

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P362303

Luminaire Tested: NVN-SA1D-727-U-SLR

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P362303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: NVN-SA1D-727-U-SLR  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5882 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

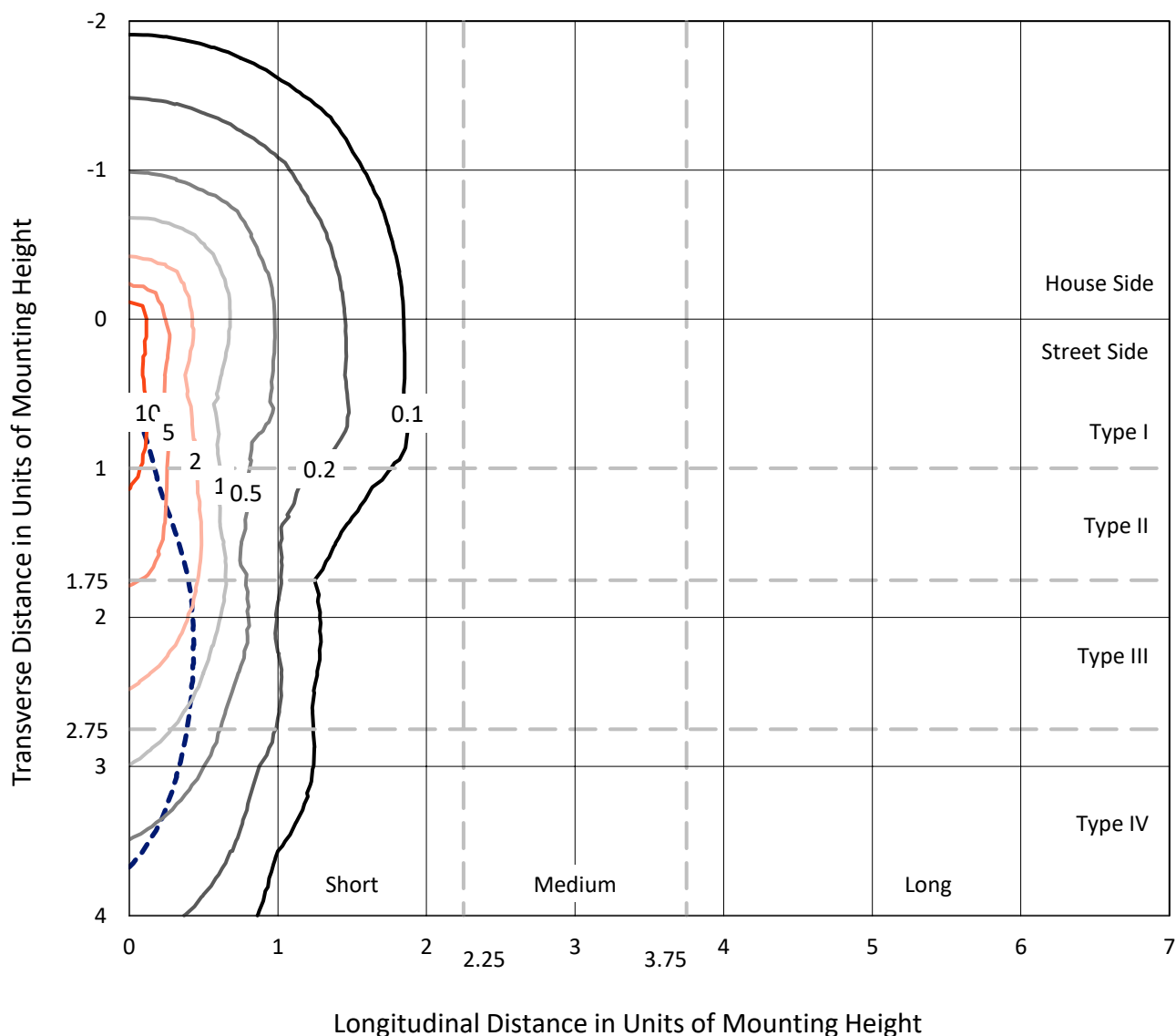
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

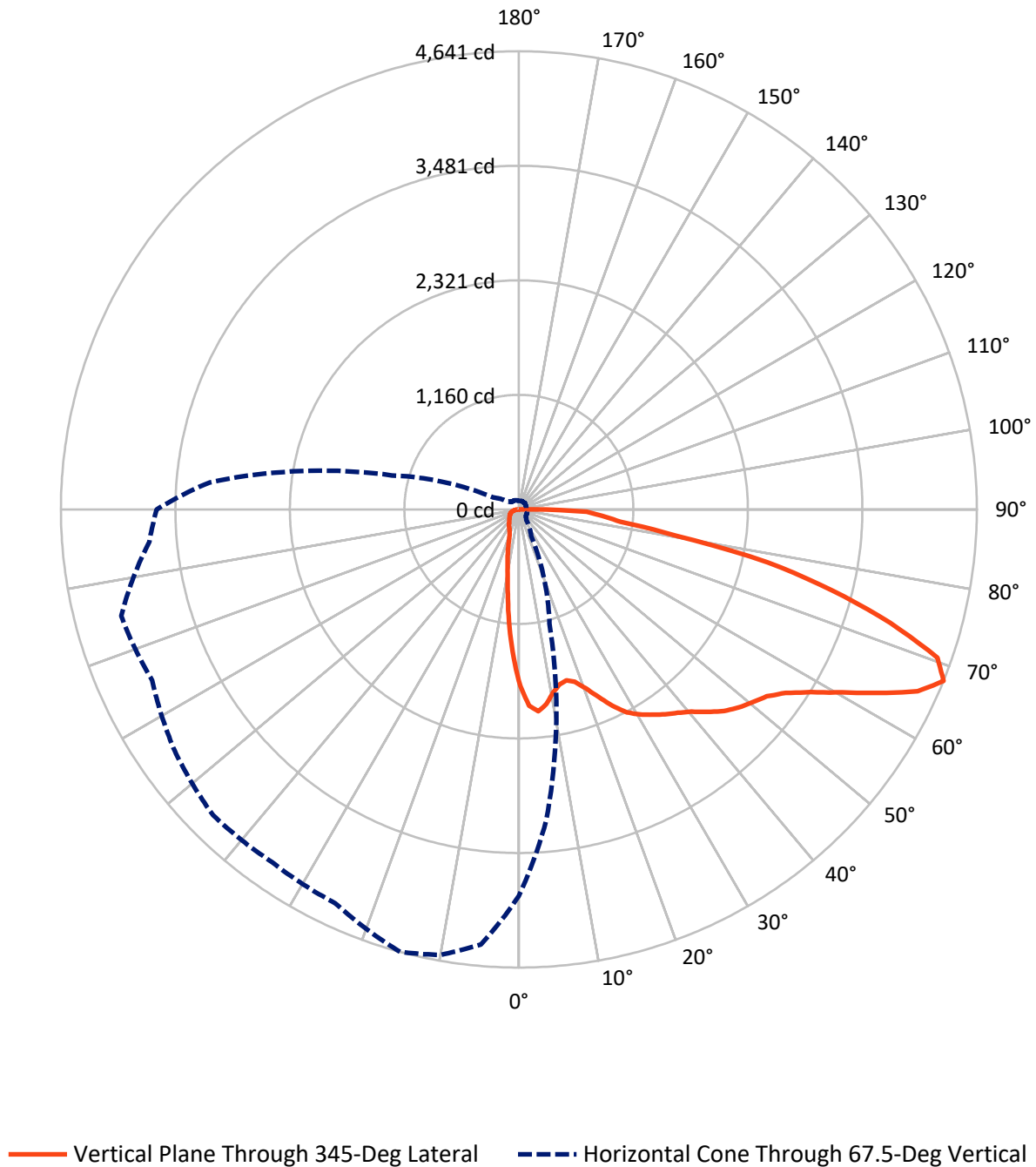
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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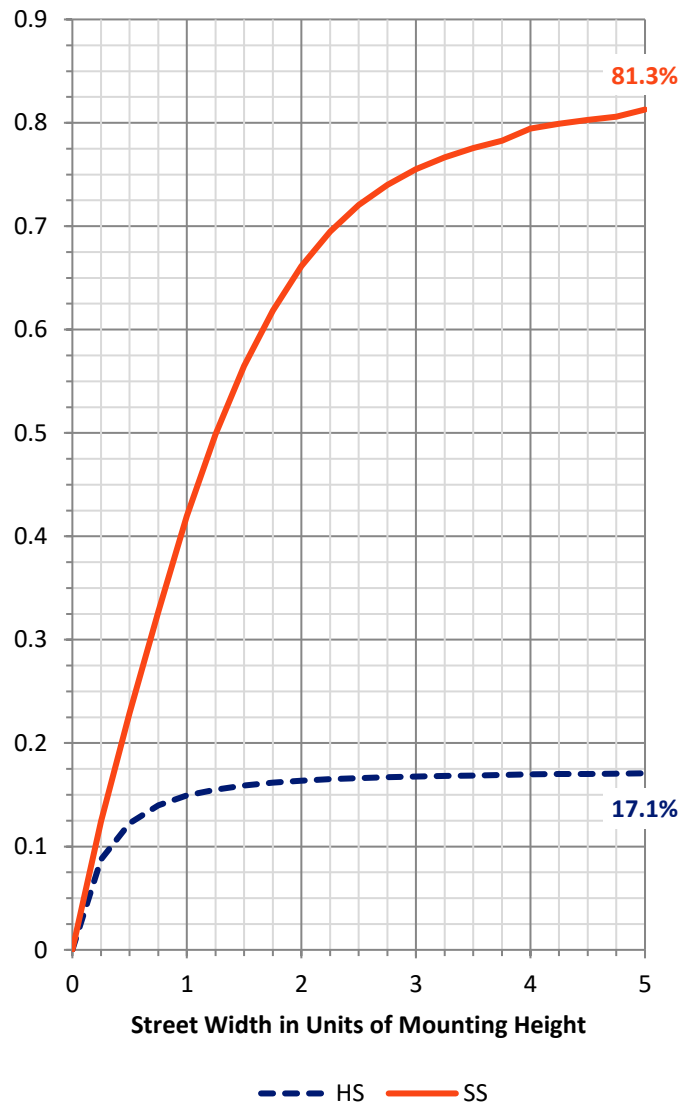
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1016.9   | 0.0    | 1016.9 |
|                    | % Fixture | 17.3     | 0.0    | 17.3   |
| <b>Street Side</b> | Lumens    | 4865.1   | 0.0    | 4865.1 |
|                    | % Fixture | 82.7     | 0.0    | 82.7   |
| <b>Total</b>       | Lumens    | 5882.0   | 0.0    | 5882.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.3  | 2.4       |
| 10°-20°   | 287.3  | 4.9       |
| 20°-30°   | 408.6  | 6.9       |
| 30°-40°   | 588.8  | 10.0      |
| 40°-50°   | 829.8  | 14.1      |
| 50°-60°   | 1153.6 | 19.6      |
| 60°-70°   | 1395.0 | 23.7      |
| 70°-80°   | 857.5  | 14.6      |
| 80°-90°   | 223.1  | 3.8       |
| 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°    | 5882.0 | 100.0     |
| 0°-180°   | 5882.0 | 100.0     |

**Coefficient of Utilization**



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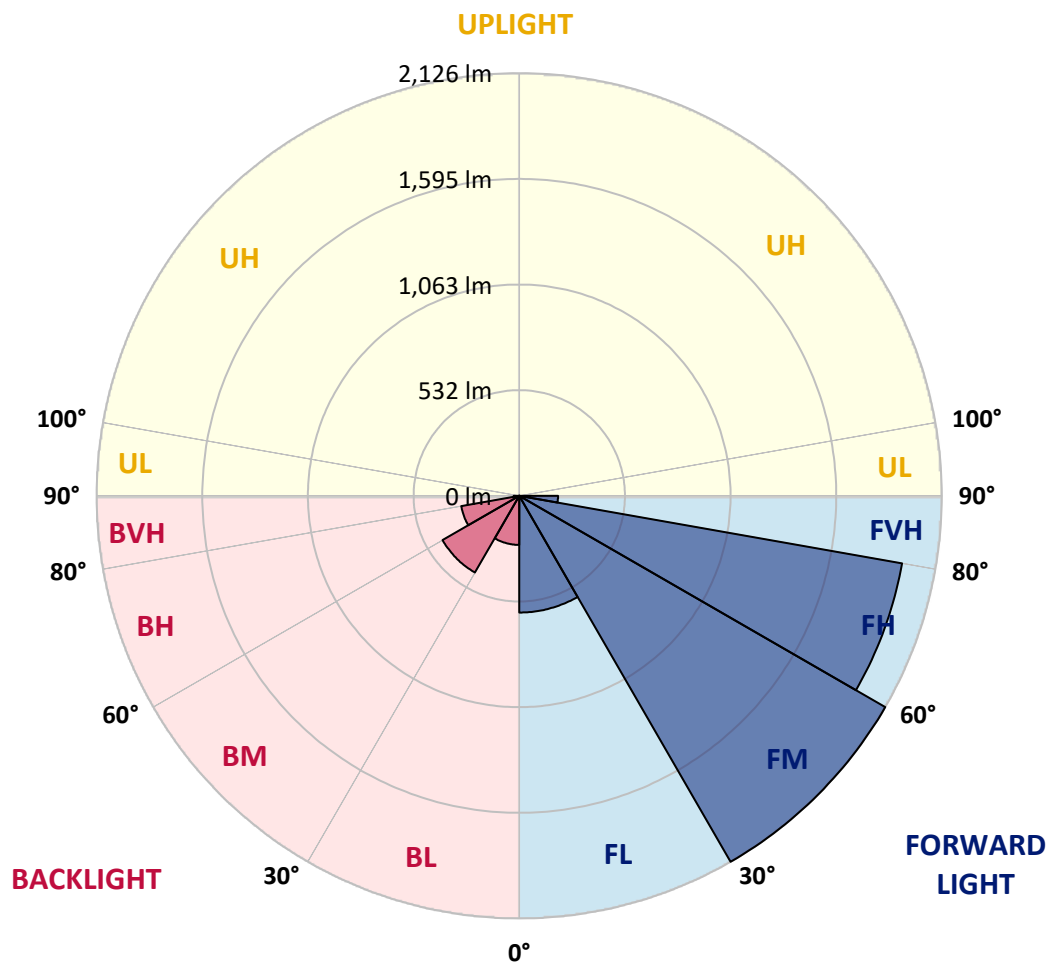
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 587.3  | 10.0      |                         |      |         |
| FM   | (30°-60°)   | 2126.5 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 1956.2 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 195.2  | 3.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 246.9  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 445.7  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 296.3  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 28.0   | 0.5       |                         |      | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 1919.7 | 1902.8 | 1877.1 | 1851.5 | 1832.4 | 1813.2 | 1791.3 | 1769.4 | 1744.5 | 1719.3 | 1704.5 |
| 5°     | 1887.9 | 1840.9 | 1779.8 | 1718.6 | 1678.2 | 1637.7 | 1591.9 | 1546.0 | 1500.6 | 1455.2 | 1430.8 |
| 7.5°   | 1745.0 | 1674.4 | 1594.9 | 1515.4 | 1456.6 | 1397.6 | 1334.1 | 1270.4 | 1213.9 | 1157.3 | 1122.2 |
| 10°    | 1604.3 | 1519.7 | 1428.4 | 1336.9 | 1261.7 | 1186.4 | 1122.7 | 1058.7 | 1016.2 | 973.6  | 941.4  |
| 12.5°  | 1503.4 | 1409.6 | 1309.2 | 1208.5 | 1133.3 | 1058.0 | 1017.6 | 977.1  | 941.9  | 906.6  | 869.4  |
| 15°    | 1463.5 | 1357.4 | 1254.6 | 1151.6 | 1083.2 | 1014.8 | 969.8  | 924.7  | 877.4  | 829.9  | 784.3  |
| 17.5°  | 1498.7 | 1374.6 | 1262.9 | 1151.2 | 1061.6 | 972.0  | 909.2  | 846.1  | 783.8  | 721.5  | 668.6  |
| 20°    | 1608.8 | 1450.3 | 1304.3 | 1158.0 | 1038.7 | 919.5  | 835.3  | 750.9  | 670.9  | 591.0  | 531.0  |
| 22.5°  | 1763.3 | 1553.5 | 1362.8 | 1172.1 | 1018.0 | 863.8  | 758.2  | 652.4  | 557.8  | 463.3  | 404.5  |
| 25°    | 1951.0 | 1690.4 | 1447.2 | 1203.8 | 1009.6 | 815.1  | 685.3  | 555.5  | 455.8  | 355.8  | 314.0  |
| 27.5°  | 2148.7 | 1853.6 | 1552.1 | 1250.4 | 1011.0 | 771.6  | 623.9  | 476.0  | 386.1  | 296.3  | 267.6  |
| 30°    | 2313.6 | 2040.1 | 1674.4 | 1308.5 | 1016.4 | 724.3  | 566.1  | 407.8  | 333.7  | 259.6  | 241.0  |
| 32.5°  | 2464.3 | 2170.1 | 1766.6 | 1362.8 | 1022.5 | 682.0  | 521.4  | 360.5  | 300.1  | 239.4  | 224.1  |
| 35°    | 2620.0 | 2285.6 | 1831.0 | 1376.2 | 1011.9 | 647.4  | 490.8  | 334.2  | 278.4  | 222.5  | 209.5  |
| 37.5°  | 2791.5 | 2410.5 | 1893.1 | 1375.5 | 994.1  | 612.6  | 467.0  | 321.2  | 264.3  | 207.2  | 197.8  |
| 40°    | 2982.7 | 2548.5 | 1960.4 | 1372.2 | 977.8  | 583.2  | 449.4  | 315.4  | 256.6  | 197.5  | 189.5  |
| 42.5°  | 3169.6 | 2680.2 | 2022.9 | 1365.6 | 964.7  | 563.5  | 432.0  | 300.5  | 249.5  | 198.2  | 187.0  |
| 45°    | 3310.0 | 2795.2 | 2077.3 | 1359.0 | 954.8  | 550.5  | 418.4  | 286.2  | 242.9  | 199.7  | 185.3  |
| 47.5°  | 3416.5 | 2910.7 | 2137.5 | 1364.0 | 953.8  | 543.7  | 408.7  | 273.7  | 230.5  | 187.0  | 181.1  |
| 50°    | 3552.0 | 3049.4 | 2225.2 | 1400.9 | 966.8  | 532.7  | 397.4  | 262.0  | 218.5  | 175.0  | 183.0  |
| 52.5°  | 3720.6 | 3247.5 | 2361.1 | 1474.5 | 993.8  | 513.1  | 379.6  | 246.0  | 203.9  | 161.6  | 174.0  |
| 55°    | 3968.3 | 3501.2 | 2534.9 | 1568.3 | 1026.5 | 484.4  | 352.5  | 220.4  | 184.6  | 148.6  | 159.7  |
| 57.5°  | 4190.5 | 3757.5 | 2701.6 | 1645.5 | 1047.0 | 448.2  | 318.4  | 188.6  | 163.0  | 137.3  | 143.7  |
| 60°    | 4289.5 | 3889.7 | 2779.7 | 1669.5 | 1034.7 | 400.0  | 280.1  | 159.9  | 143.9  | 127.9  | 126.8  |
| 62.5°  | 4250.9 | 3805.7 | 2702.8 | 1599.9 | 975.0  | 350.2  | 246.2  | 142.3  | 130.3  | 118.1  | 115.5  |
| 65°    | 4138.0 | 3541.9 | 2487.4 | 1432.9 | 874.1  | 315.4  | 224.8  | 134.3  | 120.9  | 107.5  | 104.7  |
| 67.5°  | 3915.6 | 3166.3 | 2182.1 | 1198.0 | 746.0  | 294.0  | 212.6  | 131.2  | 115.0  | 98.5   | 95.2   |
| 70°    | 3516.3 | 2714.3 | 1830.6 | 946.6  | 613.8  | 280.8  | 204.6  | 128.4  | 108.6  | 88.7   | 85.6   |
| 72.5°  | 2888.1 | 2176.3 | 1461.8 | 747.1  | 513.1  | 279.1  | 203.7  | 128.2  | 103.5  | 78.8   | 76.0   |
| 75°    | 2067.8 | 1653.0 | 1115.9 | 578.5  | 420.2  | 262.0  | 193.3  | 124.6  | 96.4   | 68.0   | 65.4   |
| 77.5°  | 1391.5 | 1144.1 | 775.6  | 406.8  | 311.8  | 216.8  | 162.5  | 108.2  | 82.5   | 56.9   | 54.3   |
| 80°    | 893.6  | 791.8  | 519.7  | 247.6  | 202.2  | 156.9  | 116.2  | 75.5   | 60.2   | 44.7   | 42.6   |
| 82.5°  | 655.7  | 589.3  | 361.2  | 133.1  | 112.4  | 91.5   | 71.0   | 50.6   | 41.2   | 31.7   | 30.8   |
| 85°    | 416.7  | 459.5  | 266.0  | 72.4   | 59.3   | 46.1   | 38.1   | 30.1   | 23.8   | 17.4   | 17.4   |
| 87.5°  | 80.9   | 111.9  | 73.6   | 35.0   | 25.6   | 16.2   | 13.9   | 11.3   | 6.3    | 1.2    | 1.4    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 1689.5 | 1673.2 | 1657.0 | 1638.7 | 1620.1 | 1602.9 | 1585.5 | 1566.5 | 1570.0 | 1555.4 | 1540.8 |
| 5°     | 1406.3 | 1380.4 | 1354.3 | 1331.8 | 1309.2 | 1289.7 | 1269.9 | 1252.3 | 1267.6 | 1257.2 | 1246.9 |
| 7.5°   | 1087.0 | 1055.0 | 1022.8 | 995.7  | 968.7  | 947.7  | 926.6  | 912.0  | 927.0  | 925.2  | 923.3  |
| 10°    | 909.2  | 878.1  | 846.8  | 817.0  | 787.1  | 761.7  | 736.1  | 714.4  | 710.7  | 699.9  | 688.8  |
| 12.5°  | 832.0  | 789.5  | 746.7  | 715.4  | 684.1  | 653.8  | 623.4  | 598.0  | 586.5  | 568.6  | 550.5  |
| 15°    | 738.7  | 688.3  | 638.0  | 602.5  | 566.8  | 537.4  | 507.7  | 485.9  | 478.6  | 464.7  | 450.8  |
| 17.5°  | 615.7  | 560.6  | 505.6  | 469.6  | 433.4  | 409.9  | 386.1  | 371.6  | 371.6  | 367.6  | 363.6  |
| 20°    | 471.0  | 421.9  | 372.7  | 345.2  | 317.7  | 305.3  | 292.6  | 286.4  | 288.3  | 288.6  | 288.6  |
| 22.5°  | 345.5  | 315.4  | 285.3  | 274.2  | 262.9  | 258.5  | 254.0  | 251.4  | 252.3  | 252.6  | 252.8  |
| 25°    | 272.1  | 260.6  | 248.8  | 243.2  | 237.3  | 234.5  | 231.6  | 230.7  | 232.8  | 233.1  | 233.1  |
| 27.5°  | 238.9  | 231.9  | 224.6  | 221.1  | 217.3  | 216.1  | 214.9  | 213.3  | 215.4  | 215.4  | 215.2  |
| 30°    | 222.2  | 214.7  | 207.2  | 202.7  | 198.2  | 198.7  | 199.0  | 198.5  | 199.9  | 200.8  | 201.5  |
| 32.5°  | 208.6  | 201.3  | 194.0  | 189.5  | 184.8  | 184.1  | 183.4  | 183.0  | 186.0  | 187.7  | 189.3  |
| 35°    | 196.4  | 188.4  | 180.4  | 176.1  | 171.9  | 170.3  | 168.6  | 167.4  | 170.3  | 172.4  | 174.5  |
| 37.5°  | 188.1  | 179.9  | 171.4  | 167.4  | 163.2  | 161.1  | 159.0  | 157.6  | 158.7  | 159.7  | 160.6  |
| 40°    | 181.6  | 173.1  | 164.4  | 159.7  | 155.0  | 152.9  | 150.7  | 149.6  | 150.3  | 150.5  | 150.7  |
| 42.5°  | 175.4  | 167.2  | 159.0  | 153.8  | 148.4  | 145.8  | 143.2  | 141.8  | 142.3  | 142.7  | 143.0  |
| 45°    | 171.0  | 162.7  | 154.3  | 148.2  | 141.8  | 139.0  | 136.2  | 134.5  | 134.8  | 134.8  | 134.8  |
| 47.5°  | 175.2  | 163.2  | 151.0  | 143.9  | 136.6  | 133.3  | 130.0  | 128.4  | 127.9  | 127.5  | 127.0  |
| 50°    | 190.7  | 170.3  | 149.6  | 140.6  | 131.5  | 127.9  | 124.2  | 122.3  | 121.1  | 120.6  | 120.2  |
| 52.5°  | 186.3  | 168.6  | 150.7  | 139.2  | 127.5  | 123.2  | 119.0  | 115.9  | 114.8  | 114.1  | 113.4  |
| 55°    | 170.5  | 159.4  | 148.2  | 134.3  | 120.4  | 116.6  | 112.6  | 110.5  | 108.4  | 107.9  | 107.5  |
| 57.5°  | 149.8  | 145.3  | 140.9  | 126.8  | 112.6  | 109.1  | 105.4  | 103.9  | 102.1  | 102.1  | 101.8  |
| 60°    | 125.3  | 131.9  | 138.5  | 122.3  | 105.8  | 101.8  | 97.8   | 96.7   | 95.9   | 95.7   | 95.5   |
| 62.5°  | 112.6  | 123.5  | 134.0  | 116.9  | 99.5   | 95.2   | 91.0   | 89.6   | 89.4   | 89.6   | 89.6   |
| 65°    | 101.8  | 105.1  | 108.4  | 100.4  | 92.4   | 88.2   | 83.7   | 82.3   | 82.8   | 83.5   | 84.2   |
| 67.5°  | 92.0   | 91.2   | 90.5   | 87.7   | 84.7   | 81.1   | 77.4   | 76.0   | 76.2   | 77.1   | 78.1   |
| 70°    | 82.5   | 81.6   | 80.4   | 78.3   | 76.2   | 73.1   | 70.1   | 69.1   | 68.9   | 70.1   | 71.0   |
| 72.5°  | 73.1   | 72.0   | 70.6   | 68.9   | 67.0   | 64.4   | 61.8   | 61.1   | 61.4   | 62.1   | 62.8   |
| 75°    | 62.8   | 61.8   | 60.7   | 59.3   | 57.6   | 55.3   | 52.9   | 52.4   | 52.9   | 53.6   | 54.3   |
| 77.5°  | 51.5   | 51.3   | 50.8   | 49.6   | 48.4   | 45.9   | 43.0   | 42.8   | 43.5   | 44.2   | 44.7   |
| 80°    | 40.2   | 40.4   | 40.7   | 39.7   | 38.8   | 36.0   | 32.9   | 32.7   | 33.4   | 34.1   | 34.8   |
| 82.5°  | 29.6   | 30.3   | 30.8   | 29.6   | 28.5   | 25.2   | 21.9   | 21.4   | 23.8   | 24.5   | 25.2   |
| 85°    | 17.2   | 18.1   | 19.0   | 18.1   | 17.2   | 13.9   | 10.6   | 10.3   | 12.5   | 13.6   | 14.8   |
| 87.5°  | 1.4    | 1.9    | 2.4    | 2.1    | 1.9    | 0.9    | 0.0    | 0.0    | 0.2    | 1.2    | 2.1    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P362303  
 CATALOG NUMBER: NVN-SA1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |



REPORT NUMBER: P362303

CATALOG NUMBER: NVN-SA1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 1531.7 | 1522.5 | 1519.7 | 1516.8 | 1506.5 | 1495.9 | 1506.7 | 1517.3 | 1521.8 | 1526.3 | 1514.7 |
| 5°     | 1245.5 | 1243.8 | 1243.8 | 1243.6 | 1234.2 | 1224.5 | 1231.8 | 1238.9 | 1223.1 | 1207.4 | 1205.7 |
| 7.5°   | 933.4  | 943.5  | 951.7  | 959.7  | 956.7  | 953.6  | 960.4  | 967.3  | 947.3  | 927.0  | 917.2  |
| 10°    | 691.2  | 693.3  | 702.2  | 711.2  | 713.3  | 715.2  | 723.6  | 731.8  | 716.3  | 700.8  | 694.0  |
| 12.5°  | 539.2  | 528.0  | 529.1  | 530.1  | 534.3  | 538.3  | 547.2  | 555.9  | 549.6  | 543.0  | 543.7  |
| 15°    | 436.7  | 422.4  | 416.5  | 410.4  | 415.1  | 419.8  | 426.1  | 432.2  | 432.5  | 432.5  | 438.6  |
| 17.5°  | 356.5  | 349.2  | 343.3  | 337.2  | 343.6  | 349.7  | 350.4  | 351.1  | 351.3  | 351.6  | 351.1  |
| 20°    | 292.1  | 295.6  | 293.7  | 291.8  | 294.2  | 296.3  | 298.2  | 299.8  | 297.7  | 295.4  | 289.5  |
| 22.5°  | 256.1  | 259.2  | 261.5  | 263.6  | 267.6  | 271.4  | 269.5  | 267.4  | 263.2  | 258.7  | 254.2  |
| 25°    | 235.2  | 237.3  | 239.6  | 242.0  | 245.3  | 248.3  | 245.0  | 241.8  | 238.7  | 235.6  | 232.6  |
| 27.5°  | 217.5  | 219.6  | 221.8  | 223.6  | 226.7  | 229.5  | 226.5  | 223.4  | 220.8  | 218.2  | 215.9  |
| 30°    | 203.2  | 204.6  | 206.2  | 207.9  | 210.7  | 213.3  | 210.7  | 207.9  | 206.0  | 203.9  | 202.2  |
| 32.5°  | 191.0  | 192.4  | 193.1  | 193.8  | 196.4  | 199.0  | 197.1  | 195.2  | 193.5  | 191.9  | 190.7  |
| 35°    | 177.6  | 180.4  | 180.8  | 181.3  | 183.9  | 186.5  | 185.3  | 183.9  | 182.0  | 180.1  | 178.0  |
| 37.5°  | 163.9  | 167.2  | 169.1  | 170.7  | 173.3  | 175.9  | 174.7  | 173.6  | 171.0  | 168.4  | 164.6  |
| 40°    | 152.4  | 153.8  | 157.3  | 160.6  | 164.9  | 168.9  | 166.5  | 163.9  | 159.9  | 155.9  | 154.0  |
| 42.5°  | 142.7  | 142.5  | 145.8  | 149.1  | 155.4  | 161.6  | 157.3  | 153.1  | 149.3  | 145.6  | 145.1  |
| 45°    | 134.3  | 133.6  | 135.2  | 136.9  | 143.7  | 150.3  | 146.0  | 141.6  | 139.5  | 137.3  | 137.3  |
| 47.5°  | 126.8  | 126.3  | 127.5  | 128.4  | 132.6  | 136.6  | 134.5  | 132.4  | 131.2  | 130.0  | 130.3  |
| 50°    | 119.9  | 119.5  | 120.6  | 121.6  | 123.2  | 124.6  | 125.1  | 125.3  | 124.6  | 123.9  | 124.4  |
| 52.5°  | 113.6  | 113.6  | 114.1  | 114.3  | 116.4  | 118.5  | 118.5  | 118.3  | 118.3  | 118.3  | 118.8  |
| 55°    | 108.2  | 108.6  | 108.6  | 108.6  | 111.9  | 115.0  | 114.1  | 113.1  | 113.4  | 113.4  | 113.8  |
| 57.5°  | 102.8  | 103.5  | 103.9  | 104.4  | 107.7  | 111.0  | 110.1  | 109.1  | 109.1  | 109.1  | 109.4  |
| 60°    | 96.7   | 97.6   | 98.5   | 99.5   | 102.8  | 106.1  | 105.1  | 103.9  | 104.2  | 104.4  | 104.7  |
| 62.5°  | 90.8   | 91.7   | 92.7   | 93.6   | 96.9   | 100.2  | 99.2   | 98.1   | 98.8   | 99.2   | 99.2   |
| 65°    | 85.1   | 85.8   | 86.8   | 87.7   | 90.8   | 93.8   | 92.9   | 92.0   | 92.9   | 93.6   | 94.1   |
| 67.5°  | 78.8   | 79.3   | 80.2   | 81.1   | 84.2   | 87.2   | 86.3   | 85.1   | 86.3   | 87.2   | 88.2   |
| 70°    | 71.5   | 72.0   | 73.1   | 74.1   | 77.1   | 80.2   | 79.0   | 77.8   | 79.0   | 80.2   | 81.1   |
| 72.5°  | 63.5   | 64.0   | 65.1   | 66.1   | 69.6   | 73.1   | 71.7   | 70.3   | 71.7   | 73.1   | 73.6   |
| 75°    | 54.8   | 55.3   | 56.7   | 57.9   | 61.4   | 64.9   | 63.7   | 62.3   | 63.5   | 64.7   | 64.9   |
| 77.5°  | 45.4   | 46.1   | 48.0   | 49.9   | 52.7   | 55.5   | 54.8   | 54.1   | 54.8   | 55.5   | 55.5   |
| 80°    | 35.5   | 36.2   | 38.6   | 40.7   | 42.3   | 44.0   | 44.2   | 44.4   | 44.7   | 44.9   | 44.7   |
| 82.5°  | 26.3   | 27.3   | 29.4   | 31.5   | 31.5   | 31.5   | 33.4   | 35.0   | 35.0   | 34.8   | 34.6   |
| 85°    | 16.2   | 17.4   | 19.3   | 21.2   | 20.0   | 18.8   | 21.9   | 24.7   | 24.7   | 24.5   | 24.0   |
| 87.5°  | 3.3    | 4.5    | 6.3    | 8.0    | 6.8    | 5.6    | 8.7    | 11.8   | 12.0   | 12.0   | 11.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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: NVN-SA1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 1503.0 | 1521.3 | 1539.4 | 1544.1 | 1551.2 | 1554.2 | 1557.1 | 1580.1 | 1602.9 | 1629.7 | 1656.5 |
| 5°     | 1203.8 | 1217.5 | 1231.1 | 1233.2 | 1240.5 | 1244.3 | 1248.0 | 1276.0 | 1303.8 | 1341.2 | 1378.6 |
| 7.5°   | 907.3  | 910.6  | 913.9  | 913.4  | 919.5  | 927.7  | 935.7  | 965.6  | 995.2  | 1035.5 | 1075.4 |
| 10°    | 687.2  | 694.7  | 702.0  | 708.8  | 722.2  | 737.7  | 753.0  | 783.6  | 814.2  | 853.9  | 893.4  |
| 12.5°  | 544.4  | 553.1  | 561.6  | 569.1  | 584.6  | 605.3  | 625.8  | 662.5  | 699.2  | 746.7  | 793.9  |
| 15°    | 444.5  | 443.8  | 443.1  | 448.2  | 461.9  | 484.4  | 506.8  | 545.6  | 584.4  | 636.6  | 688.6  |
| 17.5°  | 350.6  | 347.1  | 343.6  | 347.6  | 360.3  | 378.9  | 397.2  | 430.1  | 462.8  | 513.4  | 563.9  |
| 20°    | 283.6  | 281.3  | 278.9  | 282.7  | 290.7  | 298.4  | 306.2  | 329.9  | 353.5  | 394.6  | 435.5  |
| 22.5°  | 249.5  | 249.3  | 248.8  | 250.9  | 254.7  | 258.7  | 262.4  | 274.0  | 285.3  | 311.8  | 338.2  |
| 25°    | 229.5  | 229.3  | 229.1  | 230.0  | 233.1  | 236.1  | 239.2  | 246.7  | 254.2  | 266.9  | 279.6  |
| 27.5°  | 213.5  | 213.1  | 212.6  | 212.8  | 213.5  | 218.2  | 222.7  | 226.2  | 229.5  | 238.2  | 246.7  |
| 30°    | 200.6  | 200.4  | 200.1  | 200.1  | 199.4  | 201.1  | 202.7  | 208.1  | 213.3  | 222.2  | 231.2  |
| 32.5°  | 189.5  | 188.4  | 187.2  | 184.6  | 183.0  | 185.3  | 187.7  | 193.3  | 199.0  | 207.2  | 215.4  |
| 35°    | 175.7  | 172.6  | 169.3  | 167.9  | 168.1  | 170.5  | 172.8  | 178.5  | 183.9  | 192.8  | 201.5  |
| 37.5°  | 160.6  | 159.7  | 158.5  | 158.3  | 159.0  | 161.3  | 163.7  | 168.6  | 173.3  | 182.3  | 191.0  |
| 40°    | 152.2  | 151.7  | 151.2  | 150.7  | 151.2  | 153.6  | 155.9  | 160.6  | 165.1  | 173.8  | 182.3  |
| 42.5°  | 144.6  | 144.4  | 144.2  | 144.2  | 144.4  | 147.0  | 149.6  | 154.3  | 158.7  | 166.5  | 174.3  |
| 45°    | 137.3  | 137.6  | 137.6  | 138.0  | 138.8  | 141.3  | 143.7  | 148.9  | 154.0  | 161.6  | 169.1  |
| 47.5°  | 130.5  | 131.2  | 131.7  | 132.9  | 133.6  | 136.4  | 139.0  | 144.6  | 150.3  | 159.7  | 168.9  |
| 50°    | 124.6  | 125.3  | 125.8  | 126.8  | 128.6  | 131.9  | 135.2  | 142.0  | 148.6  | 164.4  | 179.9  |
| 52.5°  | 119.2  | 119.9  | 120.6  | 121.6  | 123.9  | 127.7  | 131.5  | 139.9  | 148.2  | 166.5  | 184.8  |
| 55°    | 114.3  | 115.0  | 115.5  | 116.9  | 119.2  | 122.5  | 125.6  | 135.9  | 146.3  | 159.7  | 173.1  |
| 57.5°  | 109.6  | 110.3  | 110.8  | 111.7  | 112.9  | 116.4  | 119.7  | 130.8  | 141.8  | 151.2  | 160.4  |
| 60°    | 104.7  | 105.1  | 105.4  | 105.4  | 106.3  | 110.3  | 114.3  | 128.4  | 142.3  | 140.6  | 138.8  |
| 62.5°  | 99.2   | 99.7   | 99.9   | 99.2   | 100.4  | 104.7  | 108.9  | 127.2  | 145.6  | 134.3  | 123.0  |
| 65°    | 94.3   | 94.1   | 93.8   | 93.1   | 94.5   | 98.8   | 102.8  | 111.9  | 121.1  | 116.6  | 112.2  |
| 67.5°  | 88.9   | 88.2   | 87.5   | 86.5   | 88.0   | 91.7   | 95.2   | 98.3   | 101.4  | 101.8  | 102.3  |
| 70°    | 82.1   | 81.1   | 80.2   | 80.0   | 80.7   | 83.7   | 86.8   | 88.9   | 90.8   | 91.7   | 92.4   |
| 72.5°  | 74.1   | 73.4   | 72.7   | 72.2   | 72.4   | 75.0   | 77.4   | 79.3   | 81.1   | 81.8   | 82.3   |
| 75°    | 65.1   | 65.1   | 64.9   | 63.5   | 63.5   | 65.6   | 67.5   | 69.1   | 70.8   | 71.7   | 72.7   |
| 77.5°  | 55.5   | 55.7   | 55.7   | 53.9   | 53.6   | 55.7   | 57.6   | 59.0   | 60.2   | 61.1   | 61.8   |
| 80°    | 44.4   | 44.0   | 43.5   | 42.3   | 41.9   | 44.4   | 46.8   | 48.0   | 48.9   | 49.2   | 49.2   |
| 82.5°  | 34.1   | 33.2   | 32.0   | 29.4   | 29.6   | 32.5   | 35.0   | 36.0   | 36.9   | 36.9   | 36.9   |
| 85°    | 23.3   | 21.4   | 19.3   | 17.2   | 17.4   | 20.5   | 23.3   | 24.2   | 25.2   | 25.6   | 25.9   |
| 87.5°  | 11.1   | 9.2    | 7.1    | 5.4    | 5.4    | 8.0    | 10.3   | 10.8   | 11.3   | 12.2   | 13.2   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 1677.0 | 1697.2 | 1718.1 | 1739.1 | 1763.1 | 1787.1 | 1815.0 | 1842.8 | 1866.5 | 1890.3 | 1910.0 |
| 5°     | 1410.8 | 1443.0 | 1480.9 | 1518.7 | 1566.9 | 1615.1 | 1674.2 | 1733.0 | 1785.4 | 1837.9 | 1898.8 |
| 7.5°   | 1117.5 | 1159.4 | 1208.8 | 1258.2 | 1320.5 | 1382.8 | 1459.2 | 1535.7 | 1609.7 | 1683.6 | 1777.2 |
| 10°    | 937.4  | 981.4  | 1030.0 | 1078.5 | 1142.0 | 1205.2 | 1286.1 | 1366.8 | 1450.1 | 1533.1 | 1638.9 |
| 12.5°  | 842.8  | 891.5  | 934.3  | 977.1  | 1028.6 | 1079.9 | 1158.2 | 1236.5 | 1334.4 | 1431.9 | 1533.8 |
| 15°    | 742.0  | 795.1  | 846.4  | 897.6  | 953.8  | 1009.8 | 1086.0 | 1162.2 | 1269.2 | 1376.2 | 1493.3 |
| 17.5°  | 619.9  | 675.9  | 738.4  | 800.8  | 874.1  | 947.3  | 1044.9 | 1142.5 | 1269.2 | 1395.7 | 1533.8 |
| 20°    | 492.7  | 549.8  | 624.6  | 699.4  | 790.6  | 881.7  | 1008.2 | 1134.7 | 1305.4 | 1475.9 | 1652.1 |
| 22.5°  | 388.7  | 439.1  | 520.7  | 602.0  | 707.4  | 812.7  | 975.0  | 1137.0 | 1360.2 | 1583.2 | 1820.9 |
| 25°    | 315.1  | 350.6  | 430.8  | 510.8  | 632.4  | 754.0  | 954.8  | 1155.4 | 1439.9 | 1724.3 | 2019.2 |
| 27.5°  | 270.0  | 293.3  | 368.0  | 442.6  | 575.5  | 708.1  | 946.6  | 1184.8 | 1541.1 | 1897.3 | 2234.8 |
| 30°    | 247.4  | 263.6  | 326.9  | 389.9  | 524.9  | 659.9  | 936.7  | 1213.5 | 1638.4 | 2063.1 | 2403.4 |
| 32.5°  | 228.6  | 241.5  | 295.6  | 349.5  | 481.2  | 612.9  | 917.6  | 1222.2 | 1706.4 | 2190.6 | 2546.2 |
| 35°    | 212.6  | 223.4  | 270.4  | 317.5  | 446.8  | 576.2  | 885.6  | 1195.1 | 1749.0 | 2302.8 | 2694.8 |
| 37.5°  | 199.7  | 208.1  | 251.6  | 295.1  | 417.2  | 539.2  | 849.2  | 1159.2 | 1786.8 | 2414.5 | 2862.0 |
| 40°    | 189.5  | 196.8  | 237.5  | 278.2  | 389.0  | 499.7  | 817.9  | 1135.9 | 1839.0 | 2542.2 | 3038.6 |
| 42.5°  | 183.9  | 193.3  | 225.3  | 257.0  | 362.2  | 467.3  | 792.8  | 1118.2 | 1887.5 | 2656.5 | 3193.1 |
| 45°    | 182.5  | 195.9  | 218.9  | 242.0  | 342.2  | 442.4  | 770.4  | 1098.2 | 1918.7 | 2739.3 | 3309.5 |
| 47.5°  | 180.1  | 191.2  | 214.0  | 236.8  | 332.3  | 427.5  | 758.4  | 1089.1 | 1950.0 | 2810.7 | 3406.2 |
| 50°    | 181.6  | 183.0  | 210.0  | 236.8  | 330.9  | 425.0  | 772.1  | 1119.2 | 2017.8 | 2916.1 | 3516.7 |
| 52.5°  | 179.0  | 172.8  | 202.5  | 232.1  | 330.6  | 429.2  | 811.3  | 1193.5 | 2143.6 | 3093.4 | 3636.4 |
| 55°    | 165.3  | 157.3  | 188.4  | 219.4  | 325.7  | 431.8  | 858.1  | 1284.3 | 2312.4 | 3340.3 | 3851.6 |
| 57.5°  | 153.3  | 146.0  | 172.4  | 198.5  | 310.7  | 422.8  | 906.3  | 1389.6 | 2490.9 | 3592.0 | 4094.1 |
| 60°    | 137.3  | 135.7  | 154.5  | 173.3  | 287.4  | 401.2  | 946.1  | 1490.7 | 2610.9 | 3730.7 | 4187.4 |
| 62.5°  | 124.2  | 125.1  | 139.0  | 152.9  | 258.2  | 363.3  | 959.3  | 1554.9 | 2607.6 | 3660.2 | 4093.4 |
| 65°    | 114.1  | 115.7  | 129.3  | 143.0  | 233.3  | 323.6  | 916.0  | 1508.1 | 2475.6 | 3442.9 | 3907.3 |
| 67.5°  | 104.2  | 106.1  | 122.3  | 138.3  | 211.2  | 283.8  | 807.8  | 1331.5 | 2238.3 | 3144.9 | 3670.8 |
| 70°    | 94.8   | 97.1   | 114.8  | 132.4  | 195.2  | 257.7  | 668.4  | 1079.0 | 1941.3 | 2803.5 | 3396.8 |
| 72.5°  | 84.7   | 87.0   | 105.8  | 124.6  | 185.1  | 245.3  | 544.9  | 844.3  | 1575.4 | 2306.3 | 2905.5 |
| 75°    | 74.3   | 76.0   | 96.4   | 116.6  | 171.2  | 225.8  | 427.5  | 629.1  | 1205.7 | 1782.4 | 2194.6 |
| 77.5°  | 64.0   | 66.1   | 83.3   | 100.2  | 145.3  | 190.3  | 322.2  | 454.1  | 884.7  | 1315.1 | 1526.3 |
| 80°    | 51.0   | 52.9   | 65.1   | 77.1   | 112.2  | 147.0  | 221.5  | 296.1  | 608.9  | 921.6  | 1040.6 |
| 82.5°  | 39.0   | 41.2   | 49.4   | 57.4   | 80.0   | 102.5  | 134.3  | 166.0  | 404.5  | 642.7  | 652.6  |
| 85°    | 26.8   | 27.5   | 33.4   | 39.0   | 49.4   | 59.7   | 76.9   | 94.1   | 267.6  | 441.2  | 367.6  |
| 87.5°  | 13.4   | 13.4   | 17.4   | 21.4   | 26.6   | 31.7   | 40.7   | 49.4   | 85.6   | 121.8  | 70.1   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |





REPORT NUMBER: P362303

CATALOG NUMBER: NVN-SA1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 1935.2 | 1952.4 | 1969.8 | 1982.9 | 1996.4 | 2015.6 | 2034.9 | 2038.4 | 2042.2 | 2034.7 | 2027.2 |
| 5°     | 1960.1 | 2012.1 | 2064.3 | 2112.5 | 2160.7 | 2189.7 | 2218.6 | 2224.5 | 2230.3 | 2212.2 | 2193.9 |
| 7.5°   | 1867.7 | 1958.3 | 2048.8 | 2131.8 | 2214.8 | 2265.2 | 2315.7 | 2327.0 | 2338.5 | 2308.9 | 2279.3 |
| 10°    | 1744.3 | 1855.5 | 1966.7 | 2076.1 | 2185.4 | 2258.6 | 2331.7 | 2346.3 | 2360.9 | 2323.9 | 2287.0 |
| 12.5°  | 1648.8 | 1767.5 | 1886.3 | 2001.5 | 2117.0 | 2192.7 | 2268.4 | 2286.6 | 2304.7 | 2277.9 | 2250.8 |
| 15°    | 1619.4 | 1731.1 | 1842.8 | 1943.2 | 2043.9 | 2105.7 | 2167.8 | 2175.1 | 2182.6 | 2178.4 | 2174.1 |
| 17.5°  | 1672.8 | 1773.6 | 1874.8 | 1929.3 | 1984.1 | 2008.8 | 2033.7 | 2041.7 | 2050.0 | 2060.6 | 2071.4 |
| 20°    | 1802.1 | 1873.1 | 1944.4 | 1942.0 | 1939.4 | 1927.4 | 1915.2 | 1913.1 | 1911.0 | 1941.3 | 1971.9 |
| 22.5°  | 1995.2 | 2023.4 | 2051.9 | 1985.8 | 1919.7 | 1879.5 | 1839.0 | 1831.0 | 1822.8 | 1855.0 | 1887.5 |
| 25°    | 2204.7 | 2199.5 | 2194.1 | 2068.3 | 1942.3 | 1865.6 | 1788.9 | 1780.0 | 1771.1 | 1798.6 | 1826.3 |
| 27.5°  | 2412.1 | 2378.3 | 2344.4 | 2173.4 | 2002.5 | 1891.2 | 1780.0 | 1771.1 | 1762.1 | 1786.6 | 1811.0 |
| 30°    | 2564.3 | 2510.0 | 2455.6 | 2262.1 | 2068.6 | 1936.4 | 1804.2 | 1789.6 | 1774.8 | 1804.9 | 1835.0 |
| 32.5°  | 2683.0 | 2610.1 | 2537.2 | 2334.1 | 2130.9 | 1987.9 | 1844.9 | 1822.1 | 1799.3 | 1839.5 | 1879.7 |
| 35°    | 2801.6 | 2699.0 | 2596.3 | 2398.3 | 2200.0 | 2048.8 | 1897.3 | 1869.4 | 1841.4 | 1896.6 | 1951.9 |
| 37.5°  | 2950.7 | 2803.5 | 2656.0 | 2470.5 | 2284.9 | 2140.0 | 1994.9 | 1966.3 | 1937.6 | 2007.9 | 2078.4 |
| 40°    | 3112.5 | 2916.1 | 2719.7 | 2549.5 | 2379.2 | 2266.3 | 2153.2 | 2125.9 | 2098.4 | 2184.0 | 2269.6 |
| 42.5°  | 3247.0 | 3021.0 | 2795.0 | 2644.7 | 2494.2 | 2414.7 | 2335.0 | 2334.8 | 2334.3 | 2421.1 | 2507.8 |
| 45°    | 3356.3 | 3108.5 | 2860.4 | 2737.6 | 2614.6 | 2573.2 | 2531.8 | 2565.0 | 2598.2 | 2676.5 | 2755.0 |
| 47.5°  | 3437.9 | 3181.8 | 2925.5 | 2843.9 | 2762.3 | 2768.4 | 2774.5 | 2842.0 | 2909.5 | 2959.8 | 3010.4 |
| 50°    | 3491.1 | 3248.4 | 3005.5 | 2980.3 | 2955.1 | 3009.9 | 3065.0 | 3142.3 | 3219.9 | 3254.3 | 3288.6 |
| 52.5°  | 3568.5 | 3338.7 | 3108.7 | 3136.9 | 3165.1 | 3277.1 | 3389.0 | 3467.3 | 3545.7 | 3558.4 | 3571.3 |
| 55°    | 3747.4 | 3504.7 | 3261.8 | 3315.9 | 3370.2 | 3534.4 | 3698.7 | 3759.9 | 3821.0 | 3825.7 | 3830.4 |
| 57.5°  | 4001.6 | 3737.3 | 3473.0 | 3531.3 | 3589.6 | 3779.2 | 3969.0 | 4034.8 | 4100.9 | 4091.7 | 4082.3 |
| 60°    | 4191.9 | 3958.1 | 3724.1 | 3782.9 | 3841.7 | 4026.6 | 4211.4 | 4287.1 | 4363.1 | 4342.9 | 4322.7 |
| 62.5°  | 4203.7 | 4078.8 | 3953.7 | 4006.8 | 4060.2 | 4241.3 | 4422.4 | 4500.2 | 4578.0 | 4542.8 | 4507.5 |
| 65°    | 4016.7 | 4072.7 | 4128.6 | 4146.3 | 4163.9 | 4332.8 | 4501.9 | 4561.3 | 4621.1 | 4603.2 | 4585.3 |
| 67.5°  | 3759.2 | 3965.4 | 4171.9 | 4136.4 | 4100.9 | 4180.1 | 4259.4 | 4320.8 | 4382.1 | 4372.0 | 4361.7 |
| 70°    | 3502.1 | 3777.5 | 4052.9 | 3878.4 | 3703.7 | 3671.0 | 3638.3 | 3704.4 | 3770.7 | 3729.8 | 3688.6 |
| 72.5°  | 3064.5 | 3358.0 | 3651.7 | 3330.2 | 3008.8 | 2897.1 | 2785.3 | 2869.3 | 2953.3 | 2888.1 | 2822.7 |
| 75°    | 2405.5 | 2729.8 | 3054.4 | 2670.8 | 2287.3 | 2138.2 | 1989.1 | 2061.3 | 2133.5 | 2088.8 | 2043.9 |
| 77.5°  | 1790.8 | 2110.4 | 2430.0 | 2040.1 | 1649.9 | 1539.2 | 1428.2 | 1449.6 | 1471.2 | 1463.7 | 1455.9 |
| 80°    | 1214.7 | 1437.4 | 1660.3 | 1400.7 | 1141.0 | 1149.5 | 1158.2 | 1148.1 | 1137.8 | 1152.8 | 1167.9 |
| 82.5°  | 775.1  | 947.0  | 1119.2 | 981.4  | 843.6  | 922.6  | 1001.6 | 962.8  | 923.7  | 938.1  | 952.7  |
| 85°    | 442.4  | 610.5  | 778.9  | 726.0  | 672.8  | 718.9  | 765.2  | 705.0  | 644.8  | 671.2  | 697.7  |
| 87.5°  | 116.6  | 337.7  | 559.0  | 507.5  | 456.0  | 396.3  | 336.5  | 256.8  | 177.1  | 258.7  | 340.3  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 | 1792.0 |
| 2.5°   | 2023.2 | 2019.2 | 2004.8 | 1990.2 | 1968.6 | 1950.7 | 1919.7 |
| 5°     | 2168.5 | 2143.1 | 2099.4 | 2055.4 | 2006.5 | 1950.3 | 1887.9 |
| 7.5°   | 2220.0 | 2160.5 | 2076.5 | 1992.4 | 1916.6 | 1827.7 | 1745.0 |
| 10°    | 2198.1 | 2109.0 | 1999.9 | 1890.5 | 1798.6 | 1696.3 | 1604.3 |
| 12.5°  | 2156.3 | 2061.5 | 1941.3 | 1820.9 | 1716.3 | 1606.4 | 1503.4 |
| 15°    | 2098.7 | 2022.9 | 1910.3 | 1797.6 | 1692.3 | 1585.5 | 1463.5 |
| 17.5°  | 2035.6 | 1999.6 | 1918.3 | 1836.7 | 1745.4 | 1642.0 | 1498.7 |
| 20°    | 1984.8 | 1998.0 | 1965.5 | 1933.1 | 1860.0 | 1769.7 | 1608.8 |
| 22.5°  | 1950.5 | 2013.8 | 2038.7 | 2063.8 | 2019.9 | 1949.3 | 1763.3 |
| 25°    | 1931.2 | 2036.1 | 2119.6 | 2203.3 | 2183.8 | 2129.5 | 1951.0 |
| 27.5°  | 1939.7 | 2068.3 | 2197.9 | 2327.7 | 2345.8 | 2330.8 | 2148.7 |
| 30°    | 1965.1 | 2095.4 | 2253.2 | 2411.2 | 2483.4 | 2503.6 | 2313.6 |
| 32.5°  | 2007.4 | 2135.1 | 2307.0 | 2479.2 | 2588.3 | 2652.7 | 2464.3 |
| 35°    | 2071.4 | 2190.8 | 2370.0 | 2549.2 | 2690.3 | 2807.9 | 2620.0 |
| 37.5°  | 2181.2 | 2284.0 | 2449.3 | 2614.9 | 2797.8 | 2974.4 | 2791.5 |
| 40°    | 2342.1 | 2414.7 | 2554.4 | 2694.3 | 2924.6 | 3163.0 | 2982.7 |
| 42.5°  | 2545.0 | 2582.4 | 2693.2 | 2803.9 | 3057.0 | 3334.2 | 3169.6 |
| 45°    | 2764.9 | 2774.8 | 2844.4 | 2914.2 | 3161.9 | 3450.9 | 3310.0 |
| 47.5°  | 2976.5 | 2942.7 | 2970.4 | 2998.2 | 3242.3 | 3534.1 | 3416.5 |
| 50°    | 3194.3 | 3100.0 | 3085.4 | 3070.8 | 3322.7 | 3632.2 | 3552.0 |
| 52.5°  | 3415.8 | 3260.4 | 3202.8 | 3144.9 | 3418.7 | 3762.2 | 3720.6 |
| 55°    | 3632.7 | 3434.9 | 3357.3 | 3279.7 | 3565.4 | 3921.0 | 3968.3 |
| 57.5°  | 3858.2 | 3634.1 | 3562.1 | 3490.2 | 3781.1 | 4122.1 | 4190.5 |
| 60°    | 4100.9 | 3878.9 | 3821.3 | 3763.4 | 4049.1 | 4339.3 | 4289.5 |
| 62.5°  | 4331.1 | 4154.7 | 4124.4 | 4093.8 | 4320.3 | 4506.3 | 4250.9 |
| 65°    | 4484.9 | 4384.3 | 4412.5 | 4440.9 | 4525.4 | 4547.9 | 4138.0 |
| 67.5°  | 4382.1 | 4402.6 | 4521.8 | 4641.3 | 4583.2 | 4424.2 | 3915.6 |
| 70°    | 3811.2 | 3933.9 | 4216.4 | 4499.0 | 4370.2 | 4092.9 | 3516.3 |
| 72.5°  | 2960.5 | 3098.6 | 3517.9 | 3937.4 | 3818.7 | 3479.1 | 2888.1 |
| 75°    | 2199.5 | 2355.5 | 2818.3 | 3281.1 | 3116.2 | 2602.4 | 2067.8 |
| 77.5°  | 1560.4 | 1664.8 | 2121.7 | 2578.9 | 2310.1 | 1732.3 | 1391.5 |
| 80°    | 1135.9 | 1103.9 | 1358.6 | 1613.3 | 1568.6 | 1145.7 | 893.6  |
| 82.5°  | 874.6  | 796.5  | 916.5  | 1036.4 | 1029.8 | 795.1  | 655.7  |
| 85°    | 666.5  | 635.2  | 741.3  | 847.3  | 756.5  | 538.5  | 416.7  |
| 87.5°  | 388.5  | 436.9  | 561.8  | 686.9  | 515.5  | 163.4  | 80.9   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P362303

CATALOG NUMBER: NVN-SA1D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

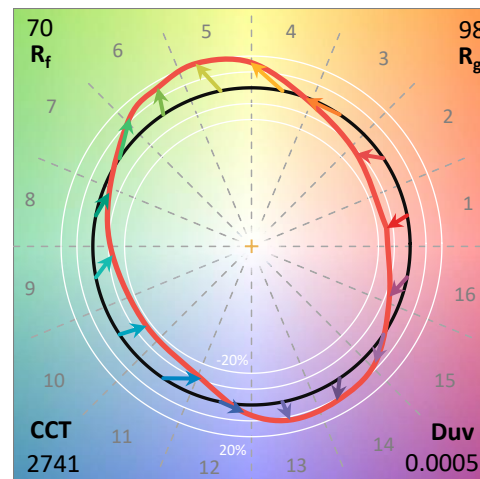
### Test Information

Test Method: LM-79-2008  
 Report Number: SP1-1908-441-1-R4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/28/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: MCGRAW-EDISON  
 Catalog Number: **SA1C-727-U-5WQ**  
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

\*\*\*THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.\*\*\*TESTED IN SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 2741   | CRI (Ra): | 71.5 |      |       |
| CIE u':                   | 0.2605 | R1:       | 69.2 | R9:  | -16.1 |
| CIE v':                   | 0.5272 | R2:       | 79.4 | R10: | 51.4  |
| Duv:                      | 0.0005 | R3:       | 87.8 | R11: | 63.1  |
| CIE x:                    | 0.4573 | R4:       | 69.4 | R12: | 42.0  |
| CIE y:                    | 0.4113 | R5:       | 66.4 | R13: | 70.2  |
| CIE z:                    | 0.1313 | R6:       | 69.8 | R14: | 92.4  |
| Peak Wavelength (nm):     | 602    | R7:       | 79.8 |      |       |
| Dominant Wavelength (nm): | 583    | R8:       | 50.1 |      |       |
| Purity:                   | 61.2   |           |      |      |       |
| Rf:                       | 69.9   |           |      |      |       |
| Rg:                       | 98.3   |           |      |      |       |



### Test Conditions

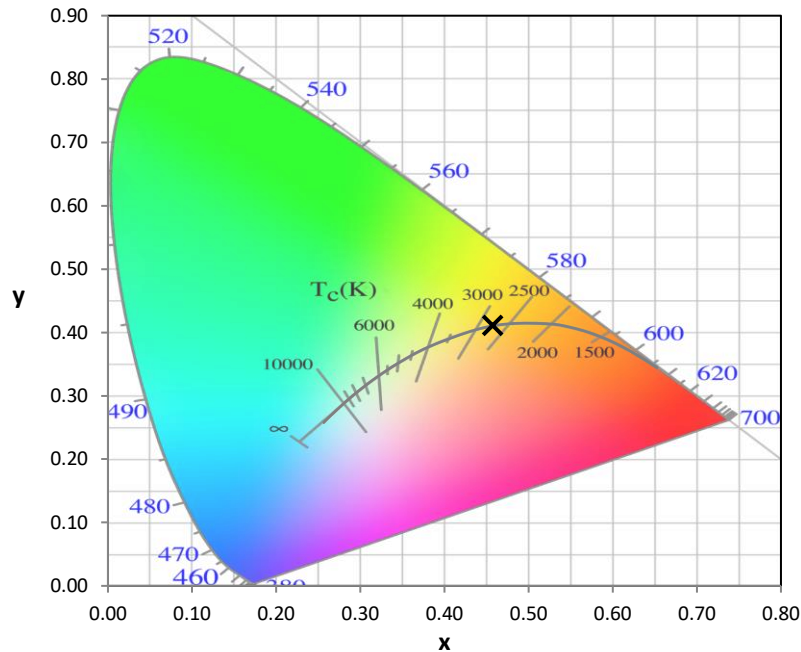
Stabilization Time: 56M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.3./42%  
 Sphere Temperature (°C): 25.7

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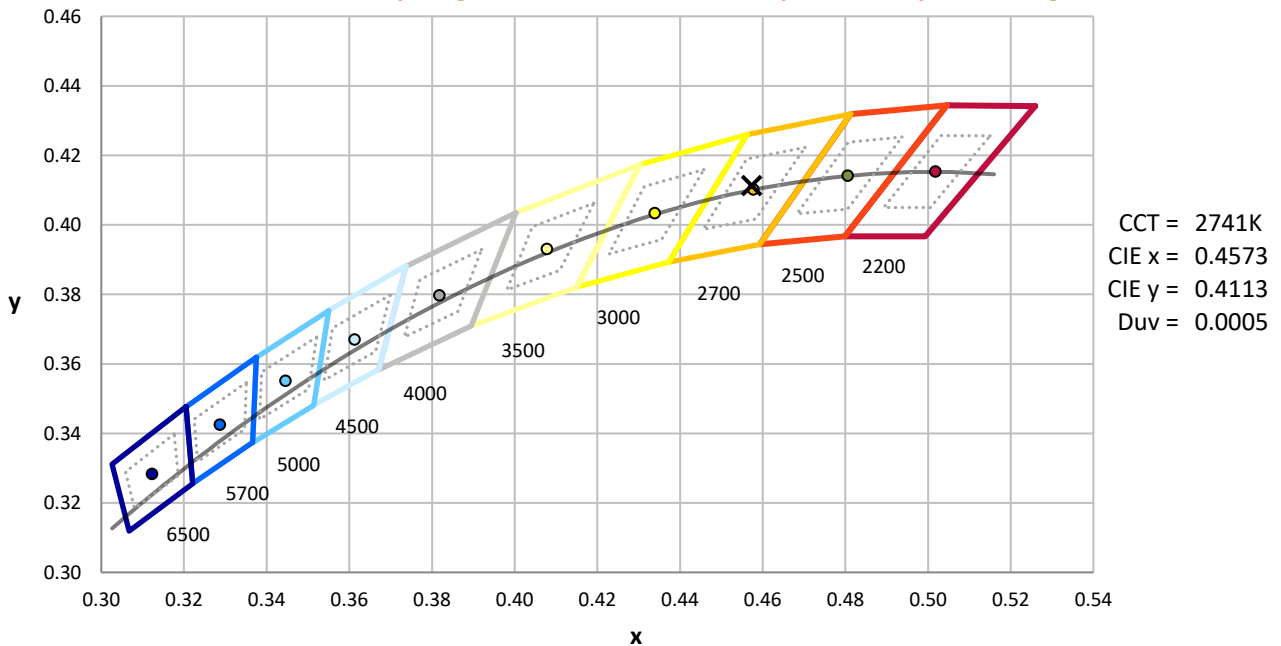
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/28/2019        | 12/28/2019           |
| Power Meter                    | IN0071                | 12/5/2018        | 12/5/2019            |
| AC Power Source                | IN0063                | 12/5/2018        | 12/5/2019            |
| DC Power Source                | IN0208                | 12/5/2018        | 12/5/2019            |
| Sphere Thermometer             | IN0085                | 12/5/2018        | 12/5/2019            |
| Room Thermometer               | IN0046                | 12/5/2018        | 12/5/2019            |

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CIE 1931 Chromaticity Diagram



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

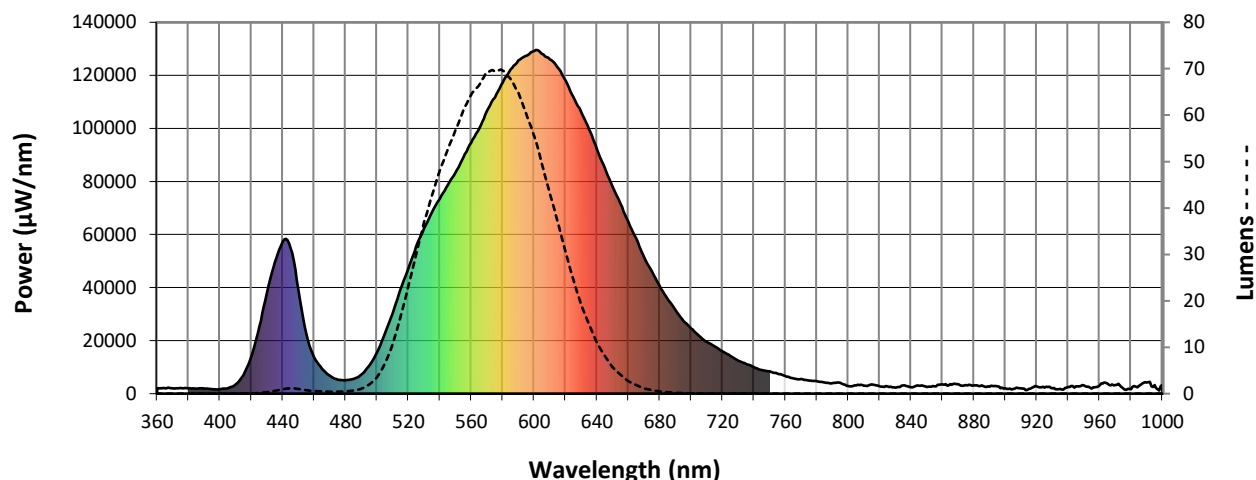


Point lies inside the ANSI 2700K 4-step quadrangle



REPORT NUMBER: SP1-1908-441-1-R4

**Photopic Flux vs. Wavelength**

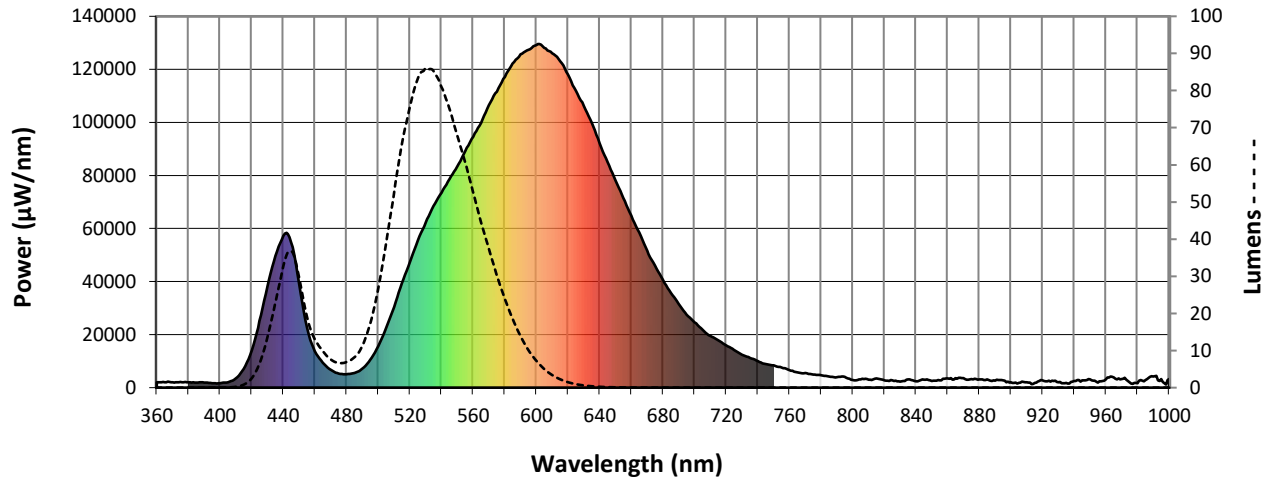


**Photopic Lumens: 6211.7**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2044             | 0.0              | 490       | 7179             | 1.0              | 620       | 118034           | 30.7             | 750       | 8362             | 0.0              | 880       | 3128             | 0.0              |
| 365       | 2016             | 0.0              | 495       | 10476            | 1.9              | 625       | 111884           | 24.7             | 755       | 7635             | 0.0              | 885       | 3110             | 0.0              |
| 370       | 2020             | 0.0              | 500       | 15549            | 3.4              | 630       | 106119           | 19.2             | 760       | 6582             | 0.0              | 890       | 2632             | 0.0              |
| 375       | 2137             | 0.0              | 505       | 22477            | 6.3              | 635       | 99706            | 15.0             | 765       | 5777             | 0.0              | 895       | 2709             | 0.0              |
| 380       | 2046             | 0.0              | 510       | 30417            | 10.4             | 640       | 92142            | 11.0             | 770       | 5474             | 0.0              | 900       | 2016             | 0.0              |
| 385       | 1925             | 0.0              | 515       | 39274            | 16.3             | 645       | 84987            | 8.2              | 775       | 4977             | 0.0              | 905       | 1748             | 0.0              |
| 390       | 1893             | 0.0              | 520       | 47282            | 22.9             | 650       | 78016            | 5.7              | 780       | 4723             | 0.0              | 910       | 2046             | 0.0              |
| 395       | 1695             | 0.0              | 525       | 55413            | 29.7             | 655       | 71541            | 4.1              | 785       | 4219             | 0.0              | 915       | 1844             | 0.0              |
| 400       | 1633             | 0.0              | 530       | 62377            | 36.7             | 660       | 64863            | 2.7              | 790       | 3969             | 0.0              | 920       | 2734             | 0.0              |
| 405       | 2065             | 0.0              | 535       | 68520            | 42.5             | 665       | 58485            | 1.9              | 795       | 4122             | 0.0              | 925       | 2307             | 0.0              |
| 410       | 3449             | 0.0              | 540       | 73435            | 47.8             | 670       | 51641            | 1.1              | 800       | 2864             | 0.0              | 930       | 2039             | 0.0              |
| 415       | 7117             | 0.0              | 545       | 78677            | 52.4             | 675       | 46030            | 0.8              | 805       | 3151             | 0.0              | 935       | 1784             | 0.0              |
| 420       | 13992            | 0.0              | 550       | 83331            | 56.6             | 680       | 40590            | 0.5              | 810       | 3022             | 0.0              | 940       | 2464             | 0.0              |
| 425       | 25176            | 0.1              | 555       | 89120            | 60.9             | 685       | 35691            | 0.3              | 815       | 3471             | 0.0              | 945       | 2794             | 0.0              |
| 430       | 38151            | 0.3              | 560       | 94613            | 64.3             | 690       | 31631            | 0.2              | 820       | 2749             | 0.0              | 950       | 3090             | 0.0              |
| 435       | 49673            | 0.6              | 565       | 99818            | 66.4             | 695       | 27437            | 0.1              | 825       | 2729             | 0.0              | 955       | 1866             | 0.0              |
| 440       | 57273            | 0.9              | 570       | 106526           | 69.3             | 700       | 24589            | 0.1              | 830       | 2282             | 0.0              | 960       | 3110             | 0.0              |
| 445       | 54802            | 1.1              | 575       | 111610           | 69.4             | 705       | 21832            | 0.0              | 835       | 3140             | 0.0              | 965       | 3880             | 0.0              |
| 450       | 39184            | 1.0              | 580       | 117163           | 69.6             | 710       | 19500            | 0.0              | 840       | 2365             | 0.0              | 970       | 3243             | 0.0              |
| 455       | 22506            | 0.8              | 585       | 122201           | 67.9             | 715       | 17870            | 0.0              | 845       | 3024             | 0.0              | 975       | 2014             | 0.0              |
| 460       | 13692            | 0.6              | 590       | 125662           | 65.0             | 720       | 15924            | 0.0              | 850       | 2510             | 0.0              | 980       | 1688             | 0.0              |
| 465       | 9446             | 0.5              | 595       | 127415           | 60.4             | 725       | 14268            | 0.0              | 855       | 2739             | 0.0              | 985       | 2827             | 0.0              |
| 470       | 6698             | 0.4              | 600       | 129155           | 55.7             | 730       | 12438            | 0.0              | 860       | 3515             | 0.0              | 990       | 4172             | 0.0              |
| 475       | 5328             | 0.4              | 605       | 128057           | 49.6             | 735       | 11255            | 0.0              | 865       | 3600             | 0.0              | 995       | 3177             | 0.0              |
| 480       | 5081             | 0.5              | 610       | 126031           | 43.3             | 740       | 9951             | 0.0              | 870       | 3609             | 0.0              | 1000      | 3241             | 0.0              |
| 485       | 5579             | 0.7              | 615       | 123059           | 37.1             | 745       | 8870             | 0.0              | 875       | 3208             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-1908-441-1-R4

Scotopic Flux vs. Wavelength



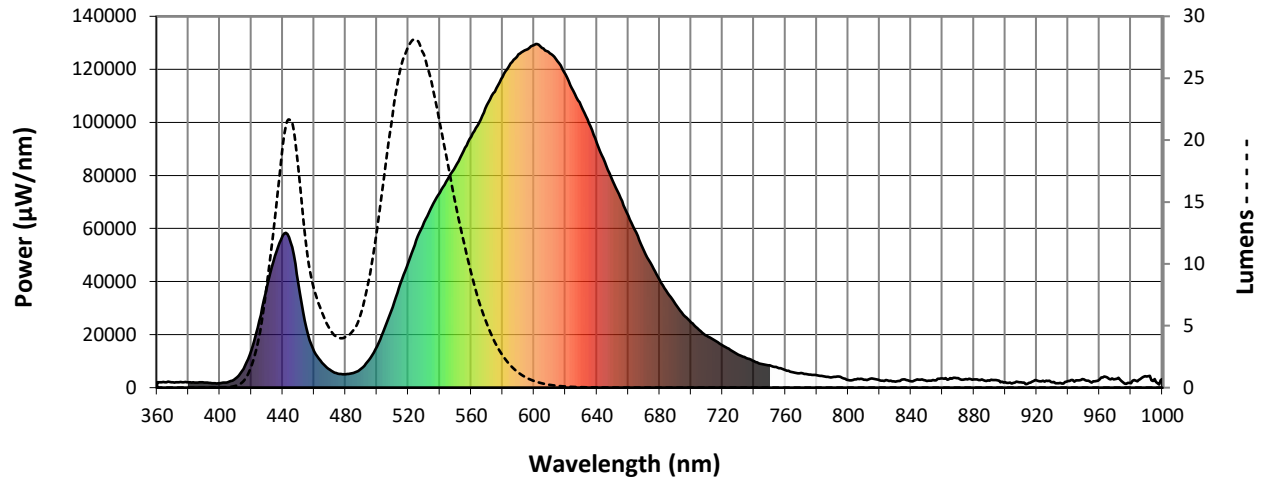
Scotopic Lumens: 6474.3

S/P: 1.04

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2044             | 0.0              | 490       | 7179             | 6.0              | 620       | 118034           | 0.1              | 750       | 8362             | 0.0              | 880       | 3128             | 0.0              |
| 365       | 2016             | 0.0              | 495       | 10476            | 8.6              | 625       | 111884           | 0.1              | 755       | 7635             | 0.0              | 885       | 3110             | 0.0              |
| 370       | 2020             | 0.0              | 500       | 15549            | 12.5             | 630       | 106119           | 0.0              | 760       | 6582             | 0.0              | 890       | 2632             | 0.0              |
| 375       | 2137             | 0.0              | 505       | 22477            | 17.3             | 635       | 99706            | 0.0              | 765       | 5777             | 0.0              | 895       | 2709             | 0.0              |
| 380       | 2046             | 0.0              | 510       | 30417            | 21.8             | 640       | 92142            | 0.0              | 770       | 5474             | 0.0              | 900       | 2016             | 0.0              |
| 385       | 1925             | 0.0              | 515       | 39274            | 25.7             | 645       | 84987            | 0.0              | 775       | 4977             | 0.0              | 905       | 1748             | 0.0              |
| 390       | 1893             | 0.0              | 520       | 47282            | 27.5             | 650       | 78016            | 0.0              | 780       | 4723             | 0.0              | 910       | 2046             | 0.0              |
| 395       | 1695             | 0.0              | 525       | 55413            | 28.1             | 655       | 71541            | 0.0              | 785       | 4219             | 0.0              | 915       | 1844             | 0.0              |
| 400       | 1633             | 0.0              | 530       | 62377            | 27.0             | 660       | 64863            | 0.0              | 790       | 3969             | 0.0              | 920       | 2734             | 0.0              |
| 405       | 2065             | 0.0              | 535       | 68520            | 24.7             | 665       | 58485            | 0.0              | 795       | 4122             | 0.0              | 925       | 2307             | 0.0              |
| 410       | 3449             | 0.1              | 540       | 73435            | 21.5             | 670       | 51641            | 0.0              | 800       | 2864             | 0.0              | 930       | 2039             | 0.0              |
| 415       | 7117             | 0.5              | 545       | 78677            | 18.3             | 675       | 46030            | 0.0              | 805       | 3151             | 0.0              | 935       | 1784             | 0.0              |
| 420       | 13992            | 1.6              | 550       | 83331            | 15.0             | 680       | 40590            | 0.0              | 810       | 3022             | 0.0              | 940       | 2464             | 0.0              |
| 425       | 25176            | 3.9              | 555       | 89120            | 12.0             | 685       | 35691            | 0.0              | 815       | 3471             | 0.0              | 945       | 2794             | 0.0              |
| 430       | 38151            | 8.1              | 560       | 94613            | 9.3              | 690       | 31631            | 0.0              | 820       | 2749             | 0.0              | 950       | 3090             | 0.0              |
| 435       | 49673            | 13.3             | 565       | 99818            | 7.0              | 695       | 27437            | 0.0              | 825       | 2729             | 0.0              | 955       | 1866             | 0.0              |
| 440       | 57273            | 19.1             | 570       | 106526           | 5.2              | 700       | 24589            | 0.0              | 830       | 2282             | 0.0              | 960       | 3110             | 0.0              |
| 445       | 54802            | 21.6             | 575       | 111610           | 3.7              | 705       | 21832            | 0.0              | 835       | 3140             | 0.0              | 965       | 3880             | 0.0              |
| 450       | 39184            | 18.1             | 580       | 117163           | 2.6              | 710       | 19500            | 0.0              | 840       | 2365             | 0.0              | 970       | 3243             | 0.0              |
| 455       | 22506            | 11.8             | 585       | 122201           | 1.8              | 715       | 17870            | 0.0              | 845       | 3024             | 0.0              | 975       | 2014             | 0.0              |
| 460       | 13692            | 8.1              | 590       | 125662           | 1.2              | 720       | 15924            | 0.0              | 850       | 2510             | 0.0              | 980       | 1688             | 0.0              |
| 465       | 9446             | 6.2              | 595       | 127415           | 0.8              | 725       | 14268            | 0.0              | 855       | 2739             | 0.0              | 985       | 2827             | 0.0              |
| 470       | 6698             | 4.8              | 600       | 129155           | 0.5              | 730       | 12438            | 0.0              | 860       | 3515             | 0.0              | 990       | 4172             | 0.0              |
| 475       | 5328             | 4.1              | 605       | 128057           | 0.4              | 735       | 11255            | 0.0              | 865       | 3600             | 0.0              | 995       | 3177             | 0.0              |
| 480       | 5081             | 4.1              | 610       | 126031           | 0.2              | 740       | 9951             | 0.0              | 870       | 3609             | 0.0              | 1000      | 3241             | 0.0              |
| 485       | 5579             | 4.6              | 615       | 123059           | 0.1              | 745       | 8870             | 0.0              | 875       | 3208             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-1908-441-1-R4

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 2145.7 M/P: 0.35**

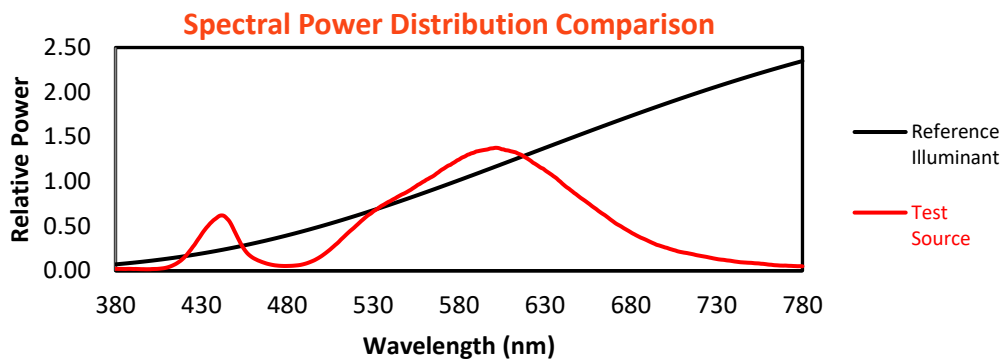
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2044             | 0.0              | 490       | 7179             | 11.1             | 620       | 118034           | 1.5              | 750       | 8362             | 0.0              | 880       | 3128             | 0.0              |
| 365       | 2016             | 0.0              | 495       | 10476            | 16.9             | 625       | 111884           | 0.9              | 755       | 7635             | 0.0              | 885       | 3110             | 0.0              |
| 370       | 2020             | 0.0              | 500       | 15549            | 26.0             | 630       | 106119           | 0.6              | 760       | 6582             | 0.0              | 890       | 2632             | 0.0              |
| 375       | 2137             | 0.0              | 505       | 22477            | 38.2             | 635       | 99706            | 0.4              | 765       | 5777             | 0.0              | 895       | 2709             | 0.0              |
| 380       | 2046             | 0.0              | 510       | 30417            | 51.6             | 640       | 92142            | 0.2              | 770       | 5474             | 0.0              | 900       | 2016             | 0.0              |
| 385       | 1925             | 0.0              | 515       | 39274            | 65.1             | 645       | 84987            | 0.1              | 775       | 4977             | 0.0              | 905       | 1748             | 0.0              |
| 390       | 1893             | 0.0              | 520       | 47282            | 75.2             | 650       | 78016            | 0.1              | 780       | 4723             | 0.0              | 910       | 2046             | 0.0              |
| 395       | 1695             | 0.0              | 525       | 55413            | 82.9             | 655       | 71541            | 0.1              | 785       | 4219             | 0.0              | 915       | 1844             | 0.0              |
| 400       | 1633             | 0.0              | 530       | 62377            | 86.0             | 660       | 64863            | 0.0              | 790       | 3969             | 0.0              | 920       | 2734             | 0.0              |
| 405       | 2065             | 0.1              | 535       | 68520            | 85.4             | 665       | 58485            | 0.0              | 795       | 4122             | 0.0              | 925       | 2307             | 0.0              |
| 410       | 3449             | 0.2              | 540       | 73435            | 81.1             | 670       | 51641            | 0.0              | 800       | 2864             | 0.0              | 930       | 2039             | 0.0              |
| 415       | 7117             | 0.7              | 545       | 78677            | 75.4             | 675       | 46030            | 0.0              | 805       | 3151             | 0.0              | 935       | 1784             | 0.0              |
| 420       | 13992            | 2.3              | 550       | 83331            | 68.1             | 680       | 40590            | 0.0              | 810       | 3022             | 0.0              | 940       | 2464             | 0.0              |
| 425       | 25176            | 6.2              | 555       | 89120            | 60.9             | 685       | 35691            | 0.0              | 815       | 3471             | 0.0              | 945       | 2794             | 0.0              |
| 430       | 38151            | 13.0             | 560       | 94613            | 52.9             | 690       | 31631            | 0.0              | 820       | 2749             | 0.0              | 950       | 3090             | 0.0              |
| 435       | 49673            | 22.2             | 565       | 99818            | 44.8             | 695       | 27437            | 0.0              | 825       | 2729             | 0.0              | 955       | 1866             | 0.0              |
| 440       | 57273            | 32.0             | 570       | 106526           | 37.6             | 700       | 24589            | 0.0              | 830       | 2282             | 0.0              | 960       | 3110             | 0.0              |
| 445       | 54802            | 36.7             | 575       | 111610           | 30.4             | 705       | 21832            | 0.0              | 835       | 3140             | 0.0              | 965       | 3880             | 0.0              |
| 450       | 39184            | 30.4             | 580       | 117163           | 24.1             | 710       | 19500            | 0.0              | 840       | 2365             | 0.0              | 970       | 3243             | 0.0              |
| 455       | 22506            | 19.7             | 585       | 122201           | 18.7             | 715       | 17870            | 0.0              | 845       | 3024             | 0.0              | 975       | 2014             | 0.0              |
| 460       | 13692            | 13.2             | 590       | 125662           | 14.0             | 720       | 15924            | 0.0              | 850       | 2510             | 0.0              | 980       | 1688             | 0.0              |
| 465       | 9446             | 10.0             | 595       | 127415           | 10.2             | 725       | 14268            | 0.0              | 855       | 2739             | 0.0              | 985       | 2827             | 0.0              |
| 470       | 6698             | 7.7              | 600       | 129155           | 7.3              | 730       | 12438            | 0.0              | 860       | 3515             | 0.0              | 990       | 4172             | 0.0              |
| 475       | 5328             | 6.7              | 605       | 128057           | 5.0              | 735       | 11255            | 0.0              | 865       | 3600             | 0.0              | 995       | 3177             | 0.0              |
| 480       | 5081             | 6.9              | 610       | 126031           | 3.4              | 740       | 9951             | 0.0              | 870       | 3609             | 0.0              | 1000      | 3241             | 0.0              |
| 485       | 5579             | 8.1              | 615       | 123059           | 2.3              | 745       | 8870             | 0.0              | 875       | 3208             | 0.0              |           |                  |                  |

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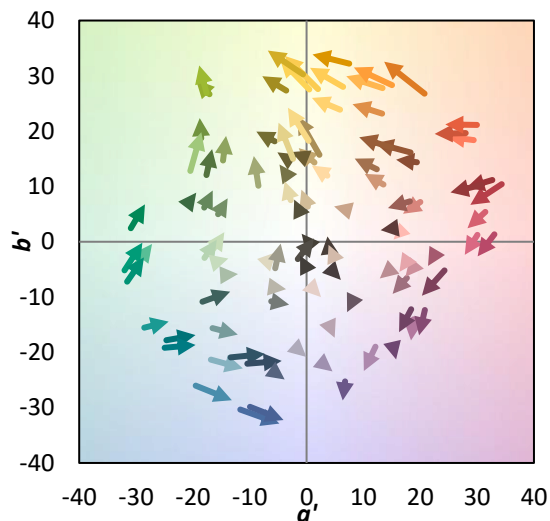
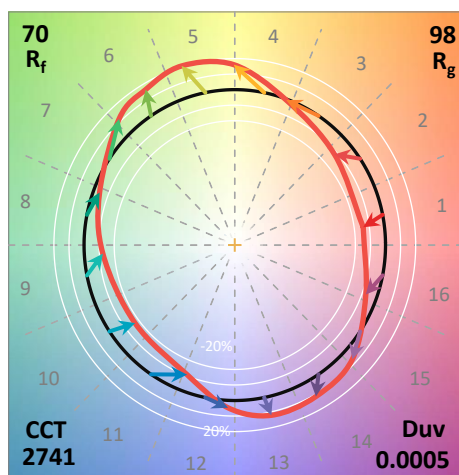
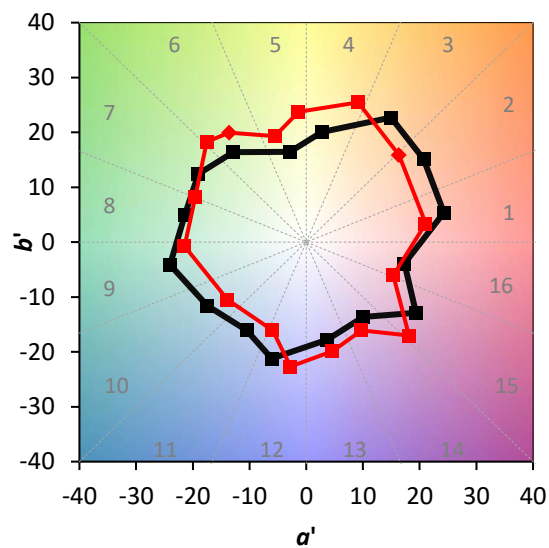
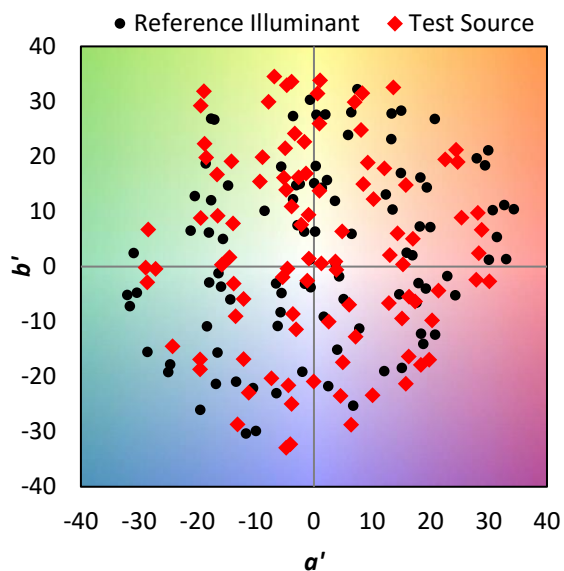
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**Summary**

$R_f = 69.9$   
 $R_g = 98.3$   
 $CIE R_a = 71.5$   
 $R_g = -16.1$



**Color Vector Graphics**

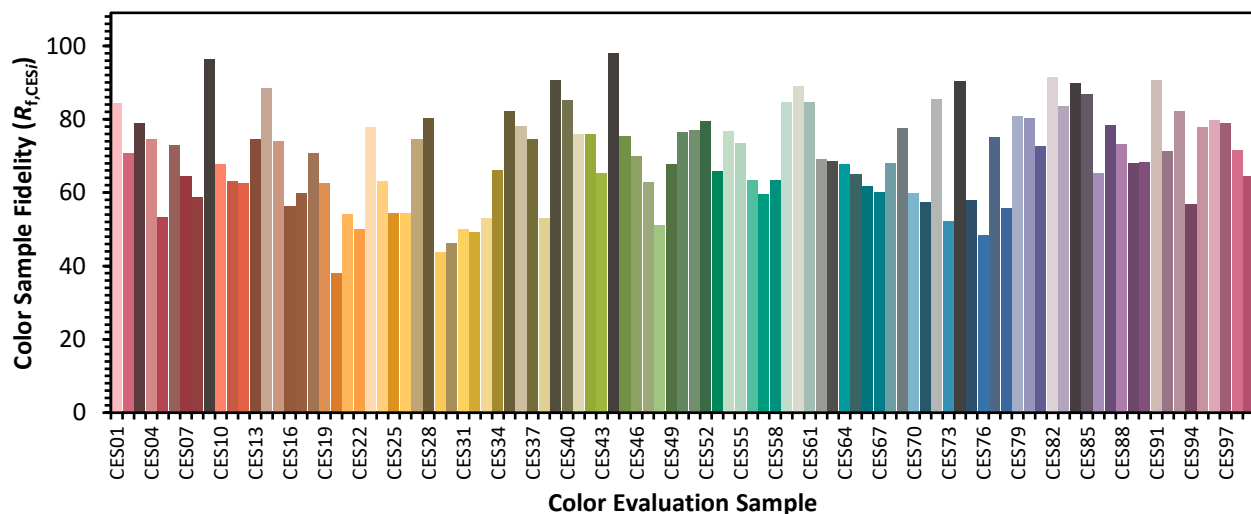


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

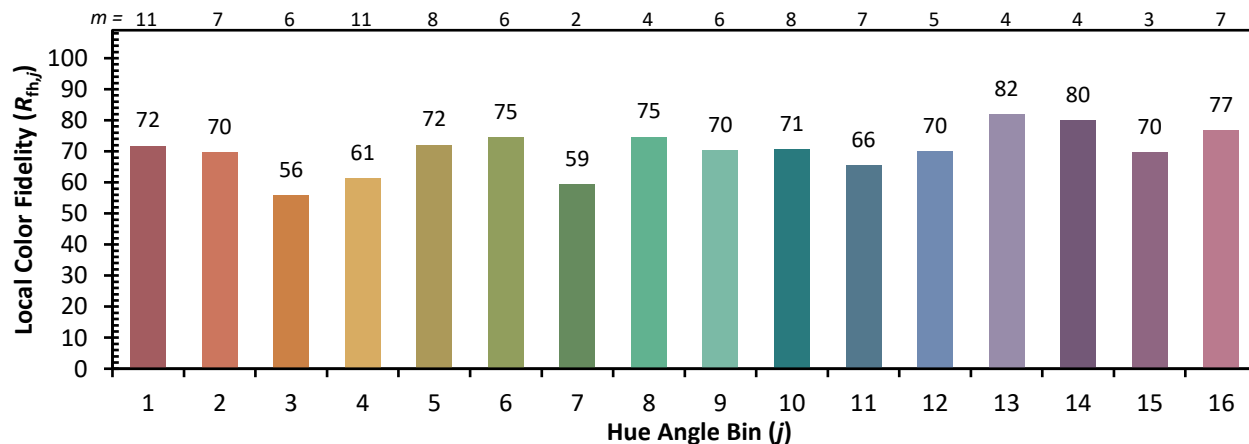
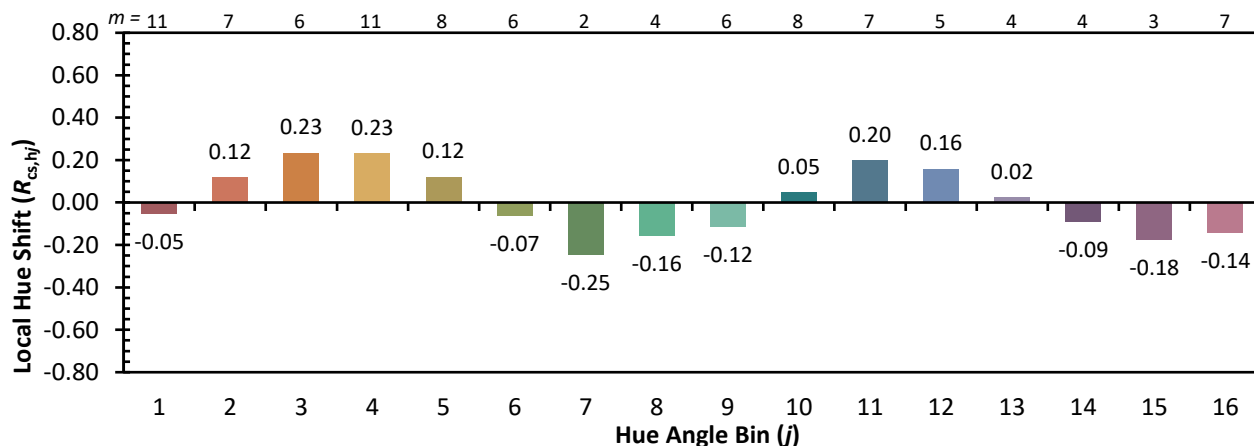
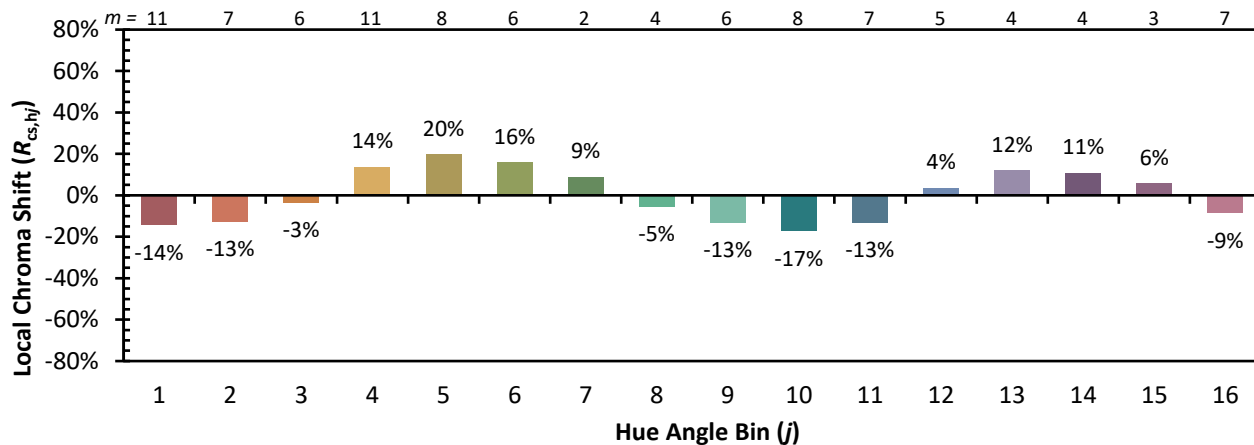
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 |            |



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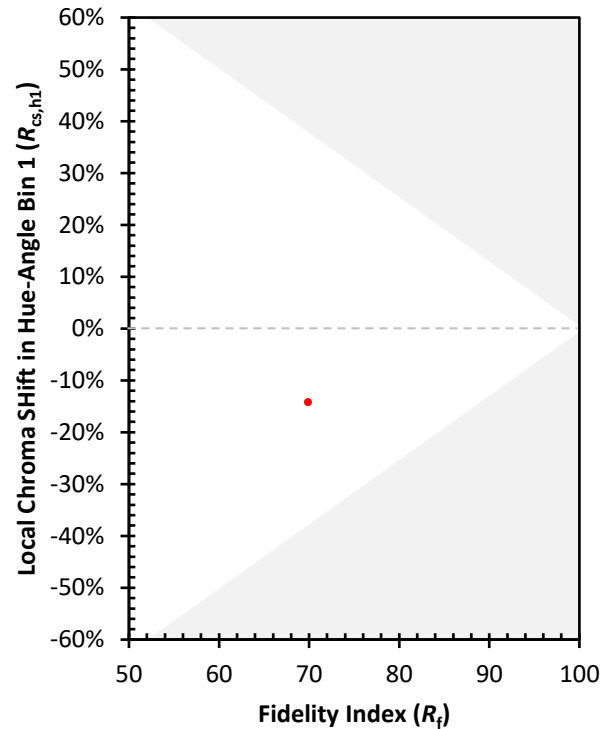
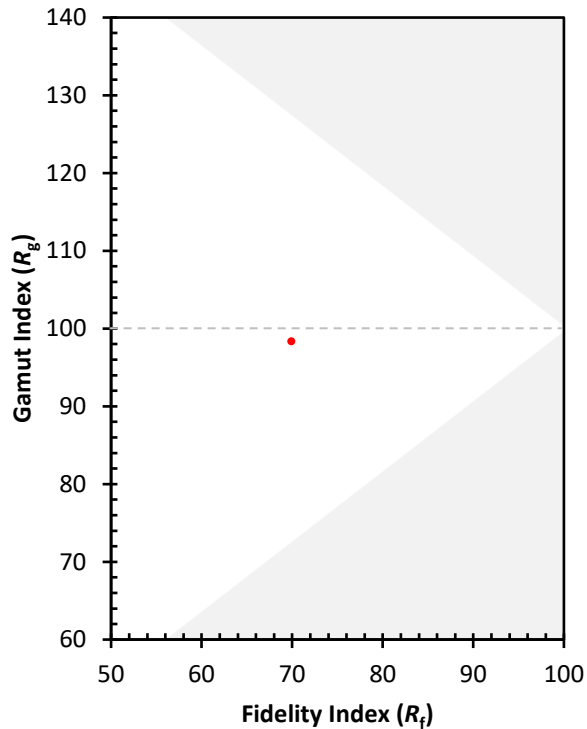
Color Rendition by Hue-Angle Bin



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**Measure Comparisons**



(END OF REPORT)