

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: P522676

Luminaire Tested: **GALN-SA2D-722-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11444 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

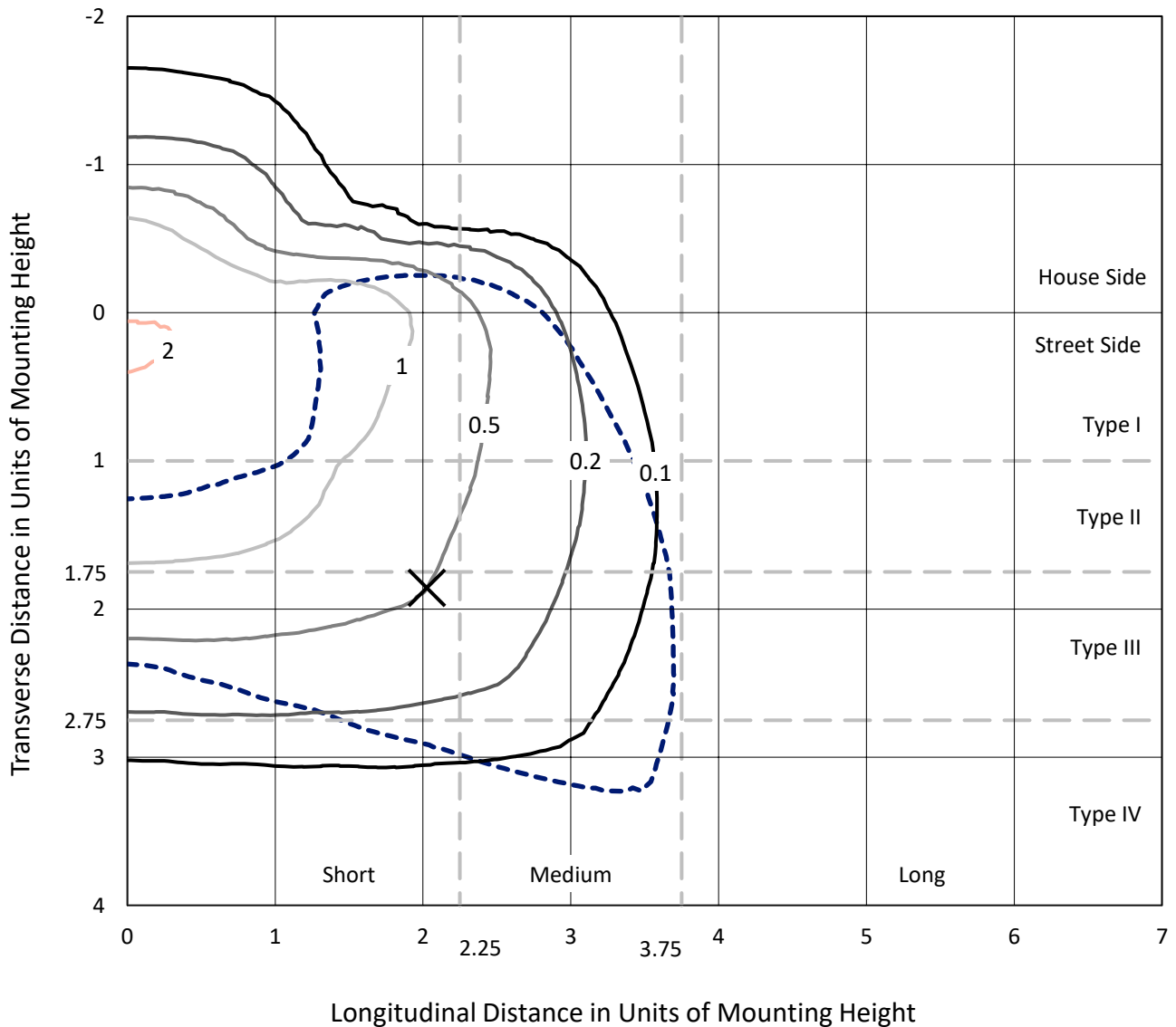
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

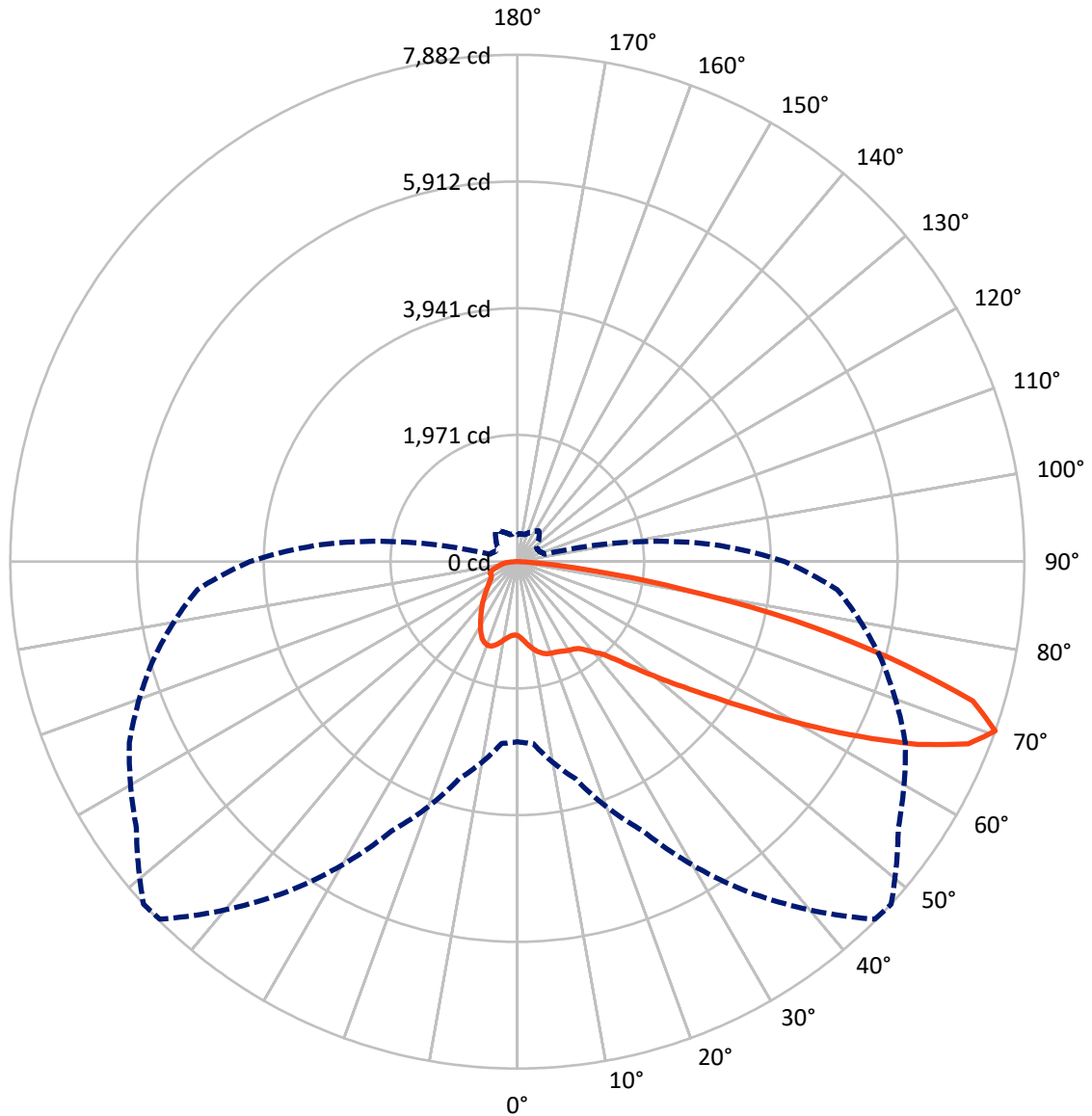
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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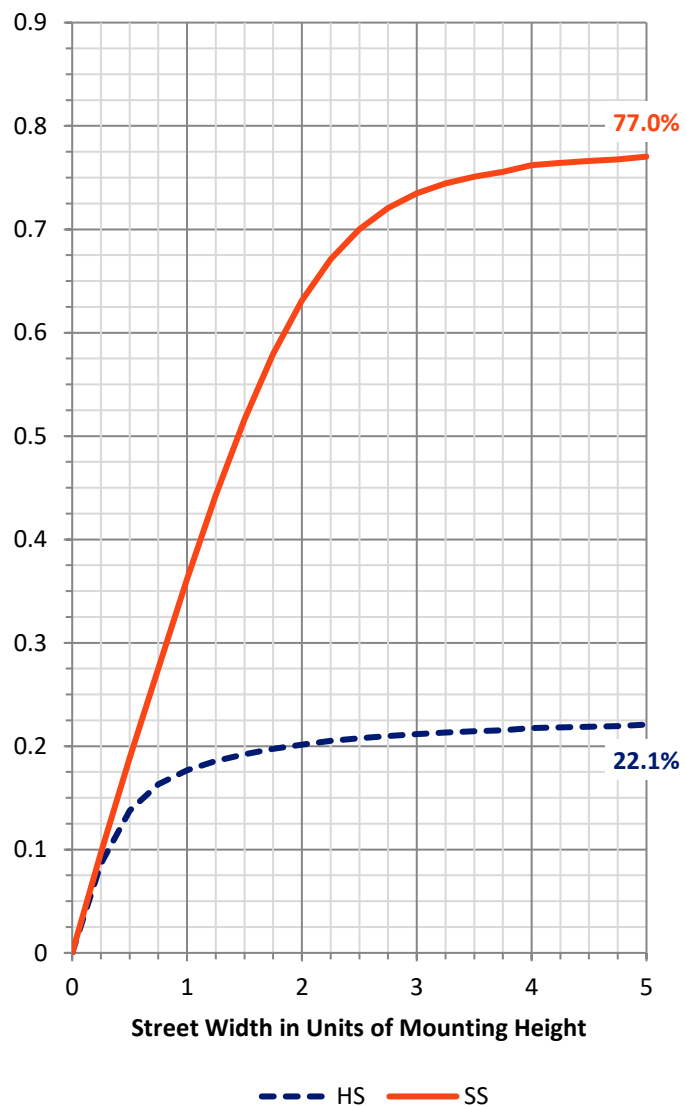
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2591.1 | 0.0 | 2591.1 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 8852.8 | 0.0 | 8852.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 11444.0 | 0.0 | 11444.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.4 | 1.0 |
| 10°-20° | 395.9 | 3.5 |
| 20°-30° | 658.4 | 5.8 |
| 30°-40° | 933.1 | 8.2 |
| 40°-50° | 1377.5 | 12.0 |
| 50°-60° | 2385.9 | 20.8 |
| 60°-70° | 3370.1 | 29.4 |
| 70°-80° | 1937.3 | 16.9 |
| 80°-90° | 267.3 | 2.3 |
| 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° | 11444.0 | 100.0 |
| 0°-180° | 11444.0 | 100.0 |

Coefficient of Utilization



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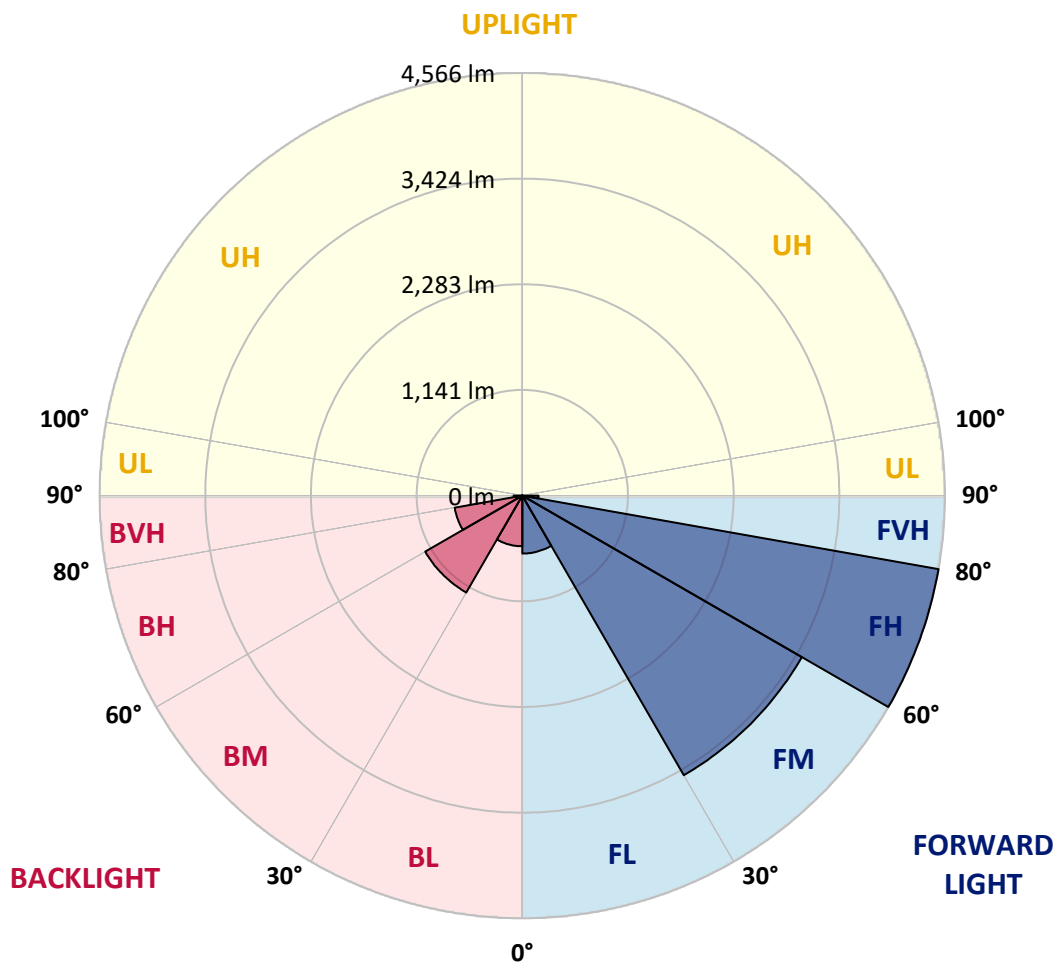
CATALOG NUMBER: GALN-SA2D-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 625.8 | 5.5 | | | |
| FM | (30°-60°) | 3486.8 | 30.5 | | | |
| FH | (60°-80°) | 4565.7 | 39.9 | | | G2/5000 |
| FVH | (80°-90°) | 174.6 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 546.9 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 1209.8 | 10.6 | B2/2500 | | |
| BH | (60°-80°) | 741.8 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 92.7 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 |
| 2.5° | 1222.9 | 1218.7 | 1218.0 | 1208.9 | 1204.0 | 1194.8 | 1191.1 | 1182.5 | 1172.1 | 1161.7 | 1151.9 |
| 5° | 1319.1 | 1319.1 | 1314.8 | 1301.9 | 1281.7 | 1260.9 | 1251.7 | 1235.2 | 1205.8 | 1181.9 | 1161.7 |
| 7.5° | 1417.7 | 1418.9 | 1410.3 | 1391.3 | 1362.6 | 1328.9 | 1320.3 | 1295.8 | 1254.2 | 1219.3 | 1189.3 |
| 10° | 1502.8 | 1502.8 | 1491.2 | 1465.4 | 1429.3 | 1392.6 | 1384.0 | 1356.4 | 1309.9 | 1266.4 | 1227.2 |
| 12.5° | 1567.7 | 1567.7 | 1552.4 | 1518.7 | 1479.5 | 1446.5 | 1436.7 | 1410.3 | 1366.9 | 1318.5 | 1268.9 |
| 15° | 1610.0 | 1606.9 | 1589.8 | 1551.8 | 1513.8 | 1485.0 | 1478.3 | 1456.3 | 1416.5 | 1367.5 | 1311.7 |
| 17.5° | 1611.8 | 1610.6 | 1594.0 | 1562.2 | 1529.1 | 1509.5 | 1505.2 | 1490.6 | 1459.3 | 1412.8 | 1354.0 |
| 20° | 1576.3 | 1578.7 | 1567.7 | 1545.1 | 1529.1 | 1520.6 | 1518.7 | 1513.8 | 1491.8 | 1448.3 | 1389.5 |
| 22.5° | 1538.3 | 1542.6 | 1532.2 | 1519.9 | 1518.7 | 1527.3 | 1528.5 | 1529.7 | 1515.7 | 1473.4 | 1419.5 |
| 25° | 1529.1 | 1532.2 | 1521.8 | 1510.8 | 1517.5 | 1540.2 | 1545.1 | 1550.0 | 1538.9 | 1503.4 | 1455.0 |
| 27.5° | 1575.7 | 1573.2 | 1553.0 | 1529.1 | 1533.4 | 1564.0 | 1570.8 | 1576.3 | 1570.8 | 1540.2 | 1499.1 |
| 30° | 1707.3 | 1699.4 | 1659.0 | 1589.1 | 1567.1 | 1588.5 | 1595.3 | 1610.6 | 1610.6 | 1587.9 | 1546.9 |
| 32.5° | 1927.8 | 1912.5 | 1838.4 | 1701.2 | 1624.7 | 1611.8 | 1618.5 | 1643.6 | 1656.5 | 1638.8 | 1594.0 |
| 35° | 2195.4 | 2179.5 | 2073.5 | 1889.2 | 1730.0 | 1658.3 | 1656.5 | 1684.7 | 1719.0 | 1679.2 | 1621.0 |
| 37.5° | 2464.2 | 2447.7 | 2320.3 | 2113.4 | 1883.7 | 1756.3 | 1745.3 | 1755.1 | 1769.8 | 1696.9 | 1658.3 |
| 40° | 2733.1 | 2713.5 | 2602.0 | 2363.8 | 2071.7 | 1886.2 | 1857.4 | 1813.3 | 1807.2 | 1755.1 | 1730.6 |
| 42.5° | 2999.5 | 2981.7 | 2925.4 | 2644.9 | 2297.1 | 2012.9 | 1968.8 | 1892.9 | 1916.2 | 1884.9 | 1863.5 |
| 45° | 3268.3 | 3269.5 | 3209.5 | 2960.3 | 2569.0 | 2246.9 | 2187.4 | 2068.6 | 2123.8 | 2112.1 | 2124.4 |
| 47.5° | 3506.5 | 3503.5 | 3482.0 | 3266.5 | 2906.4 | 2548.1 | 2471.6 | 2333.8 | 2428.1 | 2471.0 | 2564.7 |
| 50° | 3737.4 | 3735.6 | 3736.8 | 3613.7 | 3298.3 | 2906.4 | 2821.9 | 2677.4 | 2889.9 | 3038.7 | 3206.5 |
| 52.5° | 4068.1 | 4078.5 | 4004.4 | 3971.9 | 3774.8 | 3329.6 | 3236.5 | 3087.0 | 3435.5 | 3670.0 | 3997.7 |
| 55° | 4400.0 | 4391.4 | 4333.3 | 4366.9 | 4273.2 | 3830.5 | 3733.1 | 3614.3 | 4043.0 | 4299.6 | 4791.9 |
| 57.5° | 4595.4 | 4598.4 | 4657.8 | 4822.6 | 4888.7 | 4455.1 | 4366.9 | 4275.1 | 4725.8 | 4907.7 | 5498.6 |
| 60° | 4771.1 | 4785.2 | 4956.1 | 5267.1 | 5446.6 | 5222.4 | 5144.1 | 5054.7 | 5352.3 | 5424.5 | 6112.2 |
| 62.5° | 4826.2 | 4869.7 | 5167.9 | 5633.4 | 5990.4 | 6088.4 | 5991.0 | 5793.8 | 5948.7 | 5920.6 | 6528.1 |
| 65° | 4551.3 | 4610.7 | 5145.3 | 5770.5 | 6476.0 | 6910.2 | 6848.3 | 6482.1 | 6457.0 | 6287.4 | 6596.0 |
| 67.5° | 3827.4 | 3886.8 | 4573.3 | 5482.7 | 6676.9 | 7621.8 | 7559.9 | 6984.3 | 6765.7 | 6321.7 | 6081.6 |
| 70° | 2800.5 | 2837.8 | 3494.3 | 4616.2 | 6273.3 | 7860.6 | 7882.0 | 7229.2 | 6655.4 | 5855.7 | 4993.4 |
| 72.5° | 1613.6 | 1696.3 | 2156.2 | 3247.5 | 5125.1 | 7256.8 | 7405.6 | 6719.7 | 5958.5 | 4885.0 | 3491.2 |
| 75° | 693.8 | 695.7 | 997.0 | 1791.2 | 3471.0 | 5833.0 | 5976.9 | 5570.3 | 4679.3 | 3377.9 | 1864.1 |
| 77.5° | 330.1 | 336.2 | 438.5 | 799.8 | 1910.7 | 4030.1 | 4418.4 | 3935.2 | 2992.7 | 1622.8 | 704.2 |
| 80° | 214.3 | 218.6 | 268.2 | 396.8 | 937.0 | 2336.9 | 2607.5 | 2270.1 | 1320.3 | 579.9 | 303.7 |
| 82.5° | 129.8 | 131.1 | 179.4 | 242.5 | 515.6 | 1058.2 | 1247.4 | 985.3 | 563.4 | 347.2 | 178.8 |
| 85° | 79.0 | 79.6 | 109.0 | 150.0 | 312.9 | 365.6 | 375.4 | 372.3 | 330.7 | 227.2 | 95.5 |
| 87.5° | 38.0 | 39.2 | 56.3 | 71.0 | 123.1 | 113.3 | 107.2 | 124.3 | 156.2 | 122.5 | 41.0 |
| 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-SA2D-722-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 | 1148.8 |
| 2.5° | 1147.6 | 1145.8 | 1141.5 | 1139.7 | 1138.4 | 1139.0 | 1138.4 | 1138.4 | 1139.0 | 1139.0 | 1139.0 |
| 5° | 1153.1 | 1150.1 | 1143.3 | 1143.3 | 1147.0 | 1155.6 | 1163.5 | 1169.7 | 1176.4 | 1175.8 | 1175.8 |
| 7.5° | 1177.0 | 1171.5 | 1163.5 | 1166.0 | 1175.2 | 1188.6 | 1202.7 | 1216.2 | 1229.7 | 1230.9 | 1230.3 |
| 10° | 1211.9 | 1206.4 | 1197.8 | 1200.9 | 1215.6 | 1235.8 | 1253.6 | 1273.2 | 1287.9 | 1292.1 | 1290.9 |
| 12.5° | 1251.7 | 1240.7 | 1233.3 | 1241.9 | 1265.2 | 1292.1 | 1309.3 | 1324.0 | 1334.4 | 1340.5 | 1338.1 |
| 15° | 1292.1 | 1281.7 | 1273.2 | 1290.9 | 1319.1 | 1344.2 | 1352.8 | 1355.2 | 1357.1 | 1363.2 | 1362.0 |
| 17.5° | 1331.3 | 1317.2 | 1314.2 | 1337.5 | 1364.4 | 1375.4 | 1370.5 | 1360.1 | 1352.2 | 1357.1 | 1356.4 |
| 20° | 1366.2 | 1355.2 | 1354.0 | 1377.3 | 1387.7 | 1377.3 | 1356.4 | 1338.1 | 1324.0 | 1325.2 | 1324.6 |
| 22.5° | 1399.3 | 1390.7 | 1392.0 | 1401.8 | 1385.2 | 1349.7 | 1315.4 | 1290.3 | 1275.0 | 1278.1 | 1279.9 |
| 25° | 1436.0 | 1427.5 | 1430.5 | 1414.6 | 1360.1 | 1298.3 | 1248.7 | 1227.2 | 1221.1 | 1227.2 | 1231.5 |
| 27.5° | 1483.8 | 1478.3 | 1476.5 | 1415.2 | 1315.4 | 1222.3 | 1166.0 | 1158.0 | 1163.5 | 1177.0 | 1183.7 |
| 30° | 1535.3 | 1535.3 | 1525.5 | 1404.8 | 1254.2 | 1131.1 | 1082.1 | 1083.3 | 1102.3 | 1121.3 | 1128.0 |
| 32.5° | 1584.9 | 1595.3 | 1564.7 | 1376.6 | 1175.2 | 1042.3 | 1004.9 | 1006.2 | 1022.7 | 1046.0 | 1052.1 |
| 35° | 1625.9 | 1655.9 | 1598.3 | 1325.2 | 1082.1 | 967.6 | 939.4 | 922.9 | 923.5 | 941.2 | 946.1 |
| 37.5° | 1682.2 | 1738.0 | 1617.9 | 1248.7 | 982.9 | 903.9 | 872.0 | 843.3 | 824.3 | 816.9 | 816.9 |
| 40° | 1780.2 | 1862.3 | 1622.8 | 1135.4 | 889.2 | 843.3 | 797.9 | 763.6 | 726.9 | 693.8 | 687.7 |
| 42.5° | 1946.2 | 2049.7 | 1613.0 | 1004.9 | 804.7 | 776.5 | 732.4 | 690.2 | 639.3 | 592.8 | 589.1 |
| 45° | 2240.1 | 2293.4 | 1586.7 | 869.6 | 729.4 | 712.2 | 669.3 | 623.4 | 569.5 | 527.9 | 524.8 |
| 47.5° | 2711.0 | 2635.7 | 1551.8 | 749.6 | 660.8 | 655.9 | 622.8 | 569.5 | 515.6 | 486.8 | 483.8 |
| 50° | 3398.8 | 3174.6 | 1546.9 | 662.6 | 605.7 | 608.1 | 581.2 | 532.2 | 485.0 | 461.1 | 457.5 |
| 52.5° | 4226.7 | 3825.6 | 1579.3 | 601.4 | 557.3 | 566.5 | 553.0 | 507.7 | 466.0 | 445.8 | 442.1 |
| 55° | 5030.2 | 4411.0 | 1598.9 | 553.6 | 512.0 | 529.1 | 530.9 | 493.0 | 455.0 | 434.8 | 432.3 |
| 57.5° | 5682.3 | 4852.0 | 1512.0 | 510.1 | 472.8 | 499.1 | 512.6 | 484.4 | 449.5 | 434.2 | 431.7 |
| 60° | 6136.1 | 5060.2 | 1264.6 | 471.5 | 444.0 | 475.2 | 505.8 | 485.0 | 463.0 | 464.8 | 466.0 |
| 62.5° | 6280.7 | 4967.7 | 948.6 | 442.8 | 424.4 | 467.3 | 516.9 | 510.1 | 487.5 | 501.5 | 504.0 |
| 65° | 6041.2 | 4585.6 | 687.7 | 420.1 | 407.2 | 472.8 | 549.9 | 528.5 | 478.9 | 489.3 | 489.3 |
| 67.5° | 5239.6 | 3950.5 | 535.2 | 399.3 | 387.6 | 483.2 | 583.0 | 526.7 | 458.7 | 470.9 | 459.9 |
| 70° | 4156.3 | 3055.8 | 445.8 | 376.0 | 366.8 | 467.9 | 586.1 | 507.7 | 434.8 | 437.2 | 416.4 |
| 72.5° | 2758.2 | 2009.2 | 383.4 | 354.0 | 335.0 | 420.7 | 560.9 | 483.2 | 411.5 | 397.4 | 376.6 |
| 75° | 1351.5 | 1001.9 | 334.4 | 326.4 | 293.3 | 366.2 | 526.7 | 459.9 | 386.4 | 364.4 | 352.7 |
| 77.5° | 523.6 | 426.2 | 285.4 | 291.5 | 255.4 | 322.7 | 481.3 | 426.8 | 353.3 | 323.3 | 314.2 |
| 80° | 254.1 | 241.9 | 233.9 | 243.1 | 210.0 | 275.0 | 439.7 | 398.1 | 322.7 | 289.7 | 276.2 |
| 82.5° | 158.0 | 149.4 | 179.4 | 189.2 | 161.7 | 251.1 | 417.0 | 373.6 | 284.1 | 240.1 | 229.0 |
| 85° | 80.2 | 85.7 | 120.0 | 129.2 | 115.7 | 199.6 | 343.5 | 280.5 | 205.1 | 170.2 | 171.5 |
| 87.5° | 30.6 | 41.0 | 63.1 | 68.0 | 61.9 | 105.3 | 189.2 | 163.5 | 131.7 | 89.4 | 82.7 |
| 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)