

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: P458618

Luminaire Tested: **GALN-SA1D-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7333 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

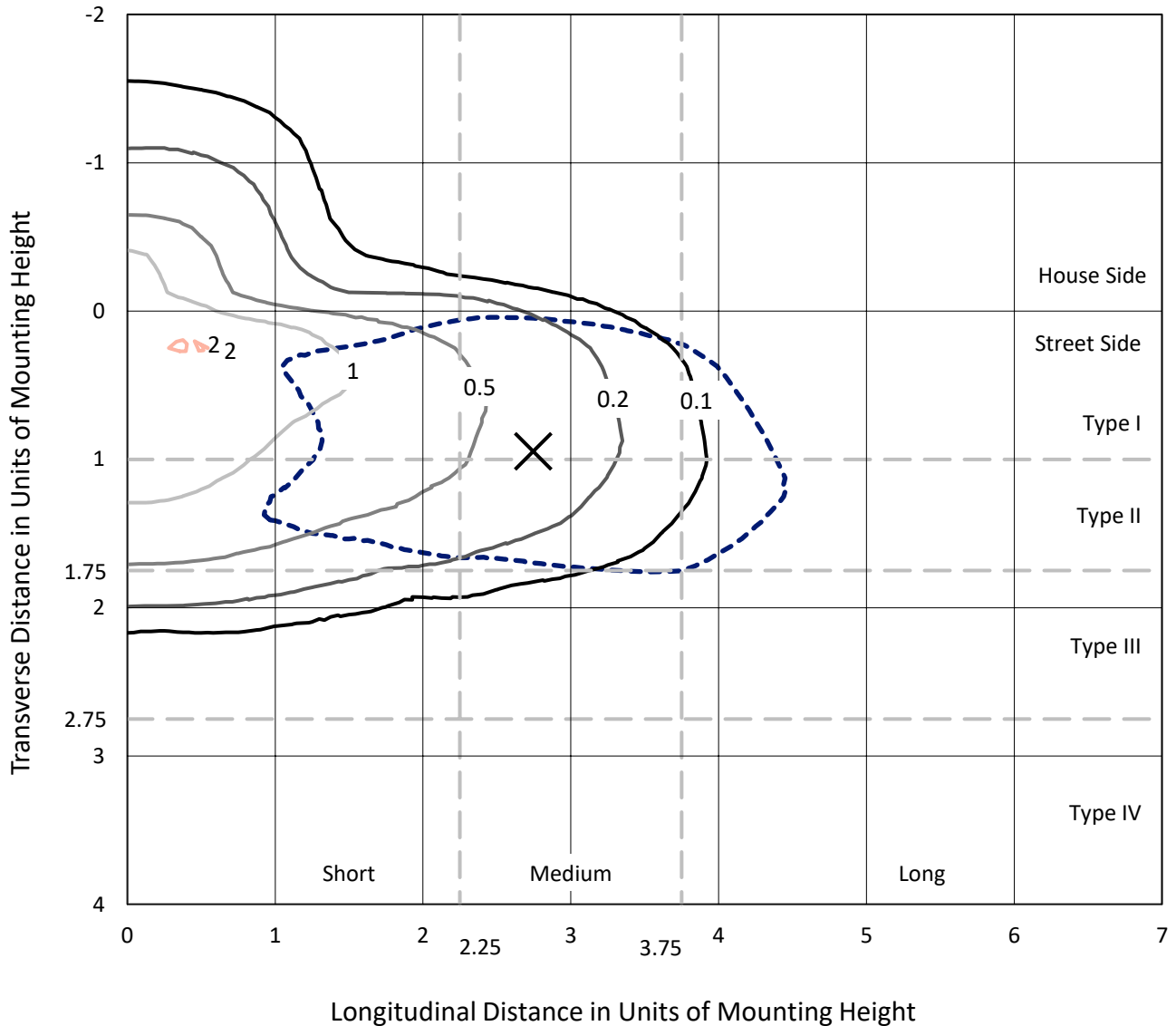
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458618
 CATALOG NUMBER: GALN-SA1D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

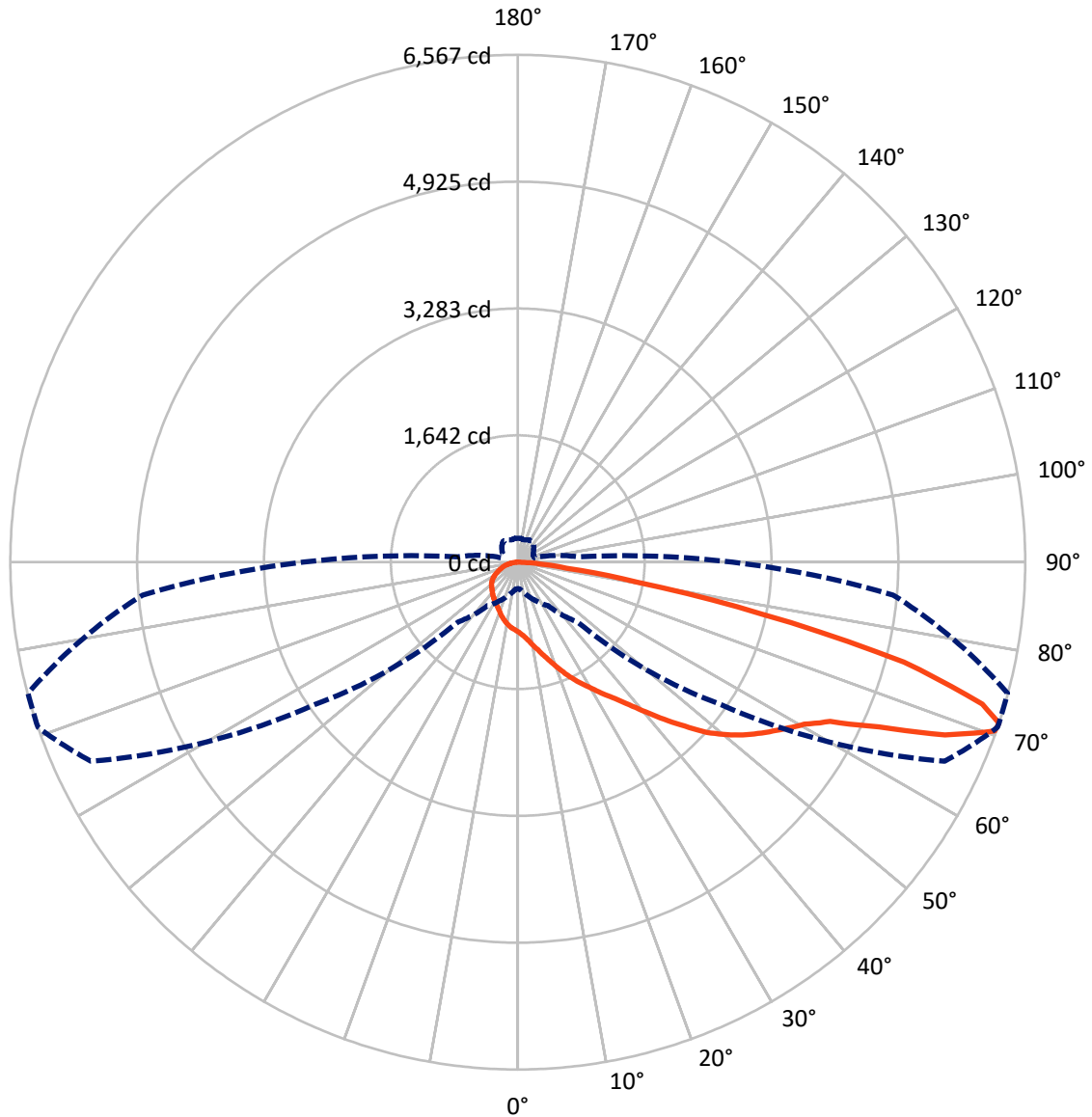
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

REPORT NUMBER: P458618
CATALOG NUMBER: GALN-SA1D-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P458618

CATALOG NUMBER: GALN-SA1D-735-U-T2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1318.8 | 0.0 | 1318.8 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 6014.2 | 0.0 | 6014.2 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 7333.0 | 0.0 | 7333.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.4 | 1.2 |
| 10°-20° | 293.6 | 4.0 |
| 20°-30° | 513.1 | 7.0 |
| 30°-40° | 763.1 | 10.4 |
| 40°-50° | 1124.4 | 15.3 |
| 50°-60° | 1574.1 | 21.5 |
| 60°-70° | 1760.6 | 24.0 |
| 70°-80° | 1075.4 | 14.7 |
| 80°-90° | 138.3 | 1.9 |
| 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° | 7333.0 | 100.0 |
| 0°-180° | 7333.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P458618

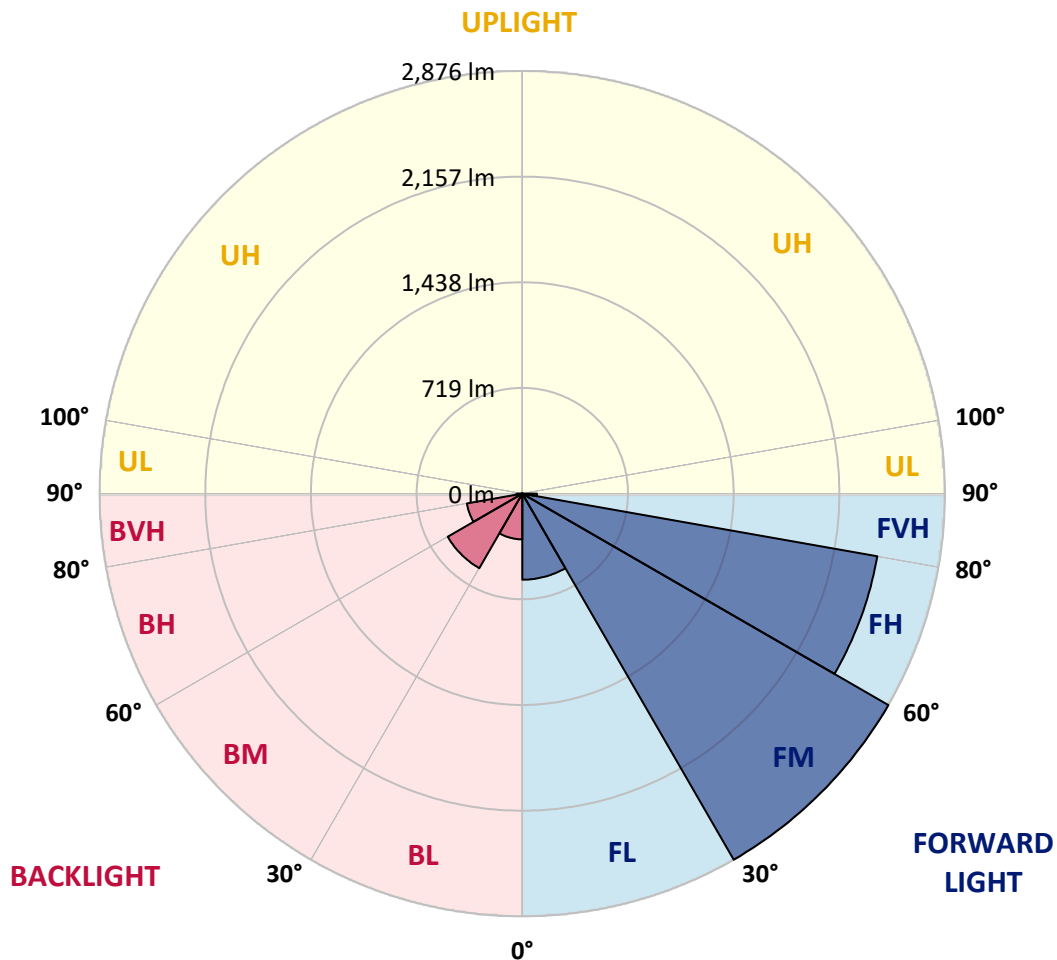
CATALOG NUMBER: GALN-SA1D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 585.9 | 8.0 | | | |
| FM (30°-60°) | 2875.9 | 39.2 | | | |
| FH (60°-80°) | 2452.9 | 33.4 | | | G2/5000 |
| FVH (80°-90°) | 99.5 | 1.4 | | | G1/100 |
| BL (0°-30°) | 311.1 | 4.2 | B1/500 | | |
| BM (30°-60°) | 585.7 | 8.0 | B1/1000 | | |
| BH (60°-80°) | 383.2 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 38.8 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P458618
 CATALOG NUMBER: GALN-SA1D-735-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 |
| 2.5° | 999.1 | 994.3 | 994.7 | 987.8 | 979.0 | 969.3 | 955.6 | 943.5 | 933.8 | 928.2 | 911.7 |
| 5° | 1107.1 | 1102.3 | 1096.3 | 1081.3 | 1074.9 | 1051.1 | 1020.9 | 993.5 | 972.5 | 960.8 | 927.8 |
| 7.5° | 1194.6 | 1193.4 | 1191.8 | 1183.3 | 1166.8 | 1133.7 | 1107.9 | 1060.4 | 1029.4 | 1007.2 | 950.8 |
| 10° | 1248.6 | 1250.6 | 1251.8 | 1253.4 | 1246.6 | 1229.3 | 1193.8 | 1133.7 | 1094.2 | 1066.0 | 980.6 |
| 12.5° | 1276.0 | 1278.0 | 1284.9 | 1299.8 | 1309.1 | 1307.0 | 1278.0 | 1219.2 | 1164.8 | 1127.7 | 1012.4 |
| 15° | 1292.9 | 1296.2 | 1308.3 | 1328.0 | 1359.0 | 1378.8 | 1364.7 | 1310.3 | 1250.6 | 1206.7 | 1050.3 |
| 17.5° | 1311.5 | 1315.1 | 1328.4 | 1356.6 | 1397.3 | 1440.1 | 1455.4 | 1408.6 | 1343.7 | 1291.3 | 1092.6 |
| 20° | 1322.0 | 1326.8 | 1345.7 | 1382.8 | 1430.4 | 1492.4 | 1543.2 | 1518.6 | 1447.7 | 1389.7 | 1141.4 |
| 22.5° | 1338.9 | 1342.9 | 1359.0 | 1398.5 | 1455.4 | 1533.2 | 1631.1 | 1625.9 | 1563.4 | 1488.4 | 1195.0 |
| 25° | 1384.8 | 1391.3 | 1399.3 | 1423.1 | 1477.9 | 1574.7 | 1704.0 | 1740.3 | 1675.4 | 1591.6 | 1244.2 |
| 27.5° | 1471.5 | 1476.7 | 1476.3 | 1479.5 | 1510.6 | 1610.5 | 1767.3 | 1853.6 | 1786.7 | 1696.0 | 1291.7 |
| 30° | 1570.2 | 1572.2 | 1573.9 | 1566.6 | 1573.5 | 1647.2 | 1825.4 | 1965.6 | 1898.7 | 1803.2 | 1333.2 |
| 32.5° | 1690.3 | 1694.4 | 1680.7 | 1662.1 | 1656.5 | 1701.6 | 1873.3 | 2077.7 | 2031.3 | 1912.0 | 1374.4 |
| 35° | 1832.2 | 1842.7 | 1814.9 | 1782.2 | 1759.3 | 1779.8 | 1937.8 | 2192.1 | 2167.1 | 2051.1 | 1428.8 |
| 37.5° | 1994.2 | 2007.1 | 1981.3 | 1917.2 | 1884.6 | 1890.2 | 2022.0 | 2333.6 | 2338.8 | 2209.4 | 1509.8 |
| 40° | 2126.8 | 2143.8 | 2144.6 | 2053.9 | 2004.3 | 2010.8 | 2128.8 | 2485.9 | 2546.0 | 2405.3 | 1605.3 |
| 42.5° | 2214.3 | 2230.8 | 2248.1 | 2194.9 | 2142.9 | 2179.6 | 2253.4 | 2651.2 | 2778.9 | 2643.1 | 1738.7 |
| 45° | 2310.2 | 2325.1 | 2334.8 | 2310.6 | 2281.6 | 2376.7 | 2403.7 | 2826.9 | 3027.2 | 2908.7 | 1884.6 |
| 47.5° | 2421.4 | 2438.0 | 2447.2 | 2424.3 | 2413.4 | 2549.6 | 2565.7 | 2990.9 | 3292.4 | 3166.7 | 2045.8 |
| 50° | 2569.8 | 2582.3 | 2577.4 | 2562.9 | 2560.5 | 2682.2 | 2721.3 | 3144.5 | 3511.3 | 3444.4 | 2213.1 |
| 52.5° | 2754.4 | 2769.3 | 2774.5 | 2754.0 | 2744.7 | 2776.9 | 2846.6 | 3284.3 | 3710.4 | 3682.9 | 2391.6 |
| 55° | 2866.0 | 2889.8 | 2969.6 | 3001.8 | 3024.0 | 2899.4 | 2981.7 | 3438.7 | 3888.9 | 3934.4 | 2583.5 |
| 57.5° | 2722.9 | 2753.5 | 2932.1 | 3093.3 | 3301.7 | 3205.8 | 3173.1 | 3599.9 | 4067.4 | 4178.3 | 2813.2 |
| 60° | 2373.9 | 2380.7 | 2610.9 | 2907.9 | 3327.1 | 3599.5 | 3572.5 | 3856.3 | 4260.9 | 4424.1 | 3115.9 |
| 62.5° | 1646.8 | 1661.3 | 1933.4 | 2407.3 | 3013.5 | 3741.4 | 4252.0 | 4298.8 | 4538.2 | 4792.1 | 3559.6 |
| 65° | 849.2 | 830.3 | 1078.1 | 1513.0 | 2271.9 | 3404.5 | 4802.6 | 5112.5 | 5139.5 | 5367.6 | 4184.3 |
| 67.5° | 522.7 | 531.2 | 647.3 | 883.5 | 1343.3 | 2474.2 | 4745.0 | 6106.8 | 5964.5 | 6074.2 | 4764.3 |
| 70° | 392.6 | 403.0 | 482.8 | 604.6 | 819.0 | 1414.7 | 3816.0 | 6347.8 | 6546.5 | 6518.3 | 4940.8 |
| 71° | 341.4 | 352.3 | 435.3 | 550.1 | 688.0 | 1091.8 | 3215.0 | 6095.5 | 6566.7 | 6561.8 | 4874.3 |
| 72.5° | 291.0 | 297.8 | 362.7 | 465.9 | 580.0 | 765.4 | 2415.4 | 5466.8 | 6286.6 | 6447.4 | 4636.9 |
| 75° | 228.5 | 233.8 | 262.8 | 355.5 | 456.6 | 469.9 | 1296.2 | 4098.5 | 5163.3 | 5469.6 | 3860.3 |
| 77.5° | 186.2 | 189.8 | 204.7 | 264.0 | 352.3 | 332.9 | 679.9 | 2667.7 | 3234.8 | 3543.1 | 2273.9 |
| 80° | 147.9 | 151.9 | 160.8 | 178.9 | 264.0 | 237.4 | 324.4 | 1351.8 | 1562.6 | 1559.3 | 907.6 |
| 82.5° | 114.9 | 116.1 | 126.6 | 131.4 | 180.6 | 168.5 | 175.7 | 572.3 | 634.0 | 654.9 | 327.7 |
| 85° | 72.5 | 76.2 | 112.0 | 100.8 | 108.0 | 98.7 | 86.7 | 227.3 | 280.1 | 276.1 | 131.0 |
| 87.5° | 22.2 | 23.4 | 37.9 | 42.7 | 48.0 | 43.1 | 31.8 | 66.9 | 81.8 | 88.7 | 32.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P458618
 CATALOG NUMBER: GALN-SA1D-735-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 | 900.0 |
| 2.5° | 905.2 | 900.8 | 885.1 | 872.2 | 860.1 | 846.8 | 835.5 | 832.3 | 829.4 | 828.2 | 827.8 |
| 5° | 913.7 | 900.4 | 869.4 | 844.0 | 823.8 | 805.3 | 793.6 | 788.3 | 783.1 | 783.1 | 784.7 |
| 7.5° | 925.8 | 901.6 | 853.6 | 815.7 | 790.4 | 773.0 | 764.6 | 763.8 | 765.0 | 766.2 | 766.6 |
| 10° | 939.1 | 900.8 | 830.7 | 783.5 | 760.9 | 752.9 | 753.3 | 760.1 | 766.6 | 771.4 | 772.2 |
| 12.5° | 952.0 | 896.0 | 803.7 | 753.3 | 738.8 | 740.4 | 751.7 | 767.0 | 779.5 | 786.3 | 786.7 |
| 15° | 966.5 | 888.3 | 771.0 | 724.7 | 719.8 | 732.3 | 753.3 | 776.7 | 795.6 | 806.9 | 808.1 |
| 17.5° | 978.6 | 875.4 | 736.8 | 696.9 | 702.9 | 725.9 | 754.9 | 785.1 | 808.1 | 822.2 | 824.6 |
| 20° | 992.3 | 858.9 | 701.3 | 670.3 | 687.6 | 718.6 | 751.7 | 784.3 | 808.1 | 821.8 | 825.0 |
| 22.5° | 1003.2 | 835.5 | 667.4 | 648.5 | 673.9 | 709.7 | 740.8 | 767.0 | 786.3 | 793.6 | 798.4 |
| 25° | 1007.6 | 806.1 | 635.6 | 630.8 | 663.0 | 695.2 | 716.2 | 731.1 | 737.2 | 736.3 | 738.4 |
| 27.5° | 1005.2 | 772.2 | 608.2 | 616.6 | 649.3 | 672.7 | 683.1 | 681.9 | 671.1 | 661.0 | 665.8 |
| 30° | 995.1 | 731.9 | 585.2 | 602.1 | 631.6 | 644.5 | 642.8 | 627.1 | 606.6 | 587.6 | 588.8 |
| 32.5° | 977.0 | 688.4 | 563.8 | 585.6 | 606.6 | 612.2 | 601.3 | 580.8 | 551.4 | 526.8 | 523.1 |
| 35° | 961.6 | 646.9 | 544.9 | 566.7 | 581.6 | 578.8 | 568.3 | 541.7 | 515.1 | 493.3 | 489.7 |
| 37.5° | 959.2 | 611.4 | 526.8 | 545.3 | 553.8 | 549.7 | 536.8 | 514.3 | 504.6 | 488.1 | 486.1 |
| 40° | 972.1 | 586.4 | 508.2 | 522.7 | 526.8 | 523.5 | 509.4 | 496.5 | 505.4 | 501.4 | 501.4 |
| 42.5° | 1007.2 | 573.1 | 491.7 | 500.2 | 503.4 | 505.8 | 495.7 | 484.9 | 495.7 | 477.2 | 471.1 |
| 45° | 1062.8 | 573.5 | 476.8 | 478.0 | 487.7 | 496.1 | 489.3 | 473.2 | 467.5 | 430.4 | 423.2 |
| 47.5° | 1144.6 | 587.2 | 464.7 | 457.0 | 474.4 | 488.5 | 478.8 | 455.4 | 430.4 | 405.9 | 401.4 |
| 50° | 1240.1 | 611.8 | 453.8 | 435.3 | 456.6 | 478.8 | 471.6 | 444.1 | 418.4 | 403.4 | 400.6 |
| 52.5° | 1346.1 | 642.8 | 440.5 | 411.1 | 434.9 | 474.4 | 473.2 | 442.5 | 407.1 | 397.0 | 394.6 |
| 55° | 1477.1 | 673.5 | 424.0 | 382.9 | 415.5 | 470.7 | 468.7 | 429.2 | 404.6 | 397.4 | 396.6 |
| 57.5° | 1629.5 | 717.8 | 400.2 | 354.3 | 393.4 | 455.8 | 451.4 | 421.2 | 396.6 | 391.3 | 390.9 |
| 60° | 1874.9 | 786.7 | 366.4 | 328.1 | 370.8 | 429.6 | 435.3 | 407.5 | 383.7 | 382.5 | 382.1 |
| 62.5° | 2197.8 | 883.5 | 331.3 | 301.1 | 344.6 | 395.8 | 411.9 | 388.9 | 370.0 | 376.0 | 376.8 |
| 65° | 2643.5 | 964.9 | 295.0 | 278.1 | 315.6 | 363.1 | 389.7 | 371.6 | 354.7 | 366.4 | 366.4 |
| 67.5° | 2934.1 | 966.5 | 262.0 | 254.3 | 286.2 | 335.7 | 366.4 | 351.0 | 334.9 | 354.7 | 355.5 |
| 70° | 2873.7 | 846.8 | 234.6 | 229.3 | 257.5 | 306.3 | 340.6 | 328.5 | 309.9 | 327.7 | 321.2 |
| 71° | 2776.1 | 780.3 | 223.7 | 219.7 | 246.3 | 292.2 | 328.5 | 318.4 | 299.9 | 311.5 | 307.9 |
| 72.5° | 2620.5 | 677.5 | 206.0 | 206.8 | 229.3 | 274.5 | 311.5 | 301.1 | 282.5 | 289.0 | 287.8 |
| 75° | 2215.1 | 591.7 | 176.1 | 179.8 | 197.1 | 244.2 | 277.7 | 269.6 | 250.7 | 250.7 | 249.5 |
| 77.5° | 1384.8 | 413.5 | 146.3 | 148.3 | 167.3 | 209.2 | 238.6 | 231.7 | 213.6 | 207.6 | 206.0 |
| 80° | 516.7 | 213.6 | 114.5 | 116.9 | 128.6 | 164.8 | 197.5 | 191.0 | 172.5 | 165.6 | 159.2 |
| 82.5° | 195.5 | 107.2 | 84.2 | 82.2 | 94.7 | 125.7 | 154.8 | 147.1 | 132.6 | 116.1 | 111.2 |
| 85° | 73.8 | 53.2 | 51.6 | 50.0 | 55.6 | 74.6 | 95.9 | 94.3 | 79.0 | 67.3 | 66.1 |
| 87.5° | 19.3 | 17.3 | 20.2 | 14.9 | 15.7 | 14.1 | 14.5 | 6.0 | 2.8 | 1.2 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)