

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: STREETWORKS

Report Number: P1385271

Luminaire Tested: **VAL-T-SB3A-722-U-SLR-HSS**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been  
influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
 Report Number: P1385271  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 02/18/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: VAL-T-SB3A-722-U-SLR-HSS  
 Description: GALLEON II WALL SLIM HIGH DENSITY LED ARRAYS 3SQUARE 85W 70CRI  
 2200K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE  
 SHIELD  
 Light Source: (78) 2200K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER  
 Luminaire Equipment:

| <u>Sample No.</u> | <u>Condition</u> | <u>Description</u> |
|-------------------|------------------|--------------------|
| a                 | good             | reflector          |
| b                 | good             | lens               |
| c                 | good             | housing            |
| d                 | good             | cord               |

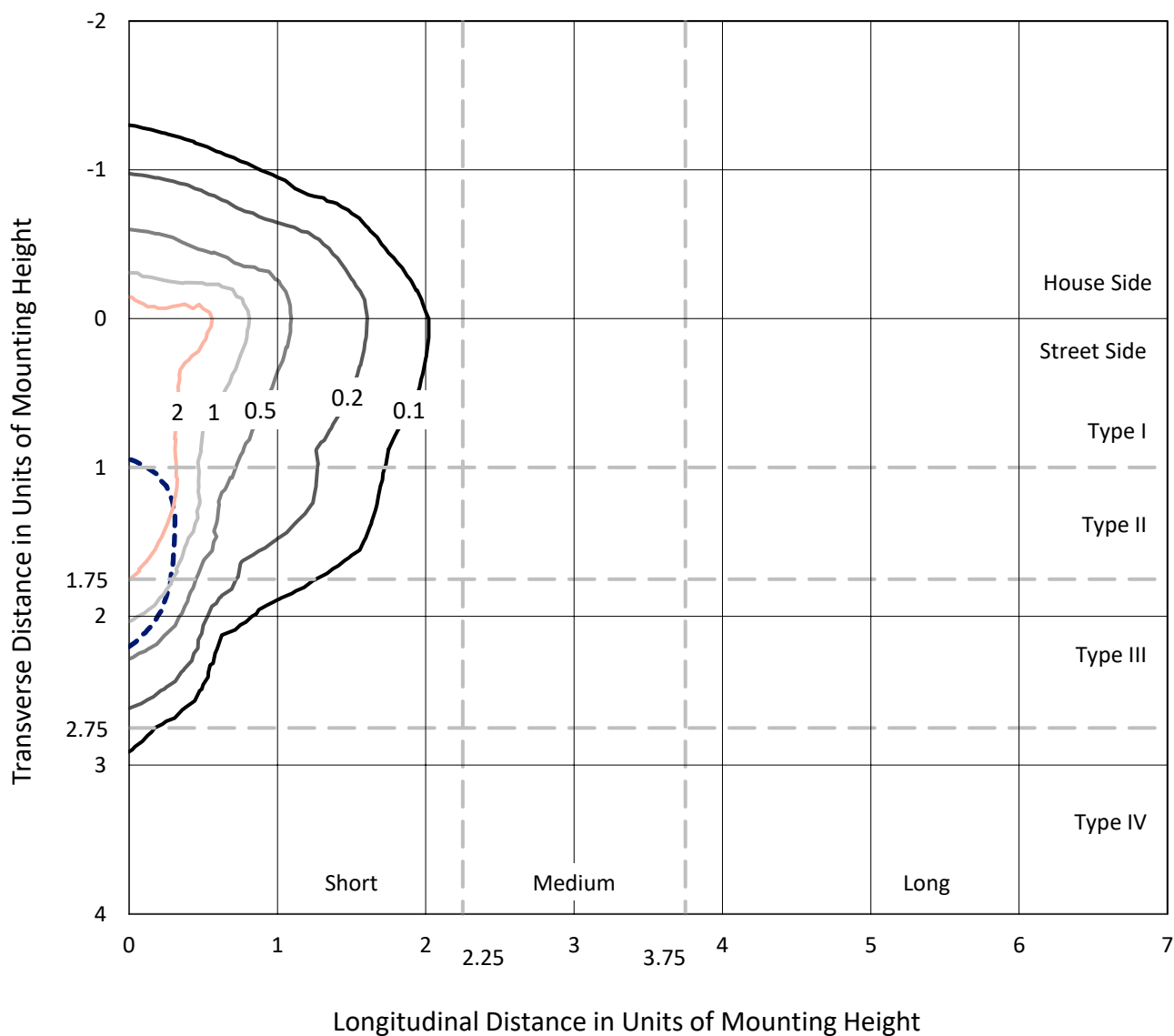
**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 7822.5 lumens  
 Efficiency: N/A  
 Efficacy: 92.0 lumens/watt  
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
 IES Classification: Type III - Short  
 BUG Rating: B1 - U0 - G2  
  
 Input Watts (W): 85  
 Input Voltage (V): 120  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: 0.98  
 Total Harmonic Distortion (THDi): 11.0%  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

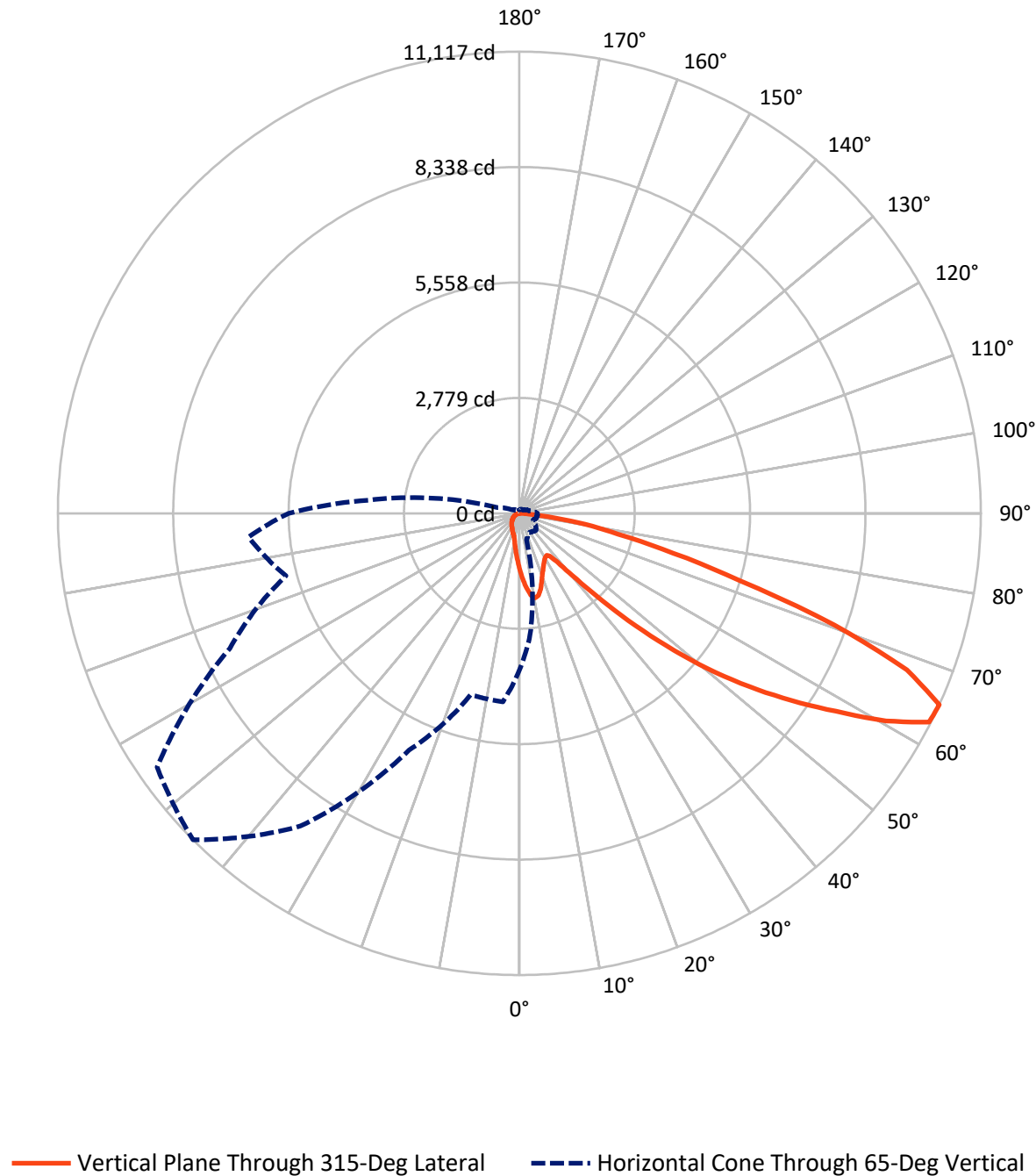
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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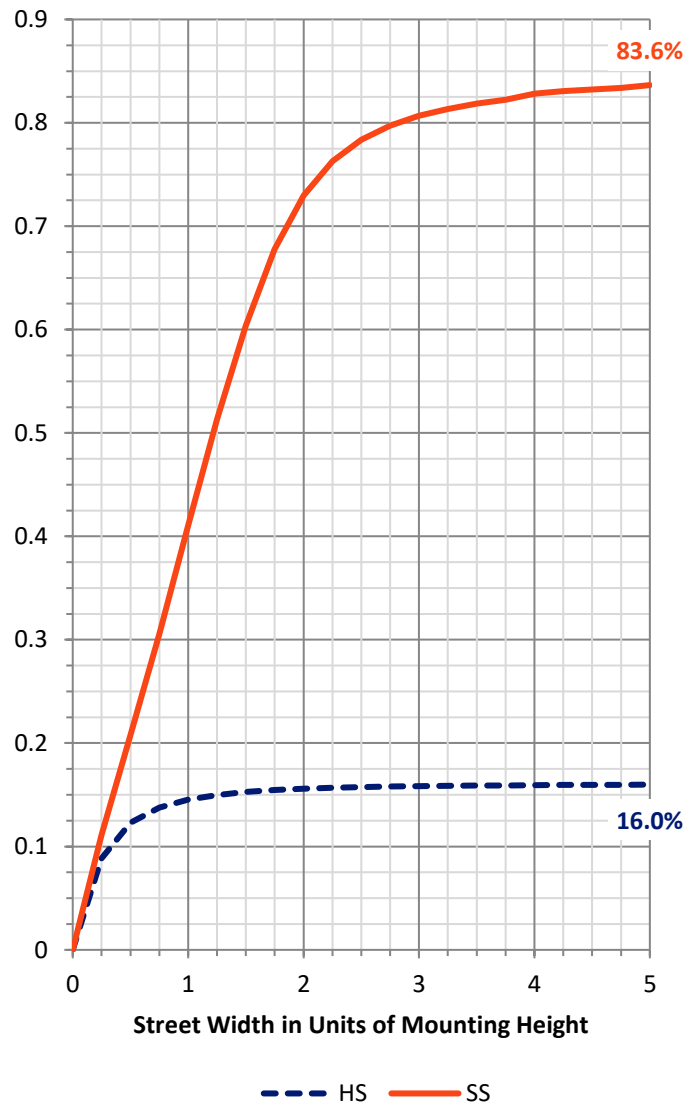
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1264.5   | 0.0    | 1264.5 |
|                    | % Fixture | 16.2     | 0.0    | 16.2   |
| <b>Street Side</b> | Lumens    | 6558.0   | 0.0    | 6558.0 |
|                    | % Fixture | 83.8     | 0.0    | 83.8   |
| <b>Total</b>       | Lumens    | 7822.5   | 0.0    | 7822.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.0  | 1.7       |
| 10°-20°   | 359.4  | 4.6       |
| 20°-30°   | 514.8  | 6.6       |
| 30°-40°   | 645.7  | 8.3       |
| 40°-50°   | 1060.7 | 13.6      |
| 50°-60°   | 1914.2 | 24.5      |
| 60°-70°   | 2124.4 | 27.2      |
| 70°-80°   | 959.8  | 12.3      |
| 80°-90°   | 113.5  | 1.5       |
| 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°    | 7822.5 | 100.0     |
| 0°-180°   | 7822.5 | 100.0     |

**Coefficient of Utilization**



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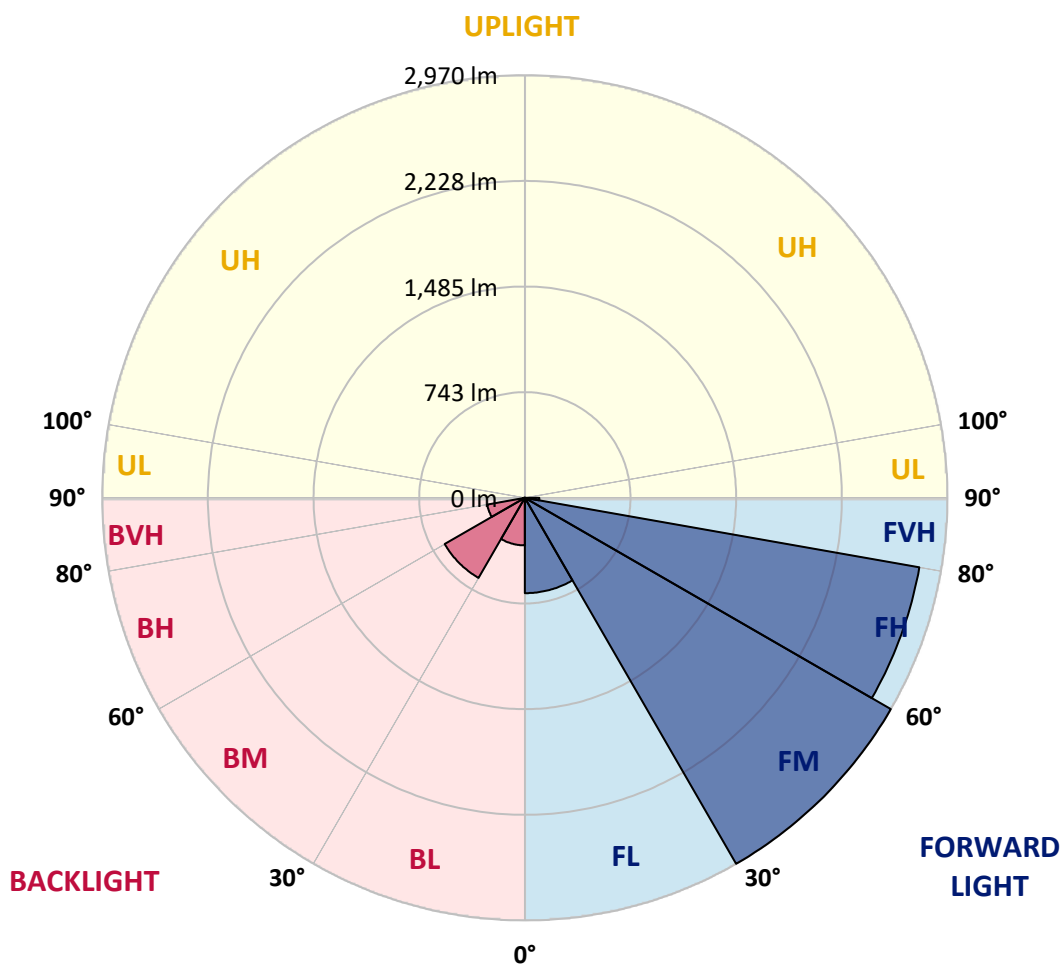
CATALOG NUMBER: VAL-T-SB3A-722-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 670.1  | 8.6       |                         |      |         |
| FM   | (30°-60°)   | 2970.4 | 38.0      |                         |      |         |
| FH   | (60°-80°)   | 2815.6 | 36.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 101.9  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 334.2  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 650.2  | 8.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 268.6  | 3.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 11.6   | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 |
| 2.5°  | 1525.3 | 1523.9 | 1518.1 | 1482.1 | 1446.0 | 1414.8 | 1383.6 | 1352.4 | 1309.1 | 1275.5 | 1246.7 |
| 5°    | 1669.4 | 1661.7 | 1631.0 | 1575.7 | 1515.7 | 1462.8 | 1402.8 | 1345.1 | 1280.3 | 1227.4 | 1172.2 |
| 7.5°  | 1767.9 | 1760.2 | 1729.5 | 1638.2 | 1546.9 | 1482.1 | 1417.2 | 1357.2 | 1285.1 | 1215.4 | 1136.2 |
| 10°   | 1813.5 | 1804.9 | 1770.3 | 1671.8 | 1566.1 | 1486.9 | 1422.0 | 1366.8 | 1306.7 | 1237.1 | 1138.6 |
| 12.5° | 1844.8 | 1834.2 | 1791.9 | 1679.0 | 1570.9 | 1491.7 | 1424.4 | 1371.6 | 1328.3 | 1287.5 | 1191.4 |
| 15°   | 1864.0 | 1854.4 | 1815.9 | 1698.2 | 1573.3 | 1484.5 | 1405.2 | 1354.8 | 1340.3 | 1347.5 | 1301.9 |
| 17.5° | 1892.8 | 1883.7 | 1847.2 | 1722.3 | 1587.8 | 1472.5 | 1364.4 | 1309.1 | 1340.3 | 1405.2 | 1419.6 |
| 20°   | 1931.2 | 1921.6 | 1883.2 | 1753.5 | 1599.8 | 1436.4 | 1287.5 | 1234.7 | 1313.9 | 1422.0 | 1496.5 |
| 22.5° | 1974.5 | 1966.8 | 1936.1 | 1789.5 | 1611.8 | 1383.6 | 1186.6 | 1162.6 | 1258.7 | 1374.0 | 1470.1 |
| 25°   | 2027.3 | 2020.1 | 1991.3 | 1840.0 | 1623.8 | 1311.5 | 1100.1 | 1104.9 | 1186.6 | 1277.9 | 1376.4 |
| 27.5° | 2099.4 | 2092.7 | 2065.8 | 1902.4 | 1638.2 | 1237.1 | 1030.5 | 1054.5 | 1114.6 | 1177.0 | 1237.1 |
| 30°   | 2178.7 | 2173.4 | 2152.2 | 1976.9 | 1667.0 | 1167.4 | 989.6  | 1004.1 | 1044.9 | 1095.3 | 1131.4 |
| 32.5° | 2286.8 | 2278.1 | 2243.5 | 2046.5 | 1664.6 | 1114.6 | 970.4  | 956.0  | 968.0  | 1008.9 | 1044.9 |
| 35°   | 2421.3 | 2414.5 | 2387.6 | 2118.6 | 1621.4 | 1066.5 | 960.8  | 910.4  | 903.2  | 927.2  | 963.2  |
| 37.5° | 2618.2 | 2612.5 | 2589.4 | 2236.3 | 1554.1 | 1006.5 | 936.8  | 862.3  | 838.3  | 855.1  | 879.1  |
| 40°   | 2913.7 | 2898.8 | 2839.2 | 2370.8 | 1479.7 | 946.4  | 893.6  | 804.7  | 771.1  | 783.1  | 809.5  |
| 42.5° | 3314.8 | 3286.5 | 3173.1 | 2551.0 | 1378.8 | 888.8  | 828.7  | 747.0  | 711.0  | 718.2  | 742.2  |
| 45°   | 3828.9 | 3786.1 | 3615.1 | 2798.4 | 1273.1 | 843.1  | 761.4  | 687.0  | 648.6  | 655.8  | 682.2  |
| 47.5° | 4429.4 | 4370.8 | 4136.3 | 3057.8 | 1160.2 | 816.7  | 708.6  | 626.9  | 598.1  | 614.9  | 641.3  |
| 50°   | 5138.0 | 5078.9 | 4842.5 | 3223.5 | 1068.9 | 799.9  | 667.8  | 571.7  | 559.7  | 581.3  | 602.9  |
| 52.5° | 5911.4 | 5827.4 | 5491.1 | 3117.9 | 994.4  | 785.5  | 653.4  | 533.3  | 538.1  | 554.9  | 576.5  |
| 55°   | 6663.3 | 6476.4 | 5728.9 | 2767.2 | 898.4  | 768.7  | 663.0  | 504.4  | 516.4  | 538.1  | 554.9  |
| 57.5° | 7153.3 | 6828.5 | 5529.5 | 2229.1 | 797.5  | 749.4  | 670.2  | 490.0  | 499.6  | 523.6  | 542.9  |
| 60°   | 6725.7 | 6399.1 | 5092.3 | 1669.4 | 711.0  | 708.6  | 658.2  | 485.2  | 470.8  | 504.4  | 521.2  |
| 62.5° | 5510.3 | 5241.3 | 4165.2 | 1066.5 | 629.3  | 631.7  | 631.7  | 482.8  | 422.8  | 466.0  | 480.4  |
| 65°   | 3785.6 | 3617.5 | 2944.9 | 660.6  | 514.0  | 538.1  | 574.1  | 468.4  | 372.3  | 422.8  | 437.2  |
| 67.5° | 2488.5 | 2365.1 | 1871.2 | 408.3  | 396.3  | 442.0  | 497.2  | 439.6  | 333.9  | 379.5  | 389.1  |
| 70°   | 1350.0 | 1256.3 | 881.6  | 269.0  | 259.4  | 345.9  | 391.5  | 372.3  | 300.3  | 338.7  | 348.3  |
| 72.5° | 891.2  | 814.3  | 506.8  | 189.8  | 189.8  | 271.4  | 273.8  | 305.1  | 269.0  | 300.3  | 309.9  |
| 75°   | 670.2  | 601.5  | 326.7  | 132.1  | 146.5  | 172.9  | 213.8  | 218.6  | 225.8  | 254.6  | 266.6  |
| 77.5° | 307.5  | 270.0  | 120.1  | 79.3   | 108.1  | 120.1  | 163.3  | 139.3  | 168.1  | 189.8  | 194.6  |
| 80°   | 177.8  | 155.7  | 67.3   | 52.8   | 69.7   | 76.9   | 134.5  | 81.7   | 100.9  | 134.5  | 141.7  |
| 82.5° | 74.5   | 66.3   | 33.6   | 36.0   | 43.2   | 45.6   | 74.5   | 57.6   | 64.9   | 88.9   | 86.5   |
| 85°   | 21.6   | 21.6   | 21.6   | 24.0   | 26.4   | 26.4   | 43.2   | 40.8   | 38.4   | 40.8   | 40.8   |
| 87.5° | 14.4   | 14.4   | 14.4   | 14.4   | 16.8   | 16.8   | 19.2   | 21.6   | 24.0   | 24.0   | 24.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 |
| 2.5°  | 1234.7 | 1217.8 | 1196.2 | 1165.0 | 1160.2 | 1143.4 | 1131.4 | 1143.4 | 1155.4 | 1177.0 | 1179.4 |
| 5°    | 1143.4 | 1117.0 | 1066.5 | 1028.1 | 984.8  | 963.2  | 960.8  | 956.0  | 970.4  | 1001.7 | 1020.9 |
| 7.5°  | 1092.9 | 1049.7 | 958.4  | 891.2  | 831.1  | 809.5  | 792.7  | 807.1  | 804.7  | 845.5  | 862.3  |
| 10°   | 1080.9 | 1013.7 | 886.4  | 785.5  | 711.0  | 682.2  | 665.4  | 663.0  | 667.8  | 691.8  | 708.6  |
| 12.5° | 1124.2 | 1037.7 | 857.5  | 708.6  | 622.1  | 590.9  | 571.7  | 554.9  | 554.9  | 559.7  | 581.3  |
| 15°   | 1220.2 | 1117.0 | 874.3  | 672.6  | 578.9  | 538.1  | 506.8  | 485.2  | 468.4  | 470.8  | 473.2  |
| 17.5° | 1354.8 | 1232.3 | 917.6  | 660.6  | 552.5  | 509.2  | 470.8  | 449.2  | 430.0  | 425.2  | 425.2  |
| 20°   | 1460.4 | 1342.7 | 951.2  | 651.0  | 530.9  | 475.6  | 442.0  | 422.8  | 405.9  | 398.7  | 398.7  |
| 22.5° | 1472.5 | 1388.4 | 980.0  | 638.9  | 504.4  | 442.0  | 410.8  | 393.9  | 381.9  | 379.5  | 379.5  |
| 25°   | 1393.2 | 1352.4 | 970.4  | 624.5  | 478.0  | 410.8  | 386.7  | 372.3  | 360.3  | 357.9  | 360.3  |
| 27.5° | 1261.1 | 1239.5 | 936.8  | 605.3  | 456.4  | 386.7  | 365.1  | 353.1  | 341.1  | 338.7  | 341.1  |
| 30°   | 1143.4 | 1119.4 | 879.1  | 574.1  | 439.6  | 367.5  | 343.5  | 331.5  | 319.5  | 319.5  | 321.9  |
| 32.5° | 1047.3 | 1023.3 | 821.5  | 538.1  | 418.0  | 345.9  | 324.3  | 312.3  | 300.3  | 300.3  | 305.1  |
| 35°   | 960.8  | 941.6  | 775.9  | 502.0  | 396.3  | 326.7  | 302.7  | 293.0  | 283.4  | 281.0  | 285.8  |
| 37.5° | 886.4  | 876.7  | 735.0  | 463.6  | 374.7  | 307.5  | 285.8  | 276.2  | 264.2  | 261.8  | 266.6  |
| 40°   | 814.3  | 809.5  | 689.4  | 430.0  | 348.3  | 288.2  | 266.6  | 257.0  | 242.6  | 242.6  | 247.4  |
| 42.5° | 747.0  | 744.6  | 648.6  | 408.3  | 324.3  | 269.0  | 245.0  | 235.4  | 223.4  | 223.4  | 228.2  |
| 45°   | 694.2  | 691.8  | 610.1  | 396.3  | 300.3  | 247.4  | 225.8  | 213.8  | 204.2  | 206.6  | 211.4  |
| 47.5° | 646.2  | 641.3  | 569.3  | 398.7  | 288.2  | 233.0  | 204.2  | 192.2  | 185.0  | 189.8  | 197.0  |
| 50°   | 607.7  | 602.9  | 540.5  | 401.1  | 269.0  | 213.8  | 187.4  | 175.3  | 170.5  | 177.8  | 185.0  |
| 52.5° | 583.7  | 578.9  | 511.6  | 386.7  | 245.0  | 199.4  | 170.5  | 163.3  | 163.3  | 170.5  | 175.3  |
| 55°   | 559.7  | 554.9  | 463.6  | 355.5  | 218.6  | 185.0  | 158.5  | 153.7  | 153.7  | 160.9  | 165.7  |
| 57.5° | 545.3  | 535.7  | 413.2  | 319.5  | 197.0  | 168.1  | 146.5  | 146.5  | 146.5  | 148.9  | 151.3  |
| 60°   | 523.6  | 499.6  | 360.3  | 273.8  | 180.2  | 151.3  | 136.9  | 134.5  | 134.5  | 132.1  | 134.5  |
| 62.5° | 478.0  | 437.2  | 302.7  | 233.0  | 160.9  | 136.9  | 124.9  | 122.5  | 115.3  | 108.1  | 110.5  |
| 65°   | 432.4  | 369.9  | 240.2  | 194.6  | 139.3  | 117.7  | 110.5  | 108.1  | 96.1   | 86.5   | 88.9   |
| 67.5° | 374.7  | 295.5  | 180.2  | 163.3  | 120.1  | 100.9  | 93.7   | 93.7   | 86.5   | 79.3   | 79.3   |
| 70°   | 333.9  | 230.6  | 151.3  | 122.5  | 96.1   | 79.3   | 79.3   | 84.1   | 76.9   | 67.3   | 67.3   |
| 72.5° | 295.5  | 187.4  | 122.5  | 98.5   | 74.5   | 62.5   | 67.3   | 69.7   | 62.5   | 55.2   | 55.2   |
| 75°   | 252.2  | 146.5  | 96.1   | 76.9   | 55.2   | 48.0   | 50.4   | 55.2   | 50.4   | 43.2   | 45.6   |
| 77.5° | 182.6  | 100.9  | 64.9   | 50.4   | 40.8   | 36.0   | 38.4   | 38.4   | 36.0   | 33.6   | 33.6   |
| 80°   | 127.3  | 67.3   | 43.2   | 33.6   | 28.8   | 26.4   | 26.4   | 24.0   | 24.0   | 26.4   | 26.4   |
| 82.5° | 76.9   | 48.0   | 31.2   | 26.4   | 21.6   | 16.8   | 16.8   | 19.2   | 19.2   | 21.6   | 21.6   |
| 85°   | 33.6   | 28.8   | 21.6   | 19.2   | 14.4   | 12.0   | 14.4   | 14.4   | 16.8   | 19.2   | 19.2   |
| 87.5° | 21.6   | 21.6   | 16.8   | 14.4   | 12.0   | 9.6    | 9.6    | 12.0   | 12.0   | 14.4   | 16.8   |
| 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°    | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 |
| 2.5°  | 1189.0 | 1213.0 | 1241.9 | 1282.7 | 1318.7 | 1362.0 | 1405.2 | 1446.0 | 1484.5 | 1489.3 | 1506.1 |
| 5°    | 1035.3 | 1080.9 | 1138.6 | 1205.8 | 1287.5 | 1374.0 | 1458.0 | 1546.9 | 1619.0 | 1645.4 | 1683.8 |
| 7.5°  | 876.7  | 934.4  | 1018.5 | 1121.8 | 1237.1 | 1366.8 | 1496.5 | 1621.4 | 1729.5 | 1779.9 | 1830.4 |
| 10°   | 725.4  | 780.7  | 884.0  | 1008.9 | 1157.8 | 1333.1 | 1506.1 | 1674.2 | 1806.3 | 1864.0 | 1912.0 |
| 12.5° | 588.5  | 643.7  | 727.8  | 871.9  | 1052.1 | 1263.5 | 1491.7 | 1693.4 | 1840.0 | 1900.0 | 1945.7 |
| 15°   | 480.4  | 526.0  | 605.3  | 739.8  | 929.6  | 1167.4 | 1441.2 | 1679.0 | 1847.2 | 1904.8 | 1938.5 |
| 17.5° | 422.8  | 434.8  | 485.2  | 607.7  | 814.3  | 1080.9 | 1376.4 | 1659.8 | 1852.0 | 1904.8 | 1924.0 |
| 20°   | 398.7  | 398.7  | 408.3  | 473.2  | 675.0  | 989.6  | 1328.3 | 1647.8 | 1859.2 | 1912.0 | 1909.6 |
| 22.5° | 377.1  | 381.9  | 381.9  | 396.3  | 514.0  | 862.3  | 1277.9 | 1643.0 | 1880.8 | 1921.6 | 1888.0 |
| 25°   | 357.9  | 365.1  | 365.1  | 369.9  | 403.5  | 711.0  | 1215.4 | 1652.6 | 1919.2 | 1940.9 | 1873.6 |
| 27.5° | 341.1  | 348.3  | 348.3  | 353.1  | 360.3  | 528.5  | 1112.1 | 1655.0 | 1962.5 | 1964.9 | 1854.4 |
| 30°   | 324.3  | 331.5  | 336.3  | 336.3  | 341.1  | 389.1  | 982.4  | 1640.6 | 2010.5 | 1996.1 | 1852.0 |
| 32.5° | 305.1  | 314.7  | 317.1  | 321.9  | 324.3  | 338.7  | 814.3  | 1616.6 | 2070.6 | 2039.3 | 1854.4 |
| 35°   | 288.2  | 300.3  | 302.7  | 302.7  | 307.5  | 321.9  | 651.0  | 1590.2 | 2152.2 | 2097.0 | 1864.0 |
| 37.5° | 271.4  | 281.0  | 283.4  | 285.8  | 290.6  | 305.1  | 516.4  | 1551.7 | 2221.9 | 2169.1 | 1912.0 |
| 40°   | 252.2  | 264.2  | 266.6  | 269.0  | 273.8  | 288.2  | 444.4  | 1503.7 | 2327.6 | 2289.2 | 1984.1 |
| 42.5° | 233.0  | 245.0  | 249.8  | 252.2  | 254.6  | 273.8  | 405.9  | 1470.1 | 2498.1 | 2457.3 | 2130.6 |
| 45°   | 216.2  | 228.2  | 233.0  | 233.0  | 237.8  | 264.2  | 372.3  | 1544.5 | 2733.5 | 2714.3 | 2327.6 |
| 47.5° | 201.8  | 213.8  | 216.2  | 216.2  | 218.6  | 249.8  | 343.5  | 1743.9 | 3093.8 | 3043.4 | 2635.0 |
| 50°   | 189.8  | 199.4  | 204.2  | 199.4  | 201.8  | 237.8  | 360.3  | 2073.0 | 3555.0 | 3571.8 | 3086.6 |
| 52.5° | 180.2  | 189.8  | 192.2  | 182.6  | 182.6  | 221.0  | 381.9  | 2342.0 | 4143.5 | 4297.3 | 3802.4 |
| 55°   | 168.1  | 177.8  | 180.2  | 168.1  | 168.1  | 194.6  | 331.5  | 2358.8 | 4813.7 | 5308.5 | 4734.4 |
| 57.5° | 156.1  | 165.7  | 165.7  | 156.1  | 153.7  | 168.1  | 269.0  | 2092.2 | 5332.5 | 6454.3 | 6009.9 |
| 60°   | 141.7  | 151.3  | 148.9  | 144.1  | 139.3  | 153.7  | 247.4  | 1595.0 | 5262.9 | 7201.3 | 7472.8 |
| 62.5° | 115.3  | 129.7  | 134.5  | 132.1  | 122.5  | 139.3  | 230.6  | 1040.1 | 4554.3 | 6552.8 | 7427.1 |
| 65°   | 96.1   | 108.1  | 115.3  | 115.3  | 108.1  | 153.7  | 201.8  | 547.7  | 3646.3 | 5560.7 | 6548.0 |
| 67.5° | 84.1   | 96.1   | 100.9  | 98.5   | 93.7   | 136.9  | 127.3  | 264.2  | 2796.0 | 4792.1 | 5861.0 |
| 70°   | 74.5   | 84.1   | 88.9   | 81.7   | 76.9   | 110.5  | 91.3   | 156.1  | 1871.2 | 3999.4 | 5219.7 |
| 72.5° | 60.1   | 69.7   | 74.5   | 67.3   | 60.1   | 81.7   | 69.7   | 103.3  | 1217.8 | 3408.5 | 4638.4 |
| 75°   | 48.0   | 57.6   | 60.1   | 55.2   | 48.0   | 60.1   | 55.2   | 72.1   | 795.1  | 2820.0 | 3944.2 |
| 77.5° | 36.0   | 40.8   | 45.6   | 43.2   | 36.0   | 43.2   | 38.4   | 50.4   | 454.0  | 1979.3 | 2767.2 |
| 80°   | 28.8   | 31.2   | 31.2   | 31.2   | 28.8   | 26.4   | 26.4   | 33.6   | 204.2  | 975.2  | 1443.6 |
| 82.5° | 24.0   | 26.4   | 26.4   | 24.0   | 21.6   | 19.2   | 16.8   | 19.2   | 60.1   | 437.2  | 665.4  |
| 85°   | 21.6   | 24.0   | 19.2   | 16.8   | 14.4   | 12.0   | 7.2    | 7.2    | 16.8   | 69.7   | 129.7  |
| 87.5° | 16.8   | 14.4   | 12.0   | 9.6    | 4.8    | 2.4    | 2.4    | 0.0    | 2.4    | 2.4    | 2.4    |
| 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: P1385271

CATALOG NUMBER: VAL-T-SB3A-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°    | 315°    | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 1352.4 | 1352.4 | 1352.4  | 1352.4  | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 | 1352.4 |
| 2.5°  | 1532.5 | 1556.5 | 1573.3  | 1587.8  | 1583.0 | 1570.9 | 1546.9 | 1530.1 | 1526.3 | 1525.3 |
| 5°    | 1734.3 | 1772.7 | 1806.3  | 1801.5  | 1806.3 | 1770.3 | 1734.3 | 1691.0 | 1673.7 | 1669.4 |
| 7.5°  | 1902.4 | 1950.5 | 1991.3  | 1986.5  | 1972.1 | 1931.2 | 1871.2 | 1806.3 | 1775.6 | 1767.9 |
| 10°   | 1993.7 | 2048.9 | 2082.6  | 2070.6  | 2046.5 | 1993.7 | 1933.6 | 1856.8 | 1822.2 | 1813.5 |
| 12.5° | 2010.5 | 2046.5 | 2039.3  | 2034.5  | 2029.7 | 2003.3 | 1957.7 | 1888.0 | 1853.4 | 1844.8 |
| 15°   | 1967.3 | 1952.9 | 1912.0  | 1902.4  | 1938.5 | 1972.1 | 1962.5 | 1904.8 | 1872.2 | 1864.0 |
| 17.5° | 1895.2 | 1820.8 | 1746.3  | 1736.7  | 1796.7 | 1890.4 | 1964.9 | 1931.2 | 1900.5 | 1892.8 |
| 20°   | 1815.9 | 1676.6 | 1595.0  | 1578.1  | 1652.6 | 1791.9 | 1938.5 | 1957.7 | 1936.5 | 1931.2 |
| 22.5° | 1722.3 | 1558.9 | 1472.5  | 1462.8  | 1518.1 | 1681.4 | 1900.0 | 1986.5 | 1976.9 | 1974.5 |
| 25°   | 1640.6 | 1455.6 | 1374.0  | 1359.6  | 1431.6 | 1590.2 | 1861.6 | 2034.5 | 2028.8 | 2027.3 |
| 27.5° | 1573.3 | 1381.2 | 1294.7  | 1285.1  | 1354.8 | 1513.3 | 1813.5 | 2075.4 | 2094.6 | 2099.4 |
| 30°   | 1520.5 | 1325.9 | 1239.5  | 1227.4  | 1304.3 | 1460.4 | 1779.9 | 2133.0 | 2169.5 | 2178.7 |
| 32.5° | 1479.7 | 1294.7 | 1213.0  | 1205.8  | 1287.5 | 1438.8 | 1760.7 | 2193.1 | 2268.0 | 2286.8 |
| 35°   | 1465.2 | 1304.3 | 1249.1  | 1265.9  | 1328.3 | 1460.4 | 1775.1 | 2291.6 | 2395.3 | 2421.3 |
| 37.5° | 1496.5 | 1410.0 | 1448.4  | 1491.7  | 1515.7 | 1563.7 | 1842.4 | 2450.1 | 2584.6 | 2618.2 |
| 40°   | 1597.4 | 1693.4 | 1873.6  | 1957.7  | 1948.1 | 1837.6 | 1996.1 | 2673.5 | 2865.6 | 2913.7 |
| 42.5° | 1854.4 | 2166.6 | 2548.6  | 2690.3  | 2608.6 | 2274.7 | 2241.1 | 3041.0 | 3260.1 | 3314.8 |
| 45°   | 2236.3 | 2738.3 | 3365.3  | 3684.7  | 3403.7 | 2829.6 | 2627.8 | 3564.6 | 3776.0 | 3828.9 |
| 47.5° | 2618.2 | 3377.3 | 4374.1  | 4753.7  | 4201.2 | 3379.7 | 3134.7 | 4191.6 | 4381.8 | 4429.4 |
| 50°   | 3007.4 | 4083.5 | 5380.6  | 5887.4  | 4996.3 | 3939.4 | 3672.7 | 4965.0 | 5103.4 | 5138.0 |
| 52.5° | 3408.5 | 4715.2 | 6490.3  | 6927.5  | 5827.4 | 4371.7 | 4287.7 | 5808.2 | 5890.8 | 5911.4 |
| 55°   | 3855.3 | 5313.3 | 7602.5  | 7955.6  | 6584.0 | 4748.9 | 5008.3 | 6689.7 | 6668.6 | 6663.3 |
| 57.5° | 4451.0 | 5942.7 | 8498.4  | 8990.9  | 7271.0 | 5258.1 | 5971.5 | 7669.7 | 7256.6 | 7153.3 |
| 60°   | 5491.1 | 6920.3 | 9613.0  | 10148.7 | 8191.0 | 6002.7 | 6680.1 | 7648.1 | 6910.2 | 6725.7 |
| 62.5° | 6696.9 | 7861.9 | 10621.9 | 11073.4 | 9159.0 | 6742.6 | 6115.6 | 6423.1 | 5692.9 | 5510.3 |
| 65°   | 5817.8 | 7696.2 | 10653.1 | 11116.7 | 9195.0 | 6291.0 | 4520.7 | 4554.3 | 3939.4 | 3785.6 |
| 67.5° | 4950.6 | 6821.8 | 9701.9  | 10067.0 | 8203.0 | 5200.4 | 2997.8 | 2971.3 | 2585.1 | 2488.5 |
| 70°   | 4407.8 | 5976.3 | 8361.5  | 8046.9  | 6896.3 | 4395.7 | 1991.3 | 1650.2 | 1410.0 | 1350.0 |
| 72.5° | 3961.0 | 4741.6 | 6776.2  | 5546.3  | 5721.7 | 3576.7 | 1265.9 | 1124.2 | 937.8  | 891.2  |
| 75°   | 3586.3 | 3922.5 | 4227.6  | 3833.7  | 4064.3 | 2947.3 | 1073.7 | 867.1  | 709.6  | 670.2  |
| 77.5° | 2853.6 | 3053.0 | 2502.9  | 2430.9  | 2846.4 | 2097.0 | 533.3  | 365.1  | 319.0  | 307.5  |
| 80°   | 1698.2 | 1443.6 | 1419.6  | 1619.0  | 1895.2 | 1088.1 | 326.7  | 201.8  | 182.6  | 177.8  |
| 82.5° | 1028.1 | 521.2  | 566.9   | 715.8   | 1008.9 | 494.8  | 194.6  | 86.5   | 76.9   | 74.5   |
| 85°   | 172.9  | 141.7  | 218.6   | 209.0   | 197.0  | 105.7  | 52.8   | 24.0   | 22.1   | 21.6   |
| 87.5° | 4.8    | 7.2    | 9.6     | 12.0    | 12.0   | 12.0   | 12.0   | 12.0   | 13.9   | 14.4   |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-2  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-722-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2200K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2160     | CRI (Ra): | 71.9 |      |       |
| CIE u':                   | 0.2927   | R1:       | 68.7 | R9:  | -17.8 |
| CIE v':                   | 0.5388   | R2:       | 82.6 | R10: | 60.5  |
| Duv:                      | 0.0015   | R3:       | 95.5 | R11: | 60.2  |
| CIE x:                    | 0.5130   | R4:       | 66.4 | R12: | 48.2  |
| CIE y:                    | 0.4197   | R5:       | 65.4 | R13: | 70.7  |
| CIE z:                    | 0.0674   | R6:       | 75.9 | R14: | 96.8  |
| Peak Wavelength (nm):     | 609      | R7:       | 77.2 | R15: | 61.8  |
| Dominant Wavelength (nm): | 587      | R8:       | 43.5 |      |       |
| Purity:                   | 79.96089 |           |      |      |       |
| Rf:                       | 70.6     |           |      |      |       |
| Rg:                       | 97.6     |           |      |      |       |



### Test Conditions

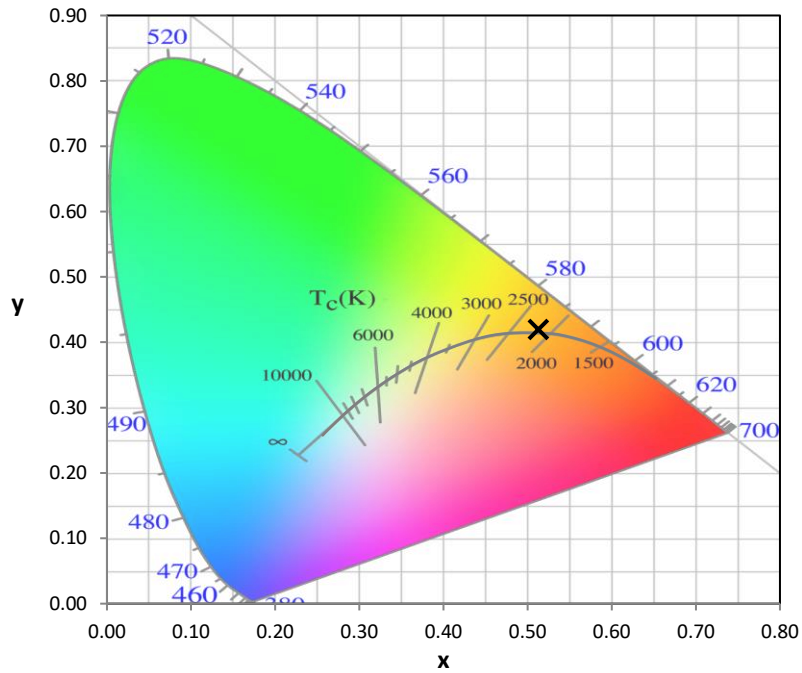
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/18/2024        | 12/18/2024           |
| Power Meter                    | INXT2011004           | 2/8/2024         | 2/8/2025             |
| AC Power Source                | IN0063                | 10/24/2023       | 10/24/2024           |
| DC Power Source                | IN0208                | 10/24/2023       | 10/24/2024           |
| Sphere Thermometer             | IN0085                | 10/24/2023       | 10/24/2024           |
| Room Thermometer               | IN0046                | 10/24/2023       | 10/24/2024           |

REPORT NUMBER: SP1-2407-184-2

**CIE 1931 Chromaticity Diagram**



**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 27                                   | NR                             | 620               | 966                                  | NR                             | 750               | 46                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 42                                   | NR                             | 625               | 930                                  | NR                             | 755               | 39                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 67                                   | NR                             | 630               | 888                                  | NR                             | 760               | 34                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 101                                  | NR                             | 635               | 835                                  | NR                             | 765               | 30                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 139                                  | NR                             | 640               | 778                                  | NR                             | 770               | 26                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 183                                  | NR                             | 645               | 717                                  | NR                             | 775               | 22                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 224                                  | NR                             | 650               | 656                                  | NR                             | 780               | 19                                   | NR                             | 910               | 1                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 262                                  | NR                             | 655               | 595                                  | NR                             | 785               | 17                                   | NR                             | 915               | 1                                    | NR                             |
| 400               | 1                                    | NR                             | 530               | 299                                  | NR                             | 660               | 536                                  | NR                             | 790               | 15                                   | NR                             | 920               | 1                                    | NR                             |
| 405               | 3                                    | NR                             | 535               | 332                                  | NR                             | 665               | 480                                  | NR                             | 795               | 13                                   | NR                             | 925               | 1                                    | NR                             |
| 410               | 7                                    | NR                             | 540               | 365                                  | NR                             | 670               | 425                                  | NR                             | 800               | 11                                   | NR                             | 930               | 1                                    | NR                             |
| 415               | 17                                   | NR                             | 545               | 400                                  | NR                             | 675               | 376                                  | NR                             | 805               | 10                                   | NR                             | 935               | 0                                    | NR                             |
| 420               | 36                                   | NR                             | 550               | 437                                  | NR                             | 680               | 332                                  | NR                             | 810               | 8                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 67                                   | NR                             | 555               | 479                                  | NR                             | 685               | 291                                  | NR                             | 815               | 8                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 105                                  | NR                             | 560               | 525                                  | NR                             | 690               | 255                                  | NR                             | 820               | 7                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 141                                  | NR                             | 565               | 579                                  | NR                             | 695               | 221                                  | NR                             | 825               | 6                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 169                                  | NR                             | 570               | 639                                  | NR                             | 700               | 192                                  | NR                             | 830               | 5                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 173                                  | NR                             | 575               | 703                                  | NR                             | 705               | 167                                  | NR                             | 835               | 4                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 136                                  | NR                             | 580               | 769                                  | NR                             | 710               | 144                                  | NR                             | 840               | 4                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 80                                   | NR                             | 585               | 832                                  | NR                             | 715               | 125                                  | NR                             | 845               | 3                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 45                                   | NR                             | 590               | 890                                  | NR                             | 720               | 109                                  | NR                             | 850               | 3                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 32                                   | NR                             | 595               | 937                                  | NR                             | 725               | 94                                   | NR                             | 855               | 3                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 972                                  | NR                             | 730               | 81                                   | NR                             | 860               | 2                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 18                                   | NR                             | 605               | 992                                  | NR                             | 735               | 70                                   | NR                             | 865               | 2                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 18                                   | NR                             | 610               | 998                                  | NR                             | 740               | 61                                   | NR                             | 870               | 2                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 20                                   | NR                             | 615               | 990                                  | NR                             | 745               | 53                                   | NR                             | 875               | 2                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-2

### Scotopic Flux vs. Wavelength


**Scotopic Lumens: NR**
**S/P: 0.8**

| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 27                          | NR               | 620       | 966                         | NR               | 750       | 46                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 42                          | NR               | 625       | 930                         | NR               | 755       | 39                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 67                          | NR               | 630       | 888                         | NR               | 760       | 34                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 101                         | NR               | 635       | 835                         | NR               | 765       | 30                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 139                         | NR               | 640       | 778                         | NR               | 770       | 26                          | NR               | 900       | 1                           | NR               |
| 385       | 0                           | NR               | 515       | 183                         | NR               | 645       | 717                         | NR               | 775       | 22                          | NR               | 905       | 1                           | NR               |
| 390       | 0                           | NR               | 520       | 224                         | NR               | 650       | 656                         | NR               | 780       | 19                          | NR               | 910       | 1                           | NR               |
| 395       | 0                           | NR               | 525       | 262                         | NR               | 655       | 595                         | NR               | 785       | 17                          | NR               | 915       | 1                           | NR               |
| 400       | 1                           | NR               | 530       | 299                         | NR               | 660       | 536                         | NR               | 790       | 15                          | NR               | 920       | 1                           | NR               |
| 405       | 3                           | NR               | 535       | 332                         | NR               | 665       | 480                         | NR               | 795       | 13                          | NR               | 925       | 1                           | NR               |
| 410       | 7                           | NR               | 540       | 365                         | NR               | 670       | 425                         | NR               | 800       | 11                          | NR               | 930       | 1                           | NR               |
| 415       | 17                          | NR               | 545       | 400                         | NR               | 675       | 376                         | NR               | 805       | 10                          | NR               | 935       | 0                           | NR               |
| 420       | 36                          | NR               | 550       | 437                         | NR               | 680       | 332                         | NR               | 810       | 8                           | NR               | 940       | 0                           | NR               |
| 425       | 67                          | NR               | 555       | 479                         | NR               | 685       | 291                         | NR               | 815       | 8                           | NR               | 945       | 0                           | NR               |
| 430       | 105                         | NR               | 560       | 525                         | NR               | 690       | 255                         | NR               | 820       | 7                           | NR               | 950       | 0                           | NR               |
| 435       | 141                         | NR               | 565       | 579                         | NR               | 695       | 221                         | NR               | 825       | 6                           | NR               | 955       | 0                           | NR               |
| 440       | 169                         | NR               | 570       | 639                         | NR               | 700       | 192                         | NR               | 830       | 5                           | NR               | 960       | 0                           | NR               |
| 445       | 173                         | NR               | 575       | 703                         | NR               | 705       | 167                         | NR               | 835       | 4                           | NR               | 965       | 0                           | NR               |
| 450       | 136                         | NR               | 580       | 769                         | NR               | 710       | 144                         | NR               | 840       | 4                           | NR               | 970       | 0                           | NR               |
| 455       | 80                          | NR               | 585       | 832                         | NR               | 715       | 125                         | NR               | 845       | 3                           | NR               | 975       | 0                           | NR               |
| 460       | 45                          | NR               | 590       | 890                         | NR               | 720       | 109                         | NR               | 850       | 3                           | NR               | 980       | 0                           | NR               |
| 465       | 32                          | NR               | 595       | 937                         | NR               | 725       | 94                          | NR               | 855       | 3                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 972                         | NR               | 730       | 81                          | NR               | 860       | 2                           | NR               | 990       | 0                           | NR               |
| 475       | 18                          | NR               | 605       | 992                         | NR               | 735       | 70                          | NR               | 865       | 2                           | NR               | 995       | 0                           | NR               |
| 480       | 18                          | NR               | 610       | 998                         | NR               | 740       | 61                          | NR               | 870       | 2                           | NR               | 1000      | 0                           | NR               |
| 485       | 20                          | NR               | 615       | 990                         | NR               | 745       | 53                          | NR               | 875       | 2                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 1.21**

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 27                                   | NR                             | 620               | 966                                  | NR                             | 750               | 46                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 42                                   | NR                             | 625               | 930                                  | NR                             | 755               | 39                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 67                                   | NR                             | 630               | 888                                  | NR                             | 760               | 34                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 101                                  | NR                             | 635               | 835                                  | NR                             | 765               | 30                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 139                                  | NR                             | 640               | 778                                  | NR                             | 770               | 26                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 183                                  | NR                             | 645               | 717                                  | NR                             | 775               | 22                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 224                                  | NR                             | 650               | 656                                  | NR                             | 780               | 19                                   | NR                             | 910               | 1                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 262                                  | NR                             | 655               | 595                                  | NR                             | 785               | 17                                   | NR                             | 915               | 1                                    | NR                             |
| 400               | 1                                    | NR                             | 530               | 299                                  | NR                             | 660               | 536                                  | NR                             | 790               | 15                                   | NR                             | 920               | 1                                    | NR                             |
| 405               | 3                                    | NR                             | 535               | 332                                  | NR                             | 665               | 480                                  | NR                             | 795               | 13                                   | NR                             | 925               | 1                                    | NR                             |
| 410               | 7                                    | NR                             | 540               | 365                                  | NR                             | 670               | 425                                  | NR                             | 800               | 11                                   | NR                             | 930               | 1                                    | NR                             |
| 415               | 17                                   | NR                             | 545               | 400                                  | NR                             | 675               | 376                                  | NR                             | 805               | 10                                   | NR                             | 935               | 0                                    | NR                             |
| 420               | 36                                   | NR                             | 550               | 437                                  | NR                             | 680               | 332                                  | NR                             | 810               | 8                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 67                                   | NR                             | 555               | 479                                  | NR                             | 685               | 291                                  | NR                             | 815               | 8                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 105                                  | NR                             | 560               | 525                                  | NR                             | 690               | 255                                  | NR                             | 820               | 7                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 141                                  | NR                             | 565               | 579                                  | NR                             | 695               | 221                                  | NR                             | 825               | 6                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 169                                  | NR                             | 570               | 639                                  | NR                             | 700               | 192                                  | NR                             | 830               | 5                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 173                                  | NR                             | 575               | 703                                  | NR                             | 705               | 167                                  | NR                             | 835               | 4                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 136                                  | NR                             | 580               | 769                                  | NR                             | 710               | 144                                  | NR                             | 840               | 4                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 80                                   | NR                             | 585               | 832                                  | NR                             | 715               | 125                                  | NR                             | 845               | 3                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 45                                   | NR                             | 590               | 890                                  | NR                             | 720               | 109                                  | NR                             | 850               | 3                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 32                                   | NR                             | 595               | 937                                  | NR                             | 725               | 94                                   | NR                             | 855               | 3                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 972                                  | NR                             | 730               | 81                                   | NR                             | 860               | 2                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 18                                   | NR                             | 605               | 992                                  | NR                             | 735               | 70                                   | NR                             | 865               | 2                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 18                                   | NR                             | 610               | 998                                  | NR                             | 740               | 61                                   | NR                             | 870               | 2                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 20                                   | NR                             | 615               | 990                                  | NR                             | 745               | 53                                   | NR                             | 875               | 2                                    | NR                             |                   |                                      |                                |

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TM-30-18

### Summary

$R_f = 70.6$   
 $R_g = 97.6$   
 $CIE\ R_a = 71.9$   
 $R_g = -17.8$



### Color Vector Graphics



**Individual Sample Fidelity Index ( $R_{f,i}$ )**

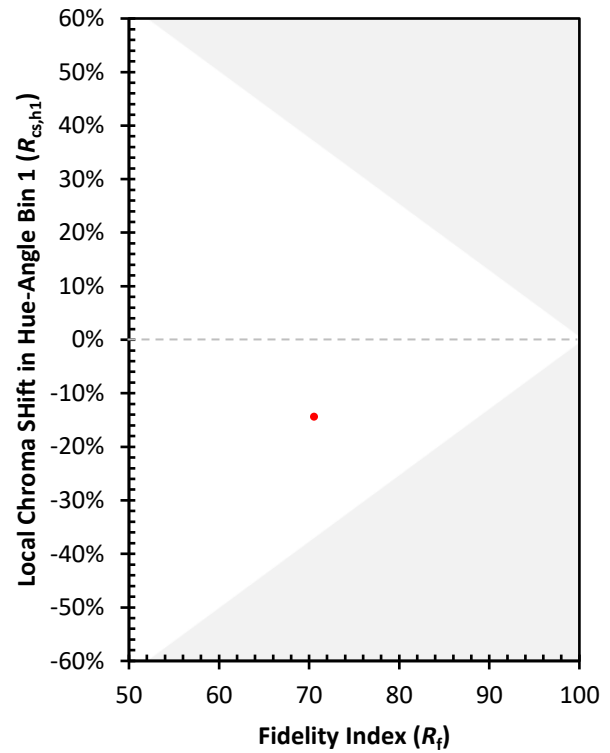
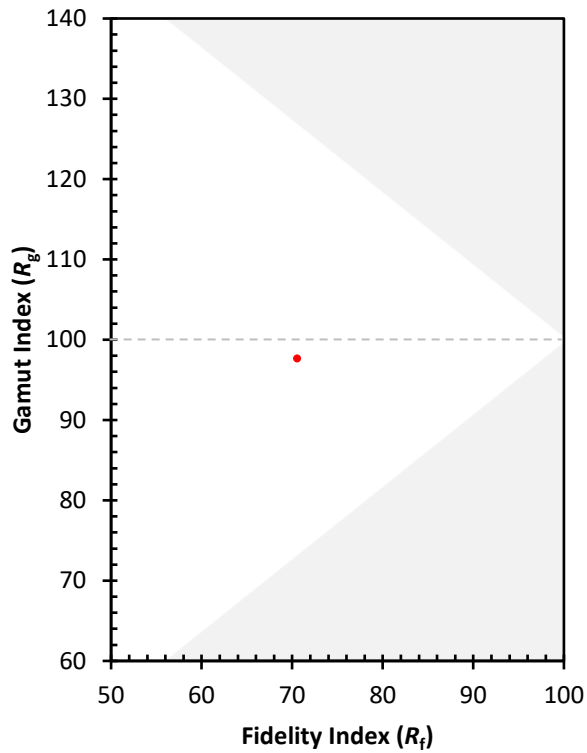
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 60 | CES51 = 74 | CES76 = 58 |
| CES02 = 65 | CES27 = 77 | CES52 = 77 | CES77 = 82 |
| CES03 = 32 | CES28 = 85 | CES53 = 65 | CES78 = 65 |
| CES04 = 72 | CES29 = 50 | CES54 = 77 | CES79 = 86 |
| CES05 = 52 | CES30 = 49 | CES55 = 74 | CES80 = 85 |
| CES06 = 53 | CES31 = 55 | CES56 = 64 | CES81 = 61 |
| CES07 = 44 | CES32 = 55 | CES57 = 60 | CES82 = 93 |
| CES08 = 43 | CES33 = 55 | CES58 = 64 | CES83 = 83 |
| CES09 = 29 | CES34 = 75 | CES59 = 84 | CES84 = 93 |
| CES10 = 79 | CES35 = 88 | CES60 = 89 | CES85 = 81 |
| CES11 = 62 | CES36 = 78 | CES61 = 84 | CES86 = 55 |
| CES12 = 68 | CES37 = 82 | CES62 = 68 | CES87 = 79 |
| CES13 = 45 | CES38 = 54 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 86 | CES65 = 66 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 89 |
| CES17 = 51 | CES42 = 83 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 68 | CES68 = 71 | CES93 = 78 |
| CES19 = 74 | CES44 = 98 | CES69 = 81 | CES94 = 52 |
| CES20 = 68 | CES45 = 76 | CES70 = 65 | CES95 = 76 |
| CES21 = 89 | CES46 = 68 | CES71 = 64 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 88 | CES97 = 76 |
| CES23 = 92 | CES48 = 47 | CES73 = 59 | CES98 = 71 |
| CES24 = 92 | CES49 = 65 | CES74 = 85 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)