

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: P946398

Luminaire Tested: **GALN-SB2A-760-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-760-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9667 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

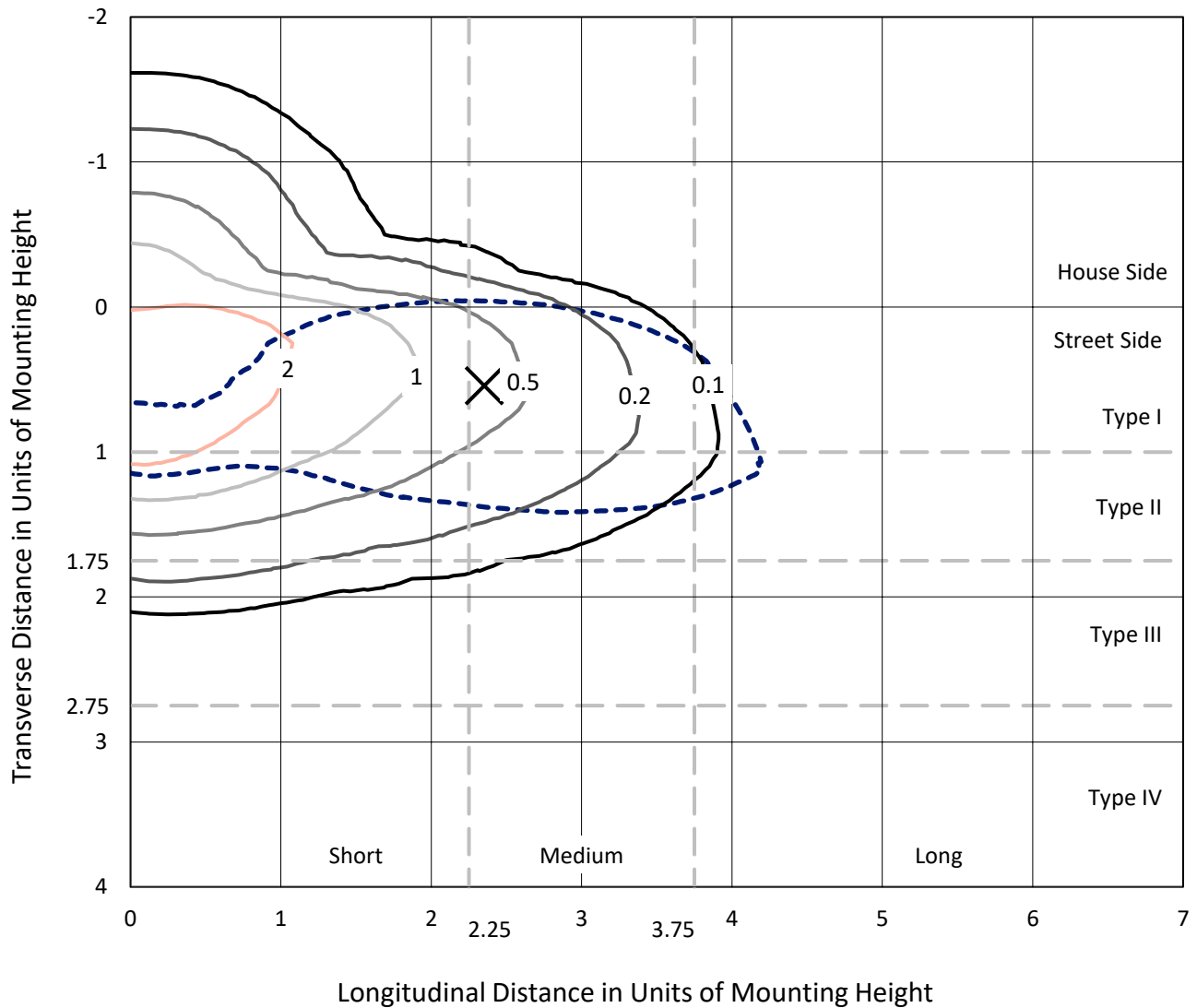
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

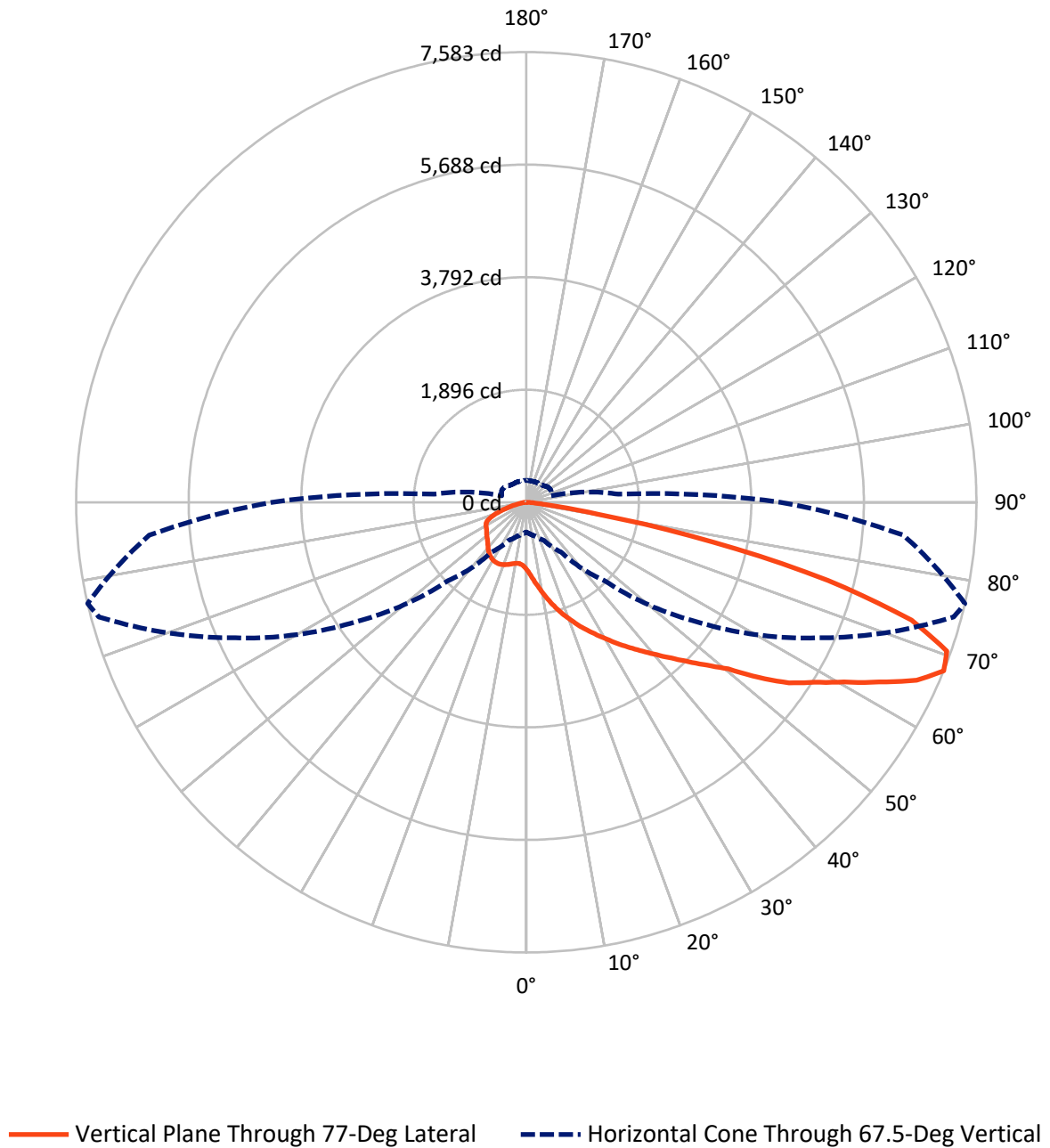
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1828.6 | 0.0 | 1828.6 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 7838.4 | 0.0 | 7838.4 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 9667.0 | 0.0 | 9667.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.6 | 1.3 |
| 10°-20° | 436.8 | 4.5 |
| 20°-30° | 824.7 | 8.5 |
| 30°-40° | 1328.5 | 13.7 |
| 40°-50° | 1817.2 | 18.8 |
| 50°-60° | 2049.8 | 21.2 |
| 60°-70° | 1913.2 | 19.8 |
| 70°-80° | 1048.8 | 10.8 |
| 80°-90° | 126.5 | 1.3 |
| 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° | 9667.0 | 100.0 |
| 0°-180° | 9667.0 | 100.0 |

Coefficient of Utilization



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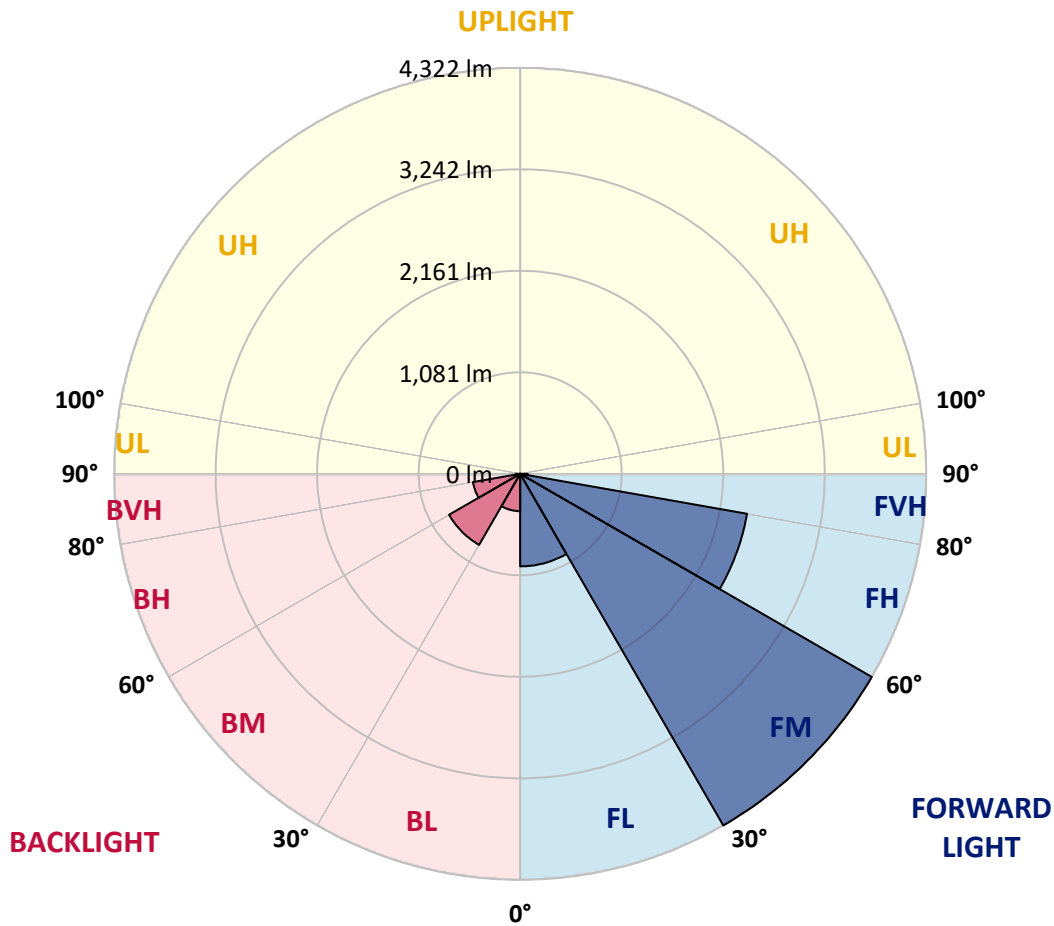
CATALOG NUMBER: GALN-SB2A-760-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 985.4 | 10.2 | | | |
| FM (30°-60°) | 4322.0 | 44.7 | | | |
| FH (60°-80°) | 2451.8 | 25.4 | | | G2/5000 |
| FVH (80°-90°) | 79.1 | 0.8 | | | G1/100 |
| BL (0°-30°) | 397.6 | 4.1 | B1/500 | | |
| BM (30°-60°) | 873.5 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 510.2 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 47.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 |
| 2.5° | 1420.2 | 1430.1 | 1417.7 | 1417.7 | 1375.8 | 1353.8 | 1311.9 | 1279.9 | 1222.6 | 1212.6 |
| 5° | 1678.7 | 1691.1 | 1673.7 | 1666.2 | 1616.8 | 1571.4 | 1501.0 | 1431.6 | 1329.4 | 1318.9 |
| 7.5° | 1878.8 | 1894.7 | 1879.3 | 1871.3 | 1827.4 | 1776.5 | 1694.1 | 1597.3 | 1453.1 | 1432.6 |
| 10° | 2041.9 | 2044.4 | 2039.4 | 2042.4 | 2008.0 | 1966.1 | 1881.7 | 1769.0 | 1588.8 | 1560.9 |
| 12.5° | 2134.2 | 2145.7 | 2155.7 | 2173.7 | 2167.7 | 2141.7 | 2065.9 | 1931.2 | 1732.5 | 1696.6 |
| 15° | 2177.7 | 2197.6 | 2220.1 | 2261.5 | 2294.9 | 2301.4 | 2243.5 | 2105.3 | 1878.8 | 1835.3 |
| 17.5° | 2193.1 | 2212.1 | 2247.5 | 2307.4 | 2379.3 | 2427.7 | 2401.7 | 2274.5 | 2023.5 | 1973.6 |
| 20° | 2271.5 | 2277.0 | 2298.4 | 2355.3 | 2433.2 | 2513.5 | 2533.0 | 2437.1 | 2166.7 | 2110.3 |
| 22.5° | 2439.1 | 2428.2 | 2434.1 | 2460.1 | 2516.0 | 2593.8 | 2638.2 | 2580.9 | 2313.9 | 2249.0 |
| 25° | 2716.1 | 2684.2 | 2652.2 | 2622.3 | 2650.7 | 2694.6 | 2745.0 | 2724.6 | 2468.1 | 2385.7 |
| 27.5° | 3065.9 | 3027.0 | 2956.6 | 2858.3 | 2823.9 | 2839.3 | 2861.8 | 2857.8 | 2610.8 | 2527.5 |
| 30° | 3410.2 | 3364.8 | 3281.0 | 3138.7 | 3047.9 | 3007.0 | 2990.0 | 2978.6 | 2766.0 | 2677.2 |
| 32.5° | 3685.2 | 3649.2 | 3566.9 | 3407.7 | 3276.0 | 3206.1 | 3149.7 | 3108.8 | 2928.2 | 2839.3 |
| 35° | 3925.7 | 3892.2 | 3797.9 | 3624.3 | 3481.1 | 3406.7 | 3332.9 | 3245.5 | 3096.8 | 3007.0 |
| 37.5° | 4145.2 | 4111.8 | 3982.6 | 3801.9 | 3657.7 | 3606.3 | 3540.4 | 3392.2 | 3266.0 | 3181.2 |
| 40° | 4284.0 | 4276.5 | 4155.7 | 3951.1 | 3801.4 | 3776.0 | 3754.0 | 3562.4 | 3453.6 | 3374.8 |
| 42.5° | 4319.4 | 4335.9 | 4240.0 | 4071.9 | 3929.2 | 3908.7 | 3960.1 | 3755.0 | 3664.2 | 3588.8 |
| 45° | 4234.1 | 4281.5 | 4218.6 | 4104.3 | 4020.0 | 4009.0 | 4142.7 | 3965.6 | 3897.2 | 3828.4 |
| 47.5° | 4018.0 | 4098.3 | 4072.4 | 4056.4 | 4044.4 | 4091.8 | 4303.4 | 4189.2 | 4161.2 | 4101.3 |
| 50° | 3581.9 | 3734.1 | 3779.5 | 3880.3 | 3996.0 | 4156.2 | 4449.6 | 4433.2 | 4469.6 | 4409.2 |
| 52.5° | 2827.9 | 3037.4 | 3300.9 | 3553.4 | 3847.3 | 4134.8 | 4610.3 | 4783.5 | 4937.2 | 4904.2 |
| 55° | 2334.3 | 2428.7 | 2631.3 | 3094.3 | 3558.9 | 4044.4 | 4682.7 | 5066.4 | 5401.2 | 5371.8 |
| 57.5° | 1955.1 | 2039.4 | 2164.2 | 2550.9 | 3122.8 | 3839.3 | 4727.6 | 5239.1 | 5719.1 | 5716.1 |
| 60° | 1548.4 | 1637.7 | 1765.5 | 2039.4 | 2613.3 | 3485.1 | 4717.6 | 5435.7 | 6124.8 | 6149.7 |
| 62.5° | 1089.3 | 1187.6 | 1329.4 | 1584.8 | 2092.8 | 3026.0 | 4514.0 | 5577.9 | 6602.3 | 6670.2 |
| 65° | 716.1 | 780.9 | 887.7 | 1108.3 | 1559.4 | 2435.6 | 4125.3 | 5596.3 | 7113.3 | 7228.1 |
| 67.5° | 502.0 | 526.9 | 589.8 | 709.6 | 1028.0 | 1867.8 | 3506.0 | 5405.2 | 7454.1 | 7583.4 |
| 70° | 391.7 | 404.2 | 436.1 | 484.0 | 645.7 | 1256.0 | 2686.6 | 4908.2 | 7381.3 | 7516.0 |
| 72.5° | 338.3 | 350.3 | 362.3 | 368.3 | 433.1 | 775.5 | 1819.9 | 4103.8 | 6695.2 | 6786.5 |
| 75° | 306.9 | 309.9 | 319.9 | 317.9 | 330.3 | 503.0 | 1050.4 | 2990.0 | 5282.5 | 5251.0 |
| 77.5° | 258.0 | 262.0 | 278.4 | 276.0 | 293.4 | 343.8 | 545.4 | 1929.7 | 3424.7 | 3211.1 |
| 80° | 218.6 | 220.6 | 238.5 | 235.5 | 255.0 | 249.0 | 278.4 | 983.5 | 1452.6 | 1230.5 |
| 82.5° | 75.8 | 93.8 | 182.1 | 187.6 | 194.6 | 150.7 | 160.7 | 401.2 | 443.6 | 339.8 |
| 85° | 36.9 | 39.4 | 92.8 | 131.7 | 131.2 | 75.8 | 78.3 | 143.2 | 139.7 | 109.8 |
| 87.5° | 6.0 | 7.5 | 11.0 | 51.4 | 40.9 | 20.0 | 26.9 | 27.9 | 28.9 | 25.0 |
| 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-SB2A-760-U-T2R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1134.2 | 0° | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 | 1134.2 |
| 1174.7 | 2.5° | 1146.7 | 1121.8 | 1069.4 | 1021.0 | 983.0 | 946.6 | 926.2 | 908.7 | 898.7 | 896.7 |
| 1229.5 | 5° | 1177.7 | 1126.3 | 1030.9 | 950.6 | 898.2 | 859.3 | 838.8 | 825.9 | 819.4 | 815.4 |
| 1303.4 | 7.5° | 1222.1 | 1146.7 | 1011.0 | 919.7 | 864.8 | 836.8 | 826.4 | 824.4 | 823.9 | 824.4 |
| 1392.7 | 10° | 1283.4 | 1180.1 | 1009.0 | 912.2 | 866.3 | 850.8 | 850.3 | 850.8 | 852.8 | 853.3 |
| 1490.0 | 12.5° | 1349.8 | 1214.6 | 1017.0 | 918.7 | 885.2 | 876.8 | 875.3 | 874.8 | 876.3 | 877.3 |
| 1588.3 | 15° | 1422.2 | 1260.0 | 1030.4 | 932.6 | 906.2 | 897.2 | 895.7 | 892.7 | 892.2 | 891.7 |
| 1691.6 | 17.5° | 1496.5 | 1304.9 | 1045.4 | 947.6 | 919.7 | 907.2 | 901.7 | 894.7 | 889.2 | 887.7 |
| 1798.4 | 20° | 1571.9 | 1349.3 | 1055.9 | 955.1 | 920.7 | 903.2 | 892.2 | 880.2 | 870.8 | 865.3 |
| 1906.2 | 22.5° | 1652.2 | 1395.7 | 1062.4 | 953.1 | 911.7 | 887.7 | 867.8 | 853.8 | 839.3 | 829.8 |
| 2015.0 | 25° | 1730.6 | 1436.1 | 1061.9 | 942.6 | 894.2 | 863.8 | 838.3 | 820.4 | 800.4 | 790.4 |
| 2127.3 | 27.5° | 1805.9 | 1472.6 | 1049.4 | 924.2 | 869.3 | 835.3 | 804.9 | 783.4 | 764.0 | 754.5 |
| 2240.5 | 30° | 1883.7 | 1503.0 | 1029.9 | 897.2 | 839.8 | 802.4 | 769.0 | 750.5 | 733.0 | 724.1 |
| 2360.3 | 32.5° | 1961.1 | 1530.9 | 1002.5 | 863.8 | 805.9 | 770.0 | 737.0 | 720.1 | 709.6 | 709.6 |
| 2489.0 | 35° | 2042.9 | 1550.4 | 966.1 | 824.9 | 770.0 | 735.5 | 709.6 | 699.6 | 698.6 | 692.6 |
| 2625.3 | 37.5° | 2129.3 | 1562.9 | 921.7 | 784.9 | 734.5 | 702.1 | 694.1 | 682.1 | 672.2 | 659.2 |
| 2775.0 | 40° | 2220.1 | 1575.4 | 868.3 | 743.5 | 697.1 | 679.1 | 675.7 | 659.7 | 631.2 | 599.3 |
| 2944.6 | 42.5° | 2330.4 | 1583.8 | 812.9 | 702.1 | 657.7 | 651.7 | 656.7 | 629.2 | 583.8 | 559.9 |
| 3149.2 | 45° | 2458.1 | 1597.8 | 762.0 | 661.2 | 617.3 | 617.3 | 638.2 | 602.3 | 564.9 | 549.9 |
| 3382.8 | 47.5° | 2623.8 | 1630.3 | 714.6 | 616.3 | 579.8 | 589.8 | 597.3 | 569.9 | 548.9 | 530.4 |
| 3667.2 | 50° | 2863.3 | 1708.1 | 665.7 | 570.9 | 551.4 | 571.4 | 560.9 | 544.9 | 520.5 | 505.5 |
| 4119.3 | 52.5° | 3160.7 | 1754.0 | 622.3 | 529.9 | 526.9 | 546.9 | 531.9 | 517.0 | 498.5 | 478.5 |
| 4462.1 | 55° | 3363.3 | 1762.5 | 585.8 | 500.0 | 510.5 | 508.5 | 503.0 | 489.5 | 479.5 | 453.1 |
| 4800.4 | 57.5° | 3589.8 | 1779.5 | 555.9 | 482.0 | 500.0 | 478.0 | 476.1 | 464.6 | 451.6 | 433.6 |
| 5213.1 | 60° | 3860.8 | 1805.9 | 529.9 | 475.1 | 491.0 | 458.1 | 448.1 | 443.6 | 430.6 | 421.7 |
| 5709.6 | 62.5° | 4156.2 | 1829.9 | 503.5 | 476.1 | 480.5 | 438.6 | 423.7 | 422.2 | 414.2 | 411.2 |
| 6175.7 | 65° | 4357.8 | 1764.5 | 470.6 | 475.1 | 464.1 | 418.7 | 399.7 | 399.2 | 392.7 | 391.7 |
| 6377.8 | 67.5° | 4287.5 | 1557.4 | 426.2 | 461.1 | 447.1 | 398.7 | 377.7 | 375.8 | 367.3 | 367.8 |
| 6166.7 | 70° | 3935.2 | 1262.0 | 364.8 | 426.6 | 426.2 | 380.7 | 354.8 | 348.3 | 336.8 | 338.8 |
| 5361.8 | 72.5° | 3274.5 | 935.1 | 282.4 | 369.3 | 392.7 | 364.3 | 328.3 | 317.9 | 303.4 | 305.4 |
| 3958.1 | 75° | 2364.8 | 635.7 | 205.6 | 280.9 | 341.8 | 344.8 | 302.4 | 284.4 | 267.0 | 270.0 |
| 2203.1 | 77.5° | 1210.1 | 360.3 | 151.2 | 193.6 | 268.5 | 313.4 | 278.9 | 255.0 | 251.0 | 278.9 |
| 635.2 | 80° | 394.7 | 180.6 | 104.8 | 135.7 | 176.1 | 256.5 | 244.5 | 217.1 | 216.1 | 222.6 |
| 133.2 | 82.5° | 117.8 | 76.3 | 67.4 | 89.3 | 97.3 | 196.6 | 211.1 | 164.2 | 141.2 | 148.7 |
| 44.4 | 85° | 40.4 | 36.9 | 38.4 | 44.4 | 46.4 | 115.3 | 147.7 | 108.8 | 102.8 | 113.3 |
| 10.0 | 87.5° | 9.5 | 13.0 | 11.0 | 10.0 | 10.0 | 27.9 | 57.4 | 45.4 | 62.9 | 41.9 |
| 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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|--------|
| 180° |
| <hr/> |
| 1134.2 |
| 896.7 |
| 814.9 |
| 825.9 |
| 853.8 |
| 877.8 |
| 891.2 |
| 889.2 |
| 867.3 |
| 830.3 |
| 790.4 |
| 754.0 |
| 723.6 |
| 710.1 |
| 691.1 |
| 657.2 |
| 594.8 |
| 560.4 |
| 552.4 |
| 529.9 |
| 504.0 |
| 474.6 |
| 453.6 |
| 427.6 |
| 424.2 |
| 411.2 |
| 391.2 |
| 367.8 |
| 340.8 |
| 304.9 |
| 271.0 |
| 275.0 |
| 191.1 |
| 153.7 |
| 111.8 |
| 40.4 |
| 0.0 |

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