

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



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: P362289

Luminaire Tested: NVN-SA5A-727-U-SLR

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P362289  
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-SA5A-727-U-SLR  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17388 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

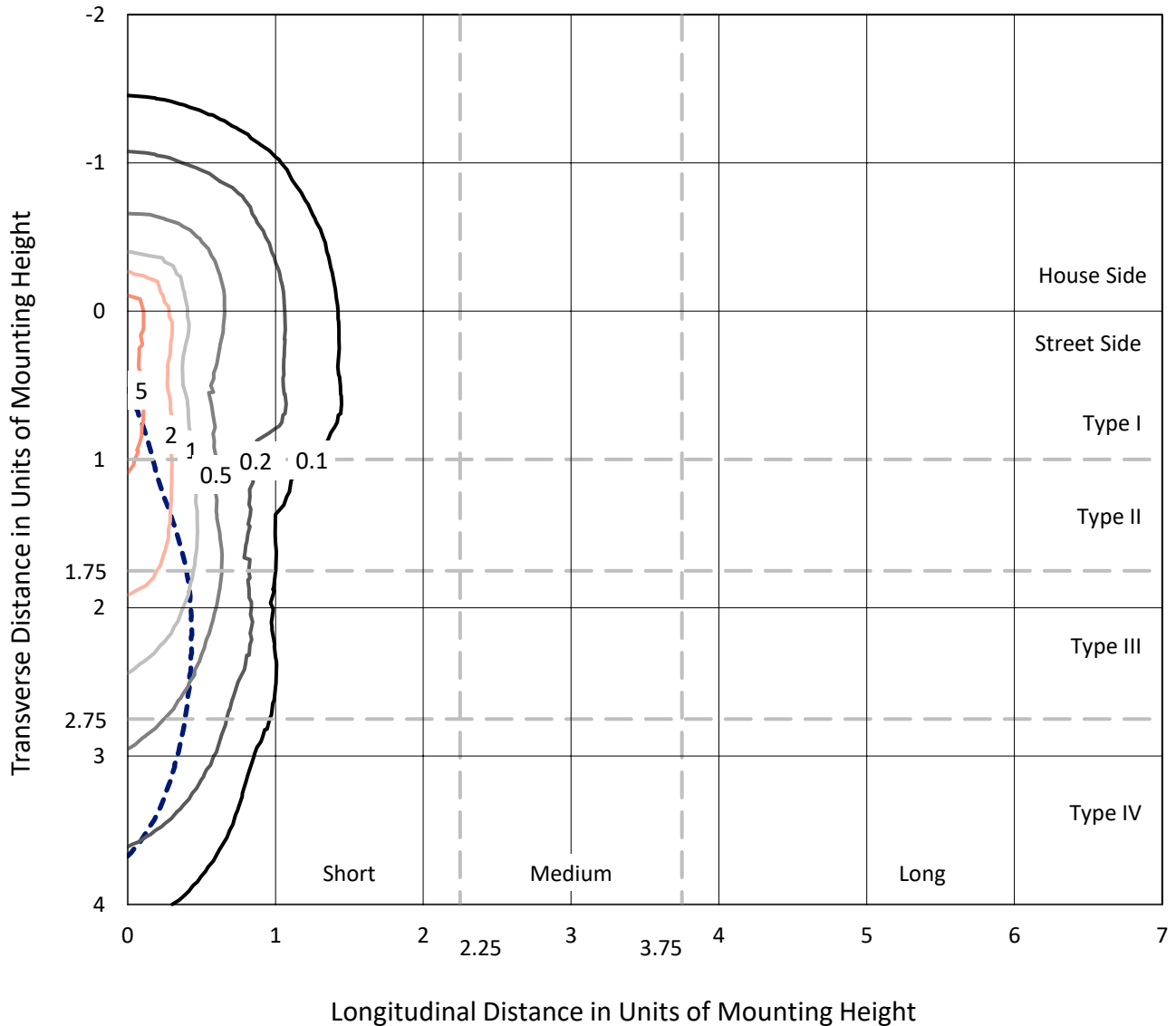
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

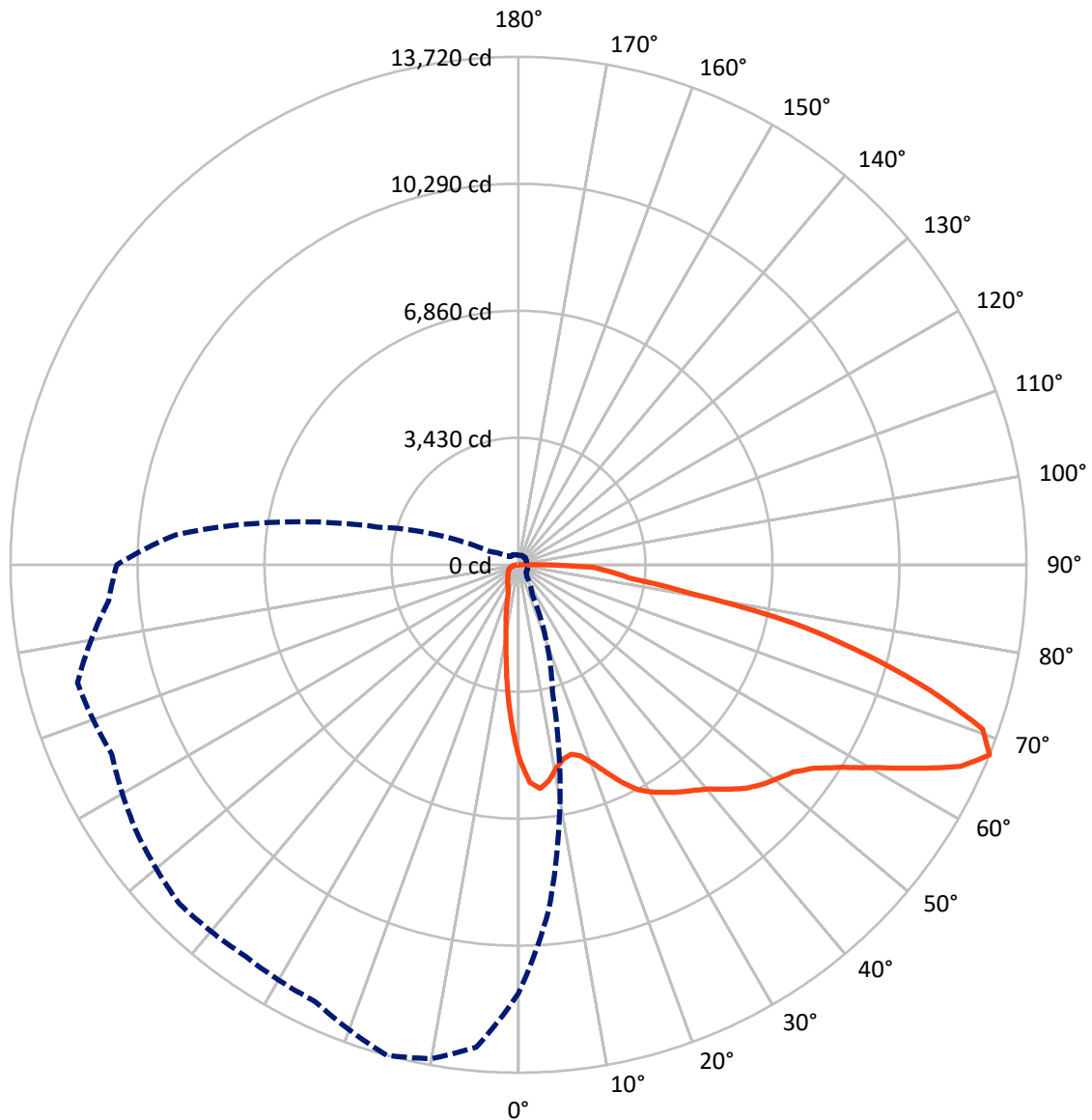
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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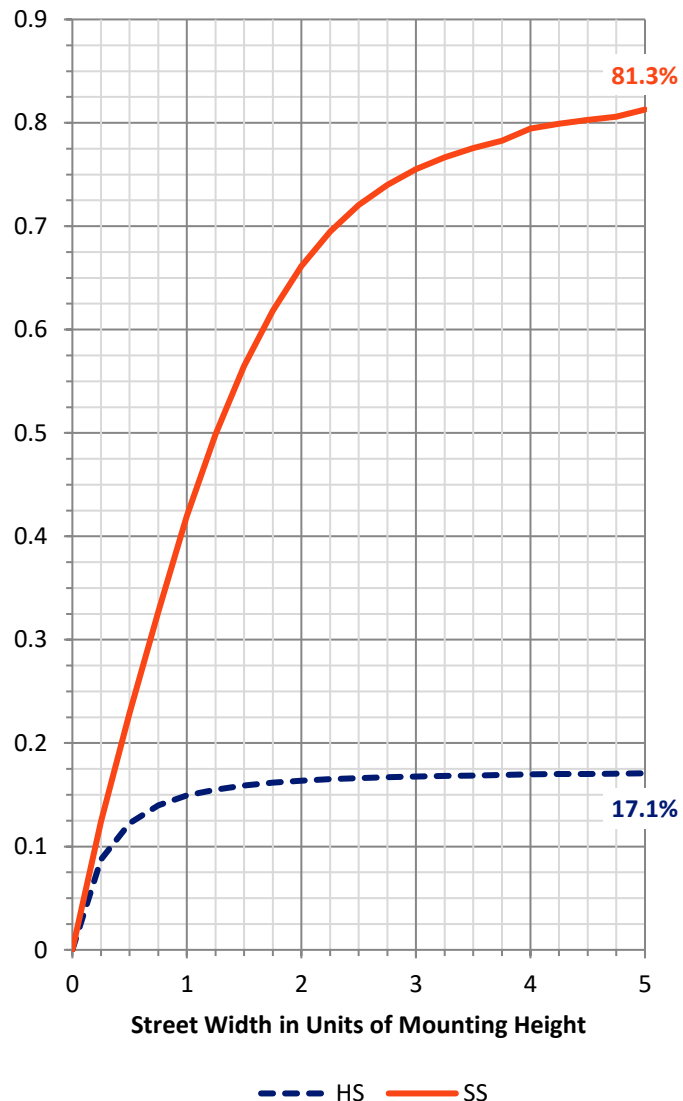
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3006.0   | 0.0    | 3006.0  |
|                    | % Fixture | 17.3     | 0.0    | 17.3    |
| <b>Street Side</b> | Lumens    | 14382.0  | 0.0    | 14382.0 |
|                    | % Fixture | 82.7     | 0.0    | 82.7    |
| <b>Total</b>       | Lumens    | 17388.0  | 0.0    | 17388.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 408.8   | 2.4       |
| 10°-20°   | 849.3   | 4.9       |
| 20°-30°   | 1207.9  | 6.9       |
| 30°-40°   | 1740.6  | 10.0      |
| 40°-50°   | 2453.0  | 14.1      |
| 50°-60°   | 3410.1  | 19.6      |
| 60°-70°   | 4123.8  | 23.7      |
| 70°-80°   | 2534.8  | 14.6      |
| 80°-90°   | 659.6   | 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°    | 17388.0 | 100.0     |
| 0°-180°   | 17388.0 | 100.0     |

**Coefficient of Utilization**

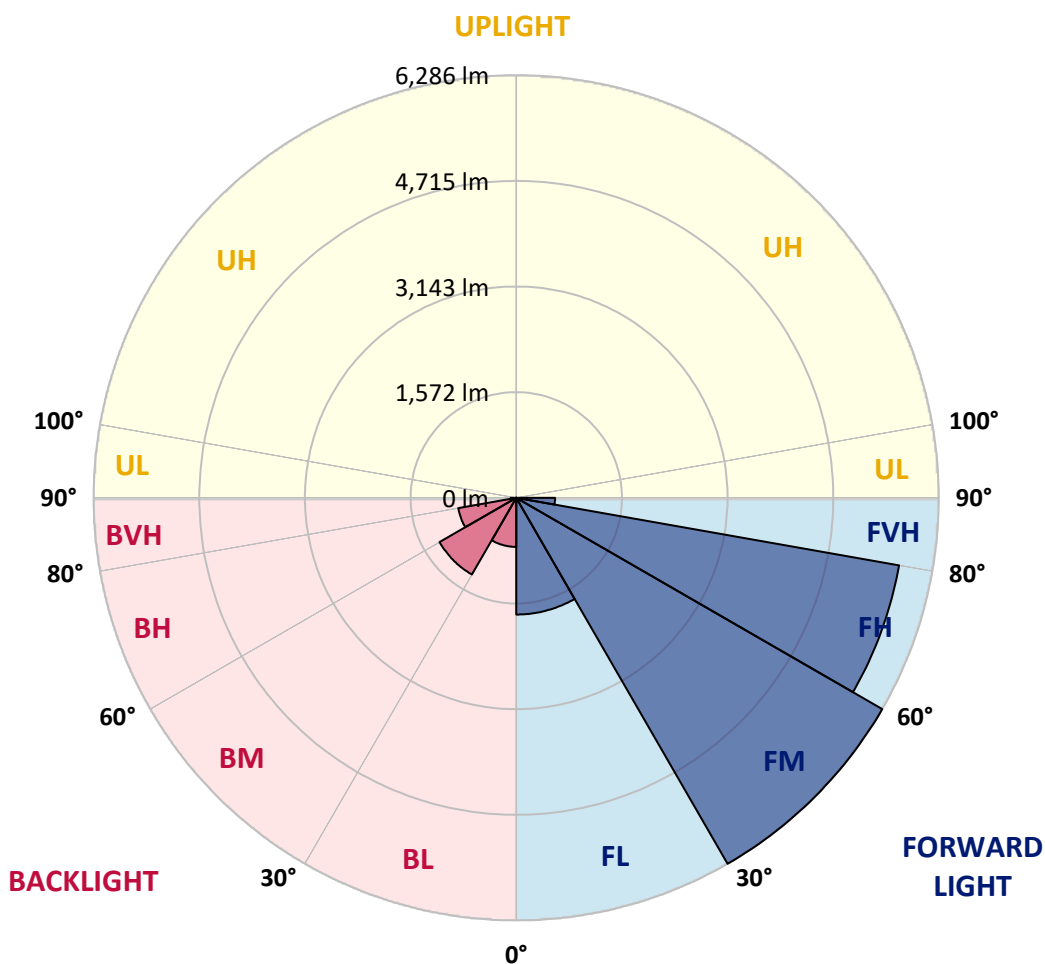


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1736.2 | 10.0      |                         |      |         |
| FM   | (30°-60°)   | 6286.2 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 5782.7 | 33.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 576.9  | 3.3       |                         |      | G4/750  |
| BL   | (0°-30°)    | 729.8  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1317.5 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 876.0  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 82.7   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5297.4  | 5297.4  | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 |
| 2.5°   | 5674.9  | 5624.8  | 5549.0 | 5473.3 | 5416.9 | 5359.9 | 5295.3 | 5230.6 | 5156.9 | 5082.6 | 5038.8 |
| 5°     | 5581.0  | 5442.0  | 5261.2 | 5080.5 | 4960.9 | 4841.3 | 4705.8 | 4570.2 | 4436.0 | 4301.9 | 4229.6 |
| 7.5°   | 5158.3  | 4949.8  | 4714.8 | 4479.8 | 4306.0 | 4131.5 | 3943.8 | 3755.4 | 3588.6 | 3421.0 | 3317.5 |
| 10°    | 4742.6  | 4492.3  | 4222.6 | 3952.2 | 3729.7 | 3507.3 | 3318.9 | 3129.8 | 3003.9 | 2878.1 | 2782.9 |
| 12.5°  | 4444.4  | 4167.0  | 3870.1 | 3572.6 | 3350.1 | 3127.7 | 3008.1 | 2888.5 | 2784.3 | 2680.0 | 2570.1 |
| 15°    | 4326.2  | 4012.7  | 3708.9 | 3404.4 | 3202.1 | 2999.8 | 2867.0 | 2733.5 | 2593.8 | 2453.3 | 2318.5 |
| 17.5°  | 4430.5  | 4063.4  | 3733.2 | 3403.0 | 3138.1 | 2873.2 | 2687.6 | 2501.3 | 2317.1 | 2132.9 | 1976.4 |
| 20°    | 4755.8  | 4287.3  | 3855.5 | 3423.1 | 3070.7 | 2718.2 | 2469.3 | 2219.8 | 1983.4 | 1747.0 | 1569.7 |
| 22.5°  | 5212.6  | 4592.4  | 4028.6 | 3464.8 | 3009.5 | 2553.4 | 2241.3 | 1928.5 | 1649.0 | 1369.5 | 1195.7 |
| 25°    | 5767.3  | 4997.1  | 4278.2 | 3558.7 | 2984.5 | 2409.5 | 2025.8 | 1642.0 | 1347.3 | 1051.8 | 928.1  |
| 27.5°  | 6352.0  | 5479.5  | 4588.3 | 3696.3 | 2988.6 | 2280.9 | 1844.3 | 1407.1 | 1141.5 | 875.9  | 791.1  |
| 30°    | 6839.3  | 6030.8  | 4949.8 | 3868.1 | 3004.6 | 2141.2 | 1673.3 | 1205.5 | 986.5  | 767.5  | 712.6  |
| 32.5°  | 7284.9  | 6415.2  | 5222.3 | 4028.6 | 3022.7 | 2016.1 | 1541.2 | 1065.7 | 887.1  | 707.7  | 662.5  |
| 35°    | 7745.2  | 6756.6  | 5412.8 | 4068.3 | 2991.4 | 1913.9 | 1450.9 | 987.9  | 823.1  | 657.7  | 619.4  |
| 37.5°  | 8251.9  | 7125.7  | 5596.3 | 4066.2 | 2938.6 | 1811.0 | 1380.7 | 949.6  | 781.4  | 612.5  | 584.7  |
| 40°    | 8817.1  | 7533.8  | 5795.1 | 4056.5 | 2890.6 | 1724.1 | 1328.5 | 932.3  | 758.5  | 584.0  | 560.3  |
| 42.5°  | 9369.8  | 7923.1  | 5980.1 | 4037.0 | 2851.7 | 1665.7 | 1277.1 | 888.5  | 737.6  | 586.0  | 552.7  |
| 45°    | 9784.8  | 8263.1  | 6140.6 | 4017.5 | 2822.5 | 1627.4 | 1236.7 | 846.1  | 718.1  | 590.2  | 547.8  |
| 47.5°  | 10099.8 | 8604.4  | 6318.6 | 4032.1 | 2819.7 | 1607.3 | 1208.2 | 809.2  | 681.3  | 552.7  | 535.3  |
| 50°    | 10500.2 | 9014.6  | 6577.9 | 4141.3 | 2857.9 | 1574.6 | 1174.9 | 774.4  | 645.8  | 517.2  | 540.9  |
| 52.5°  | 10998.7 | 9599.9  | 6979.7 | 4358.9 | 2937.9 | 1516.9 | 1122.0 | 727.2  | 602.7  | 477.6  | 514.4  |
| 55°    | 11730.7 | 10350.0 | 7493.5 | 4636.2 | 3034.5 | 1432.1 | 1042.1 | 651.4  | 545.7  | 439.4  | 472.0  |
| 57.5°  | 12387.7 | 11107.8 | 7986.4 | 4864.3 | 3095.0 | 1325.0 | 941.3  | 557.5  | 481.8  | 406.0  | 424.8  |
| 60°    | 12680.3 | 11498.5 | 8217.2 | 4935.2 | 3058.9 | 1182.5 | 828.0  | 472.7  | 425.5  | 378.2  | 374.7  |
| 62.5°  | 12566.3 | 11250.3 | 7989.9 | 4729.4 | 2882.3 | 1035.1 | 727.9  | 420.6  | 385.1  | 349.0  | 341.3  |
| 65°    | 12232.6 | 10470.3 | 7353.1 | 4235.8 | 2584.0 | 932.3  | 664.6  | 397.0  | 357.3  | 317.7  | 309.4  |
| 67.5°  | 11575.0 | 9360.1  | 6450.7 | 3541.3 | 2205.2 | 869.0  | 628.5  | 387.9  | 339.9  | 291.3  | 281.6  |
| 70°    | 10394.5 | 8023.9  | 5411.4 | 2798.2 | 1814.5 | 830.1  | 604.8  | 379.6  | 321.2  | 262.1  | 253.1  |
| 72.5°  | 8537.7  | 6433.3  | 4321.3 | 2208.6 | 1516.9 | 825.2  | 602.0  | 378.9  | 305.9  | 232.9  | 224.5  |
| 75°    | 6112.8  | 4886.5  | 3298.7 | 1710.2 | 1242.3 | 774.4  | 571.4  | 368.5  | 285.0  | 200.9  | 193.3  |
| 77.5°  | 4113.5  | 3382.1  | 2292.7 | 1202.7 | 921.8  | 641.0  | 480.4  | 319.8  | 244.0  | 168.2  | 160.6  |
| 80°    | 2641.7  | 2340.7  | 1536.4 | 732.0  | 597.9  | 463.7  | 343.4  | 223.2  | 178.0  | 132.1  | 125.8  |
| 82.5°  | 1938.2  | 1742.2  | 1067.8 | 393.5  | 332.3  | 270.4  | 209.9  | 149.5  | 121.7  | 93.9   | 91.1   |
| 85°    | 1231.9  | 1358.4  | 786.3  | 214.1  | 175.2  | 136.3  | 112.6  | 89.0   | 70.2   | 51.4   | 51.4   |
| 87.5°  | 239.1   | 330.9   | 217.6  | 103.6  | 75.8   | 48.0   | 41.0   | 33.4   | 18.8   | 3.5    | 4.2    |
| 90°    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°     | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 |
| 2.5°   | 4994.3 | 4946.3 | 4898.3 | 4844.1 | 4789.2 | 4738.4 | 4687.0 | 4630.7 | 4641.1 | 4598.0 | 4554.9 |
| 5°     | 4157.3 | 4080.8 | 4003.6 | 3936.9 | 3870.1 | 3812.4 | 3754.0 | 3701.9 | 3747.1 | 3716.5 | 3685.9 |
| 7.5°   | 3213.2 | 3118.6 | 3023.4 | 2943.4 | 2863.5 | 2801.6 | 2739.1 | 2696.0 | 2740.5 | 2734.9 | 2729.3 |
| 10°    | 2687.6 | 2595.9 | 2503.4 | 2415.1 | 2326.8 | 2251.7 | 2176.0 | 2112.0 | 2100.9 | 2068.9 | 2036.2 |
| 12.5°  | 2459.6 | 2333.8 | 2207.2 | 2114.8 | 2022.3 | 1932.6 | 1843.0 | 1767.9 | 1733.8 | 1681.0 | 1627.4 |
| 15°    | 2183.6 | 2034.8 | 1886.1 | 1781.1 | 1675.4 | 1588.5 | 1500.9 | 1436.3 | 1414.7 | 1373.7 | 1332.7 |
| 17.5°  | 1820.0 | 1657.3 | 1494.7 | 1388.3 | 1281.2 | 1211.7 | 1141.5 | 1098.4 | 1098.4 | 1086.6 | 1074.8 |
| 20°    | 1392.5 | 1247.2 | 1101.9 | 1020.5 | 939.2  | 902.4  | 864.8  | 846.7  | 852.3  | 853.0  | 853.0  |
| 22.5°  | 1021.2 | 932.3  | 843.3  | 810.6  | 777.2  | 764.0  | 750.8  | 743.2  | 745.9  | 746.6  | 747.3  |
| 25°    | 804.3  | 770.3  | 735.5  | 718.8  | 701.5  | 693.1  | 684.8  | 682.0  | 688.2  | 688.9  | 688.9  |
| 27.5°  | 706.3  | 685.5  | 663.9  | 653.5  | 642.4  | 638.9  | 635.4  | 630.5  | 636.8  | 636.8  | 636.1  |
| 30°    | 657.0  | 634.7  | 612.5  | 599.3  | 586.0  | 587.4  | 588.1  | 586.7  | 590.9  | 593.7  | 595.8  |
| 32.5°  | 616.6  | 595.1  | 573.5  | 560.3  | 546.4  | 544.3  | 542.3  | 540.9  | 549.9  | 554.8  | 559.6  |
| 35°    | 580.5  | 556.9  | 533.2  | 520.7  | 508.2  | 503.3  | 498.5  | 495.0  | 503.3  | 509.6  | 515.8  |
| 37.5°  | 556.2  | 531.8  | 506.8  | 495.0  | 482.5  | 476.2  | 470.0  | 465.8  | 469.3  | 472.0  | 474.8  |
| 40°    | 536.7  | 511.7  | 485.9  | 472.0  | 458.1  | 451.9  | 445.6  | 442.1  | 444.2  | 444.9  | 445.6  |
| 42.5°  | 518.6  | 494.3  | 470.0  | 454.7  | 438.7  | 431.0  | 423.4  | 419.2  | 420.6  | 422.0  | 422.7  |
| 45°    | 505.4  | 481.1  | 456.0  | 438.0  | 419.2  | 410.9  | 402.5  | 397.7  | 398.3  | 398.3  | 398.3  |
| 47.5°  | 517.9  | 482.5  | 446.3  | 425.5  | 403.9  | 394.2  | 384.4  | 379.6  | 378.2  | 376.8  | 375.4  |
| 50°    | 563.8  | 503.3  | 442.1  | 415.7  | 388.6  | 378.2  | 367.1  | 361.5  | 358.0  | 356.6  | 355.2  |
| 52.5°  | 550.6  | 498.5  | 445.6  | 411.6  | 376.8  | 364.3  | 351.8  | 342.7  | 339.3  | 337.2  | 335.1  |
| 55°    | 504.0  | 471.3  | 438.0  | 397.0  | 355.9  | 344.8  | 333.0  | 326.7  | 320.5  | 319.1  | 317.7  |
| 57.5°  | 442.8  | 429.6  | 416.4  | 374.7  | 333.0  | 322.6  | 311.4  | 307.3  | 301.7  | 301.7  | 301.0  |
| 60°    | 370.5  | 390.0  | 409.5  | 361.5  | 312.8  | 301.0  | 289.2  | 285.7  | 283.6  | 282.9  | 282.2  |
| 62.5°  | 333.0  | 365.0  | 396.3  | 345.5  | 294.1  | 281.6  | 269.0  | 264.9  | 264.2  | 264.9  | 264.9  |
| 65°    | 301.0  | 310.8  | 320.5  | 296.8  | 273.2  | 260.7  | 247.5  | 243.3  | 244.7  | 246.8  | 248.9  |
| 67.5°  | 271.8  | 269.7  | 267.6  | 259.3  | 250.3  | 239.8  | 228.7  | 224.5  | 225.2  | 228.0  | 230.8  |
| 70°    | 244.0  | 241.2  | 237.8  | 231.5  | 225.2  | 216.2  | 207.2  | 204.4  | 203.7  | 207.2  | 209.9  |
| 72.5°  | 216.2  | 212.7  | 208.6  | 203.7  | 198.1  | 190.5  | 182.8  | 180.8  | 181.4  | 183.5  | 185.6  |
| 75°    | 185.6  | 182.8  | 179.4  | 175.2  | 170.3  | 163.4  | 156.4  | 155.0  | 156.4  | 158.5  | 160.6  |
| 77.5°  | 152.2  | 151.6  | 150.2  | 146.7  | 143.2  | 135.6  | 127.2  | 126.5  | 128.6  | 130.7  | 132.1  |
| 80°    | 118.9  | 119.6  | 120.3  | 117.5  | 114.7  | 106.4  | 97.3   | 96.6   | 98.7   | 100.8  | 102.9  |
| 82.5°  | 87.6   | 89.7   | 91.1   | 87.6   | 84.1   | 74.4   | 64.7   | 63.3   | 70.2   | 72.3   | 74.4   |
| 85°    | 50.7   | 53.5   | 56.3   | 53.5   | 50.7   | 41.0   | 31.3   | 30.6   | 36.8   | 40.3   | 43.8   |
| 87.5°  | 4.2    | 5.6    | 7.0    | 6.3    | 5.6    | 2.8    | 0.0    | 0.0    | 0.7    | 3.5    | 6.3    |
| 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    |



REPORT NUMBER: P362289  
 CATALOG NUMBER: NVN-SA5A-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: P362289

CATALOG NUMBER: NVN-SA5A-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 |
| 2.5°   | 4527.8 | 4500.7 | 4492.3 | 4484.0 | 4453.4 | 4422.1 | 4454.1 | 4485.4 | 4498.6 | 4511.8 | 4477.7 |
| 5°     | 3681.7 | 3676.9 | 3676.9 | 3676.2 | 3648.4 | 3619.9 | 3641.4 | 3662.3 | 3615.7 | 3569.1 | 3564.3 |
| 7.5°   | 2759.2 | 2789.1 | 2813.4 | 2837.1 | 2828.0 | 2819.0 | 2839.2 | 2859.3 | 2800.2 | 2740.5 | 2711.3 |
| 10°    | 2043.2 | 2049.4 | 2075.8 | 2102.3 | 2108.5 | 2114.1 | 2139.1 | 2163.4 | 2117.6 | 2071.7 | 2051.5 |
| 12.5°  | 1594.1 | 1560.7 | 1564.2 | 1567.0 | 1579.5 | 1591.3 | 1617.7 | 1643.4 | 1624.7 | 1605.2 | 1607.3 |
| 15°    | 1291.0 | 1248.6 | 1231.2 | 1213.1 | 1227.0 | 1240.9 | 1259.7 | 1277.8 | 1278.5 | 1278.5 | 1296.5 |
| 17.5°  | 1053.9 | 1032.4 | 1015.0 | 996.9  | 1015.7 | 1033.8 | 1035.8 | 1037.9 | 1038.6 | 1039.3 | 1037.9 |
| 20°    | 863.4  | 873.9  | 868.3  | 862.7  | 869.7  | 875.9  | 881.5  | 886.4  | 880.1  | 873.2  | 855.8  |
| 22.5°  | 757.1  | 766.1  | 773.1  | 779.3  | 791.1  | 802.3  | 796.7  | 790.4  | 777.9  | 764.7  | 751.5  |
| 25°    | 695.2  | 701.5  | 708.4  | 715.4  | 725.1  | 734.1  | 724.4  | 714.7  | 705.6  | 696.6  | 687.5  |
| 27.5°  | 643.1  | 649.3  | 655.6  | 661.1  | 670.2  | 678.5  | 669.5  | 660.4  | 652.8  | 645.1  | 638.2  |
| 30°    | 600.6  | 604.8  | 609.7  | 614.6  | 622.9  | 630.5  | 622.9  | 614.6  | 609.0  | 602.7  | 597.9  |
| 32.5°  | 564.5  | 568.7  | 570.8  | 572.8  | 580.5  | 588.1  | 582.6  | 577.0  | 572.1  | 567.3  | 563.8  |
| 35°    | 524.9  | 533.2  | 534.6  | 536.0  | 543.6  | 551.3  | 547.8  | 543.6  | 538.1  | 532.5  | 526.3  |
| 37.5°  | 484.5  | 494.3  | 499.8  | 504.7  | 512.4  | 520.0  | 516.5  | 513.1  | 505.4  | 497.8  | 486.6  |
| 40°    | 450.5  | 454.7  | 465.1  | 474.8  | 487.3  | 499.1  | 492.2  | 484.5  | 472.7  | 460.9  | 455.4  |
| 42.5°  | 422.0  | 421.3  | 431.0  | 440.8  | 459.5  | 477.6  | 465.1  | 452.6  | 441.4  | 430.3  | 428.9  |
| 45°    | 397.0  | 394.9  | 399.7  | 404.6  | 424.8  | 444.2  | 431.7  | 418.5  | 412.2  | 406.0  | 406.0  |
| 47.5°  | 374.7  | 373.3  | 376.8  | 379.6  | 392.1  | 403.9  | 397.7  | 391.4  | 387.9  | 384.4  | 385.1  |
| 50°    | 354.5  | 353.2  | 356.6  | 359.4  | 364.3  | 368.5  | 369.8  | 370.5  | 368.5  | 366.4  | 367.8  |
| 52.5°  | 335.8  | 335.8  | 337.2  | 337.9  | 344.1  | 350.4  | 350.4  | 349.7  | 349.7  | 349.7  | 351.1  |
| 55°    | 319.8  | 321.2  | 321.2  | 321.2  | 330.9  | 339.9  | 337.2  | 334.4  | 335.1  | 335.1  | 336.5  |
| 57.5°  | 303.8  | 305.9  | 307.3  | 308.7  | 318.4  | 328.1  | 325.4  | 322.6  | 322.6  | 322.6  | 323.3  |
| 60°    | 285.7  | 288.5  | 291.3  | 294.1  | 303.8  | 313.5  | 310.8  | 307.3  | 308.0  | 308.7  | 309.4  |
| 62.5°  | 268.3  | 271.1  | 273.9  | 276.7  | 286.4  | 296.2  | 293.4  | 289.9  | 292.0  | 293.4  | 293.4  |
| 65°    | 251.7  | 253.7  | 256.5  | 259.3  | 268.3  | 277.4  | 274.6  | 271.8  | 274.6  | 276.7  | 278.1  |
| 67.5°  | 232.9  | 234.3  | 237.1  | 239.8  | 248.9  | 257.9  | 255.1  | 251.7  | 255.1  | 257.9  | 260.7  |
| 70°    | 211.3  | 212.7  | 216.2  | 219.0  | 228.0  | 237.1  | 233.6  | 230.1  | 233.6  | 237.1  | 239.8  |
| 72.5°  | 187.7  | 189.1  | 192.6  | 195.3  | 205.8  | 216.2  | 212.0  | 207.9  | 212.0  | 216.2  | 217.6  |
| 75°    | 162.0  | 163.4  | 167.5  | 171.0  | 181.4  | 191.9  | 188.4  | 184.2  | 187.7  | 191.2  | 191.9  |
| 77.5°  | 134.2  | 136.3  | 141.8  | 147.4  | 155.7  | 164.1  | 162.0  | 159.9  | 162.0  | 164.1  | 164.1  |
| 80°    | 105.0  | 107.1  | 114.0  | 120.3  | 125.1  | 130.0  | 130.7  | 131.4  | 132.1  | 132.8  | 132.1  |
| 82.5°  | 77.9   | 80.6   | 86.9   | 93.2   | 93.2   | 93.2   | 98.7   | 103.6  | 103.6  | 102.9  | 102.2  |
| 85°    | 48.0   | 51.4   | 57.0   | 62.6   | 59.1   | 55.6   | 64.7   | 73.0   | 73.0   | 72.3   | 70.9   |
| 87.5°  | 9.7    | 13.2   | 18.8   | 23.6   | 20.2   | 16.7   | 25.7   | 34.8   | 35.5   | 35.5   | 34.1   |
| 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: P362289  
 CATALOG NUMBER: NVN-SA5A-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°     | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 |
| 2.5°   | 4443.0 | 4497.2 | 4550.7 | 4564.6 | 4585.5 | 4594.5 | 4602.9 | 4671.0 | 4738.4 | 4817.7 | 4896.9 |
| 5°     | 3558.7 | 3599.0 | 3639.3 | 3645.6 | 3667.1 | 3678.3 | 3689.4 | 3772.1 | 3854.2 | 3964.7 | 4075.2 |
| 7.5°   | 2682.1 | 2691.8 | 2701.5 | 2700.1 | 2718.2 | 2742.5 | 2766.2 | 2854.5 | 2942.1 | 3060.9 | 3179.1 |
| 10°    | 2031.4 | 2053.6 | 2075.2 | 2095.3 | 2134.9 | 2180.8 | 2226.0 | 2316.4 | 2406.8 | 2524.2 | 2641.0 |
| 12.5°  | 1609.4 | 1635.1 | 1660.1 | 1682.4 | 1728.3 | 1789.4 | 1849.9 | 1958.4 | 2066.8 | 2207.2 | 2347.0 |
| 15°    | 1313.9 | 1311.8 | 1309.7 | 1325.0 | 1365.4 | 1432.1 | 1498.1 | 1612.8 | 1727.6 | 1881.9 | 2035.5 |
| 17.5°  | 1036.5 | 1026.1 | 1015.7 | 1027.5 | 1065.0 | 1120.0 | 1174.2 | 1271.5 | 1368.1 | 1517.6 | 1667.1 |
| 20°    | 838.4  | 831.5  | 824.5  | 835.6  | 859.3  | 882.2  | 905.1  | 975.4  | 1044.9 | 1166.5 | 1287.5 |
| 22.5°  | 737.6  | 736.9  | 735.5  | 741.8  | 752.9  | 764.7  | 775.8  | 809.9  | 843.3  | 921.8  | 999.7  |
| 25°    | 678.5  | 677.8  | 677.1  | 679.9  | 688.9  | 698.0  | 707.0  | 729.3  | 751.5  | 789.0  | 826.6  |
| 27.5°  | 631.2  | 629.8  | 628.5  | 629.2  | 631.2  | 645.1  | 658.3  | 668.8  | 678.5  | 704.2  | 729.3  |
| 30°    | 593.0  | 592.3  | 591.6  | 591.6  | 589.5  | 594.4  | 599.3  | 615.2  | 630.5  | 657.0  | 683.4  |
| 32.5°  | 560.3  | 556.9  | 553.4  | 545.7  | 540.9  | 547.8  | 554.8  | 571.4  | 588.1  | 612.5  | 636.8  |
| 35°    | 519.3  | 510.3  | 500.5  | 496.4  | 497.1  | 504.0  | 511.0  | 527.7  | 543.6  | 570.1  | 595.8  |
| 37.5°  | 474.8  | 472.0  | 468.6  | 467.9  | 470.0  | 476.9  | 483.9  | 498.5  | 512.4  | 538.8  | 564.5  |
| 40°    | 449.8  | 448.4  | 447.0  | 445.6  | 447.0  | 454.0  | 460.9  | 474.8  | 488.0  | 513.7  | 538.8  |
| 42.5°  | 427.5  | 426.8  | 426.2  | 426.2  | 426.8  | 434.5  | 442.1  | 456.0  | 469.3  | 492.2  | 515.1  |
| 45°    | 406.0  | 406.7  | 406.7  | 408.1  | 410.2  | 417.8  | 424.8  | 440.1  | 455.4  | 477.6  | 499.8  |
| 47.5°  | 385.8  | 387.9  | 389.3  | 392.8  | 394.9  | 403.2  | 410.9  | 427.5  | 444.2  | 472.0  | 499.1  |
| 50°    | 368.5  | 370.5  | 371.9  | 374.7  | 380.3  | 390.0  | 399.7  | 419.9  | 439.4  | 485.9  | 531.8  |
| 52.5°  | 352.5  | 354.5  | 356.6  | 359.4  | 366.4  | 377.5  | 388.6  | 413.6  | 438.0  | 492.2  | 546.4  |
| 55°    | 337.9  | 339.9  | 341.3  | 345.5  | 352.5  | 362.2  | 371.2  | 401.8  | 432.4  | 472.0  | 511.7  |
| 57.5°  | 324.0  | 326.0  | 327.4  | 330.2  | 333.7  | 344.1  | 353.9  | 386.5  | 419.2  | 447.0  | 474.1  |
| 60°    | 309.4  | 310.8  | 311.4  | 311.4  | 314.2  | 326.0  | 337.9  | 379.6  | 420.6  | 415.7  | 410.2  |
| 62.5°  | 293.4  | 294.8  | 295.5  | 293.4  | 296.8  | 309.4  | 321.9  | 376.1  | 430.3  | 397.0  | 363.6  |
| 65°    | 278.8  | 278.1  | 277.4  | 275.3  | 279.5  | 292.0  | 303.8  | 330.9  | 358.0  | 344.8  | 331.6  |
| 67.5°  | 262.8  | 260.7  | 258.6  | 255.8  | 260.0  | 271.1  | 281.6  | 290.6  | 299.6  | 301.0  | 302.4  |
| 70°    | 242.6  | 239.8  | 237.1  | 236.4  | 238.5  | 247.5  | 256.5  | 262.8  | 268.3  | 271.1  | 273.2  |
| 72.5°  | 219.0  | 216.9  | 214.8  | 213.4  | 214.1  | 221.8  | 228.7  | 234.3  | 239.8  | 241.9  | 243.3  |
| 75°    | 192.6  | 192.6  | 191.9  | 187.7  | 187.7  | 194.0  | 199.5  | 204.4  | 209.3  | 212.0  | 214.8  |
| 77.5°  | 164.1  | 164.8  | 164.8  | 159.2  | 158.5  | 164.8  | 170.3  | 174.5  | 178.0  | 180.8  | 182.8  |
| 80°    | 131.4  | 130.0  | 128.6  | 125.1  | 123.7  | 131.4  | 138.3  | 141.8  | 144.6  | 145.3  | 145.3  |
| 82.5°  | 100.8  | 98.0   | 94.5   | 86.9   | 87.6   | 95.9   | 103.6  | 106.4  | 109.1  | 109.1  | 109.1  |
| 85°    | 68.8   | 63.3   | 57.0   | 50.7   | 51.4   | 60.5   | 68.8   | 71.6   | 74.4   | 75.8   | 76.5   |
| 87.5°  | 32.7   | 27.1   | 20.9   | 16.0   | 16.0   | 23.6   | 30.6   | 32.0   | 33.4   | 36.2   | 38.9   |
| 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-SA5A-727-U-SLR

**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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 CATALOG NUMBER: NVN-SA5A-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°    | 270°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°     | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4 | 5297.4  | 5297.4  |
| 2.5°   | 4957.4 | 5017.2 | 5079.1 | 5141.0 | 5211.9 | 5282.8 | 5365.5 | 5447.5 | 5517.8 | 5588.0  | 5646.4  |
| 5°     | 4170.5 | 4265.7 | 4377.6 | 4489.6 | 4632.1 | 4774.6 | 4949.1 | 5122.9 | 5277.9 | 5432.9  | 5613.0  |
| 7.5°   | 3303.6 | 3427.3 | 3573.3 | 3719.3 | 3903.5 | 4087.7 | 4313.7 | 4539.6 | 4758.6 | 4976.9  | 5253.6  |
| 10°    | 2771.0 | 2901.0 | 3044.9 | 3188.2 | 3375.9 | 3562.9 | 3802.0 | 4040.5 | 4286.6 | 4532.0  | 4844.8  |
| 12.5°  | 2491.6 | 2635.5 | 2762.0 | 2888.5 | 3040.8 | 3192.3 | 3423.8 | 3655.3 | 3944.5 | 4233.0  | 4534.1  |
| 15°    | 2193.3 | 2350.4 | 2502.0 | 2653.6 | 2819.7 | 2985.2 | 3210.4 | 3435.6 | 3752.0 | 4068.3  | 4414.5  |
| 17.5°  | 1832.5 | 1998.0 | 2182.9 | 2367.1 | 2584.0 | 2800.2 | 3088.7 | 3377.3 | 3752.0 | 4126.0  | 4534.1  |
| 20°    | 1456.4 | 1625.4 | 1846.4 | 2067.5 | 2337.2 | 2606.3 | 2980.3 | 3354.3 | 3859.0 | 4363.0  | 4883.7  |
| 22.5°  | 1149.2 | 1297.9 | 1539.2 | 1779.7 | 2091.1 | 2402.6 | 2882.3 | 3361.3 | 4021.0 | 4680.0  | 5382.9  |
| 25°    | 931.6  | 1036.5 | 1273.6 | 1510.0 | 1869.4 | 2228.8 | 2822.5 | 3415.5 | 4256.7 | 5097.2  | 5968.9  |
| 27.5°  | 798.1  | 866.9  | 1088.0 | 1308.4 | 1701.1 | 2093.2 | 2798.2 | 3502.4 | 4555.6 | 5608.8  | 6606.4  |
| 30°    | 731.3  | 779.3  | 966.3  | 1152.6 | 1551.7 | 1950.7 | 2769.0 | 3587.2 | 4843.4 | 6098.9  | 7104.9  |
| 32.5°  | 675.7  | 714.0  | 873.9  | 1033.1 | 1422.4 | 1811.7 | 2712.6 | 3612.9 | 5044.3 | 6475.7  | 7526.9  |
| 35°    | 628.5  | 660.4  | 799.5  | 938.5  | 1320.9 | 1703.2 | 2618.1 | 3533.0 | 5170.2 | 6807.3  | 7966.2  |
| 37.5°  | 590.2  | 615.2  | 743.9  | 872.5  | 1233.3 | 1594.1 | 2510.3 | 3426.6 | 5282.1 | 7137.6  | 8460.5  |
| 40°    | 560.3  | 581.9  | 702.1  | 822.4  | 1149.9 | 1477.3 | 2417.9 | 3357.8 | 5436.4 | 7515.0  | 8982.6  |
| 42.5°  | 543.6  | 571.4  | 666.0  | 759.8  | 1070.6 | 1381.3 | 2343.5 | 3305.6 | 5579.6 | 7852.9  | 9439.3  |
| 45°    | 539.5  | 579.1  | 647.2  | 715.4  | 1011.5 | 1307.7 | 2277.5 | 3246.6 | 5672.1 | 8097.6  | 9783.5  |
| 47.5°  | 532.5  | 565.2  | 632.6  | 700.1  | 982.3  | 1263.9 | 2242.0 | 3219.4 | 5764.5 | 8309.0  | 10069.2 |
| 50°    | 536.7  | 540.9  | 620.8  | 700.1  | 978.1  | 1256.2 | 2282.3 | 3308.4 | 5964.8 | 8620.4  | 10395.9 |
| 52.5°  | 529.0  | 511.0  | 598.6  | 686.2  | 977.4  | 1268.7 | 2398.4 | 3528.1 | 6336.7 | 9144.6  | 10749.8 |
| 55°    | 488.7  | 465.1  | 556.9  | 648.6  | 962.8  | 1276.4 | 2536.8 | 3796.5 | 6835.8 | 9874.5  | 11385.9 |
| 57.5°  | 453.3  | 431.7  | 509.6  | 586.7  | 918.4  | 1250.0 | 2679.3 | 4107.9 | 7363.5 | 10618.4 | 12102.6 |
| 60°    | 406.0  | 401.1  | 456.7  | 512.4  | 849.5  | 1186.0 | 2796.8 | 4406.8 | 7718.0 | 11028.6 | 12378.6 |
| 62.5°  | 367.1  | 369.8  | 410.9  | 451.9  | 763.3  | 1074.1 | 2835.7 | 4596.6 | 7708.3 | 10820.0 | 12100.5 |
| 65°    | 337.2  | 342.0  | 382.4  | 422.7  | 689.6  | 956.6  | 2707.8 | 4458.3 | 7318.3 | 10177.6 | 11550.6 |
| 67.5°  | 308.0  | 313.5  | 361.5  | 408.8  | 624.3  | 839.1  | 2388.0 | 3936.2 | 6616.9 | 9296.8  | 10851.3 |
| 70°    | 280.2  | 287.1  | 339.3  | 391.4  | 577.0  | 761.9  | 1975.7 | 3189.5 | 5738.8 | 8287.4  | 10041.4 |
| 72.5°  | 250.3  | 257.2  | 312.8  | 368.5  | 547.1  | 725.1  | 1610.8 | 2495.7 | 4657.1 | 6817.8  | 8589.1  |
| 75°    | 219.7  | 224.5  | 285.0  | 344.8  | 506.1  | 667.4  | 1263.9 | 1859.6 | 3564.3 | 5268.9  | 6487.5  |
| 77.5°  | 189.1  | 195.3  | 246.1  | 296.2  | 429.6  | 562.4  | 952.4  | 1342.4 | 2615.3 | 3887.5  | 4511.8  |
| 80°    | 150.9  | 156.4  | 192.6  | 228.0  | 331.6  | 434.5  | 654.9  | 875.2  | 1799.9 | 2724.5  | 3076.2  |
| 82.5°  | 115.4  | 121.7  | 146.0  | 169.6  | 236.4  | 303.1  | 397.0  | 490.8  | 1195.7 | 1900.0  | 1929.2  |
| 85°    | 79.3   | 81.3   | 98.7   | 115.4  | 146.0  | 176.6  | 227.3  | 278.1  | 791.1  | 1304.2  | 1086.6  |
| 87.5°  | 39.6   | 39.6   | 51.4   | 63.3   | 78.6   | 93.9   | 120.3  | 146.0  | 253.1  | 360.1   | 207.2   |
| 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):**

|        | 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: P362289

CATALOG NUMBER: NVN-SA5A-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°    | 280°    | 285°    | 290°    | 295°    | 300°    | 305°    | 310°    | 315°    | 320°    | 325°    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  |
| 2.5°   | 5720.7  | 5771.5  | 5822.9  | 5861.9  | 5901.5  | 5958.5  | 6015.5  | 6025.9  | 6037.1  | 6014.8  | 5992.6  |
| 5°     | 5794.4  | 5948.1  | 6102.4  | 6244.9  | 6387.4  | 6472.9  | 6558.5  | 6575.8  | 6593.2  | 6539.7  | 6485.5  |
| 7.5°   | 5521.2  | 5788.9  | 6056.5  | 6301.9  | 6547.3  | 6696.1  | 6845.6  | 6878.9  | 6913.0  | 6825.4  | 6737.8  |
| 10°    | 5156.3  | 5485.1  | 5813.9  | 6137.2  | 6460.4  | 6676.6  | 6892.8  | 6935.9  | 6979.0  | 6869.9  | 6760.8  |
| 12.5°  | 4874.0  | 5225.1  | 5576.1  | 5916.8  | 6258.1  | 6482.0  | 6705.8  | 6759.4  | 6812.9  | 6733.6  | 6653.7  |
| 15°    | 4787.1  | 5117.3  | 5447.5  | 5744.4  | 6041.9  | 6224.8  | 6408.3  | 6429.8  | 6452.1  | 6439.6  | 6427.1  |
| 17.5°  | 4944.9  | 5243.1  | 5542.1  | 5703.4  | 5865.3  | 5938.3  | 6012.0  | 6035.7  | 6060.0  | 6091.3  | 6123.3  |
| 20°    | 5327.3  | 5537.2  | 5747.9  | 5740.9  | 5733.3  | 5697.8  | 5661.7  | 5655.4  | 5649.1  | 5738.8  | 5829.2  |
| 22.5°  | 5898.0  | 5981.4  | 6065.6  | 5870.2  | 5674.9  | 5556.0  | 5436.4  | 5412.8  | 5388.4  | 5483.7  | 5579.6  |
| 25°    | 6517.4  | 6502.1  | 6486.2  | 6114.2  | 5741.6  | 5515.0  | 5288.3  | 5261.9  | 5235.5  | 5316.8  | 5398.9  |
| 27.5°  | 7130.6  | 7030.5  | 6930.4  | 6425.0  | 5919.6  | 5590.7  | 5261.9  | 5235.5  | 5209.1  | 5281.4  | 5353.7  |
| 30°    | 7580.4  | 7419.8  | 7259.2  | 6687.1  | 6114.9  | 5724.2  | 5333.5  | 5290.4  | 5246.6  | 5335.6  | 5424.6  |
| 32.5°  | 7931.5  | 7716.0  | 7500.4  | 6899.8  | 6299.1  | 5876.5  | 5453.8  | 5386.4  | 5318.9  | 5437.8  | 5556.7  |
| 35°    | 8281.8  | 7978.7  | 7674.9  | 7089.6  | 6503.5  | 6056.5  | 5608.8  | 5526.1  | 5443.4  | 5606.7  | 5770.1  |
| 37.5°  | 8722.6  | 8287.4  | 7851.5  | 7303.0  | 6754.5  | 6326.3  | 5897.3  | 5812.5  | 5727.7  | 5935.6  | 6144.1  |
| 40°    | 9200.9  | 8620.4  | 8039.9  | 7536.6  | 7033.3  | 6699.6  | 6365.2  | 6284.5  | 6203.2  | 6456.3  | 6709.3  |
| 42.5°  | 9598.5  | 8930.5  | 8262.4  | 7818.1  | 7373.2  | 7138.2  | 6902.6  | 6901.9  | 6900.5  | 7157.0  | 7413.5  |
| 45°    | 9921.8  | 9189.1  | 8455.6  | 8092.7  | 7729.2  | 7606.8  | 7484.5  | 7582.5  | 7680.5  | 7912.0  | 8144.2  |
| 47.5°  | 10163.0 | 9406.0  | 8648.2  | 8407.0  | 8165.7  | 8183.8  | 8201.9  | 8401.4  | 8600.9  | 8749.7  | 8899.2  |
| 50°    | 10320.1 | 9602.7  | 8884.6  | 8810.2  | 8735.8  | 8897.8  | 9060.5  | 9289.2  | 9518.6  | 9620.1  | 9721.6  |
| 52.5°  | 10548.9 | 9869.7  | 9189.8  | 9273.2  | 9356.6  | 9687.5  | 10018.4 | 10249.9 | 10481.4 | 10519.0 | 10557.2 |
| 55°    | 11077.9 | 10360.5 | 9642.3  | 9802.2  | 9962.8  | 10448.1 | 10934.0 | 11114.8 | 11295.5 | 11309.4 | 11323.3 |
| 57.5°  | 11829.4 | 11048.0 | 10266.6 | 10439.0 | 10611.4 | 11171.8 | 11732.8 | 11927.4 | 12122.8 | 12095.7 | 12067.9 |
| 60°    | 12391.8 | 11700.8 | 11009.1 | 11182.9 | 11356.7 | 11903.1 | 12449.5 | 12673.4 | 12897.9 | 12838.1 | 12778.4 |
| 62.5°  | 12426.6 | 12057.4 | 11687.6 | 11844.7 | 12002.5 | 12537.8 | 13073.1 | 13303.2 | 13533.3 | 13429.1 | 13324.8 |
| 65°    | 11873.9 | 12039.4 | 12204.8 | 12257.0 | 12309.1 | 12808.2 | 13308.1 | 13484.0 | 13660.6 | 13607.7 | 13554.9 |
| 67.5°  | 11112.7 | 11722.4 | 12332.7 | 12227.8 | 12122.8 | 12357.1 | 12591.3 | 12772.8 | 12954.2 | 12924.3 | 12893.8 |
| 70°    | 10352.8 | 11166.9 | 11981.0 | 11465.1 | 10948.6 | 10852.0 | 10755.3 | 10950.7 | 11146.7 | 11025.8 | 10904.1 |
| 72.5°  | 9059.1  | 9926.7  | 10795.0 | 9844.6  | 8894.3  | 8564.1  | 8233.9  | 8482.1  | 8730.2  | 8537.7  | 8344.4  |
| 75°    | 7111.1  | 8069.8  | 9029.2  | 7895.3  | 6761.5  | 6320.7  | 5879.9  | 6093.4  | 6306.8  | 6174.7  | 6041.9  |
| 77.5°  | 5293.9  | 6238.7  | 7183.4  | 6030.8  | 4877.5  | 4550.0  | 4221.9  | 4285.2  | 4349.1  | 4326.9  | 4303.9  |
| 80°    | 3590.7  | 4249.0  | 4908.1  | 4140.6  | 3373.1  | 3398.1  | 3423.8  | 3393.9  | 3363.3  | 3407.8  | 3452.3  |
| 82.5°  | 2291.4  | 2799.5  | 3308.4  | 2901.0  | 2493.7  | 2727.2  | 2960.8  | 2846.1  | 2730.7  | 2773.1  | 2816.2  |
| 85°    | 1307.7  | 1804.7  | 2302.5  | 2146.1  | 1988.9  | 2125.2  | 2262.2  | 2084.2  | 1906.2  | 1984.1  | 2062.6  |
| 87.5°  | 344.8   | 998.3   | 1652.5  | 1500.2  | 1348.0  | 1171.4  | 994.8   | 759.2   | 523.5   | 764.7   | 1005.9  |
| 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-SA5A-727-U-SLR

**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°     | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  | 5297.4  |
| 2.5°   | 5980.7  | 5968.9  | 5926.5  | 5883.4  | 5819.5  | 5766.6  | 5674.9  |
| 5°     | 6410.4  | 6335.3  | 6206.0  | 6076.0  | 5931.4  | 5765.2  | 5581.0  |
| 7.5°   | 6562.6  | 6386.7  | 6138.6  | 5889.7  | 5665.8  | 5403.0  | 5158.3  |
| 10°    | 6498.0  | 6234.5  | 5911.9  | 5588.7  | 5316.8  | 5014.4  | 4742.6  |
| 12.5°  | 6374.2  | 6094.1  | 5738.8  | 5382.9  | 5073.5  | 4748.9  | 4444.4  |
| 15°    | 6203.9  | 5980.1  | 5647.1  | 5314.1  | 5002.6  | 4687.0  | 4326.2  |
| 17.5°  | 6017.6  | 5911.2  | 5670.7  | 5429.5  | 5159.7  | 4853.8  | 4430.5  |
| 20°    | 5867.4  | 5906.4  | 5810.4  | 5714.5  | 5498.3  | 5231.3  | 4755.8  |
| 22.5°  | 5765.9  | 5952.9  | 6026.6  | 6101.0  | 5971.0  | 5762.5  | 5212.6  |
| 25°    | 5708.9  | 6019.0  | 6265.8  | 6513.3  | 6455.6  | 6295.0  | 5767.3  |
| 27.5°  | 5734.0  | 6114.2  | 6497.3  | 6881.0  | 6934.6  | 6890.1  | 6352.0  |
| 30°    | 5809.0  | 6194.2  | 6660.6  | 7127.8  | 7341.2  | 7401.0  | 6839.3  |
| 32.5°  | 5934.2  | 6311.7  | 6819.8  | 7328.7  | 7651.3  | 7841.8  | 7284.9  |
| 35°    | 6123.3  | 6476.4  | 7006.2  | 7535.9  | 7953.0  | 8300.6  | 7745.2  |
| 37.5°  | 6447.9  | 6751.7  | 7240.4  | 7729.9  | 8270.7  | 8792.8  | 8251.9  |
| 40°    | 6923.4  | 7138.2  | 7551.2  | 7964.8  | 8645.4  | 9350.4  | 8817.1  |
| 42.5°  | 7523.4  | 7633.9  | 7961.4  | 8288.8  | 9036.8  | 9856.5  | 9369.8  |
| 45°    | 8173.4  | 8202.6  | 8408.4  | 8614.8  | 9346.9  | 10201.3 | 9784.8  |
| 47.5°  | 8799.1  | 8699.0  | 8781.0  | 8863.0  | 9584.6  | 10447.4 | 10099.8 |
| 50°    | 9442.8  | 9164.0  | 9120.9  | 9077.8  | 9822.4  | 10737.3 | 10500.2 |
| 52.5°  | 10097.7 | 9638.2  | 9467.8  | 9296.8  | 10106.0 | 11121.7 | 10998.7 |
| 55°    | 10738.7 | 10154.0 | 9924.6  | 9695.2  | 10539.8 | 11591.0 | 11730.7 |
| 57.5°  | 11405.3 | 10742.8 | 10530.1 | 10317.4 | 11177.3 | 12185.4 | 12387.7 |
| 60°    | 12122.8 | 11466.5 | 11296.2 | 11125.2 | 11969.8 | 12827.7 | 12680.3 |
| 62.5°  | 12803.4 | 12282.0 | 12192.3 | 12101.9 | 12771.4 | 13321.3 | 12566.3 |
| 65°    | 13258.0 | 12960.5 | 13043.9 | 13128.0 | 13377.6 | 13444.3 | 12232.6 |
| 67.5°  | 12954.2 | 13014.7 | 13367.2 | 13720.3 | 13548.6 | 13078.7 | 11575.0 |
| 70°    | 11266.3 | 11629.2 | 12464.1 | 13299.7 | 12918.8 | 12099.1 | 10394.5 |
| 72.5°  | 8751.8  | 9159.9  | 10399.4 | 11639.6 | 11288.6 | 10284.7 | 8537.7  |
| 75°    | 6502.1  | 6963.1  | 8331.2  | 9699.3  | 9212.0  | 7693.0  | 6112.8  |
| 77.5°  | 4612.6  | 4921.3  | 6272.0  | 7623.5  | 6828.9  | 5120.8  | 4113.5  |
| 80°    | 3357.8  | 3263.2  | 4016.1  | 4769.0  | 4636.9  | 3387.0  | 2641.7  |
| 82.5°  | 2585.4  | 2354.6  | 2709.2  | 3063.7  | 3044.3  | 2350.4  | 1938.2  |
| 85°    | 1970.2  | 1877.7  | 2191.2  | 2504.8  | 2236.4  | 1592.0  | 1231.9  |
| 87.5°  | 1148.5  | 1291.7  | 1660.8  | 2030.7  | 1523.9  | 483.2   | 239.1   |
| 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: P362289  
 CATALOG NUMBER: NVN-SA5A-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: 4π  
 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  
 CIE u': 0.2605  
 CIE v': 0.5272  
 Duv: 0.0005  
 CIE x: 0.4573  
 CIE y: 0.4113  
 CIE z: 0.1313  
 Peak Wavelength (nm): 602  
 Dominant Wavelength (nm): 583  
 Purity: 61.2  
 Rf: 69.9  
 Rg: 98.3

|           |      |      |       |
|-----------|------|------|-------|
| CRI (Ra): | 71.5 |      |       |
| R1:       | 69.2 | R9:  | -16.1 |
| R2:       | 79.4 | R10: | 51.4  |
| R3:       | 87.8 | R11: | 63.1  |
| R4:       | 69.4 | R12: | 42.0  |
| R5:       | 66.4 | R13: | 70.2  |
| R6:       | 69.8 | R14: | 92.4  |
| R7:       | 79.8 |      |       |
| R8:       | 50.1 |      |       |



**Test Conditions**

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

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

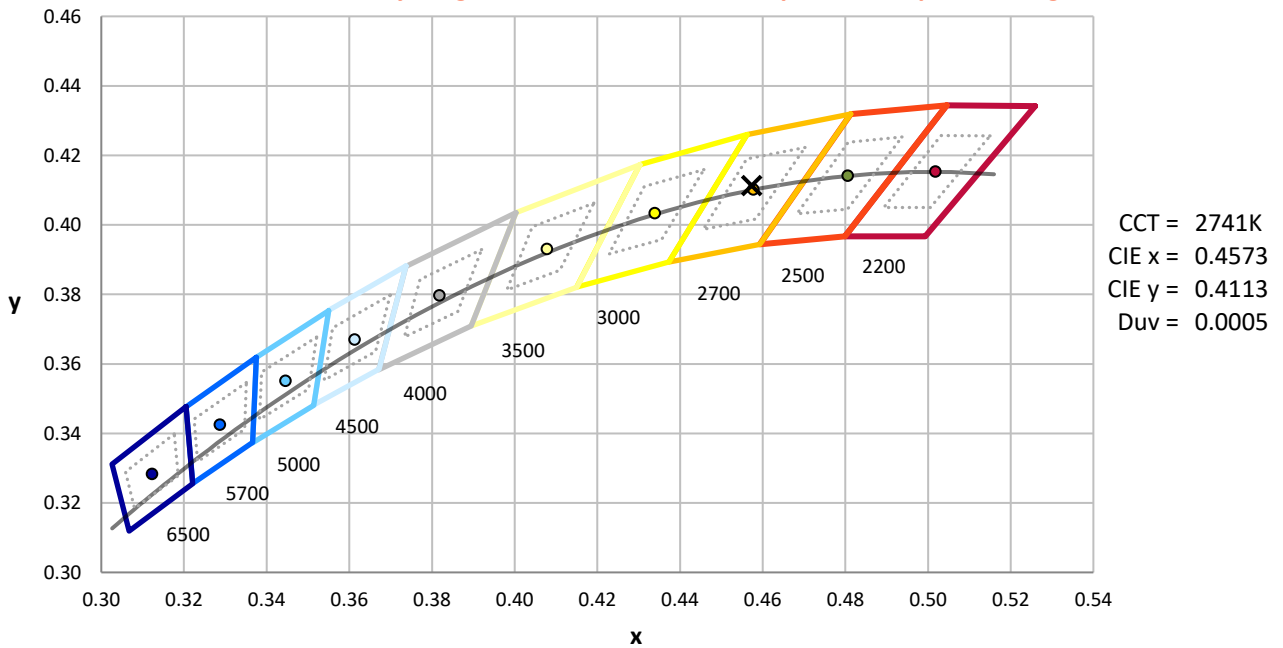
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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            |

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

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 (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (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 (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (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

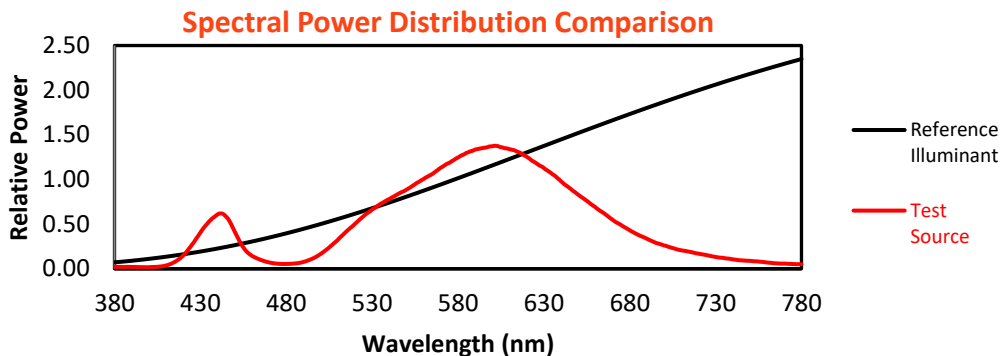
| $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) |
|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|
| 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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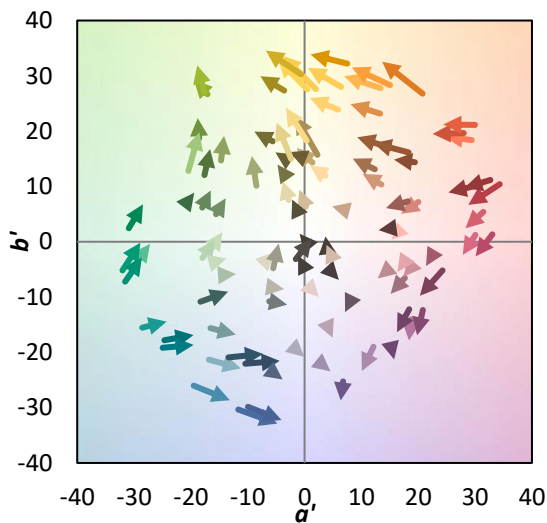
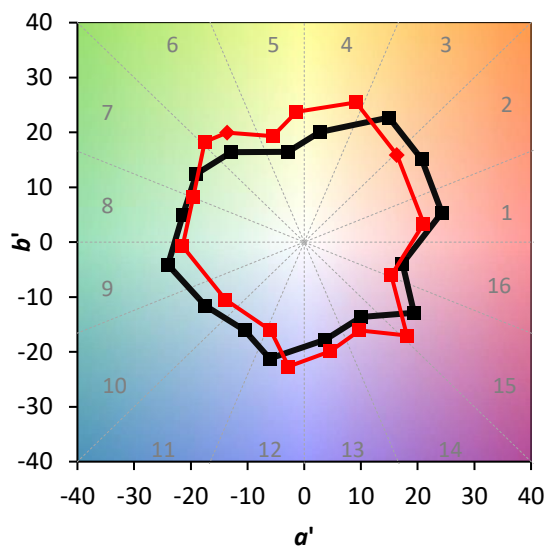
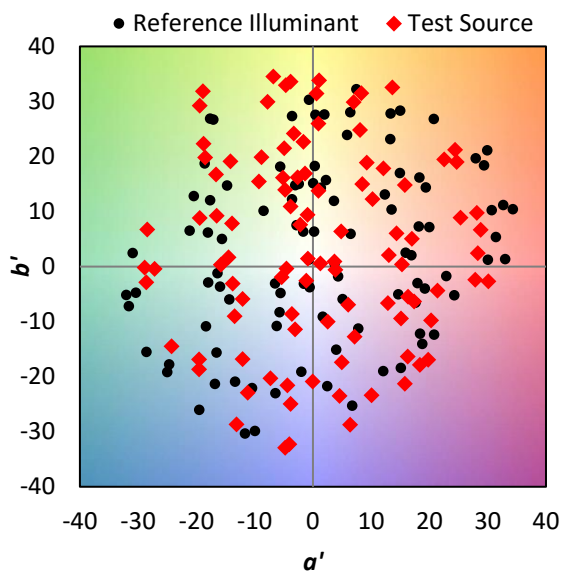
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**Summary**

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



**Color Vector Graphics**



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

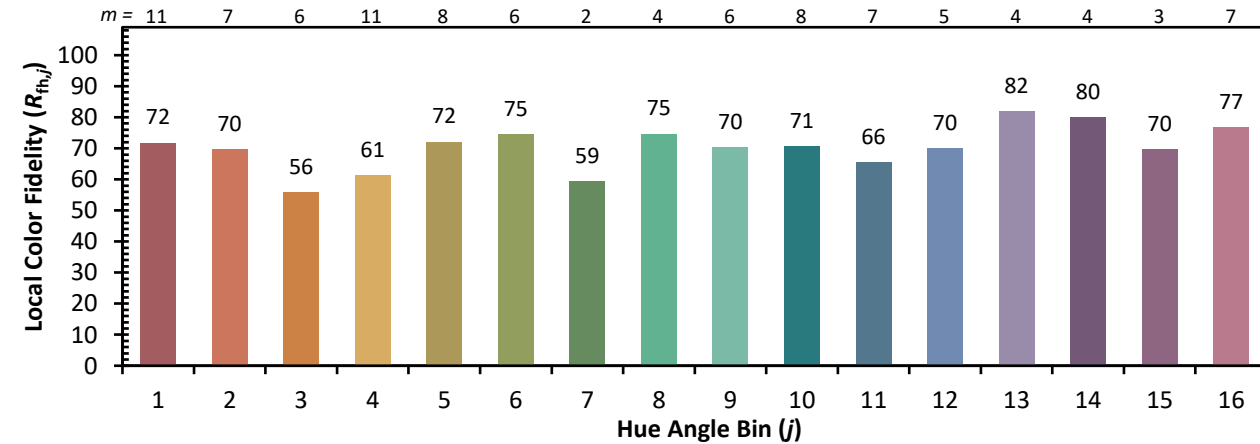
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|------------|------------|------------|------------|
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| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 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 |
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| 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)