5	4132.5
31.7	82.5°	31.7	24.5	27.4	36.1	43.3	59.1	212.0	2429.0
23.1	85°	20.2	13.0	13.0	17.3	21.6	23.1	64.9	985.2
11.5	87.5°	10.1	4.3	5.8	8.7	7.2	5.8	2.9	248.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)