

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: P526261

Luminaire Tested: **GALN-SA1B-722-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-722-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2340 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

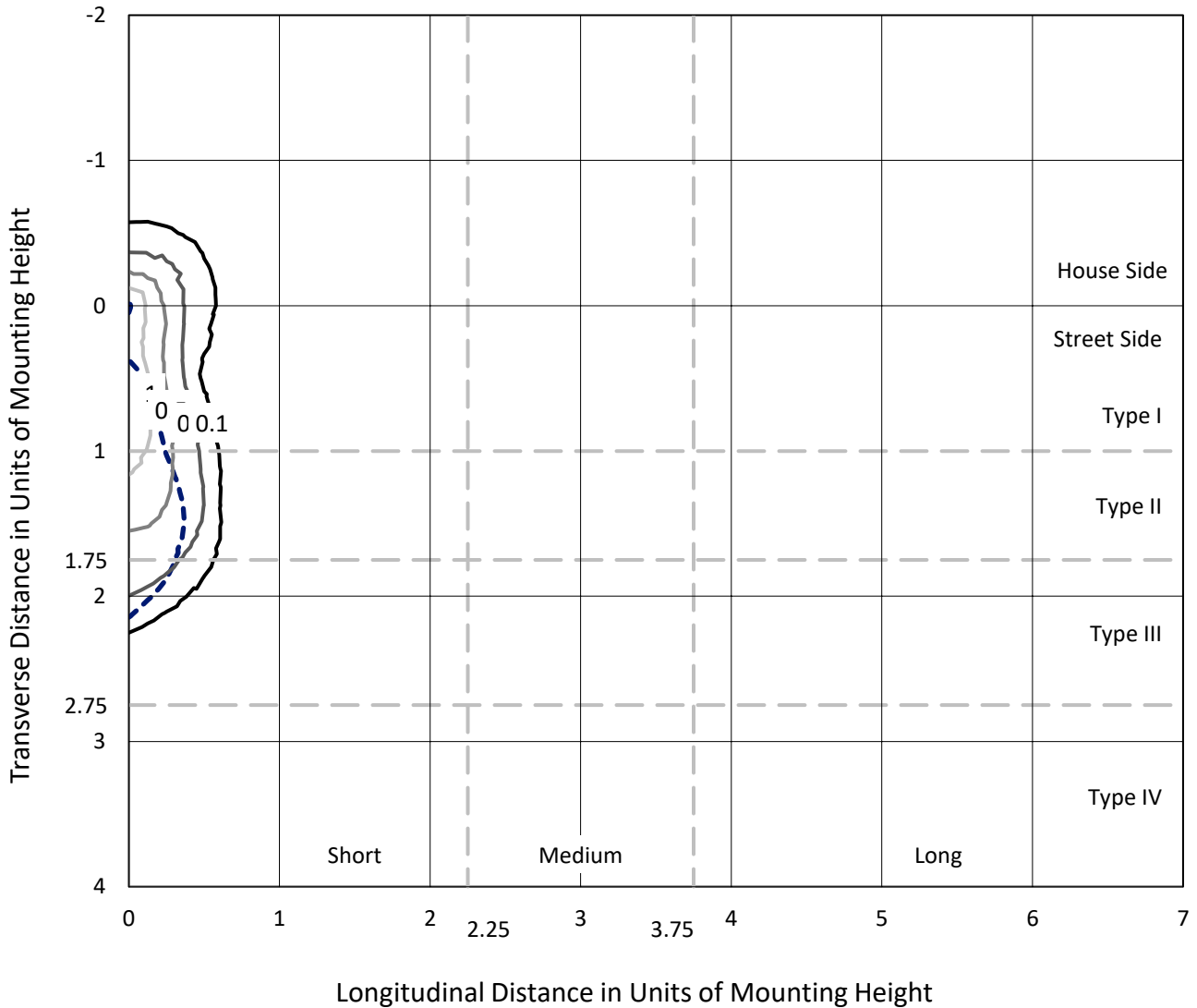
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

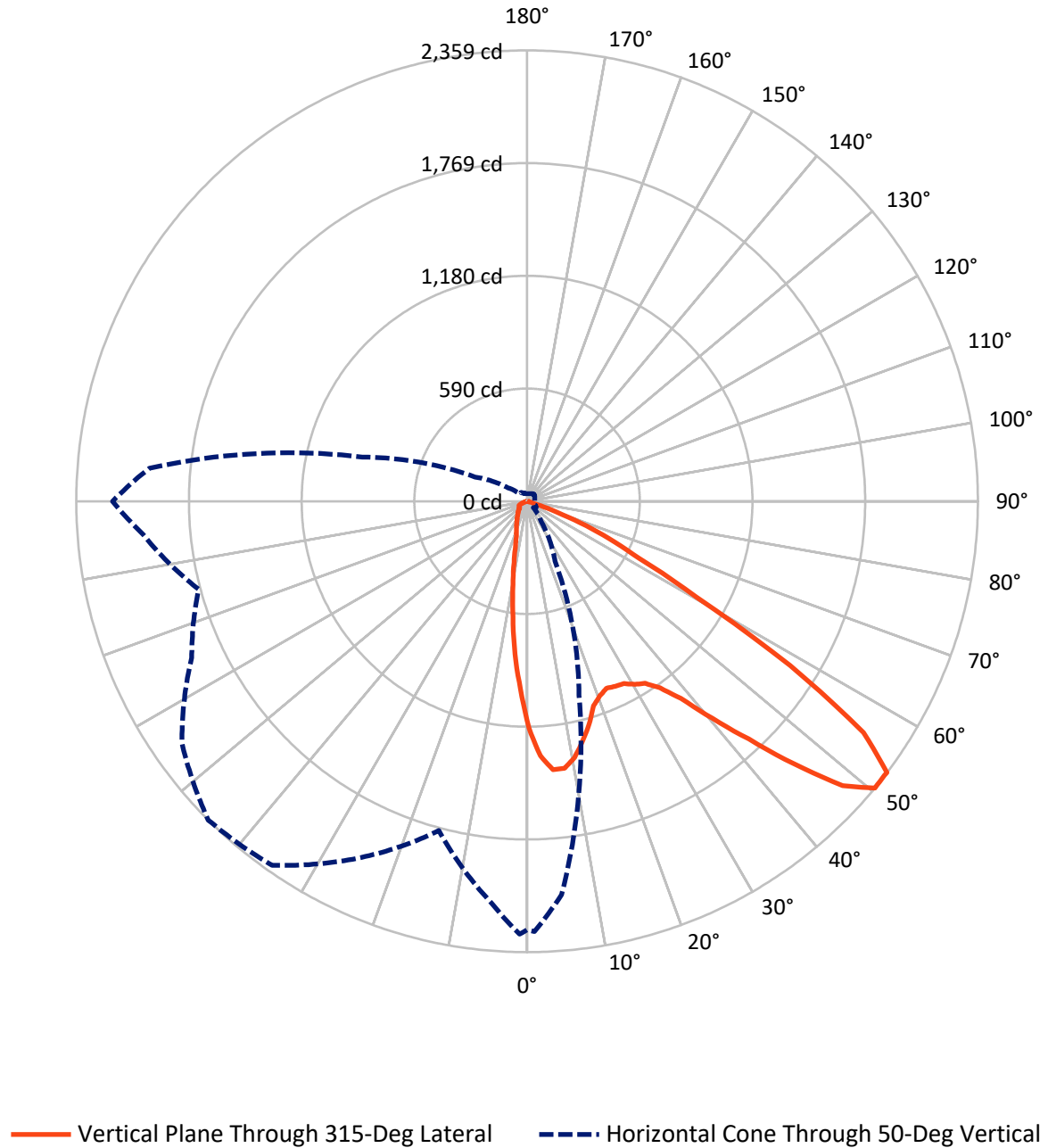
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 468.7 | 0.0 | 468.7 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 1871.3 | 0.0 | 1871.3 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 2340.0 | 0.0 | 2340.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.5 | 3.7 |
| 10°-20° | 171.9 | 7.3 |
| 20°-30° | 258.3 | 11.0 |
| 30°-40° | 387.6 | 16.6 |
| 40°-50° | 544.8 | 23.3 |
| 50°-60° | 587.7 | 25.1 |
| 60°-70° | 272.8 | 11.7 |
| 70°-80° | 25.7 | 1.1 |
| 80°-90° | 4.7 | 0.2 |
| 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° | 2340.0 | 100.0 |
| 0°-180° | 2340.0 | 100.0 |

Coefficient of Utilization



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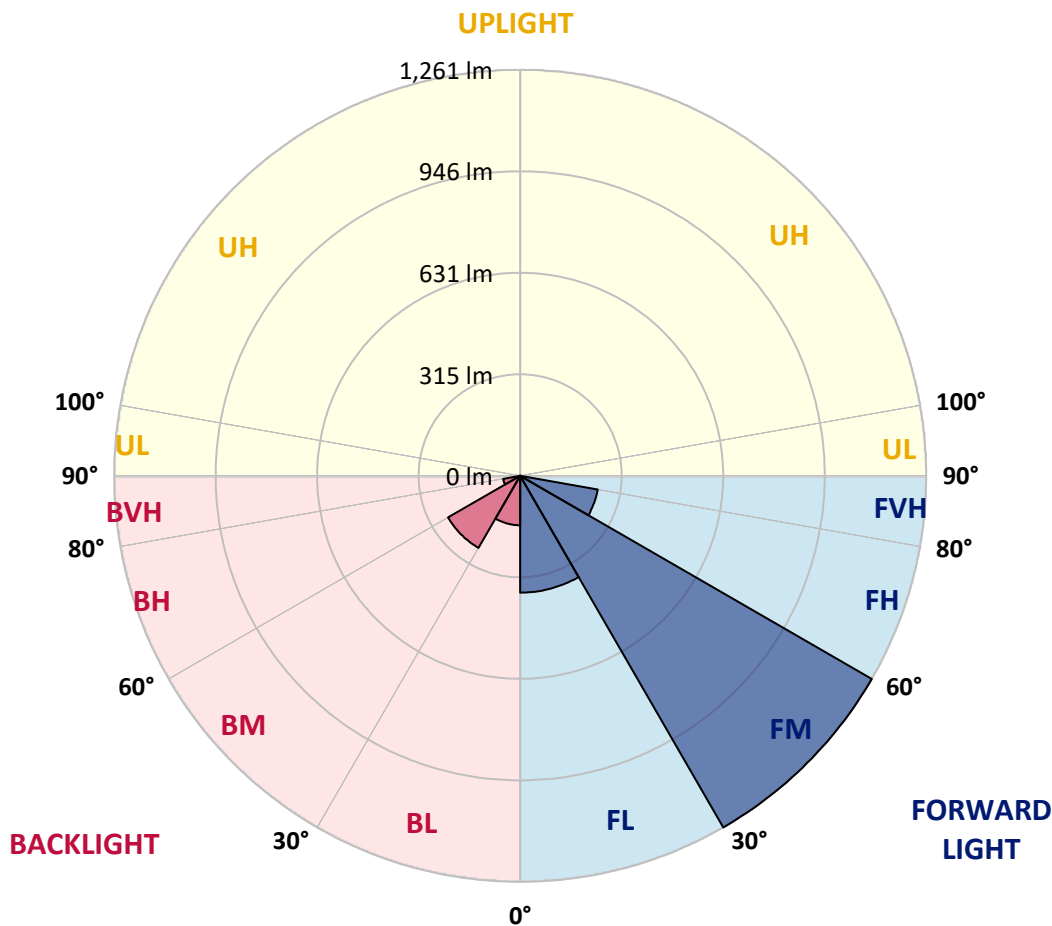
CATALOG NUMBER: GALN-SA1B-722-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 363.0 | 15.5 | | | |
| FM (30°-60°) | 1261.4 | 53.9 | | | |
| FH (60°-80°) | 244.7 | 10.5 | | | G0/660 |
| FVH (80°-90°) | 2.1 | 0.1 | | | G0/10 |
| BL (0°-30°) | 153.6 | 6.6 | B1/500 | | |
| BM (30°-60°) | 258.7 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 53.8 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 |
| 2.5° | 1233.6 | 1214.5 | 1190.4 | 1170.4 | 1140.7 | 1080.8 | 1064.6 | 1045.1 | 1028.8 | 1007.0 | 976.4 |
| 5° | 1121.7 | 1115.6 | 1104.5 | 1029.3 | 975.0 | 902.5 | 843.1 | 818.0 | 785.1 | 758.2 | 738.7 |
| 7.5° | 1036.3 | 1012.1 | 976.8 | 901.1 | 814.3 | 736.8 | 670.9 | 632.3 | 588.7 | 573.8 | 547.4 |
| 10° | 944.8 | 950.4 | 898.4 | 792.0 | 687.1 | 624.4 | 583.6 | 546.4 | 507.0 | 481.0 | 443.4 |
| 12.5° | 915.5 | 897.4 | 857.5 | 726.1 | 636.5 | 578.0 | 528.3 | 482.4 | 440.6 | 398.8 | 362.6 |
| 15° | 934.6 | 906.7 | 851.0 | 712.2 | 597.5 | 524.6 | 462.4 | 400.2 | 361.7 | 308.3 | 270.7 |
| 17.5° | 1002.8 | 980.5 | 905.8 | 727.0 | 577.6 | 473.6 | 381.2 | 317.1 | 258.1 | 209.9 | 190.8 |
| 20° | 1116.6 | 1085.0 | 991.2 | 746.1 | 547.8 | 411.8 | 309.2 | 230.3 | 174.6 | 154.1 | 143.5 |
| 22.5° | 1228.0 | 1210.8 | 1092.4 | 782.8 | 521.4 | 357.0 | 232.1 | 155.1 | 130.5 | 126.7 | 119.8 |
| 25° | 1440.2 | 1388.6 | 1247.0 | 849.2 | 500.9 | 305.5 | 175.0 | 124.9 | 110.5 | 107.7 | 108.6 |
| 27.5° | 1566.4 | 1523.3 | 1390.0 | 893.3 | 478.2 | 266.0 | 148.1 | 114.7 | 104.9 | 98.9 | 96.6 |
| 30° | 1687.6 | 1637.5 | 1461.1 | 919.3 | 429.5 | 224.2 | 131.4 | 110.0 | 107.7 | 98.9 | 96.1 |
| 32.5° | 1780.9 | 1731.7 | 1563.7 | 958.3 | 409.5 | 197.3 | 108.2 | 85.9 | 79.9 | 78.9 | 87.3 |
| 35° | 1923.9 | 1871.5 | 1651.4 | 979.6 | 394.2 | 183.4 | 93.8 | 76.6 | 69.6 | 66.9 | 67.3 |
| 37.5° | 2057.2 | 2021.4 | 1732.7 | 988.0 | 377.9 | 179.2 | 84.0 | 68.7 | 62.7 | 60.8 | 60.4 |
| 40° | 2168.6 | 2088.8 | 1809.7 | 996.8 | 371.0 | 171.3 | 78.0 | 62.7 | 58.5 | 55.7 | 55.7 |
| 42.5° | 2219.7 | 2138.4 | 1896.1 | 991.7 | 369.1 | 158.8 | 78.0 | 57.6 | 54.3 | 51.5 | 51.1 |
| 45° | 2208.5 | 2175.6 | 1934.6 | 989.4 | 369.1 | 146.2 | 71.0 | 56.2 | 51.5 | 47.8 | 46.9 |
| 47.5° | 2237.3 | 2194.1 | 1982.9 | 999.1 | 361.7 | 137.4 | 59.9 | 59.0 | 48.7 | 44.1 | 43.2 |
| 50° | 2242.4 | 2250.8 | 2066.9 | 1049.7 | 345.4 | 126.3 | 46.9 | 58.0 | 46.9 | 39.9 | 39.0 |
| 52° | 2275.9 | 2223.9 | 2092.5 | 1076.6 | 328.2 | 117.9 | 39.5 | 49.7 | 45.0 | 37.1 | 36.2 |
| 52.5° | 2229.9 | 2263.8 | 2098.5 | 1086.4 | 330.1 | 112.4 | 38.1 | 48.7 | 44.1 | 37.1 | 34.8 |
| 55° | 2178.4 | 2210.9 | 2073.9 | 1107.3 | 302.7 | 88.2 | 29.7 | 35.3 | 39.9 | 32.5 | 31.1 |
| 57.5° | 1893.3 | 1926.3 | 1802.3 | 1014.0 | 246.5 | 62.2 | 24.6 | 26.5 | 35.3 | 30.2 | 28.8 |
| 60° | 1683.0 | 1659.3 | 1512.6 | 845.9 | 175.0 | 34.8 | 19.5 | 20.4 | 38.5 | 27.9 | 27.4 |
| 62.5° | 1538.1 | 1487.5 | 1264.2 | 653.2 | 106.8 | 23.2 | 15.3 | 15.8 | 29.7 | 26.0 | 26.0 |
| 65° | 1137.9 | 1081.3 | 839.9 | 395.1 | 52.5 | 16.2 | 11.6 | 12.5 | 18.6 | 22.3 | 22.3 |
| 67.5° | 649.5 | 627.7 | 405.8 | 178.3 | 21.8 | 10.2 | 8.8 | 9.7 | 14.4 | 18.1 | 17.2 |
| 70° | 298.5 | 267.9 | 156.0 | 37.6 | 10.2 | 7.0 | 7.0 | 7.9 | 11.6 | 13.5 | 12.5 |
| 72.5° | 87.3 | 82.6 | 38.1 | 6.0 | 4.2 | 4.2 | 4.6 | 6.0 | 8.8 | 10.2 | 9.3 |
| 75° | 6.5 | 4.2 | 2.8 | 1.9 | 1.9 | 2.8 | 3.7 | 6.0 | 8.8 | 9.7 | 7.9 |
| 77.5° | 0.5 | 0.9 | 0.5 | 0.5 | 1.4 | 2.8 | 4.2 | 7.4 | 11.6 | 12.1 | 8.8 |
| 80° | 0.5 | 0.5 | 0.0 | 0.5 | 1.4 | 2.8 | 4.6 | 8.4 | 13.0 | 13.9 | 7.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.5 | 1.9 | 3.7 | 5.6 | 8.8 | 12.1 | 14.9 | 7.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.5 | 2.8 | 5.1 | 6.5 | 2.3 | 1.4 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-SA1B-722-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 |
| 2.5° | 998.2 | 986.1 | 981.5 | 985.6 | 984.3 | 982.9 | 1008.4 | 1002.8 | 1001.9 | 1010.3 | 1008.4 |
| 5° | 749.3 | 728.0 | 786.5 | 762.8 | 787.4 | 802.3 | 805.0 | 806.4 | 823.6 | 805.5 | 829.2 |
| 7.5° | 533.9 | 539.5 | 539.0 | 554.8 | 583.1 | 608.2 | 623.1 | 611.4 | 610.5 | 608.2 | 598.0 |
| 10° | 426.7 | 416.9 | 415.1 | 411.3 | 420.2 | 441.5 | 459.6 | 445.2 | 435.0 | 448.9 | 444.8 |
| 12.5° | 348.7 | 335.2 | 327.8 | 312.9 | 313.4 | 327.8 | 327.8 | 327.8 | 338.0 | 345.9 | 351.9 |
| 15° | 267.4 | 256.3 | 256.3 | 241.4 | 238.2 | 238.6 | 246.1 | 247.0 | 263.2 | 267.9 | 270.2 |
| 17.5° | 187.1 | 181.1 | 188.0 | 194.1 | 190.4 | 191.3 | 194.1 | 195.0 | 197.3 | 195.5 | 200.1 |
| 20° | 143.9 | 143.0 | 144.9 | 155.5 | 163.4 | 168.1 | 164.8 | 160.2 | 157.4 | 150.9 | 150.9 |
| 22.5° | 122.1 | 124.0 | 127.2 | 136.0 | 146.2 | 149.0 | 145.3 | 134.6 | 126.3 | 125.4 | 125.8 |
| 25° | 108.6 | 110.5 | 115.6 | 121.2 | 126.7 | 131.4 | 127.7 | 119.8 | 115.1 | 111.0 | 111.0 |
| 27.5° | 100.3 | 101.2 | 104.0 | 108.2 | 112.8 | 116.5 | 115.1 | 111.0 | 105.9 | 104.0 | 99.8 |
| 30° | 93.8 | 95.2 | 98.4 | 99.4 | 103.5 | 105.4 | 103.1 | 102.1 | 98.9 | 96.6 | 95.2 |
| 32.5° | 90.5 | 90.1 | 92.4 | 93.3 | 93.8 | 95.2 | 92.4 | 93.8 | 93.3 | 89.6 | 88.2 |
| 35° | 68.2 | 72.0 | 78.0 | 83.1 | 84.5 | 86.4 | 85.9 | 84.0 | 78.9 | 74.7 | 69.6 |
| 37.5° | 61.3 | 63.6 | 66.9 | 71.0 | 76.6 | 78.9 | 78.0 | 73.4 | 67.3 | 64.5 | 63.6 |
| 40° | 56.6 | 58.0 | 60.8 | 63.6 | 69.2 | 73.4 | 70.1 | 65.9 | 61.3 | 59.0 | 57.6 |
| 42.5° | 52.5 | 52.9 | 54.3 | 57.1 | 61.3 | 67.8 | 62.2 | 56.6 | 54.8 | 53.4 | 52.5 |
| 45° | 47.8 | 47.8 | 49.7 | 51.1 | 55.7 | 61.7 | 56.2 | 51.1 | 50.1 | 49.2 | 48.7 |
| 47.5° | 44.1 | 44.6 | 45.5 | 47.4 | 51.1 | 55.2 | 51.5 | 47.4 | 45.0 | 44.6 | 43.6 |
| 50° | 39.5 | 39.9 | 41.8 | 43.6 | 48.3 | 50.6 | 48.3 | 43.6 | 41.3 | 39.9 | 39.9 |
| 52° | 35.7 | 37.1 | 39.0 | 42.7 | 46.0 | 49.7 | 46.9 | 41.8 | 39.0 | 37.6 | 36.7 |
| 52.5° | 35.3 | 36.2 | 38.1 | 42.2 | 46.0 | 49.2 | 46.4 | 41.3 | 38.1 | 37.1 | 36.2 |
| 55° | 31.6 | 33.0 | 36.2 | 41.3 | 45.5 | 49.2 | 45.5 | 40.9 | 36.2 | 33.9 | 33.0 |
| 57.5° | 30.2 | 31.1 | 35.3 | 41.8 | 45.0 | 49.2 | 45.5 | 40.9 | 36.2 | 32.0 | 31.1 |
| 60° | 28.8 | 30.6 | 35.3 | 40.4 | 44.6 | 49.7 | 46.0 | 40.4 | 35.3 | 30.2 | 30.2 |
| 62.5° | 27.4 | 28.8 | 34.8 | 39.5 | 42.7 | 47.8 | 44.1 | 39.5 | 33.9 | 28.8 | 28.3 |
| 65° | 23.7 | 26.0 | 30.6 | 33.0 | 36.7 | 41.3 | 37.6 | 34.4 | 29.7 | 25.5 | 25.1 |
| 67.5° | 18.1 | 19.0 | 22.7 | 25.5 | 27.9 | 32.0 | 30.2 | 26.0 | 22.7 | 19.5 | 19.5 |
| 70° | 12.5 | 13.5 | 16.2 | 17.6 | 20.0 | 22.3 | 20.9 | 17.6 | 15.3 | 13.5 | 13.0 |
| 72.5° | 8.8 | 9.3 | 10.2 | 11.1 | 12.1 | 13.0 | 12.5 | 10.2 | 8.8 | 8.4 | 7.9 |
| 75° | 7.0 | 7.9 | 8.4 | 7.9 | 7.4 | 7.0 | 7.0 | 6.0 | 5.1 | 4.6 | 4.6 |
| 77.5° | 7.0 | 7.4 | 7.0 | 6.0 | 5.1 | 4.6 | 4.2 | 3.7 | 2.8 | 2.3 | 2.8 |
| 80° | 6.0 | 6.0 | 6.0 | 5.1 | 4.6 | 4.2 | 3.7 | 3.2 | 2.8 | 2.3 | 2.3 |
| 82.5° | 6.5 | 6.5 | 6.0 | 5.1 | 5.1 | 4.2 | 4.2 | 3.7 | 3.2 | 2.3 | 2.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.9 | 2.3 | 4.2 | 4.2 | 3.7 | 3.2 | 2.8 | 2.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 1.9 | 2.3 | 2.8 | 2.8 | 2.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 |
| 2.5° | 1025.1 | 1042.8 | 1076.2 | 1109.6 | 1130.0 | 1154.2 | 1197.8 | 1221.0 | 1251.2 | 1266.1 | 1295.3 |
| 5° | 825.9 | 867.7 | 882.6 | 920.6 | 961.5 | 1002.4 | 1067.4 | 1138.9 | 1198.3 | 1239.1 | 1292.1 |
| 7.5° | 602.6 | 612.4 | 669.9 | 695.5 | 762.3 | 836.6 | 925.3 | 1015.4 | 1090.6 | 1157.4 | 1197.8 |
| 10° | 451.7 | 487.5 | 523.7 | 572.4 | 626.3 | 702.9 | 787.9 | 887.2 | 984.7 | 1051.6 | 1102.6 |
| 12.5° | 363.1 | 391.4 | 439.7 | 492.1 | 558.5 | 609.1 | 694.5 | 793.0 | 919.3 | 984.7 | 1052.0 |
| 15° | 274.8 | 311.1 | 365.8 | 420.2 | 490.3 | 543.7 | 630.0 | 754.0 | 916.5 | 1006.5 | 1064.6 |
| 17.5° | 203.8 | 228.4 | 277.6 | 338.5 | 410.0 | 485.2 | 601.7 | 749.8 | 947.6 | 1054.8 | 1114.7 |
| 20° | 156.0 | 164.4 | 195.5 | 249.8 | 327.3 | 425.7 | 555.7 | 767.9 | 1039.5 | 1172.3 | 1233.1 |
| 22.5° | 126.3 | 130.0 | 142.1 | 179.7 | 254.9 | 373.7 | 533.9 | 780.4 | 1143.0 | 1313.0 | 1394.2 |
| 25° | 110.0 | 109.1 | 117.0 | 133.2 | 199.2 | 325.0 | 506.1 | 827.8 | 1269.8 | 1478.2 | 1551.1 |
| 27.5° | 100.3 | 100.3 | 104.0 | 115.6 | 165.3 | 293.4 | 488.4 | 861.7 | 1397.5 | 1623.6 | 1663.0 |
| 30° | 95.2 | 96.1 | 106.8 | 110.5 | 137.4 | 255.8 | 459.2 | 896.0 | 1519.6 | 1716.4 | 1770.7 |
| 32.5° | 88.2 | 84.5 | 82.2 | 91.5 | 115.6 | 221.9 | 429.9 | 910.4 | 1618.4 | 1830.2 | 1876.6 |
| 35° | 67.8 | 65.9 | 68.7 | 75.7 | 99.4 | 193.1 | 397.4 | 926.7 | 1732.2 | 1962.0 | 1971.3 |
| 37.5° | 61.3 | 60.8 | 62.7 | 68.7 | 83.6 | 168.1 | 374.2 | 922.5 | 1819.0 | 2071.1 | 2046.0 |
| 40° | 56.6 | 56.6 | 58.0 | 63.1 | 74.7 | 150.4 | 350.1 | 918.8 | 1903.0 | 2193.7 | 2120.3 |
| 42.5° | 52.9 | 52.9 | 55.2 | 58.5 | 71.0 | 138.8 | 332.0 | 913.7 | 1973.6 | 2268.9 | 2164.0 |
| 45° | 47.8 | 49.2 | 52.9 | 56.2 | 72.0 | 130.9 | 318.5 | 894.2 | 1997.8 | 2268.0 | 2143.1 |
| 47.5° | 44.1 | 46.0 | 49.7 | 54.3 | 65.0 | 128.6 | 309.2 | 877.0 | 1989.4 | 2212.2 | 2077.6 |
| 50° | 39.9 | 42.2 | 47.4 | 55.2 | 55.2 | 124.0 | 299.5 | 892.3 | 1983.4 | 2169.1 | 2014.9 |
| 52° | 37.1 | 39.0 | 45.5 | 53.9 | 48.3 | 114.2 | 293.4 | 922.0 | 2008.0 | 2163.5 | 1987.1 |
| 52.5° | 36.7 | 38.1 | 44.1 | 52.9 | 46.0 | 112.4 | 289.2 | 929.0 | 2015.9 | 2149.6 | 2006.1 |
| 55° | 32.5 | 34.4 | 40.4 | 41.3 | 37.6 | 92.4 | 275.8 | 944.8 | 1976.9 | 2122.2 | 1988.0 |
| 57.5° | 30.6 | 31.6 | 35.7 | 33.9 | 32.5 | 69.6 | 237.2 | 920.2 | 1755.9 | 1884.9 | 1849.7 |
| 60° | 28.3 | 29.2 | 33.4 | 26.5 | 27.4 | 48.7 | 178.3 | 799.0 | 1410.0 | 1570.6 | 1634.2 |
| 62.5° | 27.4 | 26.9 | 31.6 | 21.4 | 23.2 | 35.3 | 125.8 | 649.5 | 1086.4 | 1293.0 | 1403.0 |
| 65° | 24.1 | 23.7 | 22.7 | 18.1 | 20.0 | 27.4 | 75.2 | 423.9 | 765.6 | 978.2 | 1038.6 |
| 67.5° | 18.6 | 19.5 | 16.7 | 14.4 | 16.7 | 21.4 | 41.8 | 189.9 | 401.6 | 586.8 | 635.6 |
| 70° | 13.0 | 13.9 | 13.5 | 12.5 | 14.9 | 17.6 | 24.1 | 65.0 | 166.2 | 308.3 | 339.8 |
| 72.5° | 7.9 | 9.7 | 10.2 | 10.7 | 13.0 | 15.3 | 17.2 | 20.9 | 44.1 | 109.1 | 135.6 |
| 75° | 4.6 | 6.5 | 7.9 | 9.3 | 10.7 | 13.0 | 14.4 | 14.9 | 15.3 | 20.4 | 33.0 |
| 77.5° | 3.2 | 4.6 | 7.0 | 8.8 | 10.7 | 13.0 | 15.3 | 16.2 | 15.3 | 14.4 | 15.3 |
| 80° | 2.8 | 4.6 | 6.5 | 8.4 | 11.1 | 13.5 | 15.3 | 15.3 | 14.9 | 13.0 | 13.9 |
| 82.5° | 2.8 | 4.6 | 7.0 | 8.8 | 10.7 | 13.0 | 14.9 | 15.3 | 13.9 | 13.0 | 13.5 |
| 85° | 3.2 | 5.1 | 7.4 | 9.3 | 11.6 | 10.7 | 9.7 | 7.9 | 7.4 | 6.0 | 6.5 |
| 87.5° | 3.2 | 4.6 | 4.6 | 5.1 | 5.6 | 5.6 | 5.6 | 5.1 | 4.2 | 3.7 | 3.7 |
| 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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| 0° | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 | 1186.7 |
| 2.5° | 1296.7 | 1333.8 | 1332.5 | 1333.4 | 1327.8 | 1290.2 | 1272.1 | 1226.1 | 1239.1 | 1233.6 |
| 5° | 1346.4 | 1383.1 | 1414.6 | 1410.9 | 1368.2 | 1317.1 | 1241.5 | 1170.0 | 1150.5 | 1121.7 |
| 7.5° | 1296.7 | 1384.9 | 1414.2 | 1410.0 | 1346.8 | 1281.4 | 1160.7 | 1089.2 | 1055.3 | 1036.3 |
| 10° | 1217.8 | 1319.9 | 1356.1 | 1363.6 | 1320.8 | 1221.5 | 1110.5 | 995.9 | 977.8 | 944.8 |
| 12.5° | 1172.7 | 1247.0 | 1269.3 | 1289.3 | 1274.4 | 1200.1 | 1072.5 | 962.4 | 937.4 | 915.5 |
| 15° | 1136.1 | 1180.2 | 1189.5 | 1212.2 | 1221.0 | 1181.1 | 1092.4 | 998.6 | 936.9 | 934.6 |
| 17.5° | 1170.0 | 1151.9 | 1118.0 | 1124.9 | 1152.8 | 1181.6 | 1144.0 | 1070.1 | 1010.3 | 1002.8 |
| 20° | 1226.1 | 1146.3 | 1069.7 | 1086.9 | 1110.1 | 1198.3 | 1222.0 | 1170.0 | 1135.6 | 1116.6 |
| 22.5° | 1290.7 | 1156.0 | 1054.4 | 1062.7 | 1106.8 | 1235.9 | 1348.2 | 1319.5 | 1255.4 | 1228.0 |
| 25° | 1410.0 | 1183.0 | 1066.4 | 1072.0 | 1132.4 | 1288.4 | 1462.5 | 1483.8 | 1445.7 | 1440.2 |
| 27.5° | 1526.5 | 1252.6 | 1092.9 | 1080.4 | 1145.4 | 1339.4 | 1531.6 | 1646.3 | 1579.4 | 1566.4 |
| 30° | 1585.9 | 1309.2 | 1132.4 | 1111.0 | 1199.2 | 1370.5 | 1573.4 | 1752.2 | 1693.7 | 1687.6 |
| 32.5° | 1676.9 | 1360.8 | 1163.0 | 1135.6 | 1229.4 | 1409.1 | 1651.4 | 1867.8 | 1811.1 | 1780.9 |
| 35° | 1715.0 | 1417.0 | 1230.3 | 1198.3 | 1315.7 | 1462.9 | 1691.3 | 1970.8 | 1953.2 | 1923.9 |
| 37.5° | 1788.4 | 1477.3 | 1309.7 | 1307.8 | 1420.2 | 1533.0 | 1763.3 | 2111.0 | 2107.8 | 2057.2 |
| 40° | 1794.4 | 1543.2 | 1435.1 | 1493.6 | 1581.8 | 1655.1 | 1826.4 | 2150.0 | 2203.0 | 2168.6 |
| 42.5° | 1803.7 | 1658.8 | 1651.9 | 1700.2 | 1775.8 | 1760.0 | 1828.8 | 2159.3 | 2240.1 | 2219.7 |
| 45° | 1807.9 | 1774.4 | 1872.4 | 1961.5 | 1993.1 | 1897.5 | 1806.9 | 2141.7 | 2259.6 | 2208.5 |
| 47.5° | 1774.4 | 1873.8 | 2050.7 | 2222.9 | 2232.2 | 1982.0 | 1797.7 | 2123.6 | 2271.2 | 2237.3 |
| 50° | 1779.1 | 1936.0 | 2204.8 | 2359.0 | 2325.1 | 2056.7 | 1783.3 | 2112.4 | 2265.2 | 2242.4 |
| 52° | 1767.9 | 1937.4 | 2226.6 | 2356.2 | 2332.5 | 2015.4 | 1758.7 | 2069.7 | 2259.6 | 2275.9 |
| 52.5° | 1780.5 | 1929.0 | 2203.9 | 2358.0 | 2327.4 | 2035.8 | 1755.4 | 2093.4 | 2262.9 | 2229.9 |
| 55° | 1737.3 | 1829.7 | 2070.6 | 2136.1 | 2131.5 | 1847.8 | 1655.6 | 2014.9 | 2177.9 | 2178.4 |
| 57.5° | 1570.2 | 1585.9 | 1624.0 | 1622.6 | 1601.3 | 1452.7 | 1416.0 | 1852.9 | 1941.6 | 1893.3 |
| 60° | 1383.5 | 1161.1 | 1058.5 | 1016.8 | 993.1 | 968.9 | 1252.6 | 1695.1 | 1703.4 | 1683.0 |
| 62.5° | 1195.5 | 805.0 | 668.5 | 656.9 | 662.5 | 750.7 | 1210.8 | 1632.4 | 1582.2 | 1538.1 |
| 65° | 964.8 | 586.8 | 485.6 | 470.3 | 524.6 | 619.8 | 980.1 | 1251.7 | 1174.6 | 1137.9 |
| 67.5° | 605.9 | 428.1 | 328.2 | 299.5 | 364.9 | 426.7 | 643.9 | 786.5 | 700.1 | 649.5 |
| 70° | 359.3 | 239.1 | 148.6 | 133.2 | 150.0 | 227.5 | 360.7 | 392.3 | 324.5 | 298.5 |
| 72.5° | 141.6 | 87.7 | 41.3 | 35.3 | 36.7 | 79.9 | 132.8 | 129.5 | 98.0 | 87.3 |
| 75° | 38.1 | 26.5 | 14.4 | 11.6 | 9.7 | 14.9 | 21.4 | 13.9 | 5.1 | 6.5 |
| 77.5° | 17.6 | 15.8 | 12.5 | 9.7 | 7.4 | 5.6 | 2.8 | 0.9 | 0.9 | 0.5 |
| 80° | 15.3 | 13.5 | 11.6 | 9.7 | 7.4 | 4.6 | 2.3 | 0.5 | 0.5 | 0.5 |
| 82.5° | 14.4 | 12.5 | 10.7 | 8.8 | 7.0 | 4.6 | 2.3 | 0.5 | 0.0 | 0.0 |
| 85° | 6.0 | 7.9 | 8.8 | 8.4 | 7.4 | 4.6 | 2.3 | 0.5 | 0.0 | 0.0 |
| 87.5° | 3.2 | 2.8 | 2.3 | 1.9 | 1.4 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)