

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: P954793

Luminaire Tested: **GALN-SB7D-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954793
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-SB7D-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 40023 lumens
Efficiency: N/A
Efficacy: 78.0 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

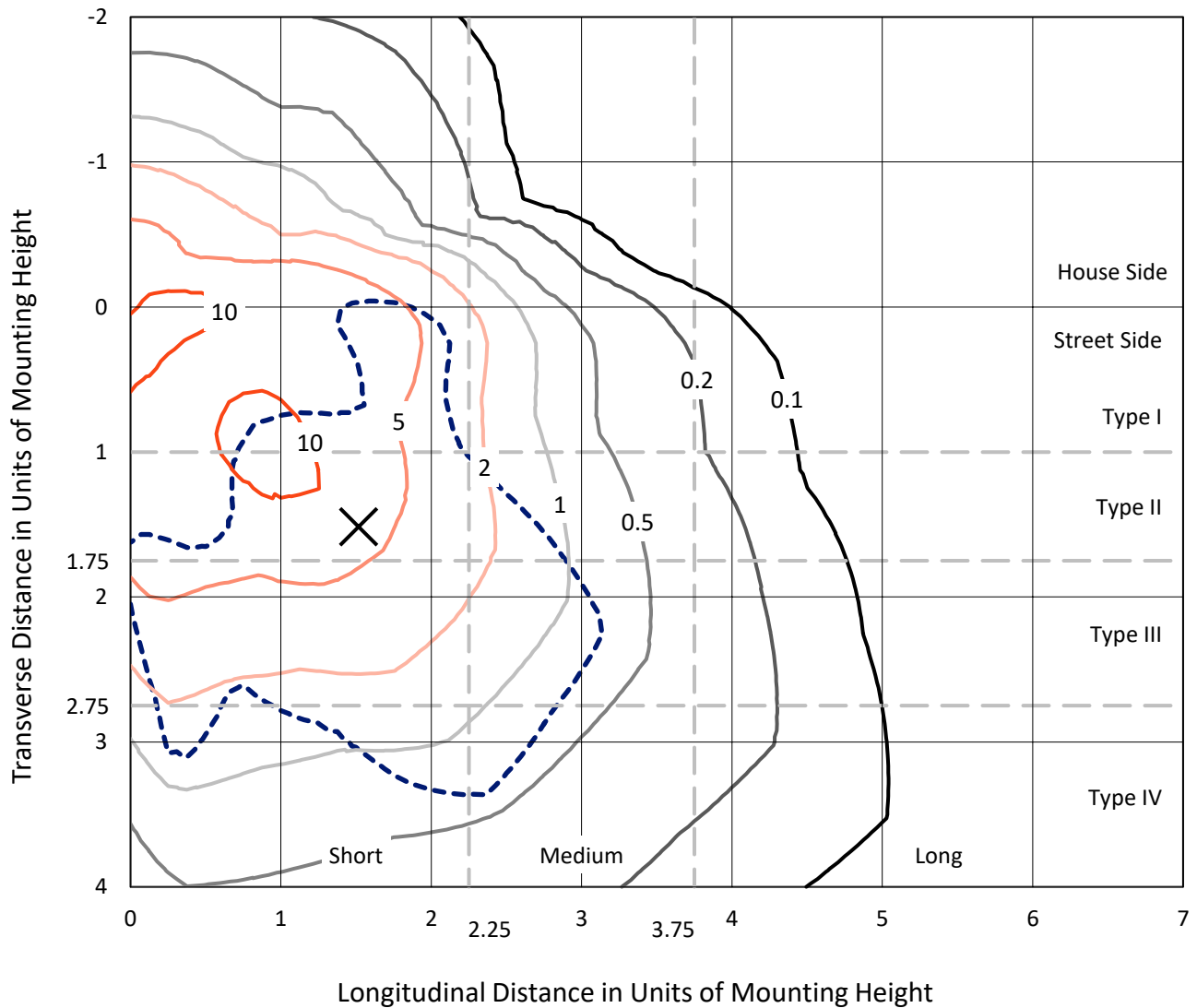
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954793
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Iso-Footcandle Lines of Horizontal Illumination

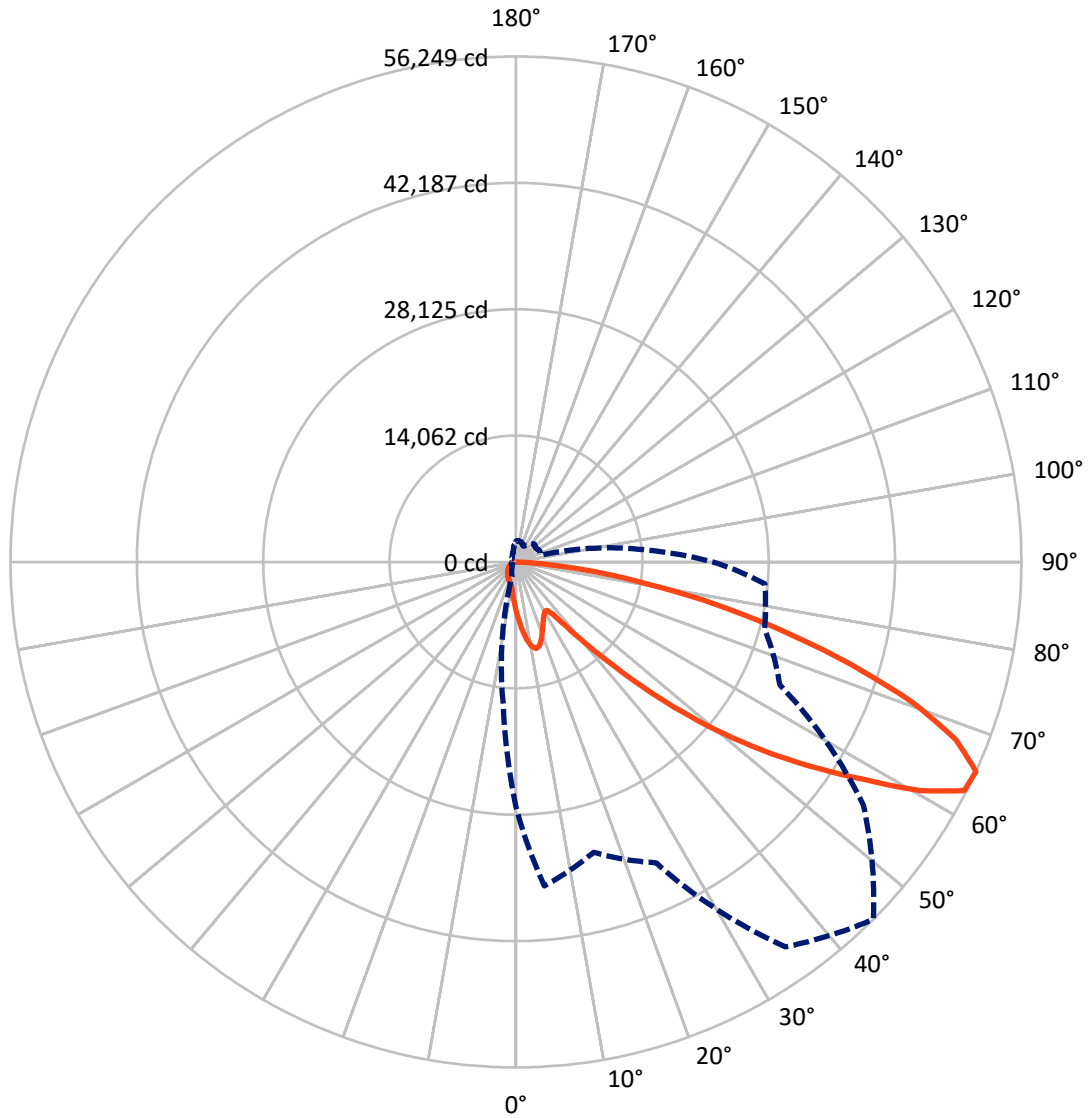
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P954793
CATALOG NUMBER: GALN-SB7D-940-U-SLL-HSS

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	7955.3	0.0	7955.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	32067.7	0.0	32067.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	40023.0	0.0	40023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.6	1.4
10°-20°	1635.6	4.1
20°-30°	2409.6	6.0
30°-40°	3095.7	7.7
40°-50°	5006.6	12.5
50°-60°	8779.5	21.9
60°-70°	10985.6	27.4
70°-80°	6419.5	16.0
80°-90°	1145.3	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°	40023.0	100.0
0°-180°	40023.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954793

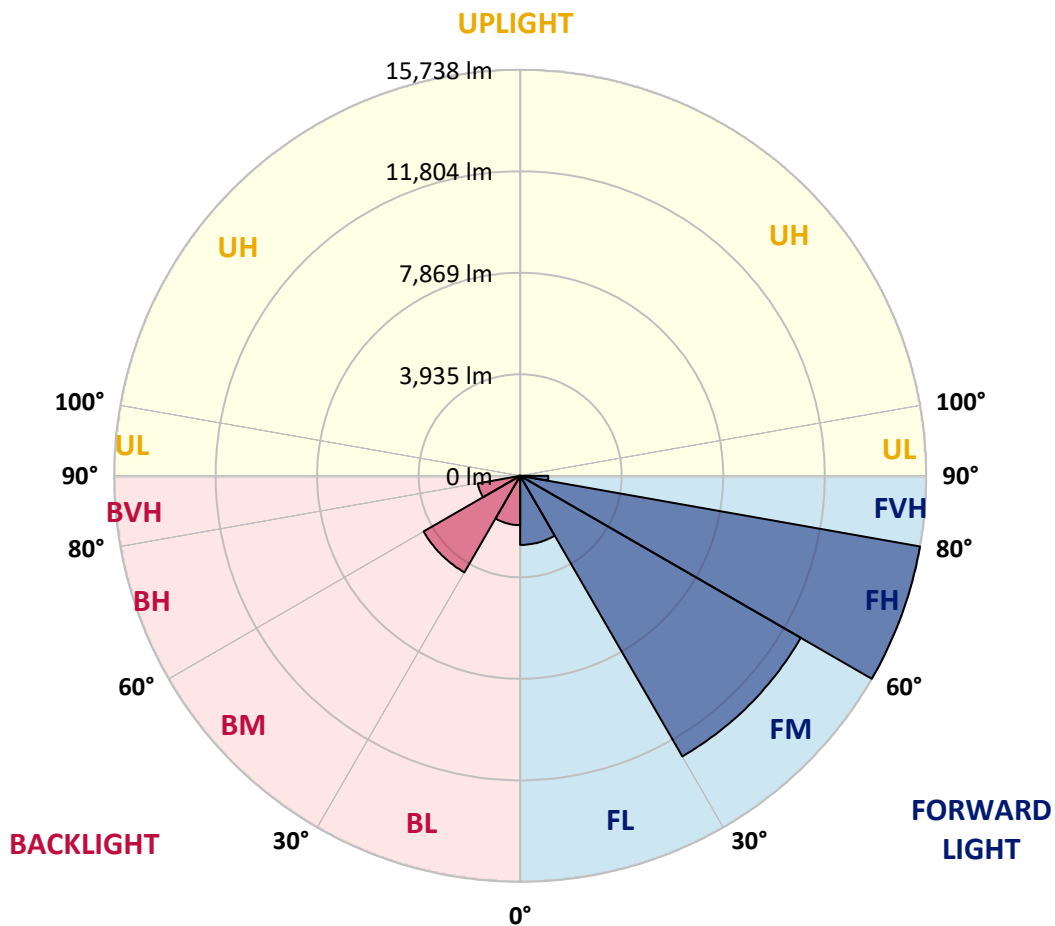
CATALOG NUMBER: GALN-SB7D-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2678.0	6.7			
FM (30°-60°)	12559.7	31.4			
FH (60°-80°)	15738.3	39.3			G5
FVH (80°-90°)	1091.7	2.7			G5
BL (0°-30°)	1912.8	4.8	B3/2500		
BM (30°-60°)	4322.1	10.8	B3/5000		
BH (60°-80°)	1666.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	53.7	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



REPORT NUMBER: P954793

CATALOG NUMBER: GALN-SB7D-940-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9
2.5°	6209.1	6256.0	6360.8	6415.9	6501.4	6506.9	6506.9	6432.5	6429.7	6278.1
5°	6939.8	7050.1	7298.2	7554.6	7609.8	7623.6	7596.0	7447.1	7336.8	7041.8
7.5°	7664.9	7877.2	8255.0	8596.8	8707.1	8707.1	8641.0	8398.3	8172.2	7744.9
10°	8266.0	8533.4	9046.3	9429.5	9556.3	9528.8	9393.7	9087.6	8776.1	8257.7
12.5°	8663.0	8963.5	9526.0	9834.8	9964.4	9892.7	9738.3	9440.5	9112.4	8566.5
15°	8861.5	9175.9	9663.9	9826.5	9790.7	9716.3	9697.0	9553.6	9305.4	8795.4
17.5°	8947.0	9239.3	9578.4	9476.4	9173.1	9115.2	9308.2	9490.2	9429.5	8993.9
20°	9027.0	9272.4	9374.4	8922.2	8392.8	8340.4	8709.9	9228.2	9492.9	9178.6
22.5°	9137.3	9288.9	9079.3	8337.7	7766.9	7645.6	8053.7	8834.0	9512.2	9413.0
25°	9288.9	9330.3	8754.0	7783.5	7210.0	7088.7	7469.2	8395.6	9479.1	9666.6
27.5°	9470.9	9385.4	8442.4	7320.3	6766.1	6653.0	7033.5	7973.7	9385.4	9920.3
30°	9708.0	9457.1	8133.6	6961.8	6449.0	6366.3	6733.0	7609.8	9269.6	10242.9
32.5°	9947.9	9487.4	7846.9	6752.3	6377.3	6407.7	6708.2	7414.0	9142.8	10551.7
35°	10207.0	9583.9	7706.3	6959.1	6975.6	7240.3	7364.4	7596.0	9123.5	10970.8
37.5°	10559.9	9799.0	7874.5	7987.5	8561.0	9109.7	9007.7	8486.6	9346.8	11596.6
40°	11067.3	10176.7	8607.9	9738.3	10915.6	11806.2	11417.4	10105.0	10030.6	12498.2
42.5°	11806.2	10777.8	9909.3	11877.9	13874.1	15340.9	14298.7	12192.2	11227.2	13785.8
45°	12898.0	11751.0	11483.6	14136.0	17521.8	19832.3	17665.2	14417.2	12903.5	15735.1
47.5°	14411.7	13182.0	12958.7	16515.4	21955.3	24944.1	21398.4	16479.6	14811.5	18393.1
50°	16421.7	15109.3	14356.6	19118.2	26816.2	30155.1	25128.8	18470.3	16997.9	21641.0
52.5°	19074.1	17797.5	15986.1	21596.9	31814.9	35255.9	28875.8	20218.3	19711.0	25410.0
55°	22691.5	21842.3	18213.8	23962.5	36810.9	40387.0	32476.7	21867.1	23295.3	29887.7
57.5°	27180.1	27786.7	21425.9	26705.9	41302.4	45675.2	36094.1	24172.1	27949.4	34894.7
60°	30075.2	35691.5	27577.2	30761.7	46405.9	51655.5	41051.5	28556.0	32840.6	36689.6
62.5°	29374.9	38206.1	34944.3	35939.7	51098.6	56003.6	45909.6	32959.2	33761.5	34045.5
65°	27227.0	36176.8	33441.7	36946.0	52286.9	56249.0	47208.2	32391.2	28638.7	27795.0
67.5°	24271.3	33769.8	29871.1	34277.1	50139.1	52819.0	44790.2	28652.5	22131.8	20858.0
70°	21081.3	31106.4	27527.6	31282.8	46044.7	46841.5	40679.2	25200.5	16278.3	14086.4
72.5°	18053.9	28332.6	25922.9	28214.1	40582.7	38933.9	35327.6	22148.3	11853.1	10160.2
75°	14957.6	24241.0	23637.2	24569.1	33400.3	30668.0	29352.8	18337.9	9302.7	7350.6
77.5°	11541.5	18941.7	20331.3	19675.1	23510.4	22779.7	22752.1	13780.3	6796.4	4905.0
80°	7899.3	13201.3	15884.0	13879.6	15258.2	14885.9	17135.8	9244.8	4929.8	2952.9
82.5°	4643.1	8037.1	11056.2	6719.2	8436.9	8660.3	10204.3	4496.9	2900.5	681.0
85°	1883.1	3173.5	4323.2	2630.3	4069.6	3432.7	3873.8	1262.8	807.8	16.5
87.5°	474.2	1014.6	711.3	295.0	471.5	432.9	341.9	154.4	33.1	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: P954793
 CATALOG NUMBER: GALN-SB7D-940-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5541.9	0°	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9
6261.5	2.5°	6154.0	6090.6	5933.4	5776.3	5649.4	5478.5	5365.4	5230.3	5100.8	4985.0
6978.4	5°	6804.7	6595.1	6308.4	6046.5	5779.0	5519.8	5263.4	4993.2	4745.1	4593.4
7585.0	7.5°	7334.1	6964.6	6584.1	6250.5	5927.9	5624.6	5285.5	4957.4	4568.6	4361.8
8048.2	10°	7728.3	7243.1	6744.0	6360.8	6035.4	5740.4	5453.7	5122.8	4654.1	4394.9
8329.4	12.5°	7987.5	7411.3	6826.7	6388.4	6024.4	5795.6	5668.7	5539.1	5073.2	4769.9
8536.2	15°	8166.7	7529.8	6884.6	6324.9	5878.3	5710.1	5836.9	5985.8	5688.0	5337.9
8751.2	17.5°	8362.5	7684.2	6909.5	6154.0	5594.3	5522.6	5850.7	6195.4	6181.6	5834.2
8955.3	20°	8569.3	7819.3	6892.9	5878.3	5249.6	5313.1	5732.1	6131.9	6300.1	6112.6
9189.6	22.5°	8781.6	7948.9	6829.5	5519.8	4927.1	5125.6	5544.7	5894.8	6093.3	6035.4
9476.4	25°	9049.0	8130.9	6735.8	5133.8	4659.6	4935.3	5326.8	5610.8	5748.7	5745.9
9785.2	27.5°	9368.9	8373.5	6686.1	4822.3	4469.4	4720.3	5067.7	5321.3	5417.8	5417.8
10168.4	30°	9741.1	8660.3	6631.0	4618.3	4359.1	4496.9	4767.1	5015.3	5111.8	5111.8
10587.5	32.5°	10154.6	8936.0	6498.6	4494.2	4276.4	4279.1	4450.1	4676.2	4792.0	4808.5
11111.4	35°	10650.9	9231.0	6209.1	4394.9	4179.9	4066.8	4149.5	4337.0	4474.9	4510.7
11858.6	37.5°	11301.6	9592.2	5795.6	4248.8	4031.0	3843.5	3862.8	4006.2	4157.8	4213.0
12889.8	40°	12175.6	10016.8	5365.4	4039.2	3821.4	3598.1	3589.8	3694.6	3843.5	3904.1
14284.9	42.5°	13330.9	10526.9	4954.6	3838.0	3567.8	3338.9	3325.1	3407.9	3537.4	3600.9
16126.7	45°	14808.7	11152.7	4601.7	3680.8	3319.6	3093.5	3088.0	3157.0	3270.0	3336.2
18484.0	47.5°	16862.8	11778.6	4361.8	3598.1	3123.9	2892.3	2903.3	2964.0	3066.0	3112.8
21536.2	50°	19540.0	11968.9	4240.5	3598.1	3019.1	2713.1	2768.2	2817.8	2895.0	2922.6
25195.0	52.5°	22109.7	11340.2	4130.2	3620.2	3032.9	2561.4	2680.0	2715.8	2782.0	2793.0
28586.3	55°	23369.7	9749.3	3978.6	3625.7	3118.4	2431.8	2608.3	2674.5	2699.3	2696.5
30554.9	57.5°	22936.9	7882.7	3722.2	3603.6	3176.3	2349.1	2520.1	2646.9	2663.4	2638.6
30179.9	60°	21417.7	5803.8	3526.4	3440.9	3154.2	2324.3	2384.9	2586.2	2611.0	2578.0
27290.4	62.5°	18870.0	4028.2	3374.8	3082.5	3057.7	2316.0	2172.6	2453.9	2514.5	2467.7
21936.0	65°	14855.6	2845.4	2906.1	2702.0	2848.2	2271.9	1952.1	2294.0	2376.7	2305.0
15914.4	67.5°	10052.6	2054.1	2354.6	2448.4	2509.0	2172.6	1792.2	2112.0	2222.3	2128.5
10212.5	70°	5428.9	1442.0	1555.0	2062.4	2131.3	2001.7	1648.8	1927.3	2054.1	1952.1
7259.6	72.5°	3206.6	1036.7	1089.1	1657.1	1775.6	1761.8	1488.9	1712.2	1866.6	1745.3
5009.8	75°	1767.3	700.3	777.5	1202.1	1442.0	1359.3	1279.3	1450.3	1607.4	1488.9
3140.4	77.5°	791.3	419.1	540.4	788.5	1133.2	931.9	989.8	1130.4	1276.6	1152.5
1748.0	80°	306.0	234.4	358.4	430.1	824.4	515.6	636.9	832.7	937.4	838.2
380.5	82.5°	38.6	104.8	154.4	168.2	479.7	273.0	369.5	523.9	515.6	446.7
0.0	85°	0.0	19.3	22.1	11.0	206.8	99.3	121.3	170.9	159.9	121.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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

REPORT NUMBER: P954793
 CATALOG NUMBER: GALN-SB7D-940-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
5541.9	0°	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9
4962.9	2.5°	4827.8	4728.5	4678.9	4637.6	4676.2	4698.2	4698.2	4792.0	4847.1	4869.2
4496.9	5°	4254.3	4069.6	3945.5	3871.1	3895.9	3923.4	3953.8	4072.3	4152.3	4204.7
4174.4	7.5°	3802.1	3520.9	3347.2	3256.2	3270.0	3289.3	3314.1	3429.9	3509.9	3578.8
4113.7	10°	3578.8	3181.8	2952.9	2842.6	2823.3	2812.3	2804.0	2873.0	2933.6	2988.8
4361.8	12.5°	3589.8	3035.6	2757.2	2622.1	2564.2	2498.0	2445.6	2456.6	2495.2	2564.2
4805.7	15°	3730.4	2988.8	2655.2	2487.0	2390.5	2313.3	2249.8	2236.1	2249.8	2260.9
5313.1	17.5°	3920.7	2983.3	2566.9	2357.4	2258.1	2194.7	2136.8	2117.5	2120.3	2134.0
5649.4	20°	4072.3	2966.7	2467.7	2233.3	2145.1	2089.9	2032.0	2012.7	2018.2	2021.0
5682.5	22.5°	4152.3	2941.9	2357.4	2109.2	2034.8	1979.6	1927.3	1924.5	1924.5	1941.0
5503.3	25°	4152.3	2889.5	2258.1	1990.7	1924.5	1874.9	1811.5	1822.5	1828.0	1850.1
5224.8	27.5°	4053.0	2790.3	2178.2	1888.7	1819.7	1770.1	1712.2	1726.0	1734.3	1759.1
4949.1	30°	3926.2	2671.7	2087.2	1792.2	1712.2	1676.4	1626.7	1632.2	1643.3	1670.8
4692.7	32.5°	3791.1	2531.1	2012.7	1695.7	1615.7	1588.1	1533.0	1541.3	1552.3	1582.6
4439.0	35°	3642.2	2365.6	1924.5	1607.4	1527.5	1505.4	1442.0	1447.5	1464.1	1497.1
4166.1	37.5°	3485.1	2230.5	1836.3	1522.0	1439.2	1417.2	1351.0	1356.5	1375.8	1414.4
3879.3	40°	3330.7	2098.2	1742.5	1431.0	1348.3	1329.0	1257.3	1262.8	1284.8	1326.2
3589.8	42.5°	3162.5	1996.2	1621.2	1337.2	1249.0	1229.7	1163.5	1171.8	1196.6	1238.0
3322.4	45°	2961.2	1930.0	1486.1	1249.0	1149.7	1130.4	1069.8	1086.3	1113.9	1155.3
3093.5	47.5°	2754.4	1902.4	1373.1	1155.3	1047.7	1031.2	981.6	1009.1	1039.5	1072.5
2897.8	50°	2555.9	1866.6	1257.3	1067.0	959.5	943.0	909.9	945.7	976.0	1006.4
2757.2	52.5°	2329.8	1789.4	1152.5	989.8	885.1	879.5	863.0	896.1	923.7	951.2
2635.9	55°	2095.4	1665.3	1061.5	920.9	821.6	827.1	818.9	846.5	868.5	893.3
2525.6	57.5°	1891.4	1508.2	989.8	846.5	766.5	783.0	772.0	785.8	799.6	829.9
2393.2	60°	1684.6	1320.7	909.9	758.2	711.3	730.6	700.3	697.6	703.1	711.3
2197.5	62.5°	1406.2	1124.9	810.6	681.0	650.7	659.0	601.1	556.9	556.9	565.2
1924.5	65°	1130.4	943.0	700.3	592.8	568.0	562.5	479.7	419.1	413.6	438.4
1607.4	67.5°	929.2	783.0	590.0	493.5	477.0	482.5	421.8	361.2	355.7	383.2
1309.7	70°	769.2	631.4	471.5	380.5	397.0	421.8	361.2	303.3	295.0	319.8
1064.3	72.5°	612.1	493.5	361.2	281.2	328.1	358.4	295.0	239.9	234.4	256.4
821.6	75°	449.4	352.9	245.4	204.0	253.7	281.2	215.1	170.9	162.7	182.0
548.7	77.5°	278.5	198.5	154.4	121.3	173.7	187.5	113.0	99.3	96.5	110.3
333.6	80°	129.6	85.5	74.4	41.4	63.4	74.4	46.9	52.4	55.1	66.2
168.2	82.5°	35.8	13.8	2.8	0.0	0.0	22.1	11.0	22.1	27.6	41.4
13.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.8	24.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
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: P954793
 CATALOG NUMBER: GALN-SB7D-940-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
5541.9	0°	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9	5541.9
5023.6	2.5°	5139.4	5249.6	5426.1	5608.1	5787.3	5969.3	6145.7	6209.1
4444.6	5°	4662.4	4916.0	5266.2	5641.2	6027.2	6418.7	6777.1	6939.8
3846.2	7.5°	4130.2	4494.2	5020.8	5608.1	6222.9	6837.8	7403.0	7664.9
3253.5	10°	3562.3	4022.7	4623.8	5417.8	6300.1	7149.3	7926.9	8266.0
2732.4	12.5°	3021.9	3504.4	4168.8	5120.1	6239.5	7328.5	8263.2	8663.0
2365.6	15°	2569.7	2997.0	3713.9	4767.1	6043.7	7339.6	8423.1	8861.5
2161.6	17.5°	2230.5	2509.0	3250.7	4375.6	5787.3	7237.6	8478.3	8947.0
2051.3	20°	2062.4	2139.6	2649.6	3873.8	5547.4	7141.1	8533.4	9027.0
1963.1	22.5°	1963.1	1982.4	2167.1	3225.9	5260.7	7110.7	8629.9	9137.3
1883.1	25°	1883.1	1888.7	1938.3	2555.9	4822.3	7091.4	8778.8	9288.9
1800.4	27.5°	1803.2	1803.2	1830.8	2059.6	4226.7	7008.7	8971.8	9470.9
1717.7	30°	1723.2	1723.2	1742.5	1822.5	3529.2	6846.0	9203.4	9708.0
1635.0	32.5°	1640.5	1640.5	1657.1	1715.0	2817.8	6642.0	9415.7	9947.9
1549.5	35°	1557.8	1552.3	1574.3	1635.0	2241.6	6382.8	9628.0	10207.0
1464.1	37.5°	1469.6	1466.8	1488.9	1557.8	1935.5	6082.3	9787.9	10559.9
1378.6	40°	1375.8	1375.8	1400.6	1475.1	1847.3	5704.6	10041.6	11067.3
1290.4	42.5°	1290.4	1284.8	1312.4	1403.4	1781.1	5343.4	10496.5	11806.2
1210.4	45°	1207.6	1196.6	1221.4	1334.5	1665.3	5216.6	11345.7	12898.0
1133.2	47.5°	1130.4	1102.9	1124.9	1251.8	1560.6	5690.8	12735.4	14411.7
1064.3	50°	1067.0	1014.6	1033.9	1169.0	1480.6	6719.2	14538.5	16421.7
1000.9	52.5°	1000.9	931.9	943.0	1067.0	1408.9	7698.0	16493.4	19074.1
937.4	55°	931.9	854.7	860.2	965.0	1306.9	7844.1	18401.3	22691.5
865.8	57.5°	854.7	783.0	783.0	871.3	1232.5	6799.2	19868.1	27180.1
777.5	60°	769.2	722.4	708.6	796.8	1298.6	4797.5	20039.1	30075.2
664.5	62.5°	675.5	650.7	631.4	725.1	1348.3	2842.6	18663.3	29374.9
523.9	65°	568.0	562.5	548.7	796.8	1136.0	1679.1	16021.9	27227.0
446.7	67.5°	477.0	468.7	468.7	835.4	863.0	1056.0	12517.5	24271.3
380.5	70°	410.8	380.5	380.5	631.4	523.9	730.6	8740.2	21081.3
314.3	72.5°	344.6	311.6	289.5	504.6	391.5	534.9	5461.9	18053.9
239.9	75°	275.7	250.9	223.3	333.6	292.3	405.3	3173.5	14957.6
151.6	77.5°	198.5	187.5	157.2	245.4	212.3	292.3	1888.7	11541.5
93.7	80°	102.0	104.8	99.3	140.6	143.4	198.5	1075.3	7899.3
60.7	82.5°	60.7	46.9	52.4	68.9	82.7	113.0	405.3	4643.1
44.1	85°	38.6	24.8	24.8	33.1	41.4	44.1	124.1	1883.1
22.1	87.5°	19.3	8.3	11.0	16.5	13.8	11.0	5.5	474.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)