

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: P362148

Luminaire Tested: NVN-SA2B-727-U-SLL

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P362148  
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-SA2B-727-U-SLL  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8637 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

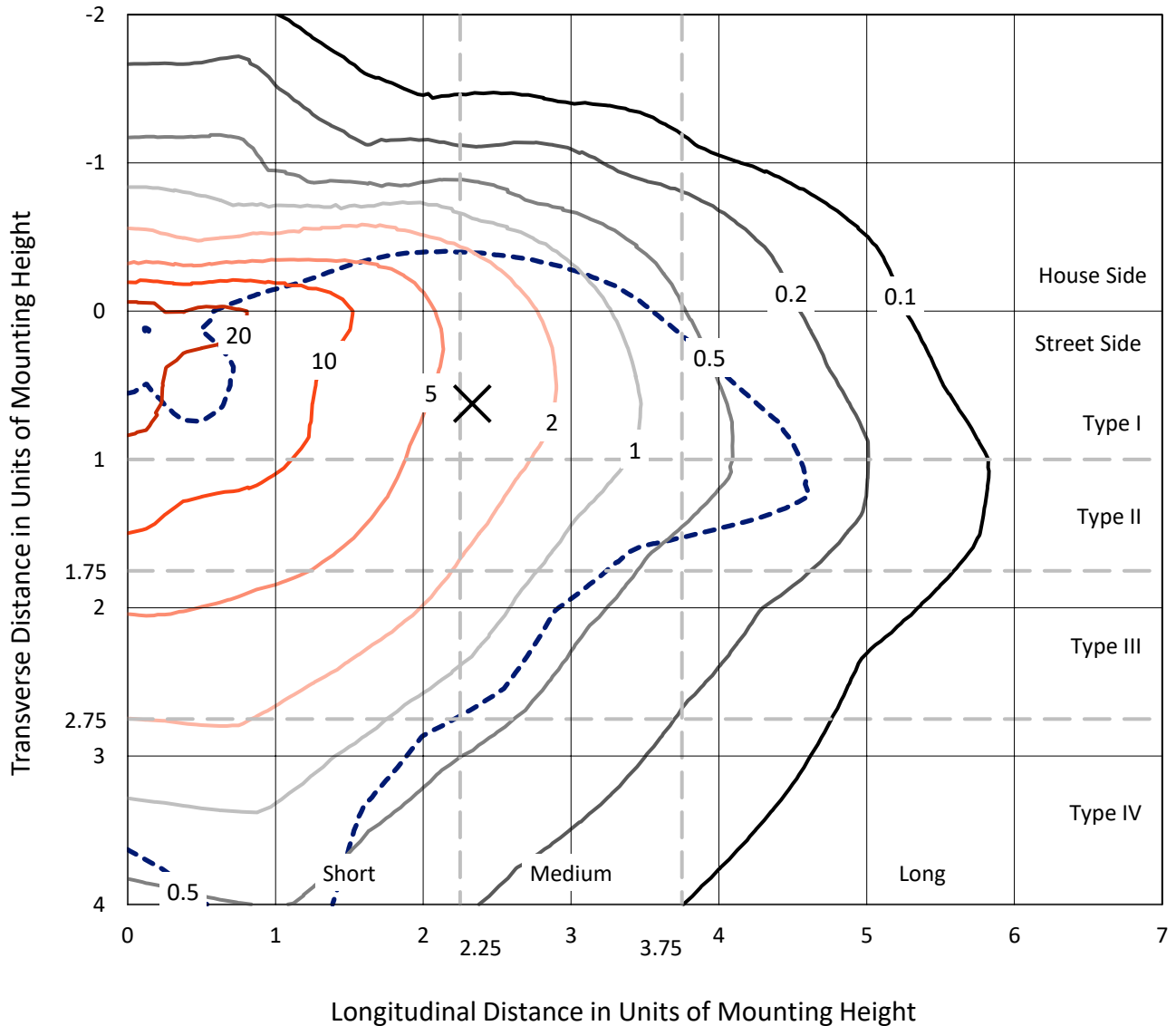
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

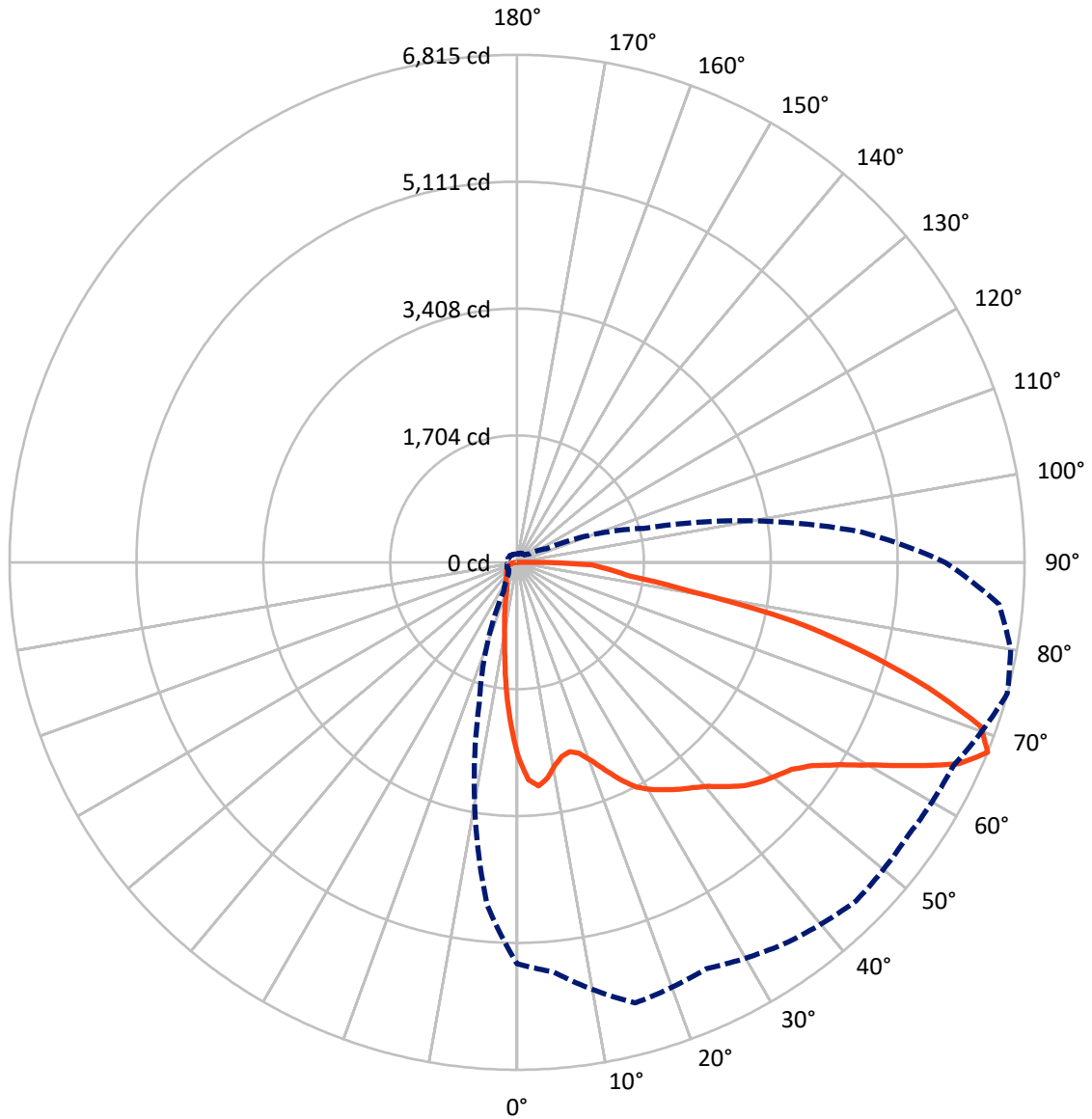
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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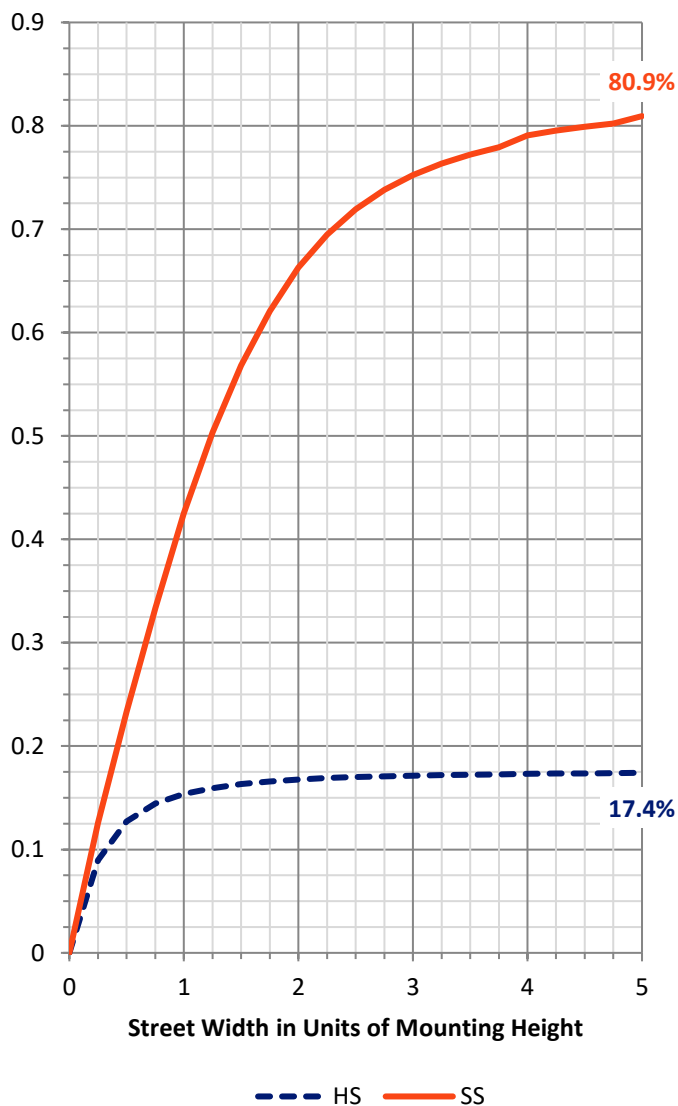
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1521.2   | 0.0    | 1521.2 |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 7115.8   | 0.0    | 7115.8 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 8637.0   | 0.0    | 8637.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 203.1  | 2.4       |
| 10°-20°   | 421.9  | 4.9       |
| 20°-30°   | 600.0  | 6.9       |
| 30°-40°   | 864.6  | 10.0      |
| 40°-50°   | 1218.5 | 14.1      |
| 50°-60°   | 1693.9 | 19.6      |
| 60°-70°   | 2048.4 | 23.7      |
| 70°-80°   | 1259.1 | 14.6      |
| 80°-90°   | 327.6  | 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°    | 8637.0 | 100.0     |
| 0°-180°   | 8637.0 | 100.0     |

**Coefficient of Utilization**

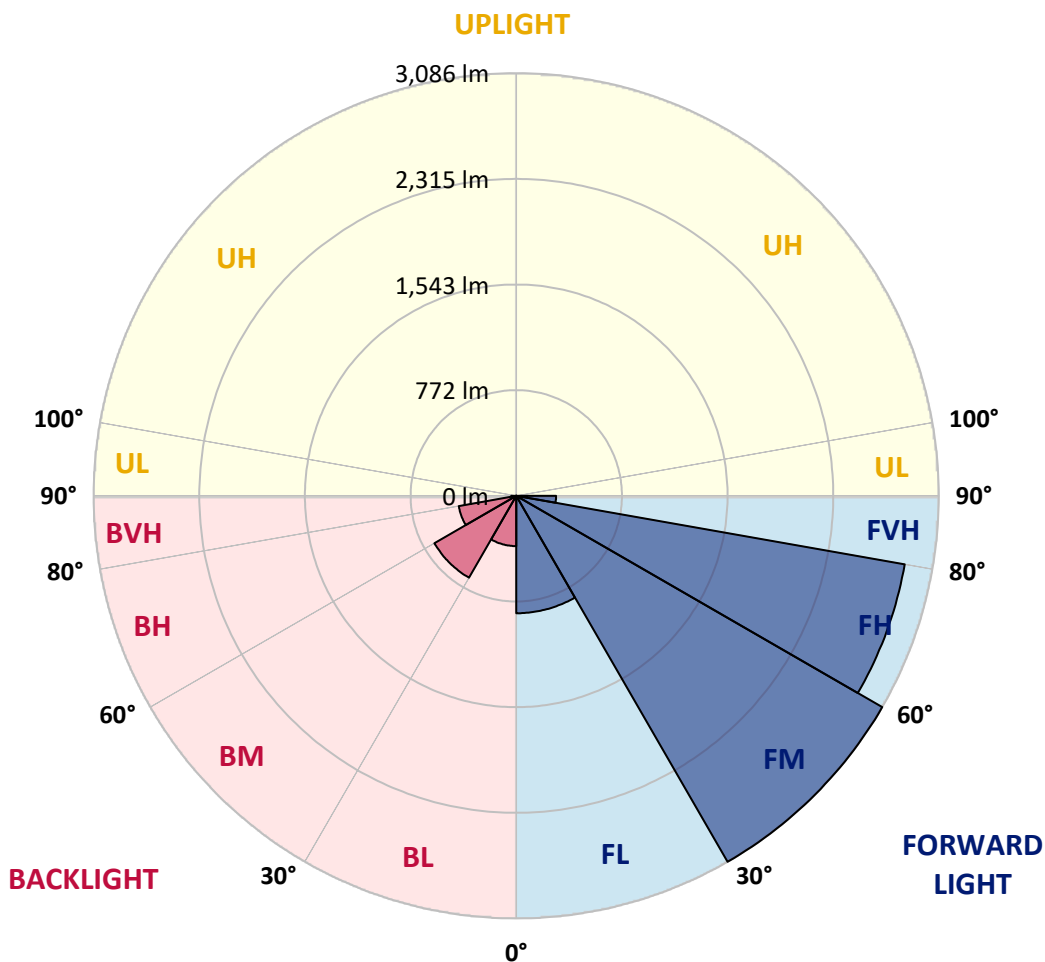


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 857.6  | 9.9       |                         |      |         |
| FM (30°-60°)   | 3086.4 | 35.7      |                         |      |         |
| FH (60°-80°)   | 2881.0 | 33.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 290.8  | 3.4       |                         |      | G3/500  |
| BL (0°-30°)    | 367.4  | 4.3       | B1/500                  |      |         |
| BM (30°-60°)   | 690.5  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 426.5  | 4.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 36.8   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2804.7 | 2841.6 | 2867.2 | 2892.4 | 2912.0 | 2931.4 | 2959.7 | 2988.0 | 2993.5 | 2998.7 | 2987.7 |
| 5°     | 2788.1 | 2878.2 | 2954.9 | 3031.2 | 3102.0 | 3172.8 | 3215.2 | 3257.7 | 3266.3 | 3275.0 | 3248.4 |
| 7.5°   | 2609.5 | 2742.5 | 2875.4 | 3008.4 | 3130.3 | 3252.2 | 3326.4 | 3400.3 | 3417.2 | 3433.8 | 3390.3 |
| 10°    | 2406.5 | 2561.2 | 2724.5 | 2887.9 | 3048.4 | 3209.0 | 3316.4 | 3423.8 | 3445.2 | 3466.6 | 3412.4 |
| 12.5°  | 2252.1 | 2421.0 | 2595.4 | 2769.8 | 2939.3 | 3108.5 | 3219.7 | 3330.9 | 3357.5 | 3384.1 | 3344.7 |
| 15°    | 2192.8 | 2377.8 | 2541.9 | 2705.9 | 2853.7 | 3001.1 | 3092.3 | 3183.1 | 3194.2 | 3204.9 | 3198.7 |
| 17.5°  | 2252.1 | 2456.2 | 2604.7 | 2752.9 | 2833.3 | 2913.4 | 2950.0 | 2986.3 | 2998.4 | 3010.1 | 3026.0 |
| 20°    | 2425.8 | 2646.2 | 2750.8 | 2855.1 | 2851.6 | 2847.8 | 2830.2 | 2812.2 | 2809.1 | 2806.0 | 2850.9 |
| 22.5°  | 2673.8 | 2929.7 | 2971.4 | 3012.9 | 2915.8 | 2818.8 | 2759.8 | 2700.4 | 2688.6 | 2676.5 | 2724.2 |
| 25°    | 2964.9 | 3237.3 | 3229.7 | 3221.8 | 3037.0 | 2852.0 | 2739.4 | 2626.8 | 2613.7 | 2600.6 | 2641.3 |
| 27.5°  | 3281.5 | 3541.9 | 3492.2 | 3442.4 | 3191.4 | 2940.4 | 2777.0 | 2613.7 | 2600.6 | 2587.4 | 2623.4 |
| 30°    | 3529.1 | 3765.3 | 3685.6 | 3605.8 | 3321.6 | 3037.4 | 2843.3 | 2649.3 | 2627.8 | 2606.1 | 2650.3 |
| 32.5°  | 3738.7 | 3939.7 | 3832.7 | 3725.6 | 3427.3 | 3128.9 | 2919.0 | 2709.0 | 2675.5 | 2642.0 | 2701.1 |
| 35°    | 3957.0 | 4113.7 | 3963.2 | 3812.3 | 3521.5 | 3230.4 | 3008.4 | 2786.0 | 2744.9 | 2703.8 | 2785.0 |
| 37.5°  | 4202.5 | 4332.7 | 4116.5 | 3900.0 | 3627.5 | 3355.1 | 3142.4 | 2929.3 | 2887.2 | 2845.1 | 2948.6 |
| 40°    | 4461.8 | 4570.2 | 4281.9 | 3993.6 | 3743.6 | 3493.6 | 3327.8 | 3161.7 | 3121.7 | 3081.2 | 3206.9 |
| 42.5°  | 4688.7 | 4767.8 | 4435.9 | 4104.1 | 3883.4 | 3662.4 | 3545.7 | 3428.6 | 3428.3 | 3427.6 | 3555.0 |
| 45°    | 4859.6 | 4928.3 | 4564.4 | 4200.1 | 4019.8 | 3839.2 | 3778.4 | 3717.7 | 3766.4 | 3815.0 | 3930.4 |
| 47.5°  | 5001.5 | 5048.2 | 4672.1 | 4295.7 | 4175.9 | 4056.1 | 4065.1 | 4074.0 | 4173.1 | 4272.2 | 4346.5 |
| 50°    | 5163.8 | 5126.2 | 4769.8 | 4413.1 | 4376.2 | 4339.2 | 4420.0 | 4500.5 | 4614.4 | 4728.1 | 4778.5 |
| 52.5°  | 5339.6 | 5239.8 | 4902.4 | 4564.7 | 4606.2 | 4647.6 | 4812.0 | 4976.3 | 5091.3 | 5206.3 | 5225.3 |
| 55°    | 5655.6 | 5502.6 | 5146.2 | 4789.5 | 4869.3 | 4948.7 | 5190.1 | 5431.1 | 5520.9 | 5610.7 | 5617.6 |
| 57.5°  | 6011.6 | 5875.9 | 5487.8 | 5099.6 | 5185.3 | 5270.9 | 5549.6 | 5827.9 | 5924.9 | 6021.6 | 6008.1 |
| 60°    | 6148.7 | 6155.2 | 5812.0 | 5468.4 | 5554.7 | 5641.1 | 5912.5 | 6183.9 | 6295.4 | 6406.6 | 6376.9 |
| 62.5°  | 6010.6 | 6172.5 | 5989.1 | 5805.4 | 5883.8 | 5961.9 | 6227.8 | 6493.7 | 6608.0 | 6722.3 | 6670.5 |
| 65°    | 5737.4 | 5898.0 | 5980.2 | 6062.4 | 6088.3 | 6114.2 | 6362.4 | 6610.4 | 6698.1 | 6785.4 | 6759.2 |
| 67.5°  | 5390.0 | 5519.9 | 5823.1 | 6125.9 | 6073.8 | 6021.6 | 6138.0 | 6254.4 | 6344.5 | 6434.6 | 6419.8 |
| 70°    | 4987.7 | 5142.4 | 5546.8 | 5951.2 | 5694.9 | 5438.4 | 5390.4 | 5342.4 | 5439.8 | 5536.8 | 5476.7 |
| 72.5°  | 4266.4 | 4499.8 | 4931.1 | 5362.1 | 4890.0 | 4418.0 | 4253.9 | 4089.9 | 4213.2 | 4336.5 | 4240.8 |
| 75°    | 3222.5 | 3532.2 | 4008.8 | 4485.0 | 3921.7 | 3358.5 | 3139.6 | 2920.7 | 3026.7 | 3132.7 | 3067.1 |
| 77.5°  | 2241.1 | 2629.6 | 3098.9 | 3568.1 | 2995.6 | 2422.7 | 2260.1 | 2097.1 | 2128.9 | 2160.3 | 2149.2 |
| 80°    | 1528.0 | 1783.6 | 2110.9 | 2437.9 | 2056.7 | 1675.5 | 1688.2 | 1700.7 | 1685.8 | 1670.6 | 1692.7 |
| 82.5°  | 958.2  | 1138.2 | 1390.9 | 1643.4 | 1441.0 | 1238.6 | 1354.7 | 1470.7 | 1413.7 | 1356.4 | 1377.8 |
| 85°    | 539.7  | 649.5  | 896.8  | 1143.7 | 1066.0 | 987.9  | 1056.0 | 1123.7 | 1035.3 | 946.9  | 985.9  |
| 87.5°  | 102.9  | 171.3  | 496.2  | 820.8  | 745.2  | 669.6  | 581.9  | 494.1  | 377.1  | 260.0  | 379.8  |
| 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-SA2B-727-U-SLL

**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°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2976.6 | 2970.7 | 2964.9 | 2943.8 | 2922.4 | 2890.6 | 2864.4 | 2818.8 | 2793.9 | 2756.3 | 2718.7 |
| 5°     | 3221.4 | 3184.2 | 3146.9 | 3082.6 | 3018.1 | 2946.2 | 2863.7 | 2772.2 | 2703.1 | 2613.3 | 2523.6 |
| 7.5°   | 3346.8 | 3259.8 | 3172.4 | 3049.1 | 2925.5 | 2814.3 | 2683.8 | 2562.2 | 2458.6 | 2341.9 | 2225.2 |
| 10°    | 3358.2 | 3227.7 | 3096.8 | 2936.6 | 2776.0 | 2641.0 | 2490.8 | 2355.7 | 2231.4 | 2097.4 | 1963.1 |
| 12.5°  | 3305.0 | 3166.2 | 3027.0 | 2850.6 | 2673.8 | 2520.5 | 2358.8 | 2207.6 | 2069.8 | 1922.4 | 1774.6 |
| 15°    | 3192.4 | 3081.6 | 2970.4 | 2805.0 | 2639.6 | 2484.9 | 2328.1 | 2148.9 | 1993.2 | 1842.3 | 1691.0 |
| 17.5°  | 3041.5 | 2989.0 | 2936.2 | 2816.7 | 2696.9 | 2562.9 | 2411.0 | 2200.7 | 2018.4 | 1854.3 | 1690.3 |
| 20°    | 2895.5 | 2914.8 | 2933.8 | 2886.1 | 2838.5 | 2731.1 | 2598.5 | 2362.3 | 2129.6 | 1915.1 | 1700.3 |
| 22.5°  | 2771.5 | 2864.4 | 2956.9 | 2993.9 | 3030.5 | 2965.9 | 2862.3 | 2589.2 | 2281.2 | 2001.1 | 1721.1 |
| 25°    | 2681.7 | 2835.7 | 2989.7 | 3112.7 | 3235.3 | 3206.6 | 3126.8 | 2864.7 | 2482.1 | 2125.1 | 1767.7 |
| 27.5°  | 2659.3 | 2848.2 | 3037.0 | 3227.7 | 3417.9 | 3444.5 | 3422.4 | 3155.1 | 2721.8 | 2279.1 | 1836.0 |
| 30°    | 2694.5 | 2885.8 | 3076.8 | 3308.8 | 3540.5 | 3646.5 | 3676.2 | 3397.2 | 2995.6 | 2458.6 | 1921.3 |
| 32.5°  | 2760.1 | 2947.6 | 3135.1 | 3387.9 | 3640.3 | 3800.5 | 3895.2 | 3618.6 | 3186.6 | 2594.0 | 2001.1 |
| 35°    | 2866.1 | 3041.5 | 3217.0 | 3480.1 | 3743.2 | 3950.4 | 4123.1 | 3847.2 | 3356.1 | 2688.6 | 2020.8 |
| 37.5°  | 3051.9 | 3202.8 | 3353.7 | 3596.8 | 3839.6 | 4108.2 | 4367.5 | 4098.9 | 3539.5 | 2779.8 | 2019.7 |
| 40°    | 3332.6 | 3439.3 | 3545.7 | 3751.2 | 3956.3 | 4294.3 | 4644.5 | 4379.6 | 3742.2 | 2878.5 | 2014.9 |
| 42.5°  | 3682.4 | 3737.3 | 3791.9 | 3954.6 | 4117.2 | 4488.8 | 4895.9 | 4654.2 | 3935.6 | 2970.4 | 2005.2 |
| 45°    | 4045.4 | 4059.9 | 4074.4 | 4176.9 | 4279.1 | 4642.8 | 5067.2 | 4860.3 | 4104.4 | 3050.2 | 1995.6 |
| 47.5°  | 4420.4 | 4370.7 | 4320.9 | 4361.7 | 4402.4 | 4760.9 | 5189.4 | 5016.7 | 4274.0 | 3138.6 | 2002.8 |
| 50°    | 4828.9 | 4690.4 | 4551.9 | 4530.5 | 4509.1 | 4879.0 | 5333.4 | 5215.6 | 4477.7 | 3267.4 | 2057.0 |
| 52.5°  | 5244.0 | 5015.7 | 4787.5 | 4702.8 | 4617.9 | 5019.8 | 5524.4 | 5463.2 | 4768.5 | 3467.0 | 2165.1 |
| 55°    | 5624.5 | 5334.1 | 5043.7 | 4929.7 | 4815.8 | 5235.3 | 5757.4 | 5826.9 | 5141.1 | 3722.2 | 2302.9 |
| 57.5°  | 5994.3 | 5665.2 | 5336.2 | 5230.5 | 5124.8 | 5552.0 | 6052.7 | 6153.2 | 5517.4 | 3967.0 | 2416.2 |
| 60°    | 6347.2 | 6021.6 | 5695.6 | 5611.0 | 5526.1 | 5945.6 | 6371.8 | 6298.6 | 5711.5 | 4081.6 | 2451.4 |
| 62.5°  | 6618.7 | 6359.7 | 6100.7 | 6056.1 | 6011.2 | 6343.8 | 6616.9 | 6241.9 | 5588.2 | 3968.7 | 2349.2 |
| 65°    | 6733.0 | 6585.5 | 6437.7 | 6479.5 | 6520.9 | 6644.9 | 6678.1 | 6076.2 | 5200.8 | 3652.4 | 2104.0 |
| 67.5°  | 6404.6 | 6434.6 | 6464.6 | 6640.1 | 6815.1 | 6729.8 | 6496.4 | 5749.5 | 4649.3 | 3204.2 | 1759.0 |
| 70°    | 5416.3 | 5596.5 | 5776.4 | 6191.5 | 6606.2 | 6417.0 | 6009.9 | 5163.2 | 3985.6 | 2687.9 | 1389.9 |
| 72.5°  | 4144.8 | 4347.5 | 4549.9 | 5165.9 | 5781.6 | 5607.2 | 5108.6 | 4240.8 | 3195.5 | 2146.5 | 1097.1 |
| 75°    | 3001.1 | 3230.1 | 3458.7 | 4138.3 | 4817.8 | 4575.8 | 3821.3 | 3036.4 | 2427.2 | 1638.5 | 849.5  |
| 77.5°  | 2137.8 | 2291.2 | 2444.5 | 3115.8 | 3786.7 | 3392.4 | 2543.6 | 2043.2 | 1680.0 | 1138.8 | 597.4  |
| 80°    | 1714.8 | 1667.9 | 1620.9 | 1994.9 | 2368.9 | 2303.3 | 1682.4 | 1312.2 | 1162.7 | 763.1  | 363.6  |
| 82.5°  | 1398.9 | 1284.2 | 1169.6 | 1345.7 | 1521.8 | 1512.1 | 1167.5 | 962.7  | 865.4  | 530.4  | 195.4  |
| 85°    | 1024.6 | 978.6  | 932.7  | 1088.4 | 1244.2 | 1111.2 | 790.8  | 611.9  | 674.7  | 390.6  | 106.4  |
| 87.5°  | 499.7  | 570.8  | 641.6  | 825.3  | 1008.7 | 757.3  | 240.0  | 118.8  | 164.4  | 108.1  | 51.5   |
| 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    |



REPORT NUMBER: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**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: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2690.7 | 2662.4 | 2630.3 | 2598.2 | 2561.5 | 2524.6 | 2502.8 | 2480.7 | 2456.9 | 2433.1 | 2406.2 |
| 5°     | 2464.2 | 2404.8 | 2337.4 | 2270.1 | 2203.5 | 2136.8 | 2100.9 | 2065.0 | 2027.0 | 1988.7 | 1955.5 |
| 7.5°   | 2138.9 | 2052.2 | 1959.0 | 1865.4 | 1782.5 | 1699.3 | 1647.8 | 1596.0 | 1549.1 | 1501.8 | 1462.1 |
| 10°    | 1852.6 | 1742.1 | 1648.5 | 1554.6 | 1492.1 | 1429.6 | 1382.3 | 1335.0 | 1289.4 | 1243.5 | 1199.6 |
| 12.5°  | 1664.1 | 1553.6 | 1494.2 | 1434.8 | 1383.0 | 1331.2 | 1276.6 | 1221.7 | 1159.2 | 1096.4 | 1050.4 |
| 15°    | 1590.5 | 1490.0 | 1424.1 | 1357.8 | 1288.4 | 1218.6 | 1151.6 | 1084.6 | 1010.7 | 936.8  | 884.7  |
| 17.5°  | 1558.8 | 1427.2 | 1335.0 | 1242.4 | 1150.9 | 1059.4 | 981.7  | 904.0  | 823.2  | 742.4  | 689.6  |
| 20°    | 1525.3 | 1350.2 | 1226.6 | 1102.6 | 985.2  | 867.8  | 779.7  | 691.7  | 619.5  | 547.3  | 506.9  |
| 22.5°  | 1494.9 | 1268.3 | 1113.3 | 957.9  | 819.1  | 680.3  | 593.9  | 507.3  | 463.1  | 418.9  | 402.6  |
| 25°    | 1482.4 | 1196.9 | 1006.2 | 815.6  | 669.2  | 522.5  | 461.0  | 399.5  | 382.6  | 365.3  | 357.1  |
| 27.5°  | 1484.5 | 1133.0 | 916.1  | 698.9  | 567.0  | 435.1  | 393.0  | 350.8  | 340.5  | 329.8  | 324.6  |
| 30°    | 1492.5 | 1063.6 | 831.2  | 598.8  | 490.0  | 381.2  | 353.9  | 326.3  | 315.3  | 304.2  | 297.7  |
| 32.5°  | 1501.4 | 1001.4 | 765.6  | 529.4  | 440.6  | 351.5  | 329.1  | 306.3  | 295.6  | 284.9  | 278.3  |
| 35°    | 1485.9 | 950.7  | 720.7  | 490.7  | 408.9  | 326.7  | 307.7  | 288.3  | 276.6  | 264.9  | 258.6  |
| 37.5°  | 1459.6 | 899.5  | 685.8  | 471.7  | 388.1  | 304.2  | 290.4  | 276.3  | 264.2  | 251.7  | 245.9  |
| 40°    | 1435.8 | 856.4  | 659.9  | 463.1  | 376.7  | 290.1  | 278.3  | 266.6  | 254.2  | 241.4  | 234.5  |
| 42.5°  | 1416.5 | 827.4  | 634.3  | 441.3  | 366.4  | 291.1  | 274.5  | 257.6  | 245.5  | 233.4  | 225.8  |
| 45°    | 1402.0 | 808.4  | 614.3  | 420.2  | 356.7  | 293.2  | 272.1  | 251.0  | 239.0  | 226.5  | 217.5  |
| 47.5°  | 1400.6 | 798.4  | 600.2  | 401.9  | 338.4  | 274.5  | 265.9  | 257.3  | 239.6  | 221.7  | 211.3  |
| 50°    | 1419.6 | 782.1  | 583.6  | 384.7  | 320.8  | 256.9  | 268.7  | 280.1  | 250.0  | 219.6  | 206.5  |
| 52.5°  | 1459.3 | 753.5  | 557.3  | 361.2  | 299.4  | 237.2  | 255.5  | 273.5  | 247.6  | 221.3  | 204.4  |
| 55°    | 1507.3 | 711.3  | 517.6  | 323.6  | 271.1  | 218.2  | 234.5  | 250.4  | 234.1  | 217.5  | 197.2  |
| 57.5°  | 1537.3 | 658.2  | 467.6  | 276.9  | 239.3  | 201.7  | 211.0  | 220.0  | 213.4  | 206.8  | 186.1  |
| 60°    | 1519.4 | 587.4  | 411.3  | 234.8  | 211.3  | 187.9  | 186.1  | 184.1  | 193.7  | 203.4  | 179.6  |
| 62.5°  | 1431.7 | 514.2  | 361.5  | 208.9  | 191.3  | 173.3  | 169.5  | 165.4  | 181.3  | 196.8  | 171.6  |
| 65°    | 1283.5 | 463.1  | 330.1  | 197.2  | 177.5  | 157.8  | 153.7  | 149.5  | 154.4  | 159.2  | 147.4  |
| 67.5°  | 1095.3 | 431.6  | 312.2  | 192.7  | 168.9  | 144.7  | 139.9  | 135.0  | 134.0  | 132.9  | 128.8  |
| 70°    | 901.3  | 412.3  | 300.4  | 188.5  | 159.5  | 130.2  | 125.7  | 121.2  | 119.8  | 118.1  | 115.0  |
| 72.5°  | 753.5  | 409.9  | 299.0  | 188.2  | 151.9  | 115.7  | 111.5  | 107.4  | 105.7  | 103.6  | 101.2  |
| 75°    | 617.1  | 384.7  | 283.8  | 183.0  | 141.6  | 99.8   | 96.0   | 92.2   | 90.8   | 89.1   | 87.0   |
| 77.5°  | 457.9  | 318.4  | 238.6  | 158.8  | 121.2  | 83.6   | 79.8   | 75.6   | 75.3   | 74.6   | 72.9   |
| 80°    | 297.0  | 230.3  | 170.6  | 110.8  | 88.4   | 65.6   | 62.5   | 59.0   | 59.4   | 59.7   | 58.4   |
| 82.5°  | 165.1  | 134.3  | 104.3  | 74.2   | 60.4   | 46.6   | 45.2   | 43.5   | 44.5   | 45.2   | 43.5   |
| 85°    | 87.0   | 67.7   | 55.9   | 44.2   | 34.9   | 25.6   | 25.6   | 25.2   | 26.6   | 28.0   | 26.6   |
| 87.5°  | 37.6   | 23.8   | 20.4   | 16.6   | 9.3    | 1.7    | 2.1    | 2.1    | 2.8    | 3.5    | 3.1    |
| 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: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**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  |



REPORT NUMBER: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2378.9 | 2353.7 | 2328.1 | 2300.1 | 2305.3 | 2283.9 | 2262.5 | 2249.0 | 2235.6 | 2231.4 | 2227.3 |
| 5°     | 1922.4 | 1893.7 | 1864.7 | 1838.8 | 1861.2 | 1846.1 | 1830.9 | 1828.8 | 1826.4 | 1826.4 | 1826.0 |
| 7.5°   | 1422.4 | 1391.6 | 1360.5 | 1339.1 | 1361.2 | 1358.5 | 1355.7 | 1370.6 | 1385.4 | 1397.5 | 1409.2 |
| 10°    | 1155.8 | 1118.5 | 1080.8 | 1049.1 | 1043.5 | 1027.7 | 1011.4 | 1014.9 | 1018.0 | 1031.1 | 1044.2 |
| 12.5°  | 1004.5 | 960.0  | 915.4  | 878.1  | 861.2  | 835.0  | 808.4  | 791.8  | 775.2  | 777.0  | 778.3  |
| 15°    | 832.2  | 789.0  | 745.5  | 713.4  | 702.7  | 682.3  | 662.0  | 641.3  | 620.2  | 611.6  | 602.6  |
| 17.5°  | 636.4  | 601.9  | 567.0  | 545.6  | 545.6  | 539.7  | 533.9  | 523.5  | 512.8  | 504.2  | 495.2  |
| 20°    | 466.5  | 448.2  | 429.6  | 420.6  | 423.4  | 423.7  | 423.7  | 428.9  | 434.1  | 431.3  | 428.5  |
| 22.5°  | 386.1  | 379.5  | 372.9  | 369.1  | 370.5  | 370.9  | 371.2  | 376.0  | 380.5  | 384.0  | 387.1  |
| 25°    | 348.4  | 344.3  | 340.1  | 338.8  | 341.9  | 342.2  | 342.2  | 345.3  | 348.4  | 351.9  | 355.3  |
| 27.5°  | 319.1  | 317.3  | 315.6  | 313.2  | 316.3  | 316.3  | 316.0  | 319.4  | 322.5  | 325.6  | 328.4  |
| 30°    | 291.1  | 291.8  | 292.1  | 291.4  | 293.5  | 294.9  | 295.9  | 298.4  | 300.4  | 302.8  | 305.3  |
| 32.5°  | 271.4  | 270.4  | 269.3  | 268.7  | 273.1  | 275.6  | 278.0  | 280.4  | 282.5  | 283.5  | 284.5  |
| 35°    | 252.4  | 250.0  | 247.6  | 245.9  | 250.0  | 253.1  | 256.2  | 260.7  | 264.9  | 265.5  | 266.2  |
| 37.5°  | 239.6  | 236.5  | 233.4  | 231.4  | 233.1  | 234.5  | 235.9  | 240.7  | 245.5  | 248.3  | 250.7  |
| 40°    | 227.6  | 224.5  | 221.3  | 219.6  | 220.7  | 221.0  | 221.3  | 223.8  | 225.8  | 231.0  | 235.9  |
| 42.5°  | 217.9  | 214.1  | 210.3  | 208.2  | 208.9  | 209.6  | 210.0  | 209.6  | 209.3  | 214.1  | 218.9  |
| 45°    | 208.2  | 204.1  | 199.9  | 197.5  | 197.9  | 197.9  | 197.9  | 197.2  | 196.1  | 198.6  | 201.0  |
| 47.5°  | 200.6  | 195.8  | 191.0  | 188.5  | 187.9  | 187.2  | 186.5  | 186.1  | 185.4  | 187.2  | 188.5  |
| 50°    | 193.0  | 187.9  | 182.3  | 179.6  | 177.8  | 177.1  | 176.5  | 176.1  | 175.4  | 177.1  | 178.5  |
| 52.5°  | 187.2  | 180.9  | 174.7  | 170.2  | 168.5  | 167.5  | 166.4  | 166.8  | 166.8  | 167.5  | 167.8  |
| 55°    | 176.8  | 171.3  | 165.4  | 162.3  | 159.2  | 158.5  | 157.8  | 158.8  | 159.5  | 159.5  | 159.5  |
| 57.5°  | 165.4  | 160.2  | 154.7  | 152.6  | 149.9  | 149.9  | 149.5  | 150.9  | 151.9  | 152.6  | 153.3  |
| 60°    | 155.4  | 149.5  | 143.7  | 141.9  | 140.9  | 140.5  | 140.2  | 141.9  | 143.3  | 144.7  | 146.1  |
| 62.5°  | 146.1  | 139.9  | 133.6  | 131.6  | 131.2  | 131.6  | 131.6  | 133.3  | 134.7  | 136.1  | 137.4  |
| 65°    | 135.7  | 129.5  | 122.9  | 120.9  | 121.6  | 122.6  | 123.6  | 125.0  | 126.0  | 127.4  | 128.8  |
| 67.5°  | 124.3  | 119.1  | 113.6  | 111.5  | 111.9  | 113.3  | 114.6  | 115.7  | 116.4  | 117.8  | 119.1  |
| 70°    | 111.9  | 107.4  | 102.9  | 101.5  | 101.2  | 102.9  | 104.3  | 105.0  | 105.7  | 107.4  | 108.8  |
| 72.5°  | 98.4   | 94.6   | 90.8   | 89.8   | 90.1   | 91.2   | 92.2   | 93.2   | 93.9   | 95.7   | 97.0   |
| 75°    | 84.6   | 81.1   | 77.7   | 77.0   | 77.7   | 78.7   | 79.8   | 80.5   | 81.1   | 83.2   | 84.9   |
| 77.5°  | 71.1   | 67.3   | 63.2   | 62.8   | 63.9   | 64.9   | 65.6   | 66.6   | 67.7   | 70.4   | 73.2   |
| 80°    | 57.0   | 52.8   | 48.3   | 48.0   | 49.0   | 50.1   | 51.1   | 52.1   | 53.2   | 56.6   | 59.7   |
| 82.5°  | 41.8   | 36.9   | 32.1   | 31.4   | 34.9   | 35.9   | 36.9   | 38.7   | 40.1   | 43.2   | 46.3   |
| 85°    | 25.2   | 20.4   | 15.5   | 15.2   | 18.3   | 20.0   | 21.8   | 23.8   | 25.6   | 28.3   | 31.1   |
| 87.5°  | 2.8    | 1.4    | 0.0    | 0.0    | 0.3    | 1.7    | 3.1    | 4.8    | 6.6    | 9.3    | 11.7   |
| 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-SA2B-727-U-SLL

**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°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2212.1 | 2196.6 | 2212.4 | 2228.0 | 2234.5 | 2241.1 | 2224.2 | 2206.9 | 2233.8 | 2260.4 | 2267.3 |
| 5°     | 1812.2 | 1798.1 | 1808.8 | 1819.1 | 1796.0 | 1772.8 | 1770.4 | 1767.7 | 1787.7 | 1807.7 | 1810.8 |
| 7.5°   | 1404.7 | 1400.3 | 1410.3 | 1420.3 | 1390.9 | 1361.2 | 1346.7 | 1332.2 | 1337.1 | 1341.9 | 1341.2 |
| 10°    | 1047.3 | 1050.1 | 1062.5 | 1074.6 | 1051.8 | 1029.0 | 1019.0 | 1009.0 | 1020.1 | 1030.8 | 1040.8 |
| 12.5°  | 784.6  | 790.4  | 803.5  | 816.3  | 807.0  | 797.3  | 798.4  | 799.4  | 812.2  | 824.6  | 835.7  |
| 15°    | 609.5  | 616.4  | 625.7  | 634.7  | 635.0  | 635.0  | 644.0  | 652.6  | 651.6  | 650.6  | 658.2  |
| 17.5°  | 504.5  | 513.5  | 514.5  | 515.6  | 515.9  | 516.2  | 515.6  | 514.9  | 509.7  | 504.5  | 510.4  |
| 20°    | 432.0  | 435.1  | 437.9  | 440.3  | 437.2  | 433.7  | 425.1  | 416.5  | 413.0  | 409.5  | 415.1  |
| 22.5°  | 393.0  | 398.5  | 395.7  | 392.6  | 386.4  | 379.8  | 373.3  | 366.4  | 366.0  | 365.3  | 368.5  |
| 25°    | 360.2  | 364.7  | 359.8  | 355.0  | 350.5  | 346.0  | 341.5  | 337.0  | 336.7  | 336.3  | 337.7  |
| 27.5°  | 332.9  | 337.0  | 332.5  | 328.0  | 324.3  | 320.5  | 317.0  | 313.5  | 312.9  | 312.2  | 312.5  |
| 30°    | 309.4  | 313.2  | 309.4  | 305.3  | 302.5  | 299.4  | 297.0  | 294.6  | 294.2  | 293.9  | 293.9  |
| 32.5°  | 288.3  | 292.1  | 289.4  | 286.6  | 284.2  | 281.8  | 280.1  | 278.3  | 276.6  | 274.9  | 271.1  |
| 35°    | 270.0  | 273.8  | 272.1  | 270.0  | 267.3  | 264.5  | 261.4  | 258.0  | 253.5  | 248.6  | 246.6  |
| 37.5°  | 254.5  | 258.3  | 256.6  | 254.8  | 251.0  | 247.2  | 241.7  | 235.9  | 234.5  | 232.7  | 232.4  |
| 40°    | 242.1  | 247.9  | 244.5  | 240.7  | 234.8  | 228.9  | 226.2  | 223.4  | 222.7  | 222.0  | 221.3  |
| 42.5°  | 228.3  | 237.2  | 231.0  | 224.8  | 219.3  | 213.8  | 213.1  | 212.4  | 212.0  | 211.7  | 211.7  |
| 45°    | 211.0  | 220.7  | 214.4  | 207.9  | 204.8  | 201.7  | 201.7  | 201.7  | 202.0  | 202.0  | 202.7  |
| 47.5°  | 194.8  | 200.6  | 197.5  | 194.4  | 192.7  | 191.0  | 191.3  | 191.6  | 192.7  | 193.4  | 195.1  |
| 50°    | 180.9  | 183.0  | 183.7  | 184.1  | 183.0  | 182.0  | 182.7  | 183.0  | 184.1  | 184.7  | 186.1  |
| 52.5°  | 170.9  | 174.0  | 174.0  | 173.7  | 173.7  | 173.7  | 174.4  | 175.1  | 176.1  | 177.1  | 178.5  |
| 55°    | 164.4  | 168.9  | 167.5  | 166.1  | 166.4  | 166.4  | 167.1  | 167.8  | 168.9  | 169.5  | 171.6  |
| 57.5°  | 158.2  | 163.0  | 161.6  | 160.2  | 160.2  | 160.2  | 160.6  | 160.9  | 162.0  | 162.6  | 164.0  |
| 60°    | 150.9  | 155.7  | 154.4  | 152.6  | 153.0  | 153.3  | 153.7  | 153.7  | 154.4  | 154.7  | 154.7  |
| 62.5°  | 142.3  | 147.1  | 145.7  | 144.0  | 145.0  | 145.7  | 145.7  | 145.7  | 146.4  | 146.8  | 145.7  |
| 65°    | 133.3  | 137.8  | 136.4  | 135.0  | 136.4  | 137.4  | 138.1  | 138.5  | 138.1  | 137.8  | 136.7  |
| 67.5°  | 123.6  | 128.1  | 126.7  | 125.0  | 126.7  | 128.1  | 129.5  | 130.5  | 129.5  | 128.5  | 127.1  |
| 70°    | 113.3  | 117.8  | 116.0  | 114.3  | 116.0  | 117.8  | 119.1  | 120.5  | 119.1  | 117.8  | 117.4  |
| 72.5°  | 102.2  | 107.4  | 105.3  | 103.2  | 105.3  | 107.4  | 108.1  | 108.8  | 107.7  | 106.7  | 106.0  |
| 75°    | 90.1   | 95.3   | 93.6   | 91.5   | 93.2   | 95.0   | 95.3   | 95.7   | 95.7   | 95.3   | 93.2   |
| 77.5°  | 77.4   | 81.5   | 80.5   | 79.4   | 80.5   | 81.5   | 81.5   | 81.5   | 81.8   | 81.8   | 79.1   |
| 80°    | 62.2   | 64.6   | 64.9   | 65.3   | 65.6   | 66.0   | 65.6   | 65.3   | 64.6   | 63.9   | 62.2   |
| 82.5°  | 46.3   | 46.3   | 49.0   | 51.5   | 51.5   | 51.1   | 50.8   | 50.1   | 48.7   | 47.0   | 43.2   |
| 85°    | 29.4   | 27.6   | 32.1   | 36.3   | 36.3   | 35.9   | 35.2   | 34.2   | 31.4   | 28.3   | 25.2   |
| 87.5°  | 10.0   | 8.3    | 12.8   | 17.3   | 17.6   | 17.6   | 16.9   | 16.2   | 13.5   | 10.4   | 7.9    |
| 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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**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: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2277.7 | 2282.2 | 2286.3 | 2320.2 | 2353.7 | 2393.0 | 2432.4 | 2462.4 | 2492.1 | 2522.9 | 2553.6 |
| 5°     | 1821.5 | 1827.1 | 1832.6 | 1873.7 | 1914.4 | 1969.3 | 2024.2 | 2071.5 | 2118.9 | 2174.5 | 2230.0 |
| 7.5°   | 1350.2 | 1362.3 | 1374.0 | 1417.9 | 1461.4 | 1520.4 | 1579.1 | 1640.9 | 1702.4 | 1774.9 | 1847.4 |
| 10°    | 1060.5 | 1083.3 | 1105.7 | 1150.6 | 1195.5 | 1253.8 | 1311.9 | 1376.4 | 1441.0 | 1512.5 | 1583.6 |
| 12.5°  | 858.5  | 888.8  | 918.9  | 972.8  | 1026.6 | 1096.4 | 1165.8 | 1237.6 | 1309.1 | 1371.9 | 1434.8 |
| 15°    | 678.2  | 711.3  | 744.2  | 801.1  | 858.1  | 934.8  | 1011.1 | 1089.5 | 1167.5 | 1242.8 | 1318.1 |
| 17.5°  | 529.0  | 556.3  | 583.2  | 631.6  | 679.6  | 753.8  | 828.1  | 910.3  | 992.4  | 1084.3 | 1175.8 |
| 20°    | 426.8  | 438.2  | 449.6  | 484.5  | 519.0  | 579.4  | 639.5  | 723.4  | 807.3  | 917.2  | 1027.0 |
| 22.5°  | 374.0  | 379.8  | 385.4  | 402.3  | 418.9  | 457.9  | 496.6  | 570.8  | 644.7  | 764.5  | 884.0  |
| 25°    | 342.2  | 346.7  | 351.2  | 362.2  | 373.3  | 391.9  | 410.6  | 462.7  | 514.9  | 632.6  | 750.0  |
| 27.5°  | 313.5  | 320.5  | 327.0  | 332.2  | 337.0  | 349.8  | 362.2  | 396.4  | 430.6  | 540.4  | 649.9  |
| 30°    | 292.8  | 295.2  | 297.7  | 305.6  | 313.2  | 326.3  | 339.4  | 363.3  | 387.1  | 480.0  | 572.5  |
| 32.5°  | 268.7  | 272.1  | 275.6  | 283.8  | 292.1  | 304.2  | 316.3  | 335.6  | 354.6  | 434.1  | 513.1  |
| 35°    | 246.9  | 250.4  | 253.8  | 262.1  | 270.0  | 283.2  | 295.9  | 312.2  | 328.0  | 397.1  | 466.2  |
| 37.5°  | 233.4  | 236.9  | 240.3  | 247.6  | 254.5  | 267.6  | 280.4  | 293.2  | 305.6  | 369.5  | 433.4  |
| 40°    | 222.0  | 225.5  | 228.9  | 235.9  | 242.4  | 255.2  | 267.6  | 278.3  | 289.0  | 348.8  | 408.5  |
| 42.5°  | 212.0  | 215.8  | 219.6  | 226.5  | 233.1  | 244.5  | 255.9  | 270.0  | 283.8  | 330.8  | 377.4  |
| 45°    | 203.7  | 207.5  | 211.0  | 218.6  | 226.2  | 237.2  | 248.3  | 268.0  | 287.6  | 321.5  | 355.3  |
| 47.5°  | 196.1  | 200.3  | 204.1  | 212.4  | 220.7  | 234.5  | 247.9  | 264.5  | 280.7  | 314.2  | 347.7  |
| 50°    | 188.9  | 193.7  | 198.6  | 208.6  | 218.2  | 241.4  | 264.2  | 266.6  | 268.7  | 308.4  | 347.7  |
| 52.5°  | 182.0  | 187.5  | 193.0  | 205.5  | 217.5  | 244.5  | 271.4  | 262.8  | 253.8  | 297.3  | 340.8  |
| 55°    | 175.1  | 179.9  | 184.4  | 199.6  | 214.8  | 234.5  | 254.2  | 242.8  | 231.0  | 276.6  | 322.2  |
| 57.5°  | 165.8  | 170.9  | 175.8  | 192.0  | 208.2  | 222.0  | 235.5  | 225.1  | 214.4  | 253.1  | 291.4  |
| 60°    | 156.1  | 162.0  | 167.8  | 188.5  | 208.9  | 206.5  | 203.7  | 201.7  | 199.2  | 226.9  | 254.5  |
| 62.5°  | 147.4  | 153.7  | 159.9  | 186.8  | 213.8  | 197.2  | 180.6  | 182.3  | 183.7  | 204.1  | 224.5  |
| 65°    | 138.8  | 145.0  | 150.9  | 164.4  | 177.8  | 171.3  | 164.7  | 167.5  | 169.9  | 189.9  | 210.0  |
| 67.5°  | 129.1  | 134.7  | 139.9  | 144.3  | 148.8  | 149.5  | 150.2  | 153.0  | 155.7  | 179.6  | 203.0  |
| 70°    | 118.4  | 122.9  | 127.4  | 130.5  | 133.3  | 134.7  | 135.7  | 139.2  | 142.6  | 168.5  | 194.4  |
| 72.5°  | 106.4  | 110.2  | 113.6  | 116.4  | 119.1  | 120.2  | 120.9  | 124.3  | 127.8  | 155.4  | 183.0  |
| 75°    | 93.2   | 96.3   | 99.1   | 101.5  | 103.9  | 105.3  | 106.7  | 109.1  | 111.5  | 141.6  | 171.3  |
| 77.5°  | 78.7   | 81.8   | 84.6   | 86.7   | 88.4   | 89.8   | 90.8   | 93.9   | 97.0   | 122.2  | 147.1  |
| 80°    | 61.5   | 65.3   | 68.7   | 70.4   | 71.8   | 72.2   | 72.2   | 74.9   | 77.7   | 95.7   | 113.3  |
| 82.5°  | 43.5   | 47.7   | 51.5   | 52.8   | 54.2   | 54.2   | 54.2   | 57.3   | 60.4   | 72.5   | 84.3   |
| 85°    | 25.6   | 30.0   | 34.2   | 35.6   | 36.9   | 37.6   | 38.0   | 39.4   | 40.4   | 49.0   | 57.3   |
| 87.5°  | 7.9    | 11.7   | 15.2   | 15.9   | 16.6   | 18.0   | 19.3   | 19.7   | 19.7   | 25.6   | 31.4   |
| 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    |



REPORT NUMBER: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**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  |



REPORT NUMBER: P362148  
 CATALOG NUMBER: NVN-SA2B-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 2.5°   | 2588.8 | 2624.1 | 2665.1 | 2705.9 | 2740.8 | 2775.6 | 2804.7 |
| 5°     | 2300.8 | 2371.6 | 2458.3 | 2544.6 | 2621.6 | 2698.6 | 2788.1 |
| 7.5°   | 1938.9 | 2030.5 | 2142.7 | 2254.9 | 2363.7 | 2472.1 | 2609.5 |
| 10°    | 1676.9 | 1769.7 | 1888.5 | 2007.0 | 2129.2 | 2251.1 | 2406.5 |
| 12.5°  | 1510.4 | 1585.7 | 1700.7 | 1815.7 | 1959.3 | 2102.6 | 2252.1 |
| 15°    | 1400.6 | 1482.8 | 1594.7 | 1706.5 | 1863.7 | 2020.8 | 2192.8 |
| 17.5°  | 1283.5 | 1390.9 | 1534.2 | 1677.5 | 1863.7 | 2049.4 | 2252.1 |
| 20°    | 1161.0 | 1294.6 | 1480.4 | 1666.1 | 1916.8 | 2167.2 | 2425.8 |
| 22.5°  | 1038.7 | 1193.4 | 1431.7 | 1669.6 | 1997.3 | 2324.7 | 2673.8 |
| 25°    | 928.6  | 1107.1 | 1402.0 | 1696.5 | 2114.4 | 2531.9 | 2964.9 |
| 27.5°  | 845.0  | 1039.7 | 1389.9 | 1739.7 | 2262.9 | 2786.0 | 3281.5 |
| 30°    | 770.7  | 969.0  | 1375.4 | 1781.8 | 2405.8 | 3029.5 | 3529.1 |
| 32.5°  | 706.5  | 899.9  | 1347.4 | 1794.6 | 2505.6 | 3216.6 | 3738.7 |
| 35°    | 656.1  | 846.0  | 1300.5 | 1754.9 | 2568.1 | 3381.3 | 3957.0 |
| 37.5°  | 612.6  | 791.8  | 1246.9 | 1702.1 | 2623.7 | 3545.4 | 4202.5 |
| 40°    | 571.2  | 733.8  | 1201.0 | 1667.9 | 2700.4 | 3732.9 | 4461.8 |
| 42.5°  | 531.8  | 686.1  | 1164.1 | 1642.0 | 2771.5 | 3900.7 | 4688.7 |
| 45°    | 502.4  | 649.5  | 1131.3 | 1612.6 | 2817.4 | 4022.2 | 4859.6 |
| 47.5°  | 487.9  | 627.8  | 1113.6 | 1599.2 | 2863.4 | 4127.2 | 5001.5 |
| 50°    | 485.9  | 624.0  | 1133.7 | 1643.4 | 2962.8 | 4281.9 | 5163.8 |
| 52.5°  | 485.5  | 630.2  | 1191.3 | 1752.5 | 3147.5 | 4542.3 | 5339.6 |
| 55°    | 478.3  | 634.0  | 1260.1 | 1885.8 | 3395.5 | 4904.9 | 5655.6 |
| 57.5°  | 456.2  | 620.9  | 1330.8 | 2040.5 | 3657.6 | 5274.3 | 6011.6 |
| 60°    | 422.0  | 589.1  | 1389.2 | 2189.0 | 3833.7 | 5478.1 | 6148.7 |
| 62.5°  | 379.2  | 533.5  | 1408.5 | 2283.2 | 3828.9 | 5374.5 | 6010.6 |
| 65°    | 342.6  | 475.2  | 1345.0 | 2214.5 | 3635.1 | 5055.4 | 5737.4 |
| 67.5°  | 310.1  | 416.8  | 1186.2 | 1955.2 | 3286.7 | 4617.9 | 5390.0 |
| 70°    | 286.6  | 378.5  | 981.4  | 1584.3 | 2850.6 | 4116.5 | 4987.7 |
| 72.5°  | 271.8  | 360.2  | 800.1  | 1239.7 | 2313.3 | 3386.5 | 4266.4 |
| 75°    | 251.4  | 331.5  | 627.8  | 923.7  | 1770.4 | 2617.1 | 3222.5 |
| 77.5°  | 213.4  | 279.4  | 473.1  | 666.8  | 1299.1 | 1931.0 | 2241.1 |
| 80°    | 164.7  | 215.8  | 325.3  | 434.8  | 894.0  | 1353.3 | 1528.0 |
| 82.5°  | 117.4  | 150.6  | 197.2  | 243.8  | 593.9  | 943.7  | 958.2  |
| 85°    | 72.5   | 87.7   | 112.9  | 138.1  | 393.0  | 647.8  | 539.7  |
| 87.5°  | 39.0   | 46.6   | 59.7   | 72.5   | 125.7  | 178.9  | 102.9  |
| 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: P362148  
CATALOG NUMBER: NVN-SA2B-727-U-SLL

**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

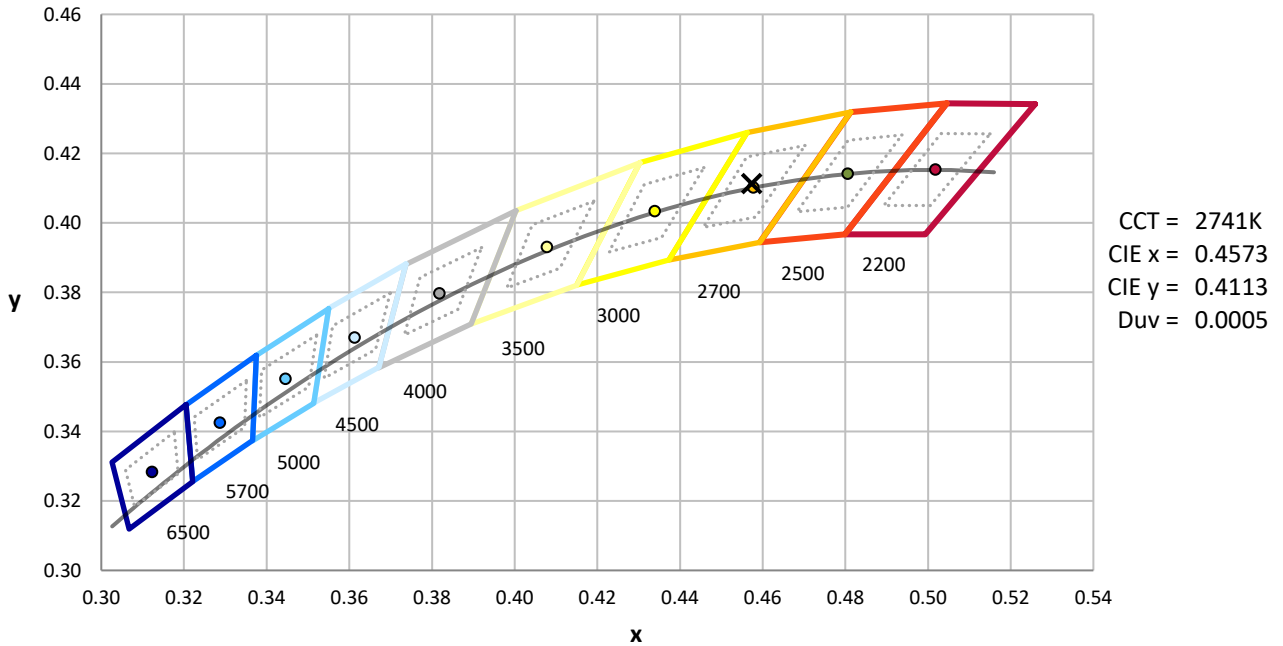
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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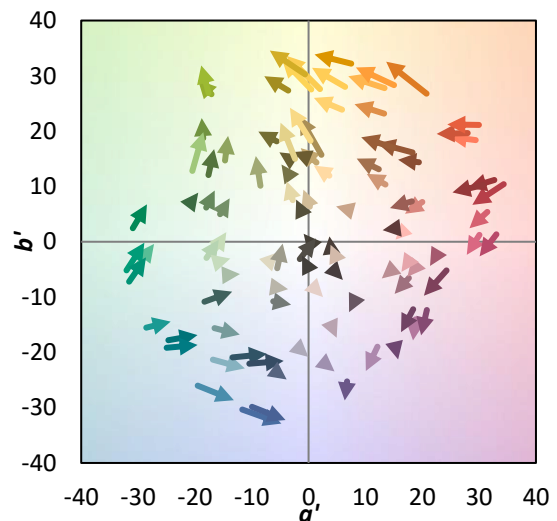
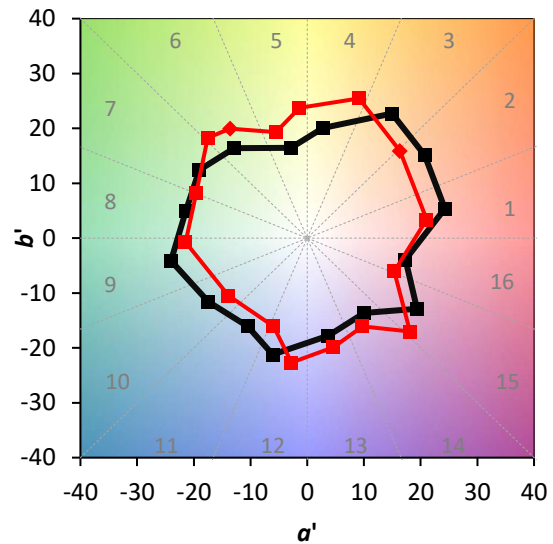
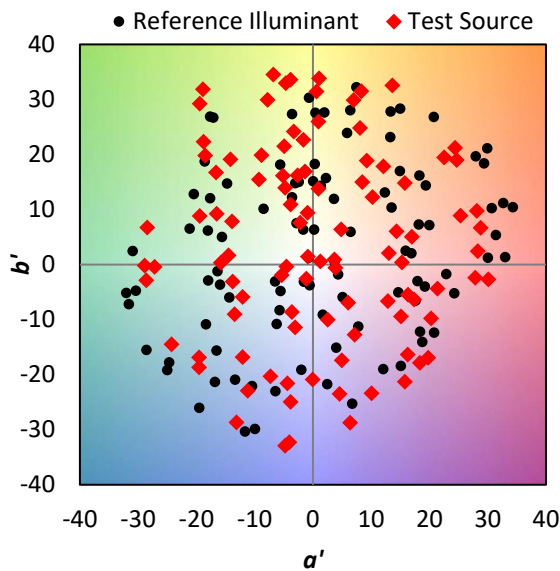
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**Summary**

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



**Color Vector Graphics**



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

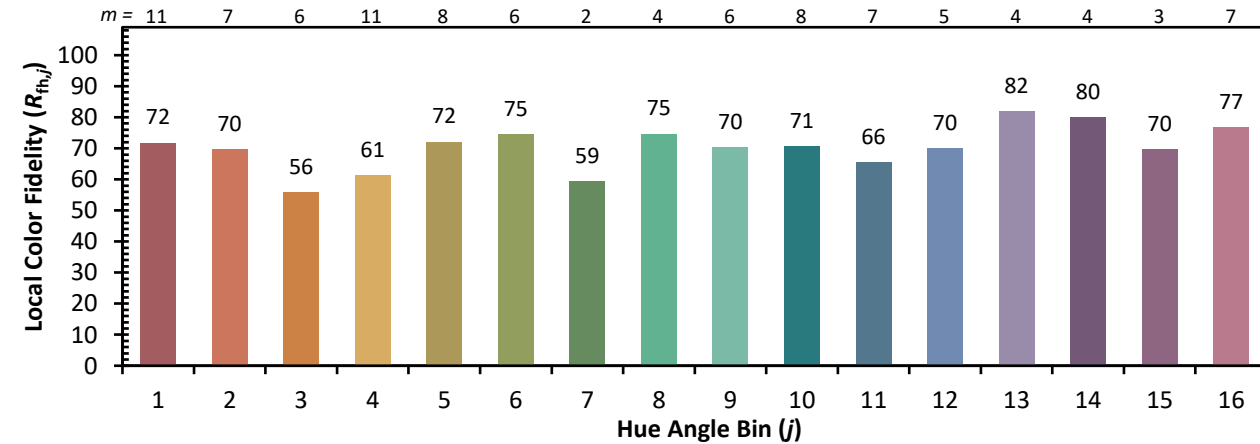
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 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)