

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: P526054

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
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-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2882 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

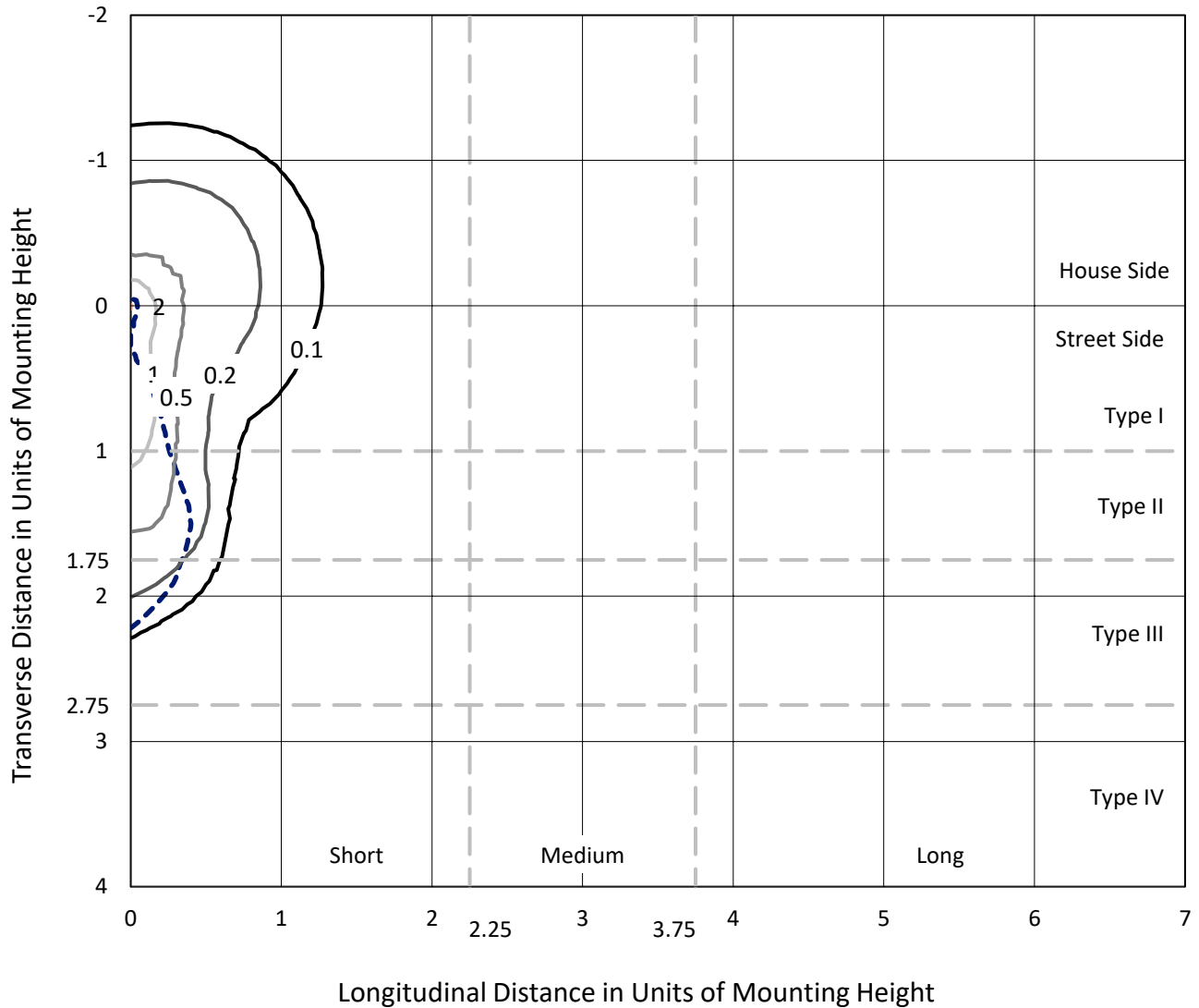
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526054
 CATALOG NUMBER: GALN-SA1A-727-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

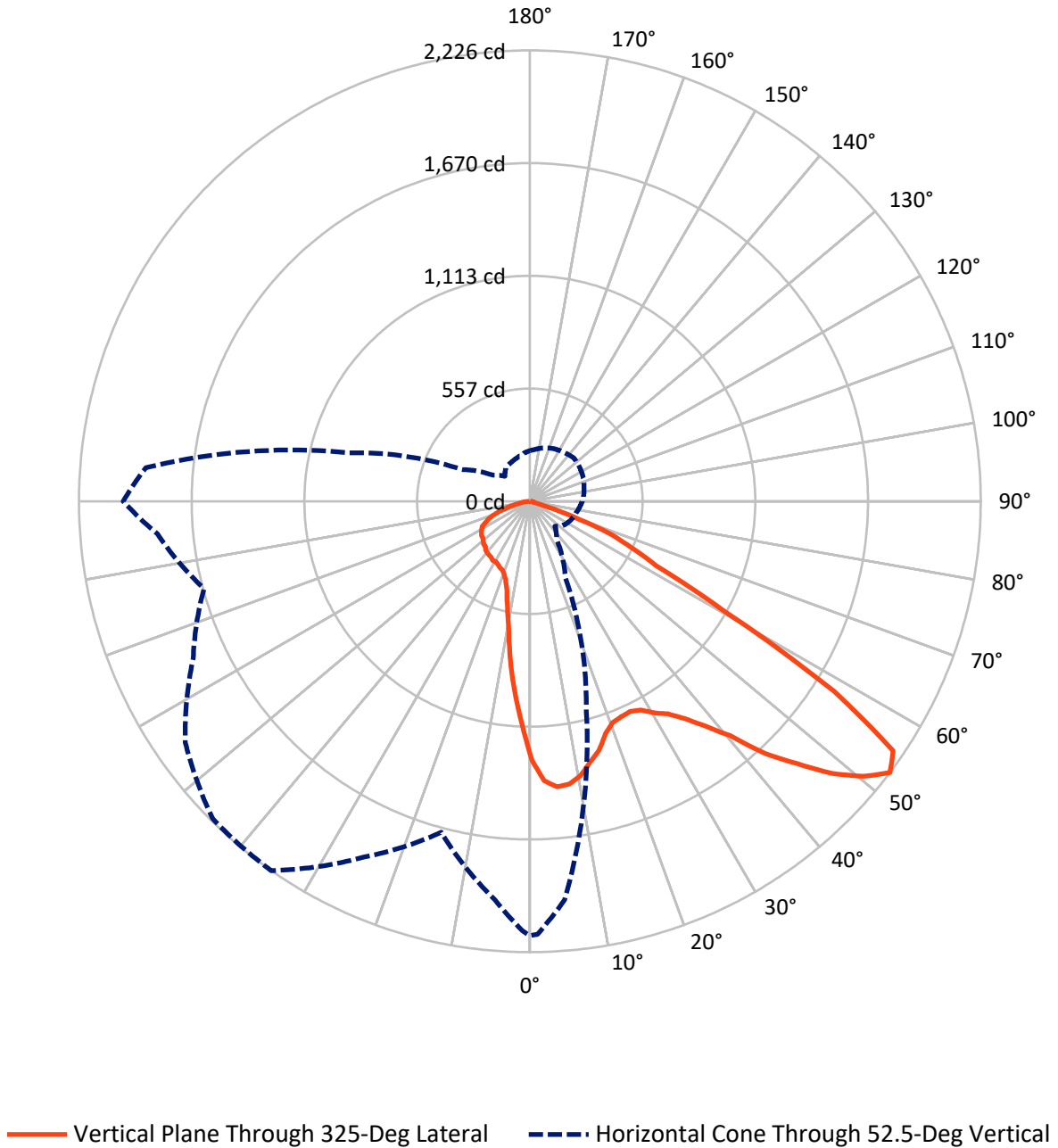
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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 | 868.8 | 0.0 | 868.8 |
| | % Fixture | 30.1 | 0.0 | 30.1 |
| Street Side | Lumens | 2013.2 | 0.0 | 2013.2 |
| | % Fixture | 69.9 | 0.0 | 69.9 |
| Total | Lumens | 2882.0 | 0.0 | 2882.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.6 | 3.4 |
| 10°-20° | 211.5 | 7.3 |
| 20°-30° | 319.6 | 11.1 |
| 30°-40° | 461.9 | 16.0 |
| 40°-50° | 614.7 | 21.3 |
| 50°-60° | 687.5 | 23.9 |
| 60°-70° | 387.5 | 13.4 |
| 70°-80° | 86.4 | 3.0 |
| 80°-90° | 15.4 | 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° | 2882.0 | 100.0 |
| 0°-180° | 2882.0 | 100.0 |

Coefficient of Utilization

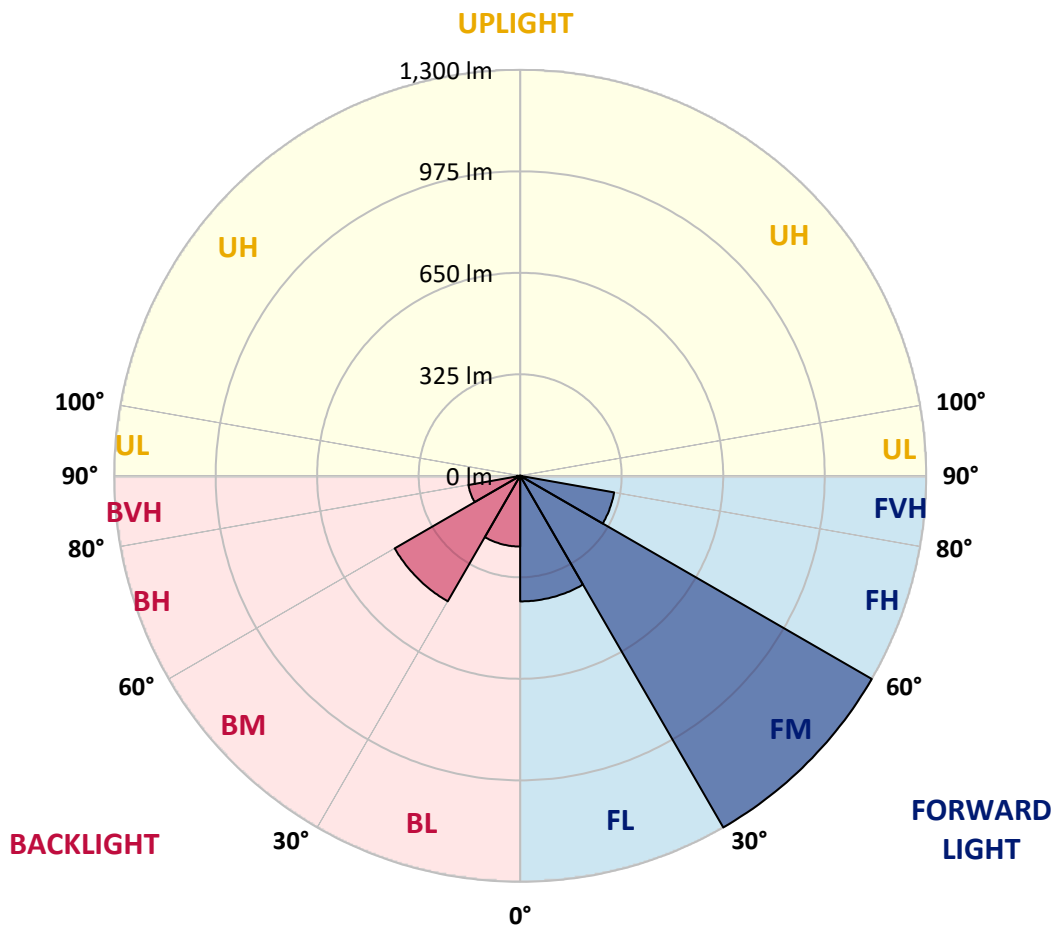


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 402.2 | 14.0 | | | |
| FM (30°-60°) | 1300.0 | 45.1 | | | |
| FH (60°-80°) | 305.4 | 10.6 | | | G0/660 |
| FVH (80°-90°) | 5.6 | 0.2 | | | G0/10 |
| BL (0°-30°) | 226.6 | 7.9 | B1/500 | | |
| BM (30°-60°) | 464.0 | 16.1 | B1/1000 | | |
| BH (60°-80°) | 168.4 | 5.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.8 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 |
| 2.5° | 1300.4 | 1321.2 | 1298.7 | 1258.6 | 1230.2 | 1204.3 | 1177.1 | 1171.7 | 1136.2 | 1129.9 | 1104.0 |
| 5° | 1226.4 | 1221.8 | 1194.3 | 1141.6 | 1083.6 | 1030.9 | 992.1 | 954.5 | 929.0 | 899.3 | 897.3 |
| 7.5° | 1136.6 | 1109.9 | 1094.0 | 1014.2 | 942.4 | 859.7 | 824.2 | 766.9 | 749.0 | 722.2 | 708.4 |
| 10° | 1056.4 | 1036.8 | 999.6 | 919.8 | 819.6 | 764.8 | 726.8 | 695.9 | 675.0 | 647.5 | 612.8 |
| 12.5° | 1016.7 | 1008.8 | 967.0 | 843.4 | 769.0 | 710.5 | 683.8 | 653.7 | 618.2 | 573.9 | 556.8 |
| 15° | 1023.8 | 997.1 | 965.3 | 828.8 | 726.0 | 669.6 | 627.0 | 589.4 | 543.9 | 501.7 | 477.0 |
| 17.5° | 1076.9 | 1056.4 | 992.9 | 837.9 | 709.7 | 628.2 | 551.0 | 495.4 | 454.5 | 416.5 | 399.3 |
| 20° | 1181.3 | 1151.6 | 1080.2 | 849.6 | 674.6 | 570.6 | 482.0 | 413.5 | 369.7 | 349.6 | 343.8 |
| 22.5° | 1297.0 | 1279.5 | 1165.4 | 876.0 | 646.6 | 517.1 | 408.9 | 340.4 | 324.1 | 318.7 | 329.6 |
| 25° | 1437.8 | 1392.3 | 1297.8 | 919.0 | 624.9 | 471.6 | 347.1 | 309.1 | 300.8 | 306.2 | 318.7 |
| 27.5° | 1544.7 | 1532.6 | 1390.6 | 959.5 | 595.2 | 416.9 | 312.5 | 287.4 | 289.9 | 295.3 | 307.0 |
| 30° | 1671.7 | 1610.3 | 1480.4 | 987.5 | 568.5 | 379.3 | 288.2 | 281.5 | 284.0 | 293.2 | 299.1 |
| 32.5° | 1748.1 | 1725.2 | 1536.8 | 1029.7 | 537.6 | 346.7 | 269.4 | 263.2 | 266.9 | 280.7 | 294.5 |
| 35° | 1845.5 | 1799.9 | 1606.5 | 1040.5 | 515.9 | 333.8 | 256.1 | 251.5 | 260.2 | 269.8 | 285.3 |
| 37.5° | 1959.1 | 1927.8 | 1703.0 | 1033.0 | 504.2 | 320.4 | 244.8 | 242.7 | 249.0 | 262.3 | 280.3 |
| 40° | 2026.3 | 2016.7 | 1753.6 | 1037.6 | 485.8 | 308.7 | 231.8 | 234.3 | 247.3 | 257.7 | 275.3 |
| 42.5° | 2091.1 | 2028.4 | 1828.3 | 1035.9 | 474.1 | 292.8 | 233.1 | 230.2 | 240.2 | 252.3 | 269.0 |
| 45° | 2105.3 | 2043.1 | 1845.9 | 1024.2 | 459.9 | 277.4 | 223.5 | 224.7 | 236.8 | 251.9 | 262.7 |
| 47.5° | 2096.1 | 2050.2 | 1878.5 | 1020.9 | 446.5 | 266.5 | 209.3 | 224.3 | 231.4 | 243.5 | 259.0 |
| 50° | 2089.8 | 2087.3 | 1906.0 | 1036.8 | 428.6 | 249.4 | 192.1 | 218.9 | 226.0 | 238.1 | 254.8 |
| 52.5° | 2145.0 | 2139.5 | 1975.0 | 1078.5 | 414.4 | 231.0 | 174.6 | 205.1 | 222.2 | 233.9 | 250.2 |
| 55° | 2178.4 | 2154.6 | 2093.2 | 1129.9 | 390.6 | 206.8 | 162.5 | 188.0 | 213.0 | 223.5 | 240.2 |
| 57.5° | 1959.5 | 1943.2 | 1893.5 | 1054.7 | 350.5 | 175.0 | 147.5 | 170.4 | 200.5 | 216.8 | 233.9 |
| 60° | 1630.3 | 1604.9 | 1477.5 | 896.4 | 258.6 | 136.2 | 138.3 | 156.6 | 197.2 | 203.4 | 223.5 |
| 62.5° | 1537.2 | 1474.1 | 1300.8 | 721.4 | 198.4 | 117.0 | 124.1 | 144.1 | 179.6 | 190.1 | 210.1 |
| 65° | 1219.7 | 1172.9 | 930.7 | 520.9 | 132.8 | 101.5 | 113.2 | 129.9 | 155.0 | 175.4 | 193.8 |
| 67.5° | 763.6 | 718.9 | 496.7 | 246.5 | 92.7 | 86.9 | 101.1 | 118.6 | 139.1 | 157.5 | 177.9 |
| 70° | 398.9 | 350.0 | 229.3 | 89.0 | 63.9 | 71.0 | 84.4 | 101.1 | 121.1 | 136.2 | 152.0 |
| 72.5° | 148.7 | 120.7 | 74.8 | 38.4 | 44.3 | 54.3 | 68.5 | 80.6 | 94.8 | 113.2 | 122.0 |
| 75° | 23.0 | 19.6 | 19.2 | 23.4 | 30.1 | 39.3 | 48.9 | 61.0 | 73.5 | 85.2 | 91.1 |
| 77.5° | 10.9 | 10.4 | 11.7 | 15.5 | 20.1 | 28.0 | 35.5 | 47.2 | 57.2 | 64.7 | 68.1 |
| 80° | 7.1 | 6.7 | 7.5 | 10.4 | 15.0 | 20.9 | 28.4 | 36.3 | 45.5 | 51.8 | 51.0 |
| 82.5° | 4.2 | 4.6 | 4.6 | 7.1 | 10.4 | 15.0 | 20.5 | 27.6 | 33.8 | 39.3 | 35.9 |
| 85° | 2.5 | 2.1 | 2.1 | 4.2 | 7.1 | 12.1 | 17.1 | 11.7 | 12.1 | 12.1 | 13.8 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.4 | 0.8 | 0.8 | 1.3 | 2.1 | 2.5 | 2.9 | 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-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 |
| 2.5° | 1103.2 | 1116.1 | 1111.5 | 1095.3 | 1107.8 | 1109.9 | 1101.5 | 1130.3 | 1135.8 | 1127.0 | 1129.5 |
| 5° | 894.3 | 897.7 | 905.2 | 921.1 | 932.3 | 945.7 | 945.7 | 946.5 | 935.3 | 963.7 | 955.3 |
| 7.5° | 696.8 | 698.8 | 707.6 | 741.4 | 751.1 | 776.5 | 787.4 | 779.9 | 757.3 | 747.7 | 755.6 |
| 10° | 601.5 | 589.4 | 586.5 | 590.7 | 612.4 | 623.2 | 632.4 | 629.9 | 626.2 | 618.6 | 610.3 |
| 12.5° | 538.0 | 529.2 | 522.1 | 512.1 | 513.4 | 523.8 | 530.9 | 525.1 | 526.7 | 528.4 | 530.9 |
| 15° | 469.1 | 462.8 | 459.1 | 444.0 | 442.4 | 449.5 | 452.0 | 455.3 | 461.6 | 462.0 | 459.1 |
| 17.5° | 396.0 | 390.6 | 398.9 | 407.3 | 401.4 | 401.8 | 406.4 | 409.4 | 407.7 | 400.2 | 396.4 |
| 20° | 345.9 | 351.7 | 360.1 | 368.0 | 374.3 | 378.0 | 379.7 | 375.1 | 369.7 | 354.2 | 353.8 |
| 22.5° | 331.2 | 338.8 | 345.9 | 358.0 | 363.8 | 373.4 | 364.7 | 354.2 | 346.7 | 339.2 | 330.4 |
| 25° | 320.4 | 326.7 | 340.9 | 345.5 | 356.7 | 364.7 | 358.4 | 348.0 | 335.0 | 324.1 | 317.5 |
| 27.5° | 312.5 | 319.6 | 328.7 | 341.3 | 350.0 | 354.6 | 348.4 | 344.2 | 330.8 | 317.9 | 308.3 |
| 30° | 307.4 | 315.0 | 331.7 | 342.1 | 349.6 | 353.4 | 342.5 | 337.5 | 327.9 | 317.0 | 308.7 |
| 32.5° | 304.1 | 310.8 | 325.0 | 338.4 | 343.4 | 343.4 | 345.0 | 339.2 | 325.8 | 307.4 | 300.3 |
| 35° | 293.2 | 302.4 | 314.1 | 329.6 | 338.8 | 344.2 | 335.8 | 329.2 | 320.4 | 301.6 | 288.6 |
| 37.5° | 287.0 | 293.2 | 308.3 | 322.9 | 330.8 | 336.7 | 333.3 | 321.6 | 309.9 | 294.5 | 284.0 |
| 40° | 280.3 | 290.3 | 303.7 | 317.5 | 326.2 | 332.1 | 329.6 | 315.8 | 301.6 | 287.0 | 279.9 |
| 42.5° | 275.7 | 282.4 | 296.2 | 311.6 | 322.1 | 333.3 | 325.8 | 308.7 | 298.7 | 278.6 | 270.7 |
| 45° | 271.9 | 282.8 | 297.4 | 303.7 | 314.5 | 326.2 | 312.9 | 302.4 | 290.7 | 276.1 | 269.4 |
| 47.5° | 267.3 | 277.4 | 287.0 | 303.7 | 308.7 | 314.1 | 311.6 | 294.9 | 284.9 | 269.0 | 264.4 |
| 50° | 265.7 | 269.4 | 287.0 | 296.2 | 303.3 | 308.7 | 302.0 | 289.5 | 279.9 | 263.6 | 253.6 |
| 52.5° | 259.0 | 266.1 | 277.4 | 289.5 | 298.2 | 304.9 | 294.1 | 286.1 | 273.2 | 256.1 | 249.8 |
| 55° | 250.6 | 254.8 | 274.9 | 287.4 | 292.0 | 296.6 | 292.4 | 279.5 | 266.1 | 248.5 | 242.3 |
| 57.5° | 239.8 | 249.4 | 265.7 | 283.2 | 289.1 | 291.6 | 284.9 | 274.4 | 257.7 | 242.3 | 232.3 |
| 60° | 228.5 | 238.5 | 256.5 | 270.7 | 276.5 | 285.7 | 275.7 | 269.4 | 250.2 | 233.1 | 222.2 |
| 62.5° | 217.2 | 228.5 | 241.9 | 259.8 | 264.8 | 268.6 | 266.1 | 257.3 | 241.9 | 222.6 | 209.3 |
| 65° | 203.8 | 212.2 | 228.9 | 238.1 | 241.4 | 250.2 | 241.4 | 238.1 | 224.3 | 205.9 | 194.7 |
| 67.5° | 183.8 | 190.9 | 205.5 | 214.3 | 216.8 | 220.6 | 220.1 | 216.4 | 200.9 | 188.4 | 178.4 |
| 70° | 160.8 | 167.1 | 176.3 | 186.7 | 188.0 | 192.6 | 188.4 | 187.6 | 177.5 | 160.4 | 155.0 |
| 72.5° | 129.1 | 134.9 | 147.0 | 151.6 | 152.0 | 153.7 | 151.6 | 148.7 | 146.2 | 128.2 | 122.8 |
| 75° | 99.0 | 102.3 | 108.2 | 112.4 | 112.4 | 114.5 | 113.2 | 110.3 | 103.6 | 92.3 | 86.9 |
| 77.5° | 68.9 | 72.3 | 79.8 | 82.3 | 81.9 | 82.7 | 78.9 | 76.0 | 66.0 | 60.2 | 55.6 |
| 80° | 50.1 | 52.2 | 56.0 | 57.6 | 58.1 | 59.3 | 54.7 | 52.2 | 46.4 | 39.7 | 37.6 |
| 82.5° | 36.3 | 37.6 | 38.0 | 40.1 | 40.1 | 38.0 | 36.8 | 34.3 | 30.1 | 25.9 | 24.2 |
| 85° | 15.0 | 15.5 | 15.9 | 18.4 | 18.8 | 22.6 | 20.9 | 19.6 | 17.1 | 14.6 | 13.4 |
| 87.5° | 3.8 | 4.2 | 5.4 | 4.6 | 5.4 | 5.4 | 5.8 | 6.7 | 6.7 | 5.4 | 5.4 |
| 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: P526054

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

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 | 1279.0 |
| 2.5° | 1139.1 | 1142.5 | 1185.1 | 1190.5 | 1211.4 | 1232.7 | 1275.7 | 1306.6 | 1331.7 | 1348.0 | 1352.6 |
| 5° | 964.1 | 985.4 | 1005.0 | 1036.8 | 1065.6 | 1106.5 | 1153.7 | 1212.2 | 1285.7 | 1323.3 | 1338.4 |
| 7.5° | 754.8 | 779.9 | 808.3 | 839.2 | 881.4 | 954.9 | 1018.0 | 1085.6 | 1179.6 | 1218.5 | 1277.4 |
| 10° | 616.1 | 644.1 | 681.7 | 705.5 | 756.5 | 826.7 | 900.2 | 978.3 | 1068.1 | 1124.1 | 1192.2 |
| 12.5° | 544.7 | 567.7 | 602.3 | 652.5 | 690.5 | 736.0 | 790.7 | 889.3 | 1018.0 | 1071.0 | 1117.8 |
| 15° | 465.8 | 491.2 | 531.3 | 586.9 | 632.4 | 686.7 | 748.1 | 855.5 | 992.5 | 1074.4 | 1114.1 |
| 17.5° | 400.6 | 419.0 | 461.2 | 509.2 | 561.4 | 620.7 | 708.9 | 853.8 | 1019.2 | 1124.1 | 1188.8 |
| 20° | 355.5 | 358.0 | 381.0 | 421.9 | 492.9 | 570.2 | 684.6 | 845.5 | 1104.9 | 1209.7 | 1291.6 |
| 22.5° | 327.1 | 324.6 | 325.0 | 359.7 | 409.4 | 520.5 | 646.6 | 873.9 | 1202.2 | 1345.9 | 1401.0 |
| 25° | 312.9 | 306.2 | 302.0 | 309.5 | 354.6 | 461.6 | 617.8 | 911.5 | 1307.0 | 1458.2 | 1525.9 |
| 27.5° | 305.4 | 293.7 | 285.3 | 286.6 | 319.6 | 431.9 | 599.8 | 927.7 | 1411.0 | 1614.9 | 1638.7 |
| 30° | 302.4 | 287.8 | 275.7 | 271.5 | 293.2 | 390.6 | 561.4 | 955.7 | 1504.2 | 1700.9 | 1721.4 |
| 32.5° | 292.0 | 274.0 | 262.3 | 258.6 | 267.3 | 354.2 | 533.8 | 975.8 | 1586.5 | 1794.5 | 1787.4 |
| 35° | 279.9 | 264.8 | 250.2 | 243.1 | 249.4 | 330.8 | 511.7 | 966.2 | 1683.4 | 1867.2 | 1863.4 |
| 37.5° | 278.6 | 259.0 | 246.9 | 235.2 | 234.8 | 302.0 | 481.6 | 975.4 | 1745.2 | 1997.5 | 1946.1 |
| 40° | 267.8 | 255.2 | 239.4 | 229.7 | 224.3 | 287.4 | 452.4 | 953.6 | 1835.9 | 2050.2 | 1999.6 |
| 42.5° | 268.2 | 249.4 | 235.6 | 224.3 | 218.9 | 266.1 | 432.3 | 947.8 | 1867.6 | 2135.8 | 2024.7 |
| 45° | 261.5 | 243.1 | 231.4 | 218.0 | 215.1 | 249.8 | 413.1 | 920.6 | 1923.6 | 2140.0 | 1993.3 |
| 47.5° | 254.8 | 238.5 | 226.0 | 210.1 | 203.4 | 243.9 | 398.1 | 898.1 | 1894.3 | 2100.7 | 1949.9 |
| 50° | 250.2 | 231.4 | 219.7 | 208.4 | 189.6 | 233.9 | 378.5 | 892.7 | 1853.4 | 2047.6 | 1869.3 |
| 52.5° | 242.3 | 225.6 | 213.5 | 204.7 | 174.6 | 224.7 | 370.9 | 924.4 | 1903.5 | 2008.0 | 1845.9 |
| 55° | 234.8 | 217.6 | 202.2 | 185.0 | 162.1 | 200.5 | 350.0 | 954.1 | 1976.6 | 2099.4 | 1952.0 |
| 57.5° | 226.8 | 210.5 | 193.8 | 173.4 | 150.0 | 175.4 | 328.3 | 959.5 | 1839.6 | 1940.3 | 1853.0 |
| 60° | 216.4 | 195.5 | 183.0 | 156.2 | 137.0 | 145.4 | 260.2 | 845.9 | 1426.9 | 1620.3 | 1623.2 |
| 62.5° | 204.7 | 182.1 | 171.3 | 139.9 | 123.6 | 125.3 | 212.2 | 711.0 | 1157.5 | 1341.3 | 1421.1 |
| 65° | 189.2 | 167.5 | 154.6 | 129.5 | 114.0 | 108.6 | 155.4 | 520.9 | 879.3 | 1088.2 | 1178.8 |
| 67.5° | 169.2 | 148.7 | 132.4 | 112.8 | 101.9 | 93.2 | 106.1 | 293.2 | 519.2 | 730.6 | 758.2 |
| 70° | 147.9 | 130.3 | 113.2 | 96.9 | 84.8 | 78.5 | 77.7 | 129.9 | 248.1 | 393.1 | 447.4 |
| 72.5° | 116.5 | 104.0 | 90.2 | 78.1 | 70.2 | 61.0 | 55.6 | 53.9 | 84.0 | 160.0 | 221.0 |
| 75° | 83.5 | 73.1 | 65.2 | 57.2 | 51.4 | 46.4 | 42.2 | 38.4 | 35.1 | 40.1 | 55.1 |
| 77.5° | 52.6 | 48.9 | 42.6 | 40.5 | 37.2 | 35.9 | 34.3 | 32.2 | 29.7 | 28.0 | 28.0 |
| 80° | 35.5 | 33.0 | 30.9 | 30.5 | 29.2 | 28.8 | 29.2 | 27.2 | 24.6 | 22.6 | 23.4 |
| 82.5° | 23.8 | 23.4 | 23.0 | 22.6 | 23.0 | 23.4 | 24.2 | 23.8 | 21.7 | 20.5 | 20.9 |
| 85° | 14.2 | 15.0 | 15.9 | 16.7 | 18.4 | 16.3 | 13.4 | 11.3 | 10.0 | 9.2 | 8.8 |
| 87.5° | 5.4 | 7.5 | 6.7 | 6.3 | 6.7 | 6.3 | 5.8 | 5.4 | 4.6 | 4.2 | 4.2 |
| 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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| 2.5° | 1383.1 | 1391.4 | 1398.5 | 1396.8 | 1382.2 | 1362.6 | 1354.7 | 1314.1 | 1305.8 | 1300.4 |
| 5° | 1401.9 | 1450.3 | 1460.8 | 1454.5 | 1416.5 | 1368.4 | 1321.7 | 1262.3 | 1227.7 | 1226.4 |
| 7.5° | 1367.2 | 1426.9 | 1445.7 | 1459.9 | 1409.4 | 1325.8 | 1245.6 | 1156.7 | 1134.9 | 1136.6 |
| 10° | 1279.0 | 1374.3 | 1420.7 | 1435.3 | 1377.2 | 1304.9 | 1193.8 | 1103.6 | 1057.2 | 1056.4 |
| 12.5° | 1230.2 | 1304.9 | 1317.9 | 1338.4 | 1321.2 | 1248.1 | 1163.8 | 1062.7 | 1017.6 | 1016.7 |
| 15° | 1186.7 | 1236.0 | 1239.8 | 1268.6 | 1277.8 | 1228.5 | 1171.7 | 1063.9 | 1027.6 | 1023.8 |
| 17.5° | 1224.7 | 1190.5 | 1176.3 | 1180.1 | 1207.2 | 1225.2 | 1217.6 | 1134.9 | 1097.8 | 1076.9 |
| 20° | 1250.2 | 1173.8 | 1130.8 | 1134.9 | 1167.1 | 1232.7 | 1286.2 | 1237.7 | 1178.8 | 1181.3 |
| 22.5° | 1318.3 | 1176.3 | 1109.0 | 1104.4 | 1155.4 | 1271.9 | 1363.4 | 1367.6 | 1310.8 | 1297.0 |
| 25° | 1420.2 | 1205.1 | 1102.4 | 1101.1 | 1150.0 | 1314.1 | 1453.7 | 1521.3 | 1463.3 | 1437.8 |
| 27.5° | 1502.1 | 1250.2 | 1123.2 | 1127.4 | 1167.1 | 1348.4 | 1530.5 | 1620.3 | 1576.0 | 1544.7 |
| 30° | 1574.0 | 1297.0 | 1152.5 | 1133.3 | 1213.1 | 1366.4 | 1563.5 | 1733.1 | 1697.6 | 1671.7 |
| 32.5° | 1603.6 | 1363.4 | 1198.8 | 1167.1 | 1251.1 | 1388.1 | 1632.0 | 1842.5 | 1812.1 | 1748.1 |
| 35° | 1653.7 | 1400.6 | 1223.9 | 1221.4 | 1317.5 | 1440.3 | 1664.2 | 1914.8 | 1902.3 | 1845.5 |
| 37.5° | 1693.8 | 1438.2 | 1312.9 | 1285.3 | 1408.5 | 1528.0 | 1716.0 | 2014.6 | 1985.8 | 1959.1 |
| 40° | 1724.8 | 1505.5 | 1396.0 | 1432.4 | 1520.5 | 1607.8 | 1763.6 | 2020.9 | 2104.0 | 2026.3 |
| 42.5° | 1696.3 | 1565.6 | 1532.6 | 1619.5 | 1703.0 | 1698.9 | 1769.0 | 2069.4 | 2131.6 | 2091.1 |
| 45° | 1689.2 | 1667.5 | 1748.6 | 1827.5 | 1846.7 | 1774.5 | 1730.2 | 2015.9 | 2123.3 | 2105.3 |
| 47.5° | 1672.1 | 1767.8 | 1909.0 | 2037.6 | 2008.4 | 1825.0 | 1683.8 | 2006.3 | 2128.3 | 2096.1 |
| 50° | 1666.3 | 1789.5 | 2027.6 | 2152.9 | 2135.4 | 1868.9 | 1662.1 | 1944.5 | 2092.8 | 2089.8 |
| 52.5° | 1665.9 | 1834.2 | 2076.9 | 2215.6 | 2226.4 | 1938.2 | 1691.8 | 1975.8 | 2120.3 | 2145.0 |
| 55° | 1684.7 | 1820.0 | 2070.6 | 2180.9 | 2176.7 | 1907.3 | 1695.1 | 1996.7 | 2154.2 | 2178.4 |
| 57.5° | 1589.0 | 1630.3 | 1708.9 | 1796.2 | 1773.6 | 1579.8 | 1513.8 | 1845.9 | 1977.1 | 1959.5 |
| 60° | 1372.2 | 1242.7 | 1154.2 | 1150.0 | 1106.1 | 1045.5 | 1238.9 | 1647.5 | 1647.5 | 1630.3 |
| 62.5° | 1201.8 | 815.8 | 700.9 | 668.3 | 699.7 | 769.4 | 1195.1 | 1602.4 | 1556.8 | 1537.2 |
| 65° | 1051.0 | 622.8 | 506.7 | 497.5 | 551.8 | 657.1 | 1080.6 | 1365.1 | 1284.9 | 1219.7 |
| 67.5° | 676.3 | 456.1 | 376.8 | 360.5 | 426.1 | 482.5 | 719.3 | 839.6 | 789.1 | 763.6 |
| 70° | 436.1 | 297.0 | 209.7 | 196.7 | 222.2 | 297.4 | 459.5 | 489.6 | 416.0 | 398.9 |
| 72.5° | 206.4 | 128.2 | 73.5 | 60.6 | 68.1 | 113.6 | 181.7 | 195.5 | 162.5 | 148.7 |
| 75° | 65.6 | 47.2 | 30.1 | 25.9 | 24.6 | 29.2 | 41.8 | 32.2 | 23.4 | 23.0 |
| 77.5° | 29.2 | 28.0 | 23.8 | 20.1 | 17.5 | 14.6 | 12.1 | 10.0 | 10.4 | 10.9 |
| 80° | 24.2 | 22.1 | 19.6 | 17.5 | 14.6 | 11.3 | 8.8 | 6.7 | 6.7 | 7.1 |
| 82.5° | 21.3 | 19.2 | 17.1 | 14.6 | 12.5 | 9.2 | 6.7 | 4.6 | 4.2 | 4.2 |
| 85° | 9.2 | 10.9 | 11.7 | 12.5 | 10.0 | 7.5 | 4.6 | 2.9 | 2.5 | 2.5 |
| 87.5° | 3.8 | 3.3 | 2.9 | 2.5 | 2.1 | 2.1 | 1.7 | 1.3 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)