

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: P950259

Luminaire Tested: **GALN-SB4D-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950259
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-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 31125 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

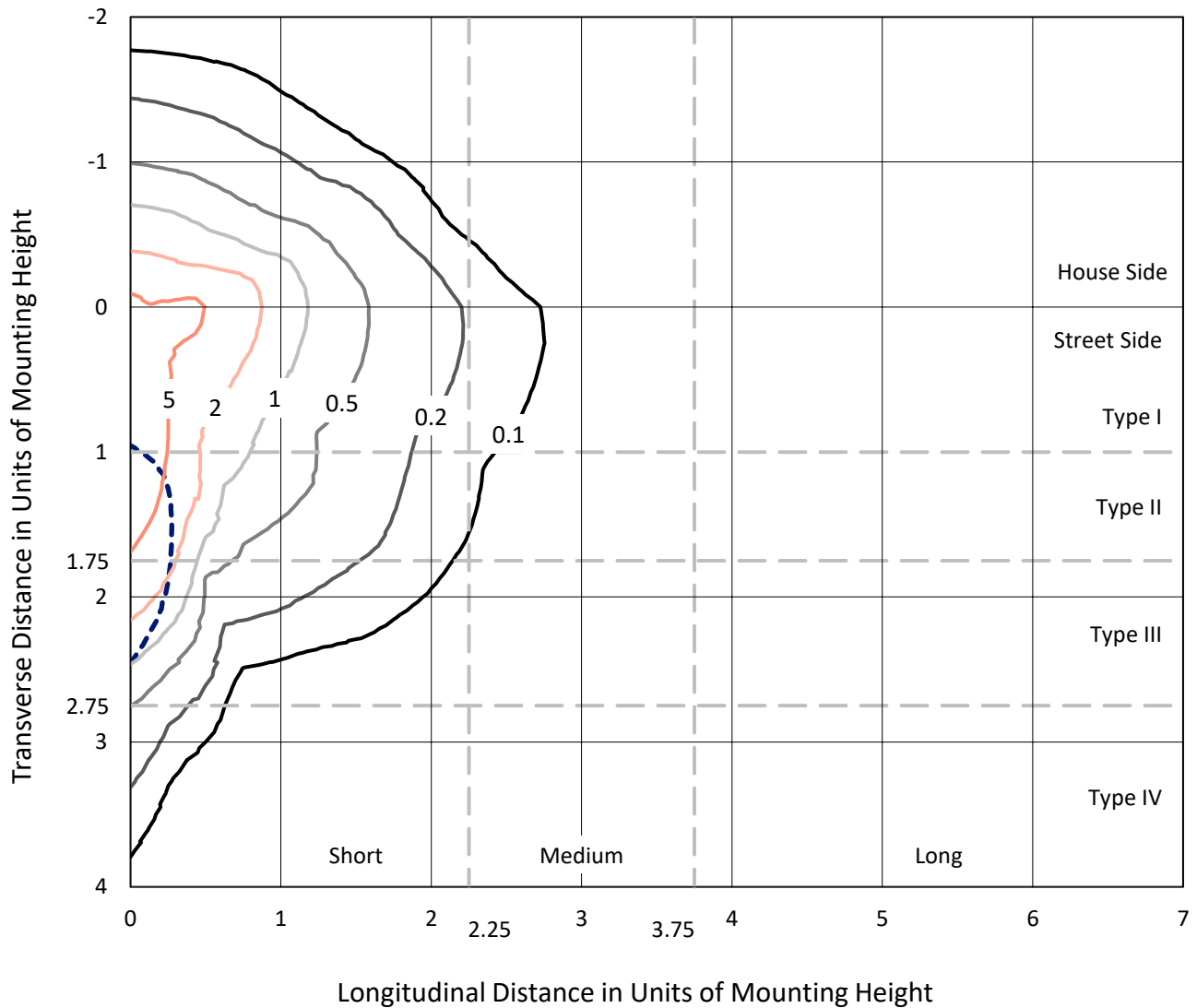
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950259
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Iso-Footcandle Lines of Horizontal Illumination

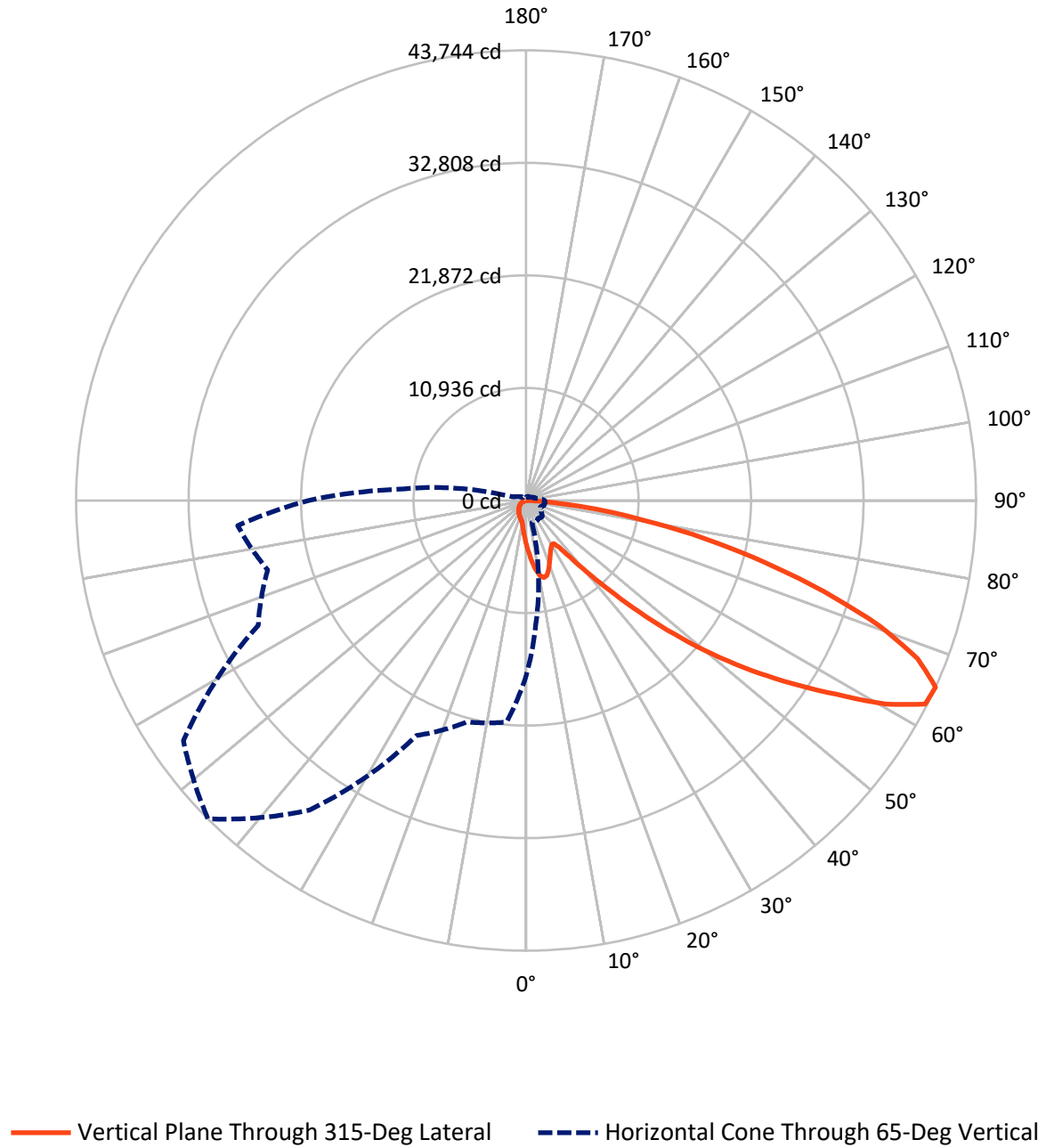
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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 | 4358.8 | 0.0 | 4358.8 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 26766.2 | 0.0 | 26766.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 31125.0 | 0.0 | 31125.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 424.3 | 1.4 |
| 10°-20° | 1272.0 | 4.1 |
| 20°-30° | 1873.9 | 6.0 |
| 30°-40° | 2407.4 | 7.7 |
| 40°-50° | 3893.5 | 12.5 |
| 50°-60° | 6827.7 | 21.9 |
| 60°-70° | 8543.3 | 27.4 |
| 70°-80° | 4992.3 | 16.0 |
| 80°-90° | 890.7 | 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° | 31125.0 | 100.0 |
| 0°-180° | 31125.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P950259

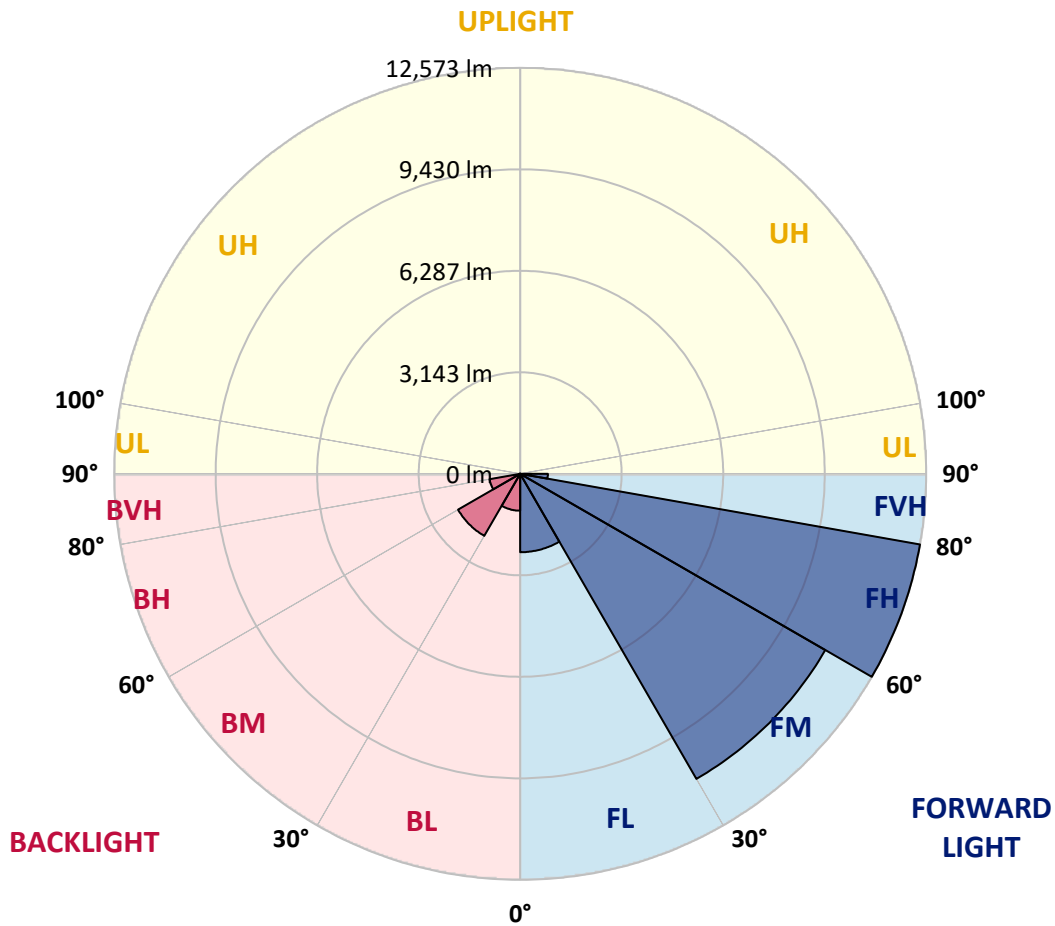
CATALOG NUMBER: GALN-SB4D-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2427.6 | 7.8 | | | |
| FM (30°-60°) | 10909.0 | 35.0 | | | |
| FH (60°-80°) | 12573.1 | 40.4 | | | G5 |
| FVH (80°-90°) | 856.5 | 2.8 | | | G5 |
| BL (0°-30°) | 1142.5 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 2219.6 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 962.5 | 3.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 34.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P950259

CATALOG NUMBER: GALN-SB4D-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 |
| 2.5° | 4869.4 | 4785.8 | 4736.5 | 4614.3 | 4492.1 | 4393.4 | 4260.5 | 4172.6 | 4067.5 | 3966.7 |
| 5° | 5426.9 | 5291.9 | 5128.9 | 4905.9 | 4702.2 | 4494.2 | 4292.7 | 4093.3 | 3883.1 | 3690.1 |
| 7.5° | 5898.7 | 5703.5 | 5416.2 | 5120.3 | 4860.9 | 4610.0 | 4374.1 | 4110.4 | 3855.2 | 3552.9 |
| 10° | 6258.9 | 6010.2 | 5632.8 | 5244.7 | 4946.6 | 4693.6 | 4464.2 | 4241.2 | 3983.9 | 3619.4 |
| 12.5° | 6477.6 | 6211.7 | 5763.6 | 5309.0 | 4968.1 | 4685.0 | 4507.1 | 4408.4 | 4307.7 | 3945.3 |
| 15° | 6638.4 | 6351.1 | 5855.8 | 5354.0 | 4918.8 | 4571.4 | 4440.6 | 4539.2 | 4655.0 | 4423.5 |
| 17.5° | 6805.7 | 6503.3 | 5975.9 | 5373.3 | 4785.8 | 4350.6 | 4294.8 | 4550.0 | 4818.0 | 4807.3 |
| 20° | 6964.3 | 6664.1 | 6080.9 | 5360.5 | 4571.4 | 4082.5 | 4131.8 | 4457.8 | 4768.7 | 4899.5 |
| 22.5° | 7146.6 | 6829.2 | 6181.7 | 5311.2 | 4292.7 | 3831.7 | 3986.0 | 4312.0 | 4584.3 | 4738.7 |
| 25° | 7369.6 | 7037.2 | 6323.2 | 5238.2 | 3992.5 | 3623.7 | 3838.1 | 4142.6 | 4363.4 | 4470.6 |
| 27.5° | 7609.7 | 7285.9 | 6511.9 | 5199.7 | 3750.2 | 3475.7 | 3670.8 | 3941.0 | 4138.3 | 4213.3 |
| 30° | 7907.8 | 7575.4 | 6734.9 | 5156.8 | 3591.5 | 3390.0 | 3497.2 | 3707.3 | 3900.3 | 3975.3 |
| 32.5° | 8233.7 | 7897.0 | 6949.3 | 5053.8 | 3495.0 | 3325.6 | 3327.8 | 3460.7 | 3636.5 | 3726.6 |
| 35° | 8641.1 | 8283.0 | 7178.7 | 4828.7 | 3417.8 | 3250.6 | 3162.7 | 3227.0 | 3372.8 | 3480.0 |
| 37.5° | 9222.1 | 8789.0 | 7459.6 | 4507.1 | 3304.2 | 3134.8 | 2989.0 | 3004.0 | 3115.5 | 3233.4 |
| 40° | 10024.1 | 9468.7 | 7789.8 | 4172.6 | 3141.2 | 2971.8 | 2798.2 | 2791.7 | 2873.2 | 2989.0 |
| 42.5° | 11109.0 | 10367.1 | 8186.5 | 3853.1 | 2984.7 | 2774.6 | 2596.6 | 2585.9 | 2650.2 | 2751.0 |
| 45° | 12541.4 | 11516.4 | 8673.2 | 3578.6 | 2862.5 | 2581.6 | 2405.8 | 2401.5 | 2455.1 | 2543.0 |
| 47.5° | 14374.6 | 13113.8 | 9160.0 | 3392.1 | 2798.2 | 2429.4 | 2249.3 | 2257.8 | 2305.0 | 2384.3 |
| 50° | 16748.2 | 15195.9 | 9307.9 | 3297.8 | 2798.2 | 2347.9 | 2109.9 | 2152.8 | 2191.4 | 2251.4 |
| 52.5° | 19593.6 | 17194.2 | 8819.0 | 3212.0 | 2815.3 | 2358.6 | 1992.0 | 2084.2 | 2112.0 | 2163.5 |
| 55° | 22230.9 | 18174.1 | 7581.8 | 3094.1 | 2819.6 | 2425.1 | 1891.2 | 2028.4 | 2079.9 | 2099.2 |
| 57.5° | 23761.9 | 17837.5 | 6130.2 | 2894.7 | 2802.5 | 2470.1 | 1826.8 | 1959.8 | 2058.4 | 2071.3 |
| 60° | 23470.3 | 16656.0 | 4513.5 | 2742.4 | 2675.9 | 2453.0 | 1807.5 | 1854.7 | 2011.2 | 2030.5 |
| 62.5° | 21223.2 | 14674.8 | 3132.7 | 2624.5 | 2397.2 | 2377.9 | 1801.1 | 1689.6 | 1908.3 | 1955.5 |
| 65° | 17059.2 | 11552.9 | 2212.8 | 2260.0 | 2101.3 | 2214.9 | 1766.8 | 1518.1 | 1784.0 | 1848.3 |
| 67.5° | 12376.2 | 7817.7 | 1597.4 | 1831.1 | 1904.0 | 1951.2 | 1689.6 | 1393.7 | 1642.4 | 1728.2 |
| 70° | 7942.1 | 4221.9 | 1121.4 | 1209.3 | 1603.9 | 1657.5 | 1556.7 | 1282.2 | 1498.8 | 1597.4 |
| 72.5° | 5645.6 | 2493.7 | 806.2 | 847.0 | 1288.7 | 1380.9 | 1370.1 | 1157.9 | 1331.5 | 1451.6 |
| 75° | 3896.0 | 1374.4 | 544.6 | 604.7 | 934.9 | 1121.4 | 1057.1 | 994.9 | 1127.8 | 1250.1 |
| 77.5° | 2442.2 | 615.4 | 325.9 | 420.3 | 613.2 | 881.3 | 724.7 | 769.8 | 879.1 | 992.8 |
| 80° | 1359.4 | 238.0 | 182.3 | 278.7 | 334.5 | 641.1 | 401.0 | 495.3 | 647.5 | 729.0 |
| 82.5° | 295.9 | 30.0 | 81.5 | 120.1 | 130.8 | 373.1 | 212.3 | 287.3 | 407.4 | 401.0 |
| 85° | 0.0 | 0.0 | 15.0 | 17.2 | 8.6 | 160.8 | 77.2 | 94.3 | 132.9 | 124.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P950259
 CATALOG NUMBER: GALN-SB4D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4309.8 | 0° | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 |
| 3876.7 | 2.5° | 3859.5 | 3754.5 | 3677.3 | 3638.7 | 3606.5 | 3636.5 | 3653.7 | 3653.7 | 3726.6 | 3769.5 |
| 3572.2 | 5° | 3497.2 | 3308.5 | 3164.8 | 3068.3 | 3010.4 | 3029.7 | 3051.2 | 3074.8 | 3167.0 | 3229.1 |
| 3392.1 | 7.5° | 3246.3 | 2956.8 | 2738.1 | 2603.0 | 2532.3 | 2543.0 | 2558.0 | 2577.3 | 2667.4 | 2729.6 |
| 3417.8 | 10° | 3199.1 | 2783.2 | 2474.4 | 2296.4 | 2210.7 | 2195.6 | 2187.1 | 2180.6 | 2234.2 | 2281.4 |
| 3709.4 | 12.5° | 3392.1 | 2791.7 | 2360.8 | 2144.2 | 2039.1 | 1994.1 | 1942.6 | 1901.9 | 1910.5 | 1940.5 |
| 4151.1 | 15° | 3737.3 | 2901.1 | 2324.3 | 2064.9 | 1934.1 | 1859.0 | 1799.0 | 1749.7 | 1738.9 | 1749.7 |
| 4537.1 | 17.5° | 4131.8 | 3049.0 | 2320.0 | 1996.2 | 1833.3 | 1756.1 | 1706.8 | 1661.7 | 1646.7 | 1648.9 |
| 4753.7 | 20° | 4393.4 | 3167.0 | 2307.1 | 1919.0 | 1736.8 | 1668.2 | 1625.3 | 1580.3 | 1565.3 | 1569.5 |
| 4693.6 | 22.5° | 4419.2 | 3229.1 | 2287.8 | 1833.3 | 1640.3 | 1582.4 | 1539.5 | 1498.8 | 1496.6 | 1496.6 |
| 4468.5 | 25° | 4279.8 | 3229.1 | 2247.1 | 1756.1 | 1548.1 | 1496.6 | 1458.0 | 1408.7 | 1417.3 | 1421.6 |
| 4213.3 | 27.5° | 4063.2 | 3152.0 | 2169.9 | 1693.9 | 1468.8 | 1415.2 | 1376.6 | 1331.5 | 1342.3 | 1348.7 |
| 3975.3 | 30° | 3848.8 | 3053.3 | 2077.7 | 1623.1 | 1393.7 | 1331.5 | 1303.7 | 1265.1 | 1269.4 | 1277.9 |
| 3739.5 | 32.5° | 3649.4 | 2948.3 | 1968.4 | 1565.3 | 1318.7 | 1256.5 | 1235.1 | 1192.2 | 1198.6 | 1207.2 |
| 3507.9 | 35° | 3452.1 | 2832.5 | 1839.7 | 1496.6 | 1250.1 | 1187.9 | 1170.7 | 1121.4 | 1125.7 | 1138.6 |
| 3276.3 | 37.5° | 3239.9 | 2710.3 | 1734.6 | 1428.0 | 1183.6 | 1119.3 | 1102.1 | 1050.7 | 1054.9 | 1069.9 |
| 3036.2 | 40° | 3016.9 | 2590.2 | 1631.7 | 1355.1 | 1112.8 | 1048.5 | 1033.5 | 977.7 | 982.0 | 999.2 |
| 2800.3 | 42.5° | 2791.7 | 2459.4 | 1552.4 | 1260.8 | 1039.9 | 971.3 | 956.3 | 904.8 | 911.3 | 930.6 |
| 2594.5 | 45° | 2583.7 | 2302.9 | 1500.9 | 1155.7 | 971.3 | 894.1 | 879.1 | 831.9 | 844.8 | 866.3 |
| 2420.8 | 47.5° | 2405.8 | 2142.0 | 1479.5 | 1067.8 | 898.4 | 814.8 | 801.9 | 763.3 | 784.8 | 808.4 |
| 2272.8 | 50° | 2253.5 | 1987.7 | 1451.6 | 977.7 | 829.8 | 746.2 | 733.3 | 707.6 | 735.5 | 759.0 |
| 2172.1 | 52.5° | 2144.2 | 1811.8 | 1391.6 | 896.3 | 769.8 | 688.3 | 684.0 | 671.1 | 696.9 | 718.3 |
| 2097.0 | 55° | 2049.8 | 1629.6 | 1295.1 | 825.5 | 716.2 | 639.0 | 643.3 | 636.8 | 658.3 | 675.4 |
| 2052.0 | 57.5° | 1964.1 | 1470.9 | 1172.9 | 769.8 | 658.3 | 596.1 | 608.9 | 600.4 | 611.1 | 621.8 |
| 2004.8 | 60° | 1861.2 | 1310.1 | 1027.1 | 707.6 | 589.7 | 553.2 | 568.2 | 544.6 | 542.5 | 546.8 |
| 1919.0 | 62.5° | 1708.9 | 1093.5 | 874.8 | 630.4 | 529.6 | 506.0 | 512.5 | 467.4 | 433.1 | 433.1 |
| 1792.5 | 65° | 1496.6 | 879.1 | 733.3 | 544.6 | 461.0 | 441.7 | 437.4 | 373.1 | 325.9 | 321.6 |
| 1655.3 | 67.5° | 1250.1 | 722.6 | 608.9 | 458.9 | 383.8 | 370.9 | 375.2 | 328.1 | 280.9 | 276.6 |
| 1518.1 | 70° | 1018.5 | 598.2 | 491.0 | 366.7 | 295.9 | 308.8 | 328.1 | 280.9 | 235.9 | 229.4 |
| 1357.3 | 72.5° | 827.7 | 476.0 | 383.8 | 280.9 | 218.7 | 255.2 | 278.7 | 229.4 | 186.5 | 182.3 |
| 1157.9 | 75° | 639.0 | 349.5 | 274.5 | 190.8 | 158.7 | 197.3 | 218.7 | 167.2 | 132.9 | 126.5 |
| 896.3 | 77.5° | 426.7 | 216.6 | 154.4 | 120.1 | 94.3 | 135.1 | 145.8 | 87.9 | 77.2 | 75.0 |
| 651.8 | 80° | 259.4 | 100.8 | 66.5 | 57.9 | 32.2 | 49.3 | 57.9 | 36.5 | 40.7 | 42.9 |
| 347.4 | 82.5° | 130.8 | 27.9 | 10.7 | 2.1 | 0.0 | 0.0 | 17.2 | 8.6 | 17.2 | 21.4 |
| 94.3 | 85° | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 10.7 |
| 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 |

REPORT NUMBER: P950259
 CATALOG NUMBER: GALN-SB4D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| 185° | | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 4309.8 | 0° | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 |
| 3786.6 | 2.5° | 3906.7 | 3996.8 | 4082.5 | 4219.8 | 4361.3 | 4500.6 | 4642.2 | 4779.4 | 4828.7 | 4865.2 |
| 3269.9 | 5° | 3456.4 | 3625.8 | 3823.1 | 4095.4 | 4387.0 | 4687.2 | 4991.7 | 5270.4 | 5396.9 | 5482.7 |
| 2783.2 | 7.5° | 2991.1 | 3212.0 | 3495.0 | 3904.6 | 4361.3 | 4839.4 | 5317.6 | 5757.1 | 5960.8 | 6125.9 |
| 2324.3 | 10° | 2530.1 | 2770.3 | 3128.4 | 3595.8 | 4213.3 | 4899.5 | 5559.9 | 6164.5 | 6428.3 | 6636.3 |
| 1994.1 | 12.5° | 2124.9 | 2350.0 | 2725.3 | 3242.0 | 3981.8 | 4852.3 | 5699.2 | 6426.1 | 6737.0 | 6970.8 |
| 1758.2 | 15° | 1839.7 | 1998.4 | 2330.7 | 2888.2 | 3707.3 | 4700.1 | 5707.8 | 6550.5 | 6891.4 | 7135.9 |
| 1659.6 | 17.5° | 1681.0 | 1734.6 | 1951.2 | 2528.0 | 3402.8 | 4500.6 | 5628.5 | 6593.4 | 6957.9 | 7185.2 |
| 1571.7 | 20° | 1595.3 | 1603.9 | 1663.9 | 2060.6 | 3012.6 | 4314.1 | 5553.4 | 6636.3 | 7020.1 | 7210.9 |
| 1509.5 | 22.5° | 1526.7 | 1526.7 | 1541.7 | 1685.3 | 2508.7 | 4091.1 | 5529.9 | 6711.3 | 7105.8 | 7223.8 |
| 1438.7 | 25° | 1464.5 | 1464.5 | 1468.8 | 1507.4 | 1987.7 | 3750.2 | 5514.8 | 6827.1 | 7223.8 | 7255.9 |
| 1368.0 | 27.5° | 1400.2 | 1402.3 | 1402.3 | 1423.7 | 1601.7 | 3287.0 | 5450.5 | 6977.2 | 7365.3 | 7298.8 |
| 1299.4 | 30° | 1335.8 | 1340.1 | 1340.1 | 1355.1 | 1417.3 | 2744.6 | 5324.0 | 7157.3 | 7549.7 | 7354.6 |
| 1230.8 | 32.5° | 1271.5 | 1275.8 | 1275.8 | 1288.7 | 1333.7 | 2191.4 | 5165.3 | 7322.4 | 7736.2 | 7378.1 |
| 1164.3 | 35° | 1205.0 | 1211.5 | 1207.2 | 1224.3 | 1271.5 | 1743.2 | 4963.8 | 7487.5 | 7937.8 | 7453.2 |
| 1100.0 | 37.5° | 1138.6 | 1142.9 | 1140.7 | 1157.9 | 1211.5 | 1505.2 | 4730.1 | 7611.9 | 8212.2 | 7620.4 |
| 1031.4 | 40° | 1072.1 | 1069.9 | 1069.9 | 1089.2 | 1147.1 | 1436.6 | 4436.3 | 7809.1 | 8606.8 | 7914.2 |
| 962.7 | 42.5° | 1003.5 | 1003.5 | 999.2 | 1020.6 | 1091.4 | 1385.1 | 4155.4 | 8162.9 | 9181.4 | 8381.6 |
| 898.4 | 45° | 941.3 | 939.2 | 930.6 | 949.9 | 1037.8 | 1295.1 | 4056.8 | 8823.3 | 10030.5 | 9138.5 |
| 834.1 | 47.5° | 881.3 | 879.1 | 857.7 | 874.8 | 973.5 | 1213.6 | 4425.6 | 9904.0 | 11207.7 | 10251.4 |
| 782.6 | 50° | 827.7 | 829.8 | 789.1 | 804.1 | 909.1 | 1151.4 | 5225.4 | 11306.3 | 12770.8 | 11750.1 |
| 739.7 | 52.5° | 778.3 | 778.3 | 724.7 | 733.3 | 829.8 | 1095.7 | 5986.6 | 12826.5 | 14833.5 | 13840.7 |
| 694.7 | 55° | 729.0 | 724.7 | 664.7 | 669.0 | 750.5 | 1016.3 | 6100.2 | 14310.3 | 17646.7 | 16986.3 |
| 645.4 | 57.5° | 673.3 | 664.7 | 608.9 | 608.9 | 677.6 | 958.5 | 5287.6 | 15451.0 | 21137.4 | 21609.1 |
| 553.2 | 60° | 604.7 | 598.2 | 561.8 | 551.1 | 619.7 | 1009.9 | 3730.9 | 15584.0 | 23388.8 | 27756.5 |
| 439.6 | 62.5° | 516.7 | 525.3 | 506.0 | 491.0 | 563.9 | 1048.5 | 2210.7 | 14514.0 | 22844.2 | 29712.0 |
| 340.9 | 65° | 407.4 | 441.7 | 437.4 | 426.7 | 619.7 | 883.4 | 1305.8 | 12459.9 | 21173.9 | 28133.9 |
| 298.0 | 67.5° | 347.4 | 370.9 | 364.5 | 364.5 | 649.7 | 671.1 | 821.2 | 9734.6 | 18875.3 | 26262.0 |
| 248.7 | 70° | 295.9 | 319.5 | 295.9 | 295.9 | 491.0 | 407.4 | 568.2 | 6797.1 | 16394.5 | 24190.7 |
| 199.4 | 72.5° | 244.4 | 268.0 | 242.3 | 225.1 | 392.4 | 304.5 | 416.0 | 4247.6 | 14040.1 | 22033.7 |
| 141.5 | 75° | 186.5 | 214.4 | 195.1 | 173.7 | 259.4 | 227.3 | 315.2 | 2468.0 | 11632.2 | 18851.7 |
| 85.8 | 77.5° | 117.9 | 154.4 | 145.8 | 122.2 | 190.8 | 165.1 | 227.3 | 1468.8 | 8975.6 | 14730.6 |
| 51.5 | 80° | 72.9 | 79.3 | 81.5 | 77.2 | 109.4 | 111.5 | 154.4 | 836.2 | 6143.1 | 10266.4 |
| 32.2 | 82.5° | 47.2 | 47.2 | 36.5 | 40.7 | 53.6 | 64.3 | 87.9 | 315.2 | 3610.8 | 6250.3 |
| 19.3 | 85° | 34.3 | 30.0 | 19.3 | 19.3 | 25.7 | 32.2 | 34.3 | 96.5 | 1464.5 | 2468.0 |
| 8.6 | 87.5° | 17.2 | 15.0 | 6.4 | 8.6 | 12.9 | 10.7 | 8.6 | 4.3 | 368.8 | 789.1 |
| 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: P950259
 CATALOG NUMBER: GALN-SB4D-735-U-SLR-HSS

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| 4309.8 | 0° | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 | 4309.8 |
| 4946.6 | 2.5° | 4989.5 | 5056.0 | 5060.3 | 5060.3 | 5002.4 | 5000.2 | 4882.3 | 4869.4 |
| 5675.7 | 5° | 5875.1 | 5918.0 | 5928.7 | 5907.2 | 5791.5 | 5705.7 | 5476.3 | 5426.9 |
| 6419.7 | 7.5° | 6685.6 | 6771.3 | 6771.3 | 6719.9 | 6531.2 | 6355.4 | 6023.0 | 5898.7 |
| 7035.1 | 10° | 7333.1 | 7431.8 | 7410.3 | 7305.2 | 7067.2 | 6824.9 | 6421.8 | 6258.9 |
| 7408.2 | 12.5° | 7648.3 | 7749.1 | 7693.3 | 7573.3 | 7341.7 | 7086.5 | 6662.0 | 6477.6 |
| 7515.4 | 15° | 7641.9 | 7614.0 | 7556.1 | 7541.1 | 7429.6 | 7236.6 | 6840.0 | 6638.4 |
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| 7290.2 | 20° | 6938.6 | 6526.9 | 6486.2 | 6773.5 | 7176.6 | 7382.4 | 7138.0 | 6964.3 |
| 7060.8 | 22.5° | 6484.0 | 6040.2 | 5945.8 | 6263.2 | 6870.0 | 7397.4 | 7320.3 | 7146.6 |
| 6807.8 | 25° | 6053.0 | 5607.0 | 5512.7 | 5808.6 | 6529.1 | 7371.7 | 7517.5 | 7369.6 |
| 6565.5 | 27.5° | 5692.8 | 5261.8 | 5173.9 | 5469.8 | 6201.0 | 7298.8 | 7714.8 | 7609.7 |
| 6325.4 | 30° | 5414.1 | 5015.3 | 4950.9 | 5236.1 | 5918.0 | 7208.8 | 7965.7 | 7907.8 |
| 6102.4 | 32.5° | 5251.1 | 4959.5 | 4983.1 | 5216.8 | 5765.7 | 7110.1 | 8205.8 | 8233.7 |
| 5993.0 | 35° | 5411.9 | 5424.8 | 5630.6 | 5727.1 | 5907.2 | 7095.1 | 8531.7 | 8641.1 |
| 6123.8 | 37.5° | 6211.7 | 6657.7 | 7084.4 | 7005.1 | 6599.8 | 7268.8 | 9018.5 | 9222.1 |
| 6694.2 | 40° | 7573.3 | 8488.8 | 9181.4 | 8879.1 | 7858.4 | 7800.6 | 9719.6 | 10024.1 |
| 7706.2 | 42.5° | 9237.2 | 10789.6 | 11930.3 | 11119.8 | 9481.6 | 8731.1 | 10720.9 | 11109.0 |
| 8930.5 | 45° | 10993.2 | 13626.3 | 15423.1 | 13737.8 | 11212.0 | 10034.8 | 12236.9 | 12541.4 |
| 10077.7 | 47.5° | 12843.7 | 17074.2 | 19398.5 | 16641.0 | 12815.8 | 11518.6 | 14303.9 | 14374.6 |
| 11164.8 | 50° | 14867.8 | 20854.4 | 23451.0 | 19542.1 | 14363.9 | 13218.9 | 16829.7 | 16748.2 |
| 12432.0 | 52.5° | 16795.4 | 24741.8 | 27417.7 | 22456.1 | 15723.3 | 15328.8 | 19760.8 | 19593.6 |
| 14164.5 | 55° | 18635.1 | 28627.0 | 31408.1 | 25256.4 | 17005.5 | 18116.2 | 23243.0 | 22230.9 |
| 16662.5 | 57.5° | 20768.6 | 32119.9 | 35520.6 | 28069.6 | 18798.1 | 21735.6 | 27136.8 | 23761.9 |
| 21446.2 | 60° | 23922.7 | 36088.8 | 40171.4 | 31924.8 | 22207.3 | 25539.4 | 28532.7 | 23470.3 |
| 27175.4 | 62.5° | 27949.5 | 39738.2 | 43552.7 | 35702.9 | 25631.6 | 26255.6 | 26476.4 | 21223.2 |
| 26006.8 | 65° | 28732.1 | 40662.4 | 43743.6 | 36712.8 | 25189.9 | 22271.7 | 21615.6 | 17059.2 |
| 23230.1 | 67.5° | 26656.5 | 38992.0 | 41076.2 | 34832.3 | 22282.4 | 17211.4 | 16220.8 | 12376.2 |
| 21407.6 | 70° | 24327.9 | 35807.9 | 36427.6 | 31635.3 | 19597.9 | 12659.3 | 10954.7 | 7942.1 |
| 20159.6 | 72.5° | 21941.5 | 31560.3 | 30278.1 | 27473.5 | 17224.3 | 9217.9 | 7901.3 | 5645.6 |
| 18382.1 | 75° | 19106.9 | 25974.7 | 23849.8 | 22827.0 | 14261.0 | 7234.5 | 5716.4 | 3896.0 |
| 15811.2 | 77.5° | 15300.9 | 18283.5 | 17715.3 | 17693.8 | 10716.6 | 5285.4 | 3814.5 | 2442.2 |
| 12352.7 | 80° | 10793.8 | 11865.9 | 11576.5 | 13326.1 | 7189.5 | 3833.8 | 2296.4 | 1359.4 |
| 8598.2 | 82.5° | 5225.4 | 6561.2 | 6734.9 | 7935.6 | 3497.2 | 2255.7 | 529.6 | 295.9 |
| 3362.1 | 85° | 2045.6 | 3164.8 | 2669.5 | 3012.6 | 982.0 | 628.2 | 12.9 | 0.0 |
| 553.2 | 87.5° | 229.4 | 366.7 | 336.6 | 265.9 | 120.1 | 25.7 | 0.0 | 0.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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