

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: P528034

Luminaire Tested: **GALN-SA3A-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-750-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11996 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

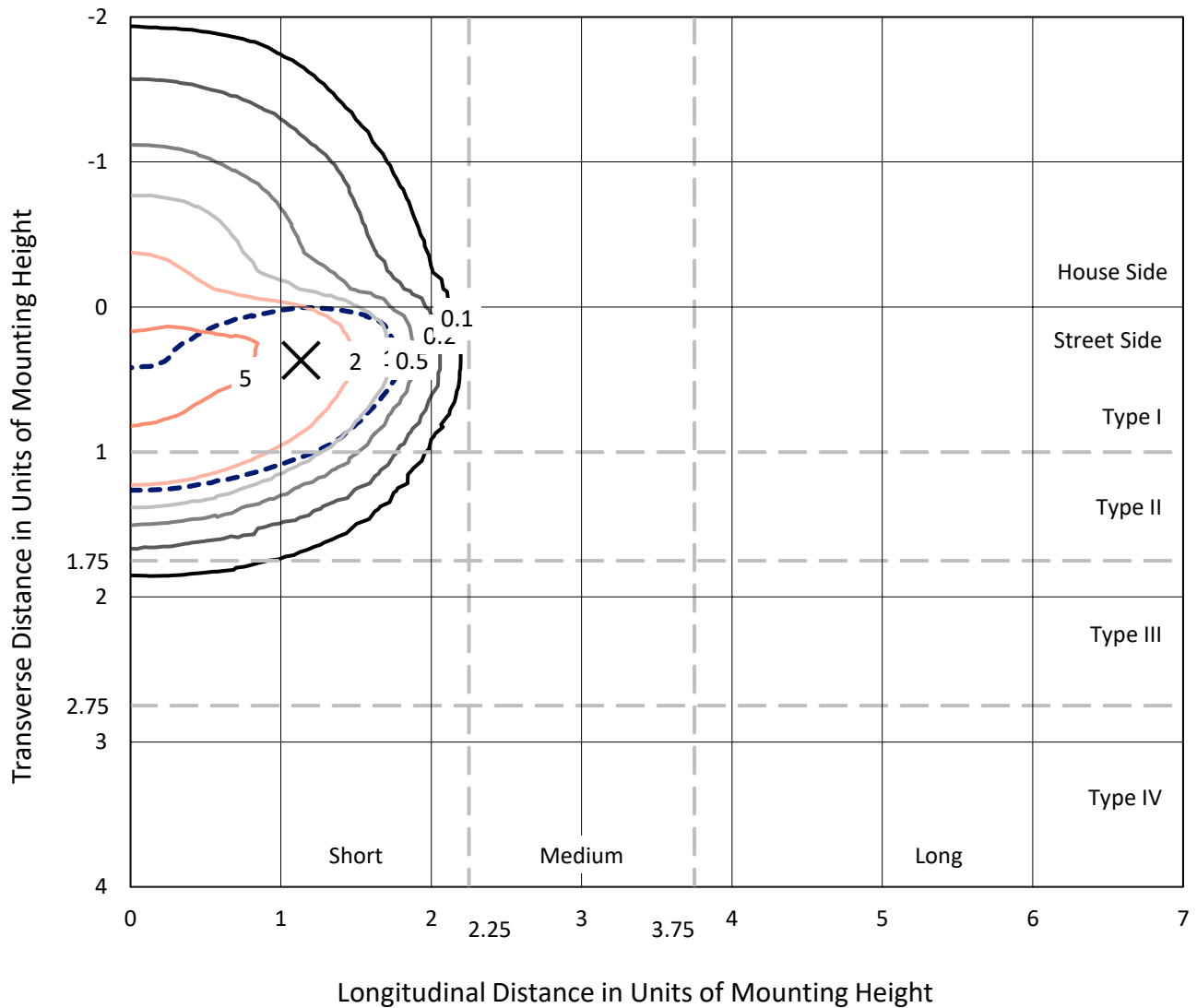
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

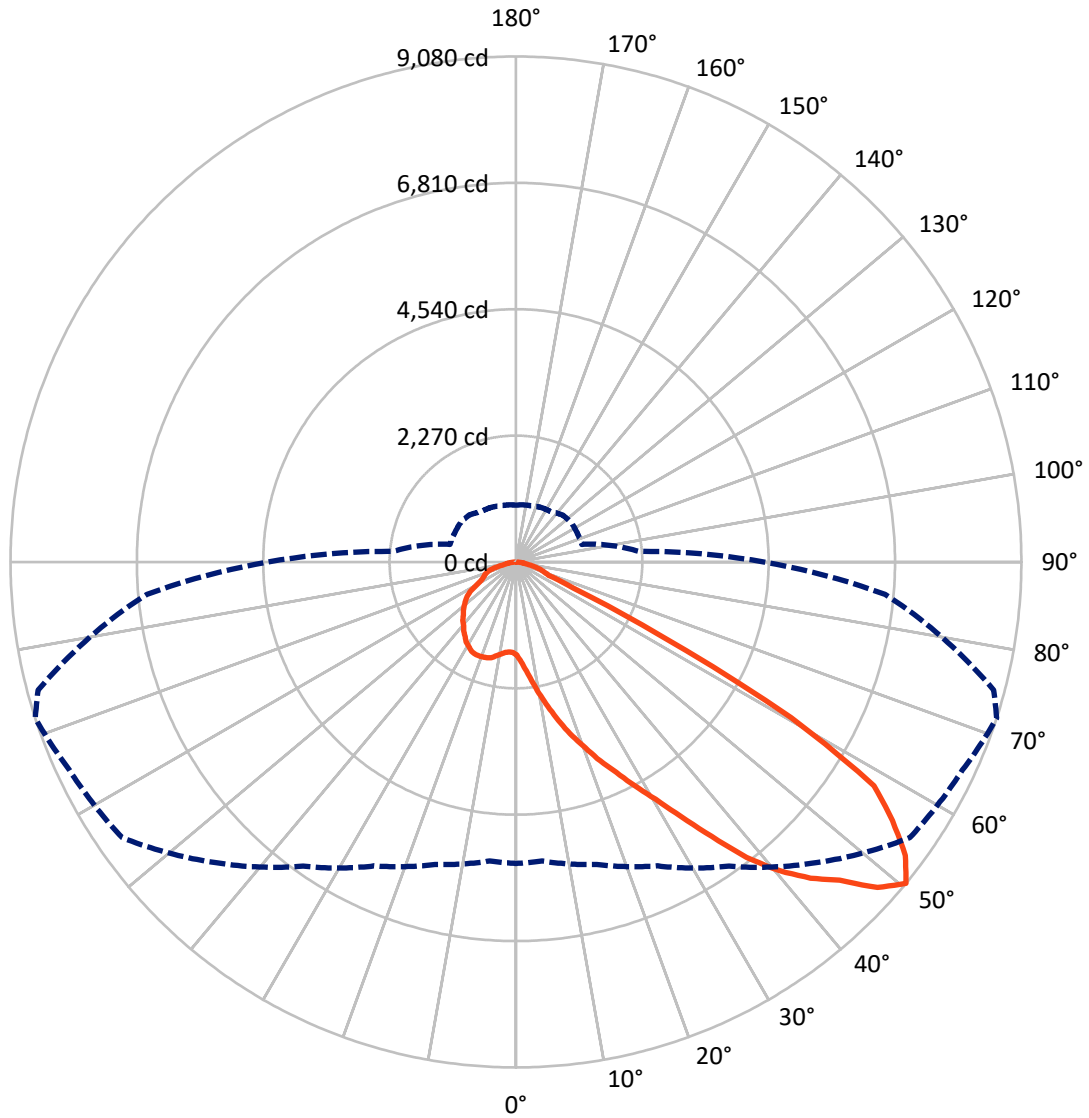
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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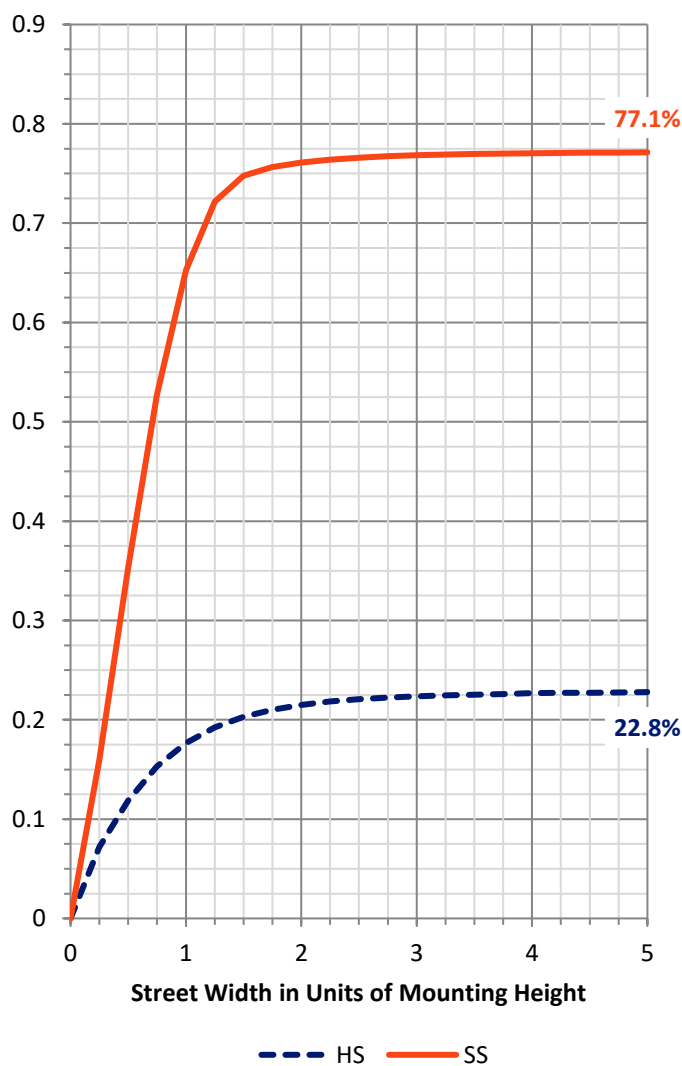
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2748.3 | 0.0 | 2748.3 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 9247.6 | 0.0 | 9247.6 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 11996.0 | 0.0 | 11996.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 196.4 | 1.6 |
| 10°-20° | 734.3 | 6.1 |
| 20°-30° | 1423.8 | 11.9 |
| 30°-40° | 2358.7 | 19.7 |
| 40°-50° | 3300.4 | 27.5 |
| 50°-60° | 2784.3 | 23.2 |
| 60°-70° | 848.6 | 7.1 |
| 70°-80° | 297.7 | 2.5 |
| 80°-90° | 51.8 | 0.4 |
| 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° | 11996.0 | 100.0 |
| 0°-180° | 11996.0 | 100.0 |

Coefficient of Utilization



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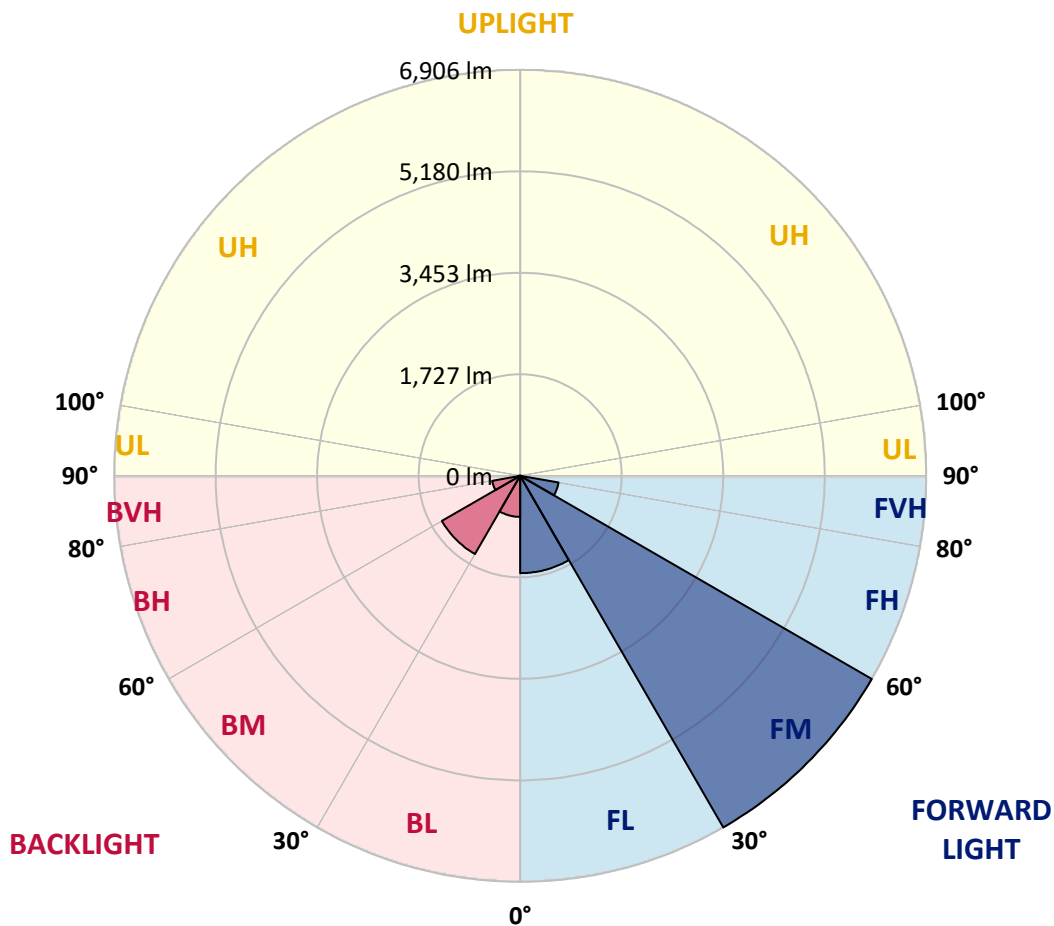
CATALOG NUMBER: GALN-SA3A-750-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1655.9 | 13.8 | | | |
| FM (30°-60°) | 6906.4 | 57.6 | | | |
| FH (60°-80°) | 662.2 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 23.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 698.6 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1536.9 | 12.8 | B2/2500 | | |
| BH (60°-80°) | 484.2 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 28.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 |
| 2.5° | 2147.9 | 2134.6 | 2094.5 | 2081.1 | 2033.6 | 1947.5 | 1917.8 | 1830.3 | 1793.2 | 1759.0 | 1718.9 |
| 5° | 2716.4 | 2654.1 | 2649.6 | 2573.9 | 2464.1 | 2400.3 | 2210.3 | 2082.6 | 1965.3 | 1906.0 | 1796.1 |
| 7.5° | 3078.6 | 3080.1 | 3080.1 | 3017.8 | 2930.2 | 2768.4 | 2597.7 | 2367.6 | 2191.0 | 2103.4 | 1916.4 |
| 10° | 3423.0 | 3393.3 | 3377.0 | 3371.1 | 3311.7 | 3154.3 | 2971.8 | 2686.8 | 2444.8 | 2342.4 | 2006.9 |
| 12.5° | 3666.5 | 3641.2 | 3678.3 | 3659.0 | 3616.0 | 3513.6 | 3341.4 | 3016.3 | 2713.5 | 2575.4 | 2152.4 |
| 15° | 3782.2 | 3800.1 | 3829.7 | 3883.2 | 3863.9 | 3825.3 | 3635.3 | 3354.7 | 3002.9 | 2847.1 | 2281.5 |
| 17.5° | 3960.4 | 3911.4 | 3947.0 | 4013.8 | 4067.2 | 4049.4 | 3941.1 | 3599.7 | 3289.4 | 3097.9 | 2455.2 |
| 20° | 4085.1 | 4056.9 | 4074.7 | 4151.9 | 4191.9 | 4292.9 | 4236.5 | 3920.3 | 3564.0 | 3362.2 | 2660.0 |
| 22.5° | 4441.3 | 4399.7 | 4341.9 | 4353.7 | 4368.6 | 4439.8 | 4453.2 | 4272.1 | 3883.2 | 3669.4 | 2854.5 |
| 25° | 4880.7 | 4842.1 | 4773.8 | 4704.1 | 4661.0 | 4647.6 | 4693.7 | 4548.2 | 4189.0 | 3967.8 | 3063.8 |
| 27.5° | 5364.6 | 5299.3 | 5256.2 | 5112.3 | 4996.5 | 4978.7 | 4956.4 | 4877.7 | 4551.2 | 4312.2 | 3299.8 |
| 30° | 5835.2 | 5783.2 | 5725.3 | 5495.2 | 5375.0 | 5355.7 | 5245.9 | 5268.1 | 4944.5 | 4678.8 | 3567.0 |
| 32.5° | 6191.4 | 6195.9 | 6063.8 | 5890.1 | 5777.3 | 5674.8 | 5634.8 | 5698.6 | 5449.2 | 5235.5 | 3865.4 |
| 35° | 6479.4 | 6492.7 | 6366.6 | 6209.2 | 6087.5 | 6158.8 | 6140.9 | 6170.6 | 6051.9 | 5790.6 | 4212.7 |
| 37.5° | 6759.9 | 6693.1 | 6558.1 | 6482.4 | 6418.5 | 6535.8 | 6687.2 | 6712.4 | 6734.7 | 6427.4 | 4616.5 |
| 40° | 6806.0 | 6811.9 | 6733.2 | 6786.7 | 6706.5 | 6883.1 | 7234.9 | 7202.3 | 7292.8 | 7024.2 | 5054.4 |
| 42.5° | 6740.6 | 6754.0 | 6785.2 | 6860.9 | 7053.8 | 7266.1 | 7788.6 | 7655.0 | 7764.9 | 7525.9 | 5480.4 |
| 45° | 6633.8 | 6578.8 | 6617.4 | 6905.4 | 7239.4 | 7711.4 | 8294.8 | 8190.9 | 8155.3 | 7954.9 | 5988.1 |
| 47.5° | 6123.1 | 6179.5 | 6299.8 | 6654.5 | 7156.3 | 7788.6 | 8654.0 | 8630.3 | 8737.2 | 8596.1 | 6449.7 |
| 50° | 5415.1 | 5392.8 | 5624.4 | 6023.7 | 6670.9 | 7637.2 | 8634.7 | 8850.0 | 9080.1 | 8884.1 | 6656.0 |
| 52.5° | 4055.4 | 4174.1 | 4373.0 | 4868.8 | 5792.1 | 6811.9 | 8213.2 | 8572.4 | 8759.4 | 8717.9 | 6489.8 |
| 55° | 2563.6 | 2599.2 | 2719.4 | 3308.7 | 4140.0 | 5467.0 | 7040.5 | 7873.2 | 8207.2 | 8363.1 | 6336.9 |
| 57.5° | 1245.4 | 1178.6 | 1325.6 | 1799.1 | 2391.4 | 3676.8 | 5429.9 | 6857.9 | 7583.8 | 7865.8 | 6004.4 |
| 60° | 650.2 | 675.4 | 733.3 | 902.5 | 1236.5 | 1908.9 | 3384.4 | 4570.5 | 5679.3 | 6112.7 | 4551.2 |
| 62.5° | 538.8 | 547.7 | 586.3 | 670.9 | 822.4 | 1098.5 | 1727.8 | 2228.1 | 2896.1 | 3286.5 | 2588.8 |
| 65° | 457.2 | 461.6 | 503.2 | 559.6 | 656.1 | 773.4 | 889.2 | 930.7 | 1126.7 | 1156.3 | 920.3 |
| 67.5° | 381.5 | 385.9 | 430.5 | 483.9 | 546.3 | 577.4 | 607.1 | 604.1 | 626.4 | 617.5 | 616.0 |
| 70° | 293.9 | 298.4 | 344.4 | 400.8 | 432.0 | 414.1 | 506.2 | 527.0 | 535.9 | 543.3 | 555.2 |
| 72.5° | 212.3 | 221.2 | 256.8 | 296.9 | 280.6 | 322.1 | 417.1 | 448.3 | 460.2 | 464.6 | 479.5 |
| 75° | 154.4 | 157.3 | 166.3 | 154.4 | 178.1 | 224.1 | 293.9 | 332.5 | 347.3 | 351.8 | 374.1 |
| 77.5° | 68.3 | 69.8 | 71.3 | 89.1 | 114.3 | 139.5 | 175.2 | 206.3 | 227.1 | 233.1 | 239.0 |
| 80° | 35.6 | 37.1 | 46.0 | 60.9 | 81.6 | 102.4 | 127.7 | 145.5 | 158.8 | 160.3 | 166.3 |
| 82.5° | 22.3 | 23.8 | 32.7 | 43.0 | 57.9 | 75.7 | 93.5 | 108.4 | 118.8 | 120.2 | 121.7 |
| 85° | 10.4 | 13.4 | 19.3 | 26.7 | 38.6 | 49.0 | 50.5 | 43.0 | 46.0 | 47.5 | 44.5 |
| 87.5° | 3.0 | 4.5 | 5.9 | 4.5 | 5.9 | 5.9 | 7.4 | 8.9 | 8.9 | 8.9 | 10.4 |
| 90° | 0.0 | 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-SA3A-750-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 | 1669.9 |
| 2.5° | 1696.7 | 1683.3 | 1631.4 | 1612.1 | 1561.6 | 1570.5 | 1543.8 | 1542.3 | 1536.3 | 1534.9 | 1533.4 |
| 5° | 1738.2 | 1696.7 | 1634.3 | 1586.8 | 1558.6 | 1555.6 | 1536.3 | 1536.3 | 1542.3 | 1546.7 | 1536.3 |
| 7.5° | 1806.5 | 1759.0 | 1653.6 | 1609.1 | 1583.9 | 1579.4 | 1566.0 | 1555.6 | 1569.0 | 1564.6 | 1552.7 |
| 10° | 1885.2 | 1802.1 | 1690.7 | 1652.1 | 1610.6 | 1600.2 | 1600.2 | 1604.6 | 1582.4 | 1589.8 | 1577.9 |
| 12.5° | 1972.8 | 1861.4 | 1738.2 | 1693.7 | 1644.7 | 1638.8 | 1635.8 | 1603.1 | 1615.0 | 1609.1 | 1579.4 |
| 15° | 2084.1 | 1929.7 | 1799.1 | 1723.4 | 1681.8 | 1655.1 | 1616.5 | 1610.6 | 1603.1 | 1588.3 | 1574.9 |
| 17.5° | 2204.3 | 2003.9 | 1827.3 | 1732.3 | 1669.9 | 1650.6 | 1621.0 | 1589.8 | 1567.5 | 1570.5 | 1560.1 |
| 20° | 2306.8 | 2072.2 | 1837.7 | 1741.2 | 1661.0 | 1623.9 | 1577.9 | 1558.6 | 1534.9 | 1533.4 | 1531.9 |
| 22.5° | 2428.5 | 2164.2 | 1852.5 | 1717.4 | 1634.3 | 1595.7 | 1564.6 | 1530.4 | 1514.1 | 1493.3 | 1503.7 |
| 25° | 2573.9 | 2199.9 | 1855.5 | 1704.1 | 1615.0 | 1546.7 | 1530.4 | 1493.3 | 1487.4 | 1457.7 | 1463.6 |
| 27.5° | 2679.3 | 2219.2 | 1831.7 | 1662.5 | 1570.5 | 1518.5 | 1488.8 | 1462.1 | 1451.7 | 1429.5 | 1423.5 |
| 30° | 2820.4 | 2248.9 | 1781.3 | 1610.6 | 1526.0 | 1468.1 | 1450.3 | 1444.3 | 1414.6 | 1390.9 | 1387.9 |
| 32.5° | 2980.7 | 2268.2 | 1748.6 | 1557.1 | 1479.9 | 1435.4 | 1444.3 | 1416.1 | 1379.0 | 1358.2 | 1352.3 |
| 35° | 3108.3 | 2275.6 | 1667.0 | 1496.3 | 1448.8 | 1420.6 | 1410.2 | 1404.2 | 1350.8 | 1331.5 | 1316.7 |
| 37.5° | 3302.8 | 2259.3 | 1598.7 | 1453.2 | 1414.6 | 1404.2 | 1395.3 | 1355.3 | 1294.4 | 1266.2 | 1245.4 |
| 40° | 3529.9 | 2254.8 | 1511.1 | 1392.4 | 1382.0 | 1393.8 | 1367.1 | 1304.8 | 1220.2 | 1189.0 | 1174.2 |
| 42.5° | 3748.1 | 2286.0 | 1456.2 | 1359.7 | 1346.3 | 1350.8 | 1313.7 | 1220.2 | 1178.6 | 1160.8 | 1137.0 |
| 45° | 4113.3 | 2351.3 | 1365.6 | 1309.2 | 1303.3 | 1300.3 | 1255.8 | 1157.8 | 1134.1 | 1111.8 | 1107.4 |
| 47.5° | 4442.8 | 2308.2 | 1307.8 | 1257.3 | 1263.2 | 1246.9 | 1151.9 | 1120.7 | 1094.0 | 1071.7 | 1064.3 |
| 50° | 4462.1 | 2205.8 | 1226.1 | 1217.2 | 1218.7 | 1190.5 | 1099.9 | 1079.2 | 1045.0 | 1030.2 | 1019.8 |
| 52.5° | 4361.2 | 2038.1 | 1150.4 | 1153.4 | 1157.8 | 1111.8 | 1036.1 | 1021.3 | 993.1 | 972.3 | 966.3 |
| 55° | 4077.6 | 1776.8 | 1076.2 | 1088.1 | 1099.9 | 1012.4 | 988.6 | 951.5 | 929.2 | 899.5 | 901.0 |
| 57.5° | 3592.2 | 1431.0 | 972.3 | 991.6 | 1016.8 | 920.3 | 902.5 | 856.5 | 823.8 | 800.1 | 797.1 |
| 60° | 2407.7 | 1018.3 | 816.4 | 823.8 | 880.2 | 841.7 | 840.2 | 794.2 | 749.6 | 728.8 | 717.0 |
| 62.5° | 1420.6 | 777.8 | 705.1 | 697.7 | 696.2 | 718.4 | 755.6 | 739.2 | 681.3 | 641.3 | 653.1 |
| 65° | 743.7 | 672.4 | 656.1 | 630.9 | 616.0 | 610.1 | 638.3 | 645.7 | 607.1 | 564.1 | 561.1 |
| 67.5° | 624.9 | 624.9 | 611.6 | 602.7 | 581.9 | 556.6 | 538.8 | 515.1 | 509.1 | 497.3 | 482.4 |
| 70° | 568.5 | 583.4 | 578.9 | 558.1 | 540.3 | 512.1 | 466.1 | 427.5 | 390.4 | 377.0 | 385.9 |
| 72.5° | 495.8 | 510.6 | 510.6 | 500.2 | 476.5 | 433.4 | 388.9 | 344.4 | 313.2 | 289.5 | 286.5 |
| 75° | 381.5 | 388.9 | 406.7 | 394.8 | 363.7 | 337.0 | 290.9 | 244.9 | 215.2 | 193.0 | 188.5 |
| 77.5° | 243.4 | 255.3 | 255.3 | 253.8 | 231.6 | 206.3 | 176.6 | 144.0 | 121.7 | 105.4 | 100.9 |
| 80° | 161.8 | 169.2 | 175.2 | 169.2 | 154.4 | 135.1 | 112.8 | 90.5 | 74.2 | 60.9 | 57.9 |
| 82.5° | 118.8 | 127.7 | 132.1 | 126.2 | 111.3 | 96.5 | 80.2 | 63.8 | 47.5 | 37.1 | 34.1 |
| 85° | 46.0 | 47.5 | 53.4 | 63.8 | 62.3 | 60.9 | 49.0 | 35.6 | 26.7 | 19.3 | 17.8 |
| 87.5° | 11.9 | 10.4 | 11.9 | 11.9 | 10.4 | 8.9 | 8.9 | 8.9 | 8.9 | 4.5 | 5.9 |
| 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)