

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: P526062

Luminaire Tested: **GALN-SA1A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3378 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

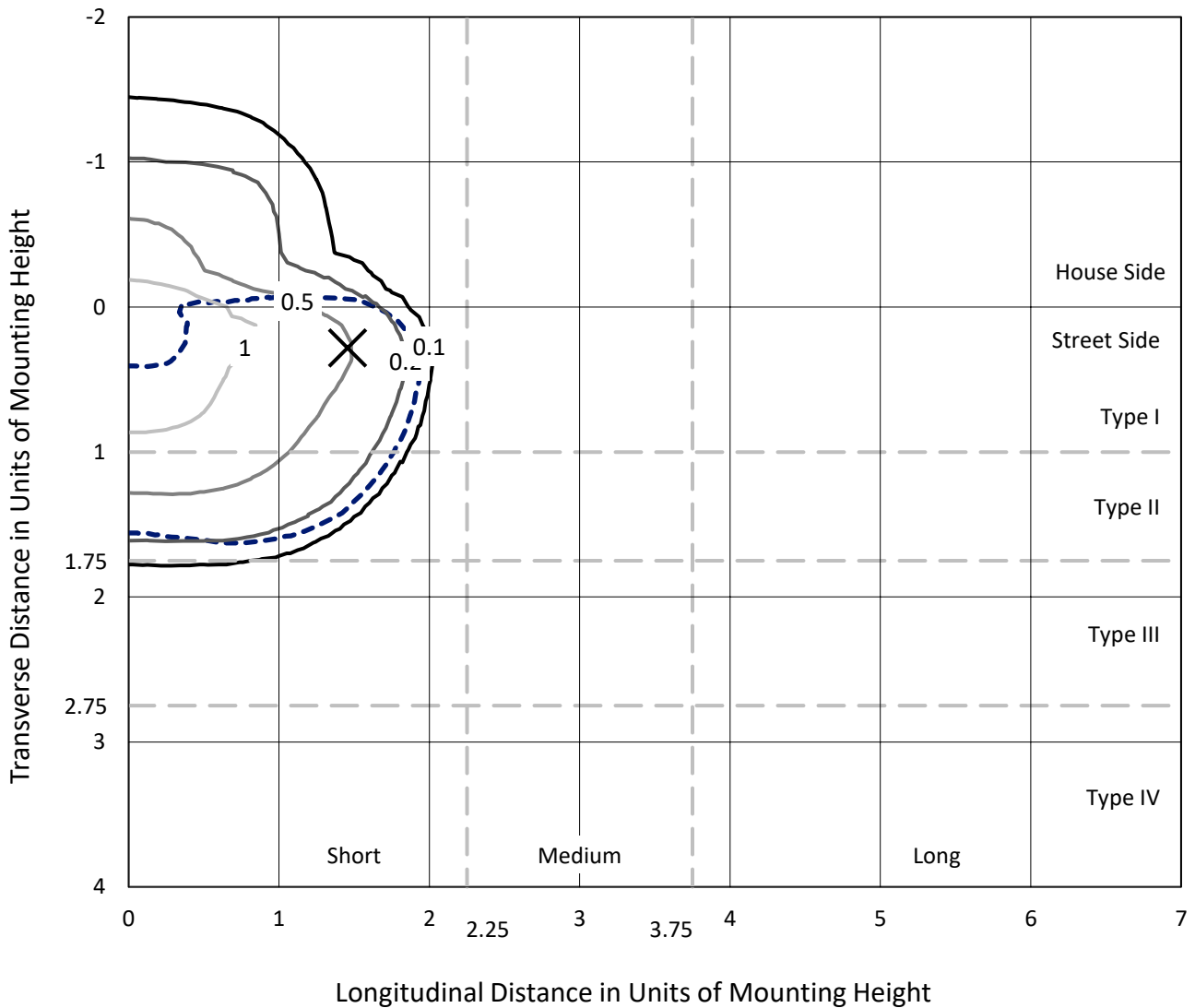
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

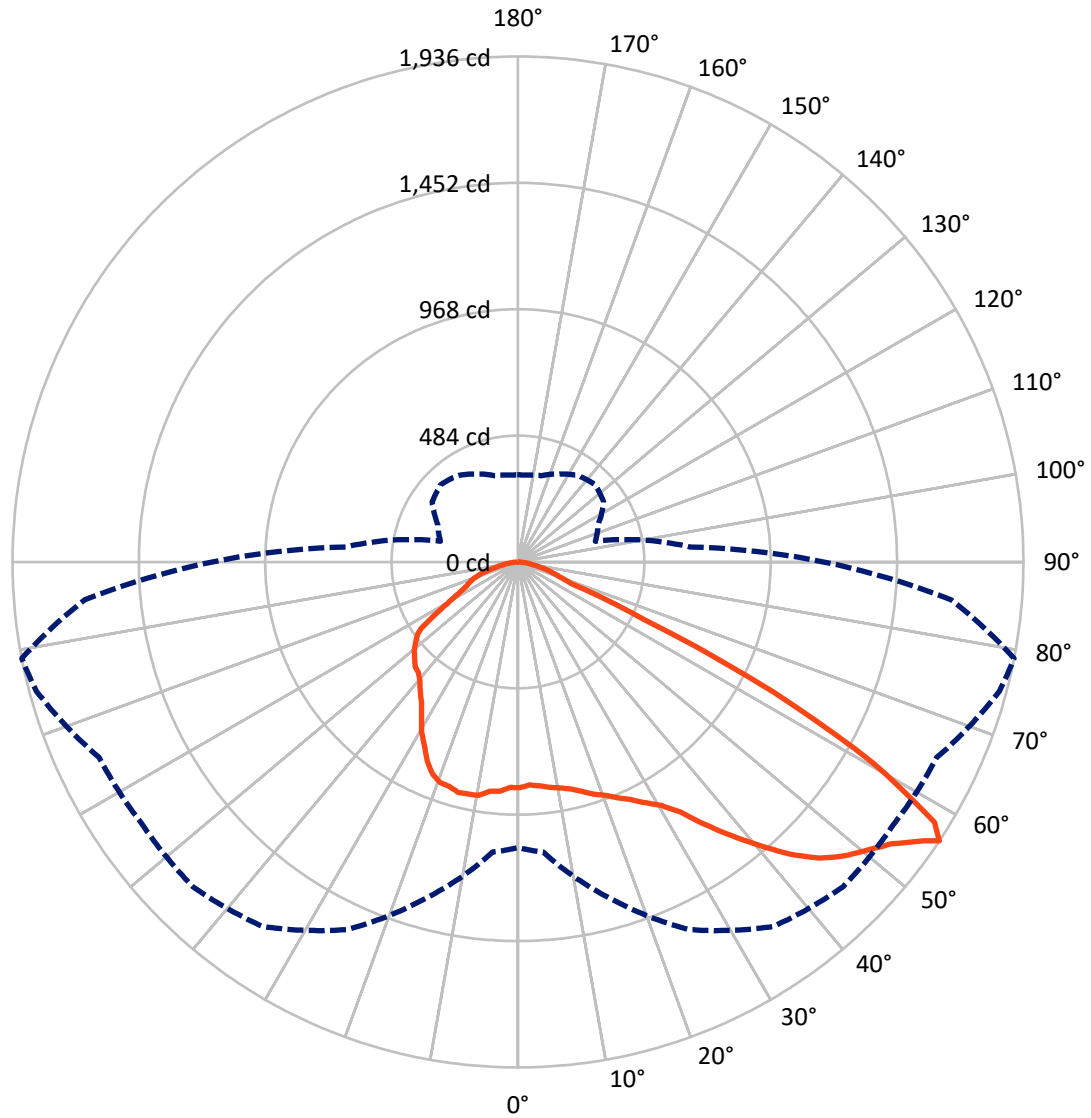
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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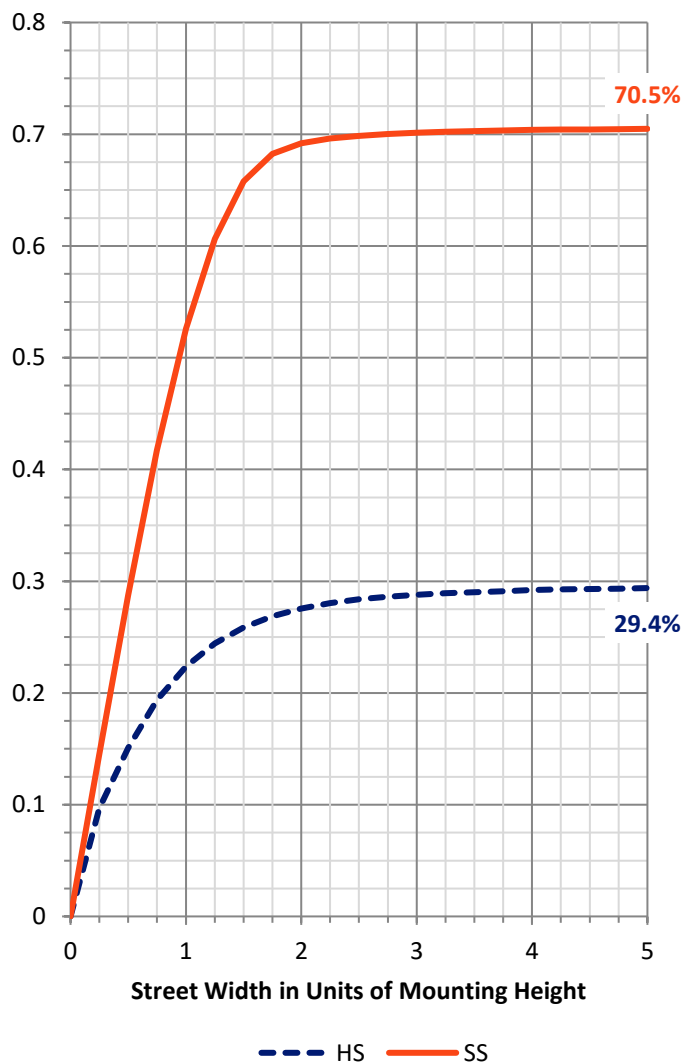
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 997.6 | 0.0 | 997.6 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 2380.4 | 0.0 | 2380.4 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 3378.0 | 0.0 | 3378.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.6 | 2.3 |
| 10°-20° | 215.1 | 6.4 |
| 20°-30° | 367.9 | 10.9 |
| 30°-40° | 563.9 | 16.7 |
| 40°-50° | 762.1 | 22.6 |
| 50°-60° | 875.3 | 25.9 |
| 60°-70° | 399.0 | 11.8 |
| 70°-80° | 98.4 | 2.9 |
| 80°-90° | 17.9 | 0.5 |
| 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° | 3378.0 | 100.0 |
| 0°-180° | 3378.0 | 100.0 |

Coefficient of Utilization



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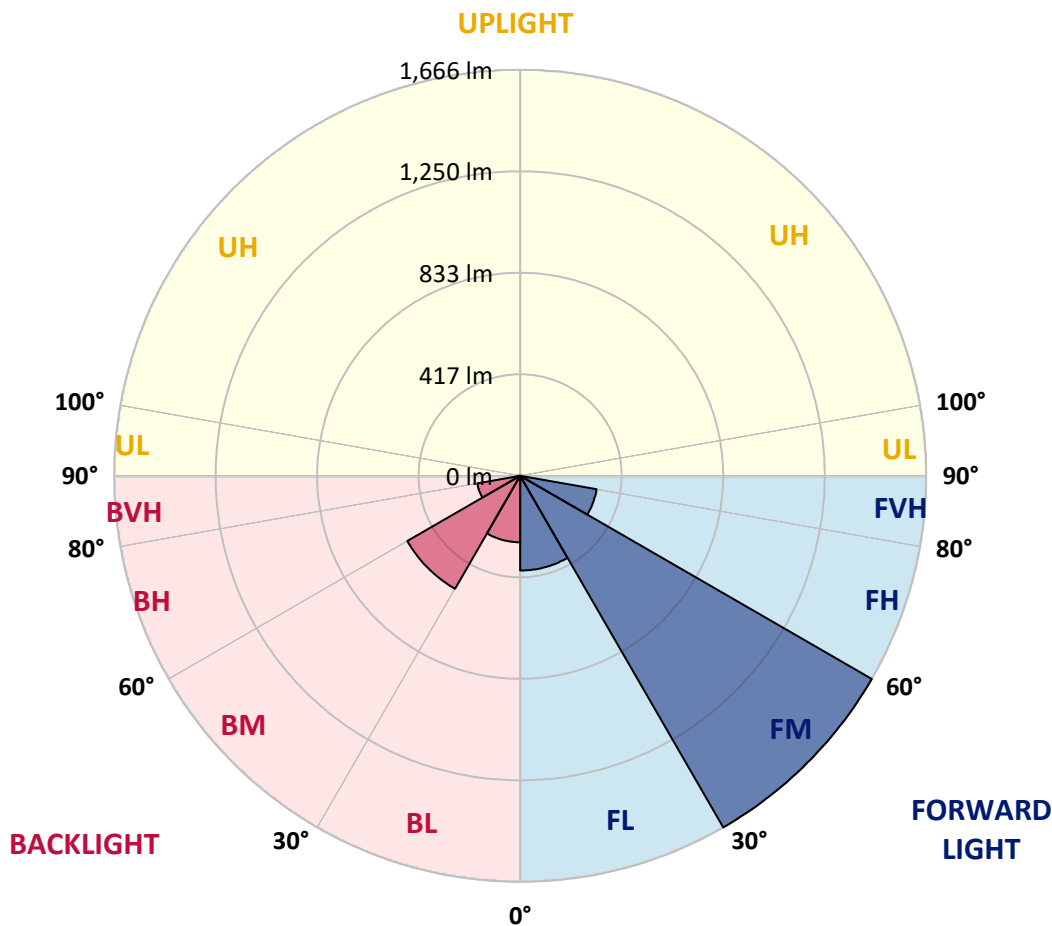
CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 388.7 | 11.5 | | | |
| FM (30°-60°) | 1666.1 | 49.3 | | | |
| FH (60°-80°) | 318.5 | 9.4 | | | G0/660 |
| FVH (80°-90°) | 7.1 | 0.2 | | | G0/10 |
| BL (0°-30°) | 272.9 | 8.1 | B1/500 | | |
| BM (30°-60°) | 535.1 | 15.8 | B1/1000 | | |
| BH (60°-80°) | 178.9 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 |
| 2.5° | 822.2 | 820.1 | 825.2 | 829.0 | 833.6 | 839.5 | 842.4 | 844.1 | 858.8 | 855.0 | 866.4 |
| 5° | 804.5 | 799.1 | 802.9 | 805.8 | 813.8 | 821.0 | 829.0 | 841.6 | 855.0 | 860.9 | 874.8 |
| 7.5° | 789.0 | 786.0 | 785.2 | 787.3 | 798.2 | 807.5 | 821.4 | 839.9 | 861.8 | 871.4 | 879.4 |
| 10° | 763.3 | 759.1 | 765.4 | 779.3 | 782.2 | 801.6 | 817.6 | 844.1 | 863.0 | 879.9 | 903.4 |
| 12.5° | 751.9 | 747.7 | 749.0 | 757.0 | 777.6 | 796.1 | 815.1 | 844.9 | 884.9 | 891.6 | 923.2 |
| 15° | 770.0 | 765.8 | 767.1 | 765.0 | 784.8 | 794.4 | 824.3 | 861.8 | 900.1 | 911.4 | 945.1 |
| 17.5° | 811.3 | 811.7 | 806.2 | 801.6 | 797.0 | 817.6 | 838.2 | 871.9 | 906.0 | 934.6 | 959.8 |
| 20° | 890.0 | 876.1 | 865.1 | 839.0 | 831.9 | 840.7 | 866.8 | 899.2 | 929.9 | 953.5 | 982.1 |
| 22.5° | 950.6 | 951.8 | 936.3 | 893.3 | 877.8 | 881.5 | 903.9 | 930.4 | 964.0 | 980.9 | 1013.7 |
| 25° | 1038.5 | 1029.7 | 1012.8 | 978.8 | 943.8 | 946.8 | 963.2 | 987.2 | 996.4 | 1008.2 | 1044.0 |
| 27.5° | 1118.9 | 1121.4 | 1088.2 | 1056.2 | 1012.8 | 1004.4 | 1033.9 | 1038.1 | 1022.5 | 1044.8 | 1057.0 |
| 30° | 1200.5 | 1198.4 | 1176.5 | 1139.1 | 1096.6 | 1098.3 | 1111.3 | 1090.7 | 1069.2 | 1081.4 | 1089.8 |
| 32.5° | 1285.1 | 1261.1 | 1260.3 | 1226.6 | 1194.2 | 1178.6 | 1162.6 | 1172.7 | 1139.5 | 1142.0 | 1134.0 |
| 35° | 1352.8 | 1356.2 | 1336.8 | 1312.9 | 1296.9 | 1269.5 | 1225.8 | 1243.8 | 1237.5 | 1234.6 | 1200.1 |
| 37.5° | 1402.1 | 1389.0 | 1398.7 | 1390.7 | 1375.6 | 1341.5 | 1296.0 | 1313.3 | 1316.2 | 1330.5 | 1290.6 |
| 40° | 1442.5 | 1437.0 | 1462.7 | 1466.9 | 1456.3 | 1382.7 | 1301.1 | 1352.4 | 1396.6 | 1427.7 | 1380.2 |
| 42.5° | 1461.8 | 1473.6 | 1500.5 | 1532.9 | 1509.4 | 1430.7 | 1327.2 | 1382.3 | 1480.7 | 1530.0 | 1465.2 |
| 45° | 1487.9 | 1472.8 | 1512.7 | 1572.1 | 1572.5 | 1471.1 | 1352.4 | 1422.7 | 1546.4 | 1617.9 | 1523.2 |
| 47.5° | 1461.4 | 1469.0 | 1510.2 | 1585.5 | 1604.9 | 1513.6 | 1420.6 | 1479.9 | 1618.8 | 1682.3 | 1577.1 |
| 50° | 1402.1 | 1417.2 | 1492.5 | 1570.8 | 1629.3 | 1558.6 | 1498.8 | 1541.8 | 1685.7 | 1734.1 | 1585.9 |
| 52.5° | 1340.2 | 1348.6 | 1466.4 | 1582.2 | 1640.2 | 1616.7 | 1603.6 | 1627.2 | 1767.3 | 1792.6 | 1596.9 |
| 55° | 1171.9 | 1211.9 | 1380.2 | 1577.1 | 1693.7 | 1721.4 | 1711.3 | 1745.8 | 1859.9 | 1885.1 | 1656.6 |
| 56° | 1094.0 | 1115.1 | 1328.4 | 1553.5 | 1704.2 | 1759.7 | 1754.7 | 1770.3 | 1909.1 | 1935.6 | 1665.9 |
| 57.5° | 950.1 | 951.8 | 1132.8 | 1449.2 | 1664.6 | 1771.1 | 1766.0 | 1778.2 | 1899.4 | 1881.3 | 1584.7 |
| 60° | 594.6 | 620.7 | 770.9 | 1114.7 | 1415.5 | 1643.2 | 1671.8 | 1573.7 | 1601.5 | 1563.2 | 1232.9 |
| 62.5° | 308.0 | 304.2 | 404.0 | 651.8 | 939.6 | 1176.5 | 1203.0 | 1198.4 | 1155.5 | 1099.5 | 805.4 |
| 65° | 153.6 | 154.4 | 211.2 | 322.7 | 481.4 | 616.0 | 690.1 | 698.1 | 584.1 | 537.3 | 382.1 |
| 67.5° | 111.5 | 115.7 | 151.9 | 197.3 | 226.8 | 253.7 | 311.0 | 305.1 | 231.0 | 219.7 | 203.7 |
| 70° | 86.7 | 90.5 | 123.3 | 150.6 | 136.8 | 136.8 | 149.0 | 154.0 | 164.5 | 169.2 | 174.6 |
| 72.5° | 63.1 | 66.1 | 94.3 | 103.9 | 89.6 | 96.4 | 111.5 | 123.3 | 134.2 | 135.9 | 142.2 |
| 75° | 43.3 | 45.9 | 61.9 | 57.2 | 53.9 | 66.5 | 81.6 | 92.6 | 100.6 | 104.8 | 108.6 |
| 77.5° | 28.2 | 29.0 | 35.3 | 29.9 | 34.5 | 42.9 | 53.0 | 62.3 | 70.3 | 73.6 | 74.5 |
| 80° | 12.6 | 13.9 | 15.1 | 18.9 | 24.0 | 30.7 | 37.9 | 45.4 | 50.5 | 51.8 | 54.3 |
| 82.5° | 7.2 | 7.2 | 9.3 | 13.5 | 17.7 | 22.3 | 27.4 | 32.8 | 38.7 | 40.0 | 39.6 |
| 85° | 3.8 | 3.8 | 5.5 | 8.0 | 10.9 | 13.0 | 12.6 | 13.0 | 13.9 | 16.0 | 15.6 |
| 87.5° | 1.3 | 1.3 | 1.7 | 1.7 | 2.1 | 2.5 | 2.1 | 2.9 | 3.8 | 3.8 | 3.8 |
| 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-SA1A-727-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 | 864.3 |
| 2.5° | 863.0 | 866.8 | 861.8 | 872.7 | 872.7 | 870.6 | 860.1 | 863.5 | 866.0 | 866.0 | 868.1 |
| 5° | 879.4 | 878.2 | 881.5 | 868.5 | 860.5 | 857.6 | 840.3 | 831.9 | 824.7 | 824.3 | 818.0 |
| 7.5° | 888.7 | 885.3 | 884.1 | 874.4 | 839.0 | 817.6 | 780.6 | 759.1 | 754.5 | 738.1 | 744.4 |
| 10° | 903.4 | 909.7 | 903.4 | 850.8 | 801.6 | 752.4 | 716.2 | 682.9 | 669.9 | 659.4 | 653.1 |
| 12.5° | 933.7 | 930.8 | 894.2 | 823.1 | 754.1 | 695.6 | 641.7 | 606.8 | 593.7 | 584.5 | 583.6 |
| 15° | 959.4 | 944.7 | 888.7 | 779.3 | 680.0 | 617.7 | 573.5 | 548.7 | 542.8 | 543.7 | 547.4 |
| 17.5° | 968.2 | 958.1 | 860.1 | 733.9 | 624.9 | 551.7 | 531.0 | 527.2 | 532.7 | 539.0 | 540.7 |
| 20° | 982.1 | 966.1 | 848.3 | 672.0 | 556.7 | 510.4 | 509.2 | 522.6 | 532.7 | 542.0 | 543.2 |
| 22.5° | 1011.2 | 970.8 | 810.0 | 613.5 | 510.0 | 498.2 | 510.4 | 521.8 | 537.3 | 544.9 | 538.2 |
| 25° | 1019.6 | 960.7 | 756.2 | 543.2 | 480.5 | 490.6 | 503.7 | 519.3 | 530.2 | 534.4 | 537.3 |
| 27.5° | 1026.7 | 945.1 | 683.4 | 496.5 | 471.3 | 490.2 | 503.7 | 516.7 | 522.6 | 526.4 | 529.8 |
| 30° | 1046.9 | 940.5 | 620.2 | 465.4 | 465.4 | 481.8 | 499.1 | 502.4 | 510.4 | 515.0 | 520.9 |
| 32.5° | 1057.0 | 908.5 | 555.4 | 445.6 | 459.5 | 486.0 | 487.3 | 493.6 | 494.0 | 497.8 | 491.5 |
| 35° | 1083.5 | 885.8 | 495.3 | 431.3 | 462.0 | 481.8 | 488.1 | 484.3 | 463.7 | 453.6 | 455.7 |
| 37.5° | 1102.9 | 874.4 | 451.9 | 429.6 | 462.4 | 486.4 | 489.8 | 461.2 | 439.7 | 422.9 | 427.1 |
| 40° | 1155.1 | 846.2 | 419.1 | 426.7 | 466.2 | 491.5 | 482.2 | 451.1 | 412.4 | 395.1 | 392.2 |
| 42.5° | 1195.0 | 826.0 | 398.5 | 423.3 | 469.2 | 498.6 | 478.4 | 430.9 | 391.3 | 375.3 | 379.5 |
| 45° | 1241.3 | 821.4 | 387.5 | 424.2 | 474.2 | 502.4 | 473.8 | 415.3 | 373.2 | 366.9 | 365.7 |
| 47.5° | 1257.7 | 788.1 | 375.8 | 417.0 | 473.0 | 501.2 | 458.2 | 403.5 | 366.5 | 367.3 | 370.7 |
| 50° | 1230.4 | 754.1 | 366.9 | 402.3 | 464.5 | 489.8 | 433.8 | 388.0 | 362.7 | 373.2 | 379.1 |
| 52.5° | 1195.5 | 719.1 | 348.8 | 382.5 | 447.3 | 472.1 | 422.5 | 387.1 | 358.9 | 355.6 | 356.8 |
| 55° | 1206.0 | 690.5 | 323.6 | 355.6 | 419.5 | 439.3 | 409.8 | 379.1 | 349.7 | 337.1 | 341.3 |
| 56° | 1171.9 | 661.1 | 307.2 | 338.7 | 400.6 | 418.3 | 403.5 | 372.0 | 342.1 | 333.7 | 333.7 |
| 57.5° | 1075.5 | 562.2 | 285.7 | 311.8 | 360.6 | 381.7 | 391.3 | 367.8 | 333.7 | 319.0 | 319.4 |
| 60° | 793.2 | 399.7 | 256.3 | 274.8 | 298.8 | 315.6 | 360.6 | 356.0 | 312.6 | 302.5 | 298.8 |
| 62.5° | 489.0 | 292.0 | 235.2 | 242.4 | 254.6 | 268.5 | 314.7 | 322.3 | 290.3 | 279.4 | 276.9 |
| 65° | 273.9 | 223.4 | 219.2 | 222.2 | 228.1 | 235.2 | 261.3 | 278.1 | 256.3 | 239.4 | 238.6 |
| 67.5° | 200.3 | 199.9 | 203.2 | 205.8 | 208.3 | 208.3 | 214.6 | 221.3 | 218.4 | 204.9 | 203.7 |
| 70° | 178.0 | 179.3 | 181.8 | 182.2 | 183.0 | 180.1 | 175.0 | 172.9 | 176.3 | 167.9 | 166.2 |
| 72.5° | 146.9 | 151.1 | 154.0 | 154.4 | 149.8 | 146.0 | 139.3 | 132.1 | 129.6 | 127.9 | 127.5 |
| 75° | 112.8 | 115.7 | 117.0 | 116.6 | 114.9 | 109.4 | 101.4 | 94.3 | 89.6 | 84.6 | 87.1 |
| 77.5° | 76.2 | 80.4 | 82.5 | 82.5 | 79.9 | 71.5 | 67.7 | 62.3 | 57.6 | 52.2 | 53.0 |
| 80° | 53.4 | 56.4 | 59.8 | 59.3 | 55.1 | 50.9 | 45.4 | 40.4 | 36.6 | 32.4 | 32.0 |
| 82.5° | 40.0 | 41.7 | 43.3 | 42.5 | 39.6 | 35.3 | 31.6 | 26.9 | 22.7 | 19.8 | 19.8 |
| 85° | 14.3 | 15.6 | 18.9 | 19.8 | 21.5 | 21.5 | 18.1 | 15.1 | 12.2 | 10.1 | 10.1 |
| 87.5° | 4.2 | 4.2 | 4.6 | 4.6 | 4.2 | 4.6 | 3.8 | 4.2 | 4.6 | 2.9 | 2.9 |
| 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)