

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: P362223

Luminaire Tested: NVN-SA5B-827-U-SLL

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-2019  
Report Number: P362223  
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-SA5B-827-U-SLL  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(5) 80 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: 18743 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 210  
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

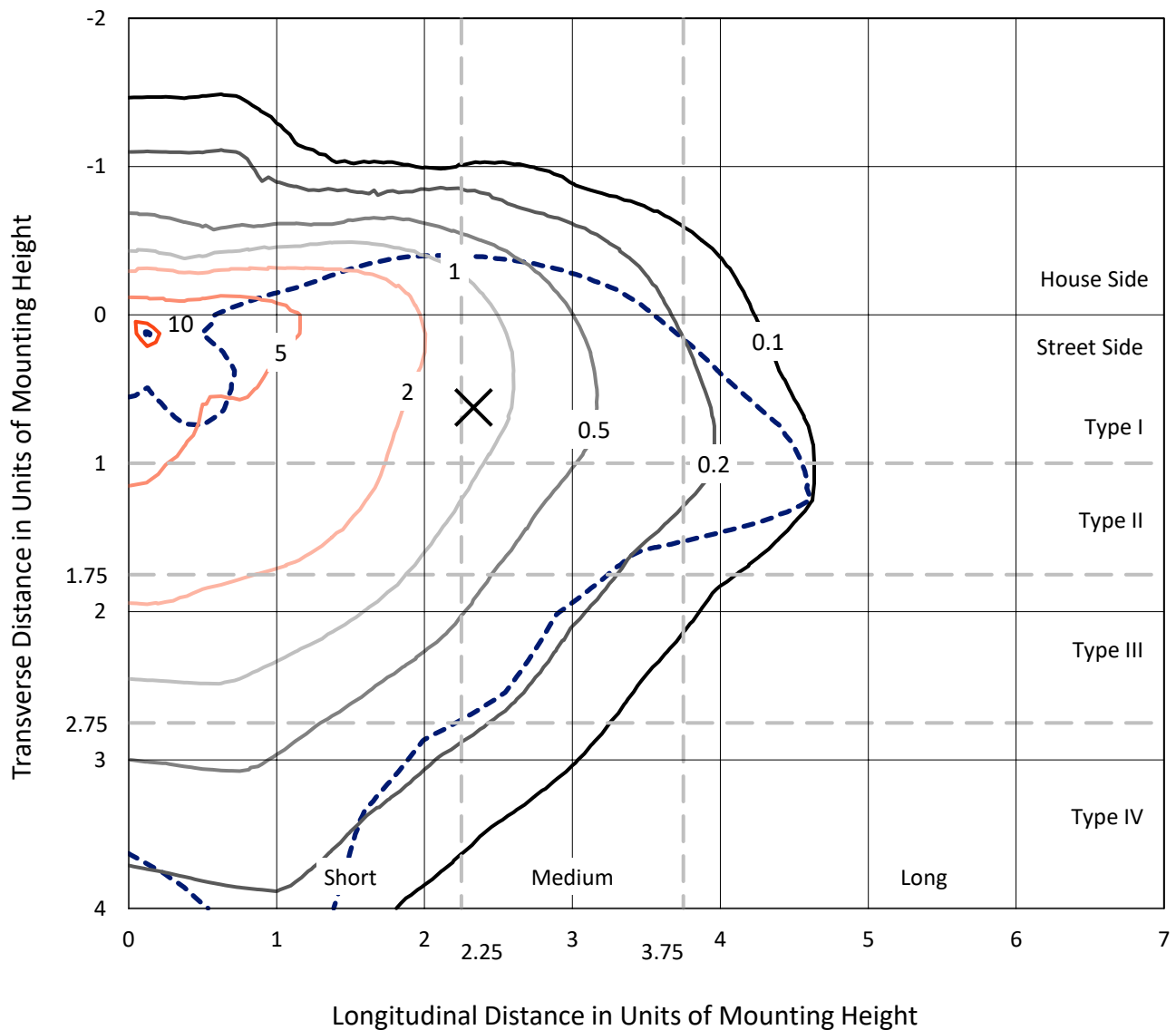


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## Iso-Footcandle Lines of Horizontal Illumination

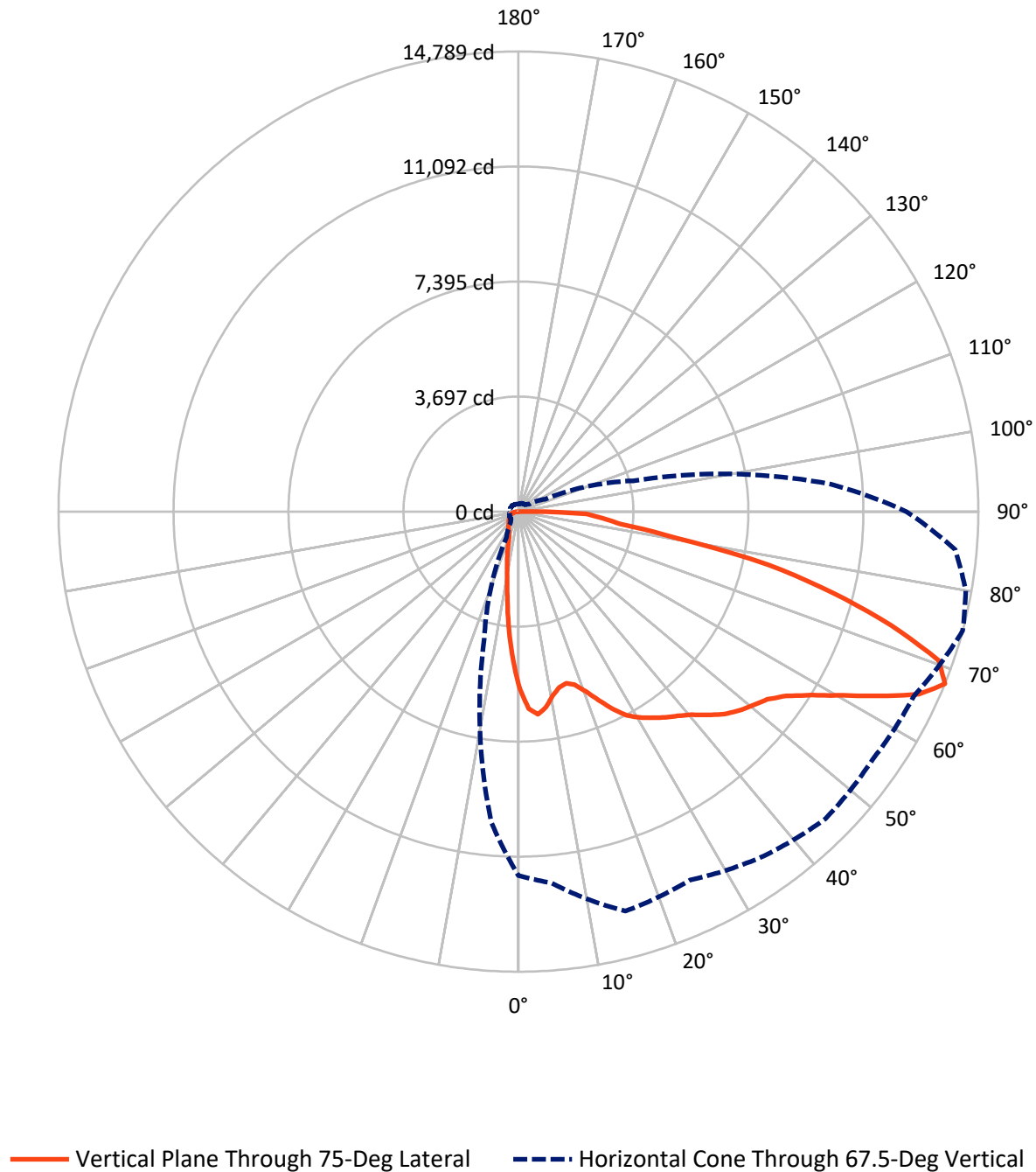
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3301.1   | 0.0    | 3301.1  |
|                    | % Fixture | 17.6     | 0.0    | 17.6    |
| <b>Street Side</b> | Lumens    | 15441.9  | 0.0    | 15441.9 |
|                    | % Fixture | 82.4     | 0.0    | 82.4    |
| <b>Total</b>       | Lumens    | 18743.0  | 0.0    | 18743.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 440.7   | 2.4       |
| 10°-20°   | 915.5   | 4.9       |
| 20°-30°   | 1302.0  | 6.9       |
| 30°-40°   | 1876.2  | 10.0      |
| 40°-50°   | 2644.2  | 14.1      |
| 50°-60°   | 3675.8  | 19.6      |
| 60°-70°   | 4445.2  | 23.7      |
| 70°-80°   | 2732.4  | 14.6      |
| 80°-90°   | 711.0   | 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°    | 18743.0 | 100.0     |
| 0°-180°   | 18743.0 | 100.0     |

**Coefficient of Utilization**



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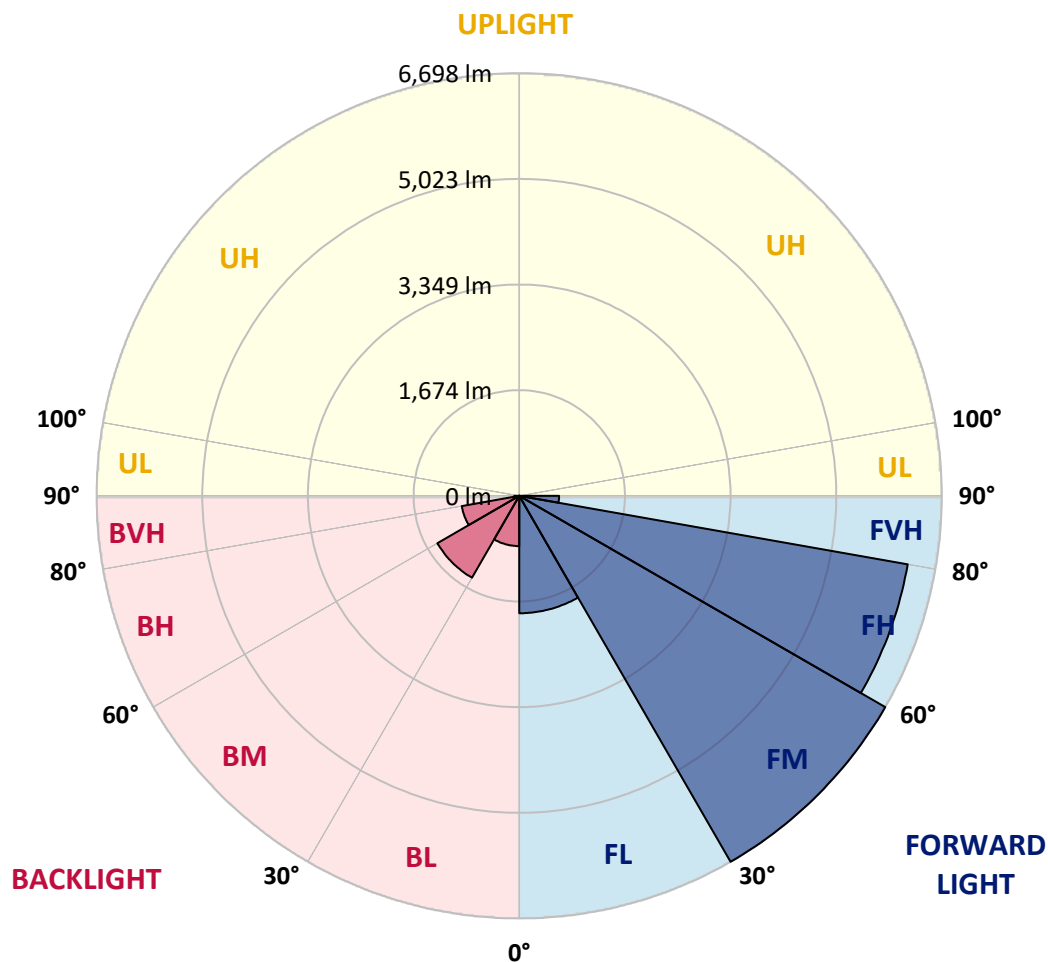
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1861.0 | 9.9       |                         |      |         |
| FM   | (30°-60°)   | 6697.8 | 35.7      |                         |      |         |
| FH   | (60°-80°)   | 6252.0 | 33.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 631.1  | 3.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 797.3  | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1498.5 | 8.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 925.5  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 79.9   | 0.4       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  |
| 2.5°   | 6086.3  | 6166.5  | 6222.0  | 6276.7  | 6319.4  | 6361.3  | 6422.8  | 6484.2  | 6496.2  | 6507.5  | 6483.5  |
| 5°     | 6050.4  | 6245.9  | 6412.3  | 6577.9  | 6731.5  | 6885.1  | 6977.3  | 7069.5  | 7088.2  | 7107.0  | 7049.3  |
| 7.5°   | 5662.9  | 5951.4  | 6239.9  | 6528.4  | 6793.0  | 7057.5  | 7218.6  | 7379.0  | 7415.7  | 7451.7  | 7357.2  |
| 10°    | 5222.3  | 5558.0  | 5912.5  | 6266.9  | 6615.4  | 6963.8  | 7196.9  | 7429.9  | 7476.4  | 7522.9  | 7405.2  |
| 12.5°  | 4887.3  | 5253.8  | 5632.2  | 6010.6  | 6378.6  | 6745.8  | 6987.1  | 7228.4  | 7286.1  | 7343.8  | 7258.3  |
| 15°    | 4758.5  | 5160.1  | 5516.1  | 5872.0  | 6192.7  | 6512.7  | 6710.5  | 6907.6  | 6931.6  | 6954.8  | 6941.3  |
| 17.5°  | 4887.3  | 5330.2  | 5652.4  | 5973.9  | 6148.5  | 6322.4  | 6401.8  | 6480.5  | 6506.7  | 6532.2  | 6566.7  |
| 20°    | 5264.3  | 5742.4  | 5969.4  | 6195.7  | 6188.2  | 6180.0  | 6141.8  | 6102.8  | 6096.1  | 6089.3  | 6186.7  |
| 22.5°  | 5802.3  | 6357.6  | 6448.3  | 6538.2  | 6327.6  | 6117.0  | 5988.9  | 5860.0  | 5834.5  | 5808.3  | 5911.7  |
| 25°    | 6434.0  | 7025.3  | 7008.8  | 6991.6  | 6590.6  | 6189.0  | 5944.7  | 5700.4  | 5671.9  | 5643.4  | 5731.9  |
| 27.5°  | 7121.2  | 7686.2  | 7578.3  | 7470.4  | 6925.6  | 6380.8  | 6026.4  | 5671.9  | 5643.4  | 5615.0  | 5692.9  |
| 30°    | 7658.5  | 8171.0  | 7997.9  | 7824.8  | 7208.1  | 6591.4  | 6170.3  | 5749.1  | 5702.6  | 5655.4  | 5751.4  |
| 32.5°  | 8113.3  | 8549.5  | 8317.2  | 8084.9  | 7437.4  | 6790.0  | 6334.4  | 5878.7  | 5806.1  | 5733.4  | 5861.5  |
| 35°    | 8586.9  | 8927.2  | 8600.4  | 8273.0  | 7642.0  | 7010.3  | 6528.4  | 6045.9  | 5956.7  | 5867.5  | 6043.6  |
| 37.5°  | 9119.7  | 9402.3  | 8933.2  | 8463.3  | 7872.1  | 7280.8  | 6819.2  | 6356.8  | 6265.4  | 6174.0  | 6398.8  |
| 40°    | 9682.5  | 9917.8  | 9292.1  | 8666.4  | 8123.8  | 7581.3  | 7221.6  | 6861.2  | 6774.2  | 6686.6  | 6959.3  |
| 42.5°  | 10174.8 | 10346.4 | 9626.3  | 8906.2  | 8427.3  | 7947.7  | 7694.5  | 7440.4  | 7439.7  | 7438.2  | 7714.7  |
| 45°    | 10545.8 | 10694.9 | 9905.1  | 9114.5  | 8723.3  | 8331.4  | 8199.5  | 8067.6  | 8173.3  | 8279.0  | 8529.2  |
| 47.5°  | 10853.8 | 10954.9 | 10138.9 | 9322.1  | 9062.0  | 8802.0  | 8821.5  | 8841.0  | 9056.0  | 9271.1  | 9432.2  |
| 50°    | 11206.0 | 11124.3 | 10350.9 | 9576.9  | 9496.7  | 9416.5  | 9591.8  | 9766.4  | 10013.7 | 10260.3 | 10369.7 |
| 52.5°  | 11587.4 | 11370.8 | 10638.7 | 9905.8  | 9995.7  | 10085.7 | 10442.4 | 10799.1 | 11048.6 | 11298.1 | 11339.4 |
| 55°    | 12273.1 | 11941.1 | 11167.8 | 10393.7 | 10566.8 | 10739.1 | 11262.9 | 11786.0 | 11980.8 | 12175.6 | 12190.6 |
| 57.5°  | 13045.7 | 12751.2 | 11908.9 | 11066.6 | 11252.4 | 11438.3 | 12043.0 | 12647.0 | 12857.6 | 13067.4 | 13038.2 |
| 60°    | 13343.1 | 13357.4 | 12612.5 | 11866.9 | 12054.2 | 12241.6 | 12830.6 | 13419.6 | 13661.6 | 13902.9 | 13838.5 |
| 62.5°  | 13043.4 | 13394.9 | 12996.9 | 12598.3 | 12768.4 | 12937.7 | 13514.8 | 14091.8 | 14339.8 | 14587.8 | 14475.4 |
| 65°    | 12450.7 | 12799.1 | 12977.5 | 13155.8 | 13212.0 | 13268.2 | 13807.0 | 14345.0 | 14535.4 | 14725.0 | 14668.0 |
| 67.5°  | 11696.8 | 11978.6 | 12636.5 | 13293.7 | 13180.5 | 13067.4 | 13319.9 | 13572.5 | 13768.0 | 13963.6 | 13931.4 |
| 70°    | 10823.8 | 11159.5 | 12037.0 | 12914.5 | 12358.5 | 11801.7 | 11697.5 | 11593.4 | 11804.7 | 12015.3 | 11884.9 |
| 72.5°  | 9258.4  | 9764.9  | 10700.9 | 11636.1 | 10611.7 | 9587.3  | 9231.4  | 8875.5  | 9143.0  | 9410.5  | 9202.9  |
| 75°    | 6993.1  | 7665.2  | 8699.4  | 9732.7  | 8510.5  | 7288.3  | 6813.2  | 6338.1  | 6568.2  | 6798.2  | 6655.8  |
| 77.5°  | 4863.4  | 5706.4  | 6724.8  | 7743.2  | 6500.7  | 5257.5  | 4904.6  | 4550.9  | 4619.8  | 4688.0  | 4664.0  |
| 80°    | 3315.9  | 3870.5  | 4580.9  | 5290.5  | 4463.2  | 3635.9  | 3663.6  | 3690.6  | 3658.4  | 3625.4  | 3673.4  |
| 82.5°  | 2079.5  | 2469.9  | 3018.4  | 3566.2  | 3127.1  | 2688.0  | 2939.7  | 3191.5  | 3067.9  | 2943.5  | 2990.0  |
| 85°    | 1171.3  | 1409.6  | 1946.1  | 2481.9  | 2313.3  | 2143.9  | 2291.6  | 2438.4  | 2246.6  | 2054.8  | 2139.4  |
| 87.5°  | 223.3   | 371.7   | 1076.8  | 1781.2  | 1617.1  | 1453.0  | 1262.7  | 1072.3  | 818.3   | 564.3   | 824.3   |
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|        | 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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CATALOG NUMBER: NVN-SA5B-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°   | 105°   |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°     | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1  | 5710.1 | 5710.1 |
| 2.5°   | 6459.5  | 6446.8  | 6434.0  | 6388.3  | 6341.9  | 6272.9  | 6216.0  | 6117.0  | 6063.1  | 5981.4 | 5899.7 |
| 5°     | 6990.8  | 6909.9  | 6828.9  | 6689.6  | 6549.4  | 6393.6  | 6214.5  | 6015.9  | 5866.0  | 5671.2 | 5476.3 |
| 7.5°   | 7262.8  | 7074.0  | 6884.4  | 6616.9  | 6348.6  | 6107.3  | 5824.0  | 5560.3  | 5335.5  | 5082.2 | 4828.9 |
| 10°    | 7287.6  | 7004.3  | 6720.3  | 6372.6  | 6024.1  | 5731.1  | 5405.2  | 5112.2  | 4842.4  | 4551.6 | 4260.1 |
| 12.5°  | 7172.1  | 6870.9  | 6568.9  | 6186.0  | 5802.3  | 5469.6  | 5118.9  | 4790.7  | 4491.7  | 4171.7 | 3851.0 |
| 15°    | 6927.9  | 6687.3  | 6446.0  | 6087.1  | 5728.1  | 5392.4  | 5052.2  | 4663.3  | 4325.3  | 3997.8 | 3669.6 |
| 17.5°  | 6600.4  | 6486.5  | 6371.8  | 6112.6  | 5852.5  | 5561.8  | 5232.0  | 4775.7  | 4380.0  | 4024.1 | 3668.1 |
| 20°    | 6283.4  | 6325.4  | 6366.6  | 6263.2  | 6159.8  | 5926.7  | 5639.0  | 5126.4  | 4621.3  | 4156.0 | 3689.9 |
| 22.5°  | 6014.4  | 6216.0  | 6416.8  | 6497.0  | 6576.4  | 6436.3  | 6211.5  | 5618.7  | 4950.3  | 4342.6 | 3734.8 |
| 25°    | 5819.5  | 6153.8  | 6488.0  | 6754.8  | 7020.8  | 6958.6  | 6785.5  | 6216.7  | 5386.4  | 4611.6 | 3836.0 |
| 27.5°  | 5770.8  | 6180.7  | 6590.6  | 7004.3  | 7417.2  | 7474.9  | 7426.9  | 6846.9  | 5906.5  | 4945.8 | 3984.4 |
| 30°    | 5847.3  | 6262.4  | 6676.8  | 7180.4  | 7683.2  | 7913.3  | 7977.7  | 7372.2  | 6500.7  | 5335.5 | 4169.5 |
| 32.5°  | 5989.7  | 6396.6  | 6803.5  | 7352.0  | 7899.8  | 8247.5  | 8452.8  | 7852.6  | 6915.1  | 5629.2 | 4342.6 |
| 35°    | 6219.7  | 6600.4  | 6981.1  | 7552.1  | 8123.1  | 8572.7  | 8947.4  | 8348.6  | 7283.1  | 5834.5 | 4385.3 |
| 37.5°  | 6622.9  | 6950.3  | 7277.8  | 7805.4  | 8332.2  | 8915.2  | 9477.9  | 8894.9  | 7681.0  | 6032.4 | 4383.0 |
| 40°    | 7232.1  | 7463.7  | 7694.5  | 8140.3  | 8585.4  | 9319.1  | 10078.9 | 9504.2  | 8120.8  | 6246.7 | 4372.5 |
| 42.5°  | 7991.2  | 8110.4  | 8228.8  | 8581.7  | 8934.6  | 9741.0  | 10624.5 | 10099.9 | 8540.5  | 6446.0 | 4351.5 |
| 45°    | 8778.8  | 8810.3  | 8841.7  | 9064.3  | 9286.1  | 10075.2 | 10996.1 | 10547.3 | 8906.9  | 6619.1 | 4330.6 |
| 47.5°  | 9592.6  | 9484.7  | 9376.8  | 9465.2  | 9553.6  | 10331.5 | 11261.4 | 10886.7 | 9274.9  | 6811.0 | 4346.3 |
| 50°    | 10479.1 | 10178.6 | 9878.1  | 9831.6  | 9785.2  | 10587.7 | 11573.9 | 11318.4 | 9717.0  | 7090.5 | 4464.0 |
| 52.5°  | 11379.8 | 10884.5 | 10389.2 | 10205.6 | 10021.2 | 10893.5 | 11988.3 | 11855.7 | 10347.9 | 7523.6 | 4698.5 |
| 55°    | 12205.6 | 11575.4 | 10945.2 | 10697.9 | 10450.6 | 11361.1 | 12494.1 | 12644.7 | 11156.5 | 8077.4 | 4997.5 |
| 57.5°  | 13008.2 | 12294.0 | 11579.9 | 11350.6 | 11121.3 | 12048.3 | 13134.8 | 13352.9 | 11973.3 | 8608.7 | 5243.3 |
| 60°    | 13774.0 | 13067.4 | 12360.0 | 12176.4 | 11992.0 | 12902.5 | 13827.2 | 13668.4 | 12394.5 | 8857.5 | 5319.7 |
| 62.5°  | 14363.0 | 13801.0 | 13239.0 | 13142.3 | 13044.9 | 13766.5 | 14359.3 | 13545.5 | 12126.9 | 8612.4 | 5097.9 |
| 65°    | 14611.1 | 14291.1 | 13970.4 | 14061.0 | 14151.0 | 14420.0 | 14491.9 | 13185.8 | 11286.1 | 7926.0 | 4565.9 |
| 67.5°  | 13898.4 | 13963.6 | 14028.8 | 14409.5 | 14789.4 | 14604.3 | 14097.8 | 12476.9 | 10089.4 | 6953.3 | 3817.3 |
| 70°    | 11753.8 | 12144.9 | 12535.3 | 13436.1 | 14336.1 | 13925.4 | 13041.9 | 11204.5 | 8649.1  | 5833.0 | 3016.2 |
| 72.5°  | 8994.6  | 9434.5  | 9873.6  | 11210.5 | 12546.6 | 12168.1 | 11086.1 | 9202.9  | 6934.6  | 4658.0 | 2380.7 |
| 75°    | 6512.7  | 7009.5  | 7505.6  | 8980.4  | 10455.1 | 9929.8  | 8292.4  | 6589.1  | 5267.3  | 3555.7 | 1843.4 |
| 77.5°  | 4639.3  | 4972.0  | 5304.7  | 6761.5  | 8217.5  | 7361.7  | 5519.8  | 4434.0  | 3645.6  | 2471.4 | 1296.4 |
| 80°    | 3721.3  | 3619.4  | 3517.5  | 4329.1  | 5140.6  | 4998.2  | 3650.9  | 2847.6  | 2523.1  | 1656.1 | 789.1  |
| 82.5°  | 3035.7  | 2786.9  | 2538.1  | 2920.3  | 3302.4  | 3281.5  | 2533.6  | 2089.2  | 1877.9  | 1151.0 | 424.1  |
| 85°    | 2223.4  | 2123.7  | 2024.0  | 2362.0  | 2700.0  | 2411.4  | 1716.0  | 1327.9  | 1464.3  | 847.5  | 230.8  |
| 87.5°  | 1084.3  | 1238.7  | 1392.3  | 1791.0  | 2188.9  | 1643.4  | 520.8   | 257.8   | 356.7   | 234.6  | 111.7  |
| 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    |



REPORT NUMBER: P362223

CATALOG NUMBER: NVN-SA5B-827-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: P362223

CATALOG NUMBER: NVN-SA5B-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 |
| 2.5°   | 5839.0 | 5777.6 | 5707.9 | 5638.2 | 5558.8 | 5478.6 | 5431.4 | 5383.4 | 5331.7 | 5280.0 | 5221.6 |
| 5°     | 5347.5 | 5218.6 | 5072.4 | 4926.3 | 4781.7 | 4637.1 | 4559.1 | 4481.2 | 4398.8 | 4315.6 | 4243.6 |
| 7.5°   | 4641.6 | 4453.5 | 4251.1 | 4048.1 | 3868.2 | 3687.6 | 3576.0 | 3463.6 | 3361.6 | 3259.0 | 3172.8 |
| 10°    | 4020.3 | 3780.5 | 3577.5 | 3373.6 | 3238.0 | 3102.4 | 2999.7 | 2897.0 | 2798.1 | 2698.5 | 2603.3 |
| 12.5°  | 3611.2 | 3371.4 | 3242.5 | 3113.6 | 3001.2 | 2888.8 | 2770.4 | 2651.2 | 2515.6 | 2379.2 | 2279.6 |
| 15°    | 3451.6 | 3233.5 | 3090.4 | 2946.5 | 2795.9 | 2644.5 | 2499.1 | 2353.7 | 2193.4 | 2033.0 | 1919.9 |
| 17.5°  | 3382.6 | 3097.1 | 2897.0 | 2696.2 | 2497.6 | 2299.0 | 2130.4 | 1961.8 | 1786.5 | 1611.1 | 1496.5 |
| 20°    | 3309.9 | 2930.0 | 2661.7 | 2392.7 | 2137.9 | 1883.1 | 1692.1 | 1501.0 | 1344.4 | 1187.7 | 1100.1 |
| 22.5°  | 3244.0 | 2752.4 | 2415.9 | 2078.7 | 1777.5 | 1476.2 | 1288.9 | 1100.8 | 1004.9 | 909.0  | 873.8  |
| 25°    | 3217.0 | 2597.3 | 2183.6 | 1770.0 | 1452.3 | 1133.8 | 1000.4 | 867.0  | 830.3  | 792.8  | 774.8  |
| 27.5°  | 3221.5 | 2458.7 | 1988.1 | 1516.7 | 1230.5 | 944.2  | 852.8  | 761.4  | 738.9  | 715.6  | 704.4  |
| 30°    | 3238.7 | 2308.0 | 1803.7 | 1299.4 | 1063.3 | 827.3  | 768.1  | 708.1  | 684.2  | 660.2  | 646.0  |
| 32.5°  | 3258.2 | 2173.2 | 1661.3 | 1148.8 | 956.2  | 762.9  | 714.1  | 664.7  | 641.5  | 618.2  | 604.0  |
| 35°    | 3224.5 | 2063.0 | 1563.9 | 1064.8 | 887.2  | 708.9  | 667.7  | 625.7  | 600.2  | 574.8  | 561.3  |
| 37.5°  | 3167.6 | 1952.1 | 1488.2 | 1023.6 | 842.3  | 660.2  | 630.2  | 599.5  | 573.3  | 546.3  | 533.5  |
| 40°    | 3115.8 | 1858.4 | 1432.0 | 1004.9 | 817.6  | 629.5  | 604.0  | 578.5  | 551.5  | 523.8  | 508.8  |
| 42.5°  | 3073.9 | 1795.5 | 1376.6 | 957.7  | 795.1  | 631.7  | 595.7  | 559.0  | 532.8  | 506.6  | 490.1  |
| 45°    | 3042.4 | 1754.3 | 1333.1 | 912.0  | 774.1  | 636.2  | 590.5  | 544.8  | 518.6  | 491.6  | 472.1  |
| 47.5°  | 3039.4 | 1732.5 | 1302.4 | 872.3  | 734.4  | 595.7  | 577.0  | 558.3  | 520.1  | 481.1  | 458.6  |
| 50°    | 3080.6 | 1697.3 | 1266.4 | 834.8  | 696.2  | 557.5  | 583.0  | 607.7  | 542.5  | 476.6  | 448.1  |
| 52.5°  | 3166.8 | 1635.1 | 1209.5 | 783.8  | 649.7  | 514.8  | 554.5  | 593.5  | 537.3  | 480.3  | 443.6  |
| 55°    | 3271.0 | 1543.7 | 1123.3 | 702.2  | 588.2  | 473.6  | 508.8  | 543.3  | 508.1  | 472.1  | 427.9  |
| 57.5°  | 3336.2 | 1428.3 | 1014.6 | 601.0  | 519.3  | 437.6  | 457.9  | 477.3  | 463.1  | 448.9  | 403.9  |
| 60°    | 3297.2 | 1274.7 | 892.5  | 509.6  | 458.6  | 407.7  | 403.9  | 399.4  | 420.4  | 441.4  | 389.7  |
| 62.5°  | 3106.9 | 1115.8 | 784.6  | 453.4  | 415.1  | 376.2  | 367.9  | 358.9  | 393.4  | 427.1  | 372.4  |
| 65°    | 2785.4 | 1004.9 | 716.4  | 427.9  | 385.2  | 342.5  | 333.5  | 324.5  | 335.0  | 345.5  | 320.0  |
| 67.5°  | 2377.0 | 936.7  | 677.4  | 418.1  | 366.4  | 314.0  | 303.5  | 293.0  | 290.8  | 288.5  | 279.5  |
| 70°    | 1955.8 | 894.7  | 651.9  | 409.2  | 346.2  | 282.5  | 272.8  | 263.0  | 260.0  | 256.3  | 249.5  |
| 72.5°  | 1635.1 | 889.5  | 648.9  | 408.4  | 329.7  | 251.0  | 242.0  | 233.1  | 229.3  | 224.8  | 219.6  |
| 75°    | 1339.1 | 834.8  | 616.0  | 397.2  | 307.2  | 216.6  | 208.3  | 200.1  | 197.1  | 193.3  | 188.8  |
| 77.5°  | 993.7  | 690.9  | 517.8  | 344.7  | 263.0  | 181.3  | 173.1  | 164.1  | 163.4  | 161.9  | 158.1  |
| 80°    | 644.5  | 499.8  | 370.2  | 240.5  | 191.8  | 142.4  | 135.6  | 128.1  | 128.9  | 129.6  | 126.6  |
| 82.5°  | 358.2  | 291.5  | 226.3  | 161.1  | 131.1  | 101.2  | 98.2   | 94.4   | 96.7   | 98.2   | 94.4   |
| 85°    | 188.8  | 146.9  | 121.4  | 95.9   | 75.7   | 55.5   | 55.5   | 54.7   | 57.7   | 60.7   | 57.7   |
| 87.5°  | 81.7   | 51.7   | 44.2   | 36.0   | 20.2   | 3.7    | 4.5    | 4.5    | 6.0    | 7.5    | 6.7    |
| 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    |



REPORT NUMBER: P362223  
 CATALOG NUMBER: NVN-SA5B-827-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  |

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**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 |
| 2.5°   | 5162.4 | 5107.7 | 5052.2 | 4991.5 | 5002.7 | 4956.3 | 4909.8 | 4880.6 | 4851.4 | 4842.4 | 4833.4 |
| 5°     | 4171.7 | 4109.5 | 4046.6 | 3990.4 | 4039.1 | 4006.1 | 3973.1 | 3968.6 | 3963.4 | 3963.4 | 3962.6 |
| 7.5°   | 3086.6 | 3019.9 | 2952.5 | 2906.0 | 2954.0 | 2948.0 | 2942.0 | 2974.2 | 3006.4 | 3032.7 | 3058.1 |
| 10°    | 2508.1 | 2427.2 | 2345.5 | 2276.6 | 2264.6 | 2230.1 | 2194.9 | 2202.4 | 2209.1 | 2237.6 | 2266.1 |
| 12.5°  | 2179.9 | 2083.2 | 1986.6 | 1905.6 | 1868.9 | 1812.0 | 1754.3 | 1718.3 | 1682.3 | 1686.1 | 1689.1 |
| 15°    | 1806.0 | 1712.3 | 1617.9 | 1548.2 | 1525.0 | 1480.7 | 1436.5 | 1391.6 | 1345.9 | 1327.1 | 1307.6 |
| 17.5°  | 1381.1 | 1306.1 | 1230.5 | 1184.0 | 1184.0 | 1171.3 | 1158.5 | 1136.0 | 1112.8 | 1094.1 | 1074.6 |
| 20°    | 1012.4 | 972.7  | 932.2  | 912.7  | 918.7  | 919.5  | 919.5  | 930.7  | 941.9  | 936.0  | 930.0  |
| 22.5°  | 837.8  | 823.5  | 809.3  | 801.1  | 804.1  | 804.8  | 805.6  | 816.1  | 825.8  | 833.3  | 840.0  |
| 25°    | 756.1  | 747.1  | 738.1  | 735.1  | 741.9  | 742.6  | 742.6  | 749.4  | 756.1  | 763.6  | 771.1  |
| 27.5°  | 692.4  | 688.7  | 684.9  | 679.7  | 686.4  | 686.4  | 685.7  | 693.2  | 699.9  | 706.6  | 712.6  |
| 30°    | 631.7  | 633.2  | 634.0  | 632.5  | 637.0  | 640.0  | 642.2  | 647.4  | 651.9  | 657.2  | 662.4  |
| 32.5°  | 589.0  | 586.8  | 584.5  | 583.0  | 592.7  | 598.0  | 603.2  | 608.5  | 613.0  | 615.2  | 617.5  |
| 35°    | 547.8  | 542.5  | 537.3  | 533.5  | 542.5  | 549.3  | 556.0  | 565.8  | 574.8  | 576.3  | 577.8  |
| 37.5°  | 520.1  | 513.3  | 506.6  | 502.1  | 505.8  | 508.8  | 511.8  | 522.3  | 532.8  | 538.8  | 544.0  |
| 40°    | 493.8  | 487.1  | 480.3  | 476.6  | 478.8  | 479.6  | 480.3  | 485.6  | 490.1  | 501.3  | 511.8  |
| 42.5°  | 472.8  | 464.6  | 456.4  | 451.9  | 453.4  | 454.9  | 455.6  | 454.9  | 454.1  | 464.6  | 475.1  |
| 45°    | 451.9  | 442.9  | 433.9  | 428.6  | 429.4  | 429.4  | 429.4  | 427.9  | 425.6  | 430.9  | 436.1  |
| 47.5°  | 435.4  | 424.9  | 414.4  | 409.2  | 407.7  | 406.2  | 404.7  | 403.9  | 402.4  | 406.2  | 409.2  |
| 50°    | 418.9  | 407.7  | 395.7  | 389.7  | 385.9  | 384.4  | 382.9  | 382.2  | 380.7  | 384.4  | 387.4  |
| 52.5°  | 406.2  | 392.7  | 379.2  | 369.4  | 365.7  | 363.4  | 361.2  | 361.9  | 361.9  | 363.4  | 364.2  |
| 55°    | 383.7  | 371.7  | 358.9  | 352.2  | 345.5  | 344.0  | 342.5  | 344.7  | 346.2  | 346.2  | 346.2  |
| 57.5°  | 358.9  | 347.7  | 335.7  | 331.2  | 325.2  | 325.2  | 324.5  | 327.5  | 329.7  | 331.2  | 332.7  |
| 60°    | 337.2  | 324.5  | 311.7  | 308.0  | 305.7  | 305.0  | 304.2  | 308.0  | 311.0  | 314.0  | 317.0  |
| 62.5°  | 317.0  | 303.5  | 290.0  | 285.5  | 284.8  | 285.5  | 285.5  | 289.3  | 292.3  | 295.2  | 298.2  |
| 65°    | 294.5  | 281.0  | 266.8  | 262.3  | 263.8  | 266.0  | 268.3  | 271.3  | 273.5  | 276.5  | 279.5  |
| 67.5°  | 269.8  | 258.5  | 246.5  | 242.0  | 242.8  | 245.8  | 248.8  | 251.0  | 252.5  | 255.5  | 258.5  |
| 70°    | 242.8  | 233.1  | 223.3  | 220.3  | 219.6  | 223.3  | 226.3  | 227.8  | 229.3  | 233.1  | 236.0  |
| 72.5°  | 213.6  | 205.3  | 197.1  | 194.8  | 195.6  | 197.8  | 200.1  | 202.3  | 203.8  | 207.6  | 210.6  |
| 75°    | 183.6  | 176.1  | 168.6  | 167.1  | 168.6  | 170.9  | 173.1  | 174.6  | 176.1  | 180.6  | 184.3  |
| 77.5°  | 154.4  | 146.1  | 137.1  | 136.4  | 138.6  | 140.9  | 142.4  | 144.6  | 146.9  | 152.9  | 158.9  |
| 80°    | 123.6  | 114.7  | 104.9  | 104.2  | 106.4  | 108.7  | 110.9  | 113.2  | 115.4  | 122.9  | 129.6  |
| 82.5°  | 90.7   | 80.2   | 69.7   | 68.2   | 75.7   | 77.9   | 80.2   | 83.9   | 86.9   | 93.7   | 100.4  |
| 85°    | 54.7   | 44.2   | 33.7   | 33.0   | 39.7   | 43.5   | 47.2   | 51.7   | 55.5   | 61.4   | 67.4   |
| 87.5°  | 6.0    | 3.0    | 0.0    | 0.0    | 0.7    | 3.7    | 6.7    | 10.5   | 14.2   | 20.2   | 25.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: NVN-SA5B-827-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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CATALOG NUMBER: NVN-SA5B-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 |
| 2.5°   | 4800.4 | 4766.7 | 4801.2 | 4834.9 | 4849.1 | 4863.4 | 4826.6 | 4789.2 | 4847.6 | 4905.3 | 4920.3 |
| 5°     | 3932.7 | 3901.9 | 3925.2 | 3947.6 | 3897.4 | 3847.2 | 3842.0 | 3836.0 | 3879.5 | 3922.9 | 3929.7 |
| 7.5°   | 3048.4 | 3038.7 | 3060.4 | 3082.1 | 3018.4 | 2954.0 | 2922.5 | 2891.0 | 2901.5 | 2912.0 | 2910.5 |
| 10°    | 2272.8 | 2278.8 | 2305.8 | 2332.0 | 2282.6 | 2233.1 | 2211.4 | 2189.6 | 2213.6 | 2236.8 | 2258.6 |
| 12.5°  | 1702.6 | 1715.3 | 1743.8 | 1771.5 | 1751.3 | 1730.3 | 1732.5 | 1734.8 | 1762.5 | 1789.5 | 1813.5 |
| 15°    | 1322.6 | 1337.6 | 1357.8 | 1377.3 | 1378.1 | 1378.1 | 1397.6 | 1416.3 | 1414.0 | 1411.8 | 1428.3 |
| 17.5°  | 1094.8 | 1114.3 | 1116.6 | 1118.8 | 1119.5 | 1120.3 | 1118.8 | 1117.3 | 1106.1 | 1094.8 | 1107.6 |
| 20°    | 937.5  | 944.2  | 950.2  | 955.4  | 948.7  | 941.2  | 922.5  | 903.7  | 896.2  | 888.7  | 900.7  |
| 22.5°  | 852.8  | 864.8  | 858.8  | 852.0  | 838.5  | 824.3  | 810.1  | 795.1  | 794.3  | 792.8  | 799.6  |
| 25°    | 781.6  | 791.3  | 780.8  | 770.3  | 760.6  | 750.9  | 741.1  | 731.4  | 730.6  | 729.9  | 732.9  |
| 27.5°  | 722.4  | 731.4  | 721.6  | 711.9  | 703.7  | 695.4  | 687.9  | 680.4  | 678.9  | 677.4  | 678.2  |
| 30°    | 671.4  | 679.7  | 671.4  | 662.4  | 656.4  | 649.7  | 644.5  | 639.2  | 638.5  | 637.7  | 637.7  |
| 32.5°  | 625.7  | 634.0  | 628.0  | 622.0  | 616.7  | 611.5  | 607.7  | 604.0  | 600.2  | 596.5  | 588.2  |
| 35°    | 586.0  | 594.2  | 590.5  | 586.0  | 580.0  | 574.0  | 567.3  | 559.8  | 550.0  | 539.5  | 535.0  |
| 37.5°  | 552.3  | 560.5  | 556.8  | 553.0  | 544.8  | 536.5  | 524.6  | 511.8  | 508.8  | 505.1  | 504.3  |
| 40°    | 525.3  | 538.0  | 530.5  | 522.3  | 509.6  | 496.8  | 490.8  | 484.8  | 483.3  | 481.8  | 480.3  |
| 42.5°  | 495.3  | 514.8  | 501.3  | 487.8  | 475.8  | 463.9  | 462.4  | 460.9  | 460.1  | 459.4  | 459.4  |
| 45°    | 457.9  | 478.8  | 465.4  | 451.1  | 444.4  | 437.6  | 437.6  | 437.6  | 438.4  | 438.4  | 439.9  |
| 47.5°  | 422.6  | 435.4  | 428.6  | 421.9  | 418.1  | 414.4  | 415.1  | 415.9  | 418.1  | 419.6  | 423.4  |
| 50°    | 392.7  | 397.2  | 398.7  | 399.4  | 397.2  | 394.9  | 396.4  | 397.2  | 399.4  | 400.9  | 403.9  |
| 52.5°  | 370.9  | 377.7  | 377.7  | 376.9  | 376.9  | 376.9  | 378.4  | 379.9  | 382.2  | 384.4  | 387.4  |
| 55°    | 356.7  | 366.4  | 363.4  | 360.4  | 361.2  | 361.2  | 362.7  | 364.2  | 366.4  | 367.9  | 372.4  |
| 57.5°  | 343.2  | 353.7  | 350.7  | 347.7  | 347.7  | 347.7  | 348.5  | 349.2  | 351.5  | 352.9  | 355.9  |
| 60°    | 327.5  | 338.0  | 335.0  | 331.2  | 332.0  | 332.7  | 333.5  | 333.5  | 335.0  | 335.7  | 335.7  |
| 62.5°  | 308.7  | 319.2  | 316.2  | 312.5  | 314.7  | 316.2  | 316.2  | 316.2  | 317.7  | 318.5  | 316.2  |
| 65°    | 289.3  | 299.0  | 296.0  | 293.0  | 296.0  | 298.2  | 299.7  | 300.5  | 299.7  | 299.0  | 296.7  |
| 67.5°  | 268.3  | 278.0  | 275.0  | 271.3  | 275.0  | 278.0  | 281.0  | 283.3  | 281.0  | 278.8  | 275.8  |
| 70°    | 245.8  | 255.5  | 251.8  | 248.0  | 251.8  | 255.5  | 258.5  | 261.5  | 258.5  | 255.5  | 254.8  |
| 72.5°  | 221.8  | 233.1  | 228.6  | 224.1  | 228.6  | 233.1  | 234.6  | 236.0  | 233.8  | 231.6  | 230.1  |
| 75°    | 195.6  | 206.8  | 203.1  | 198.6  | 202.3  | 206.1  | 206.8  | 207.6  | 207.6  | 206.8  | 202.3  |
| 77.5°  | 167.9  | 176.8  | 174.6  | 172.4  | 174.6  | 176.8  | 176.8  | 176.8  | 177.6  | 177.6  | 171.6  |
| 80°    | 134.9  | 140.1  | 140.9  | 141.6  | 142.4  | 143.1  | 142.4  | 141.6  | 140.1  | 138.6  | 134.9  |
| 82.5°  | 100.4  | 100.4  | 106.4  | 111.7  | 111.7  | 110.9  | 110.2  | 108.7  | 105.7  | 101.9  | 93.7   |
| 85°    | 63.7   | 59.9   | 69.7   | 78.7   | 78.7   | 77.9   | 76.4   | 74.2   | 68.2   | 61.4   | 54.7   |
| 87.5°  | 21.7   | 18.0   | 27.7   | 37.5   | 38.2   | 38.2   | 36.7   | 35.2   | 29.2   | 22.5   | 17.2   |
| 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    |



REPORT NUMBER: P362223

CATALOG NUMBER: NVN-SA5B-827-U-SLL

**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  |

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CATALOG NUMBER: NVN-SA5B-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 |
| 2.5°   | 4942.8 | 4952.5 | 4961.5 | 5035.0 | 5107.7 | 5193.1 | 5278.5 | 5343.7 | 5408.1 | 5474.8 | 5541.5 |
| 5°     | 3952.9 | 3964.9 | 3976.9 | 4066.0 | 4154.5 | 4273.6 | 4392.8 | 4495.4 | 4598.1 | 4718.7 | 4839.4 |
| 7.5°   | 2930.0 | 2956.2 | 2981.7 | 3076.9 | 3171.3 | 3299.4 | 3426.8 | 3561.0 | 3694.4 | 3851.7 | 4009.1 |
| 10°    | 2301.3 | 2350.8 | 2399.5 | 2496.9 | 2594.3 | 2720.9 | 2846.8 | 2987.0 | 3127.1 | 3282.2 | 3436.6 |
| 12.5°  | 1862.9 | 1928.9 | 1994.1 | 2111.0 | 2227.9 | 2379.2 | 2529.8 | 2685.7 | 2840.8 | 2977.2 | 3113.6 |
| 15°    | 1471.7 | 1543.7 | 1614.9 | 1738.5 | 1862.2 | 2028.5 | 2194.1 | 2364.2 | 2533.6 | 2697.0 | 2860.3 |
| 17.5°  | 1148.0 | 1207.2 | 1265.7 | 1370.6 | 1474.7 | 1635.9 | 1797.0 | 1975.3 | 2153.7 | 2353.0 | 2551.6 |
| 20°    | 926.2  | 950.9  | 975.7  | 1051.4 | 1126.3 | 1257.4 | 1387.8 | 1569.9 | 1752.0 | 1990.3 | 2228.6 |
| 22.5°  | 811.6  | 824.3  | 836.3  | 873.0  | 909.0  | 993.7  | 1077.6 | 1238.7 | 1399.1 | 1659.1 | 1918.4 |
| 25°    | 742.6  | 752.4  | 762.1  | 786.1  | 810.1  | 850.5  | 891.0  | 1004.1 | 1117.3 | 1372.8 | 1627.6 |
| 27.5°  | 680.4  | 695.4  | 709.6  | 720.9  | 731.4  | 759.1  | 786.1  | 860.3  | 934.5  | 1172.8 | 1410.3 |
| 30°    | 635.5  | 640.7  | 646.0  | 663.2  | 679.7  | 708.1  | 736.6  | 788.3  | 840.0  | 1041.6 | 1242.4 |
| 32.5°  | 583.0  | 590.5  | 598.0  | 616.0  | 634.0  | 660.2  | 686.4  | 728.4  | 769.6  | 941.9  | 1113.6 |
| 35°    | 535.8  | 543.3  | 550.8  | 568.8  | 586.0  | 614.5  | 642.2  | 677.4  | 711.9  | 861.8  | 1011.6 |
| 37.5°  | 506.6  | 514.1  | 521.6  | 537.3  | 552.3  | 580.8  | 608.5  | 636.2  | 663.2  | 801.8  | 940.5  |
| 40°    | 481.8  | 489.3  | 496.8  | 511.8  | 526.1  | 553.8  | 580.8  | 604.0  | 627.2  | 756.9  | 886.5  |
| 42.5°  | 460.1  | 468.4  | 476.6  | 491.6  | 505.8  | 530.5  | 555.3  | 586.0  | 616.0  | 717.9  | 819.1  |
| 45°    | 442.1  | 450.4  | 457.9  | 474.3  | 490.8  | 514.8  | 538.8  | 581.5  | 624.2  | 697.7  | 771.1  |
| 47.5°  | 425.6  | 434.6  | 442.9  | 460.9  | 478.8  | 508.8  | 538.0  | 574.0  | 609.2  | 681.9  | 754.6  |
| 50°    | 409.9  | 420.4  | 430.9  | 452.6  | 473.6  | 523.8  | 573.3  | 578.5  | 583.0  | 669.2  | 754.6  |
| 52.5°  | 394.9  | 406.9  | 418.9  | 445.9  | 472.1  | 530.5  | 589.0  | 570.3  | 550.8  | 645.2  | 739.6  |
| 55°    | 379.9  | 390.4  | 400.2  | 433.1  | 466.1  | 508.8  | 551.5  | 526.8  | 501.3  | 600.2  | 699.2  |
| 57.5°  | 359.7  | 370.9  | 381.4  | 416.6  | 451.9  | 481.8  | 511.1  | 488.6  | 465.4  | 549.3  | 632.5  |
| 60°    | 338.7  | 351.5  | 364.2  | 409.2  | 453.4  | 448.1  | 442.1  | 437.6  | 432.4  | 492.3  | 552.3  |
| 62.5°  | 320.0  | 333.5  | 347.0  | 405.4  | 463.9  | 427.9  | 391.9  | 395.7  | 398.7  | 442.9  | 487.1  |
| 65°    | 301.2  | 314.7  | 327.5  | 356.7  | 385.9  | 371.7  | 357.4  | 363.4  | 368.7  | 412.1  | 455.6  |
| 67.5°  | 280.3  | 292.3  | 303.5  | 313.2  | 323.0  | 324.5  | 326.0  | 332.0  | 338.0  | 389.7  | 440.6  |
| 70°    | 257.0  | 266.8  | 276.5  | 283.3  | 289.3  | 292.3  | 294.5  | 302.0  | 309.5  | 365.7  | 421.9  |
| 72.5°  | 230.8  | 239.0  | 246.5  | 252.5  | 258.5  | 260.8  | 262.3  | 269.8  | 277.3  | 337.2  | 397.2  |
| 75°    | 202.3  | 209.1  | 215.1  | 220.3  | 225.6  | 228.6  | 231.6  | 236.8  | 242.0  | 307.2  | 371.7  |
| 77.5°  | 170.9  | 177.6  | 183.6  | 188.1  | 191.8  | 194.8  | 197.1  | 203.8  | 210.6  | 265.3  | 319.2  |
| 80°    | 133.4  | 141.6  | 149.1  | 152.9  | 155.9  | 156.6  | 156.6  | 162.6  | 168.6  | 207.6  | 245.8  |
| 82.5°  | 94.4   | 103.4  | 111.7  | 114.7  | 117.6  | 117.6  | 117.6  | 124.4  | 131.1  | 157.4  | 182.8  |
| 85°    | 55.5   | 65.2   | 74.2   | 77.2   | 80.2   | 81.7   | 82.4   | 85.4   | 87.7   | 106.4  | 124.4  |
| 87.5°  | 17.2   | 25.5   | 33.0   | 34.5   | 36.0   | 39.0   | 42.0   | 42.7   | 42.7   | 55.5   | 68.2   |
| 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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CATALOG NUMBER: NVN-SA5B-827-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  |



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**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°    | 360°    |
|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°     | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1 | 5710.1  | 5710.1  |
| 2.5°   | 5618.0 | 5694.4 | 5783.6 | 5872.0 | 5947.7 | 6023.4  | 6086.3  |
| 5°     | 4993.0 | 5146.6 | 5334.7 | 5522.1 | 5689.2 | 5856.3  | 6050.4  |
| 7.5°   | 4207.7 | 4406.3 | 4649.8 | 4893.3 | 5129.4 | 5364.7  | 5662.9  |
| 10°    | 3638.9 | 3840.5 | 4098.3 | 4355.3 | 4620.6 | 4885.1  | 5222.3  |
| 12.5°  | 3277.7 | 3441.1 | 3690.6 | 3940.1 | 4251.9 | 4562.9  | 4887.3  |
| 15°    | 3039.4 | 3217.8 | 3460.6 | 3703.3 | 4044.3 | 4385.3  | 4758.5  |
| 17.5°  | 2785.4 | 3018.4 | 3329.4 | 3640.4 | 4044.3 | 4447.5  | 4887.3  |
| 20°    | 2519.4 | 2809.4 | 3212.5 | 3615.7 | 4159.7 | 4703.0  | 5264.3  |
| 22.5°  | 2254.1 | 2589.8 | 3106.9 | 3623.2 | 4334.3 | 5044.7  | 5802.3  |
| 25°    | 2015.0 | 2402.5 | 3042.4 | 3681.6 | 4588.3 | 5494.3  | 6434.0  |
| 27.5°  | 1833.7 | 2256.3 | 3016.2 | 3775.3 | 4910.6 | 6045.9  | 7121.2  |
| 30°    | 1672.6 | 2102.7 | 2984.7 | 3866.7 | 5220.8 | 6574.2  | 7658.5  |
| 32.5°  | 1533.2 | 1952.8 | 2924.0 | 3894.4 | 5437.4 | 6980.3  | 8113.3  |
| 35°    | 1423.8 | 1835.9 | 2822.1 | 3808.3 | 5573.0 | 7337.8  | 8586.9  |
| 37.5°  | 1329.4 | 1718.3 | 2705.9 | 3693.6 | 5693.7 | 7693.7  | 9119.7  |
| 40°    | 1239.4 | 1592.4 | 2606.3 | 3619.4 | 5860.0 | 8100.6  | 9682.5  |
| 42.5°  | 1154.0 | 1489.0 | 2526.1 | 3563.2 | 6014.4 | 8464.8  | 10174.8 |
| 45°    | 1090.3 | 1409.6 | 2454.9 | 3499.5 | 6114.0 | 8728.6  | 10545.8 |
| 47.5°  | 1058.8 | 1362.3 | 2416.7 | 3470.3 | 6213.7 | 8956.4  | 10853.8 |
| 50°    | 1054.4 | 1354.1 | 2460.2 | 3566.2 | 6429.5 | 9292.1  | 11206.0 |
| 52.5°  | 1053.6 | 1367.6 | 2585.3 | 3803.0 | 6830.4 | 9857.1  | 11587.4 |
| 55°    | 1037.9 | 1375.8 | 2734.4 | 4092.3 | 7368.5 | 10643.9 | 12273.1 |
| 57.5°  | 989.9  | 1347.4 | 2888.0 | 4428.0 | 7937.2 | 11445.8 | 13045.7 |
| 60°    | 915.7  | 1278.4 | 3014.7 | 4750.2 | 8319.4 | 11887.9 | 13343.1 |
| 62.5°  | 822.8  | 1157.8 | 3056.6 | 4954.8 | 8308.9 | 11663.1 | 13043.4 |
| 65°    | 743.4  | 1031.1 | 2918.8 | 4805.7 | 7888.5 | 10970.7 | 12450.7 |
| 67.5°  | 672.9  | 904.5  | 2574.1 | 4242.9 | 7132.4 | 10021.2 | 11696.8 |
| 70°    | 622.0  | 821.3  | 2129.7 | 3438.1 | 6186.0 | 8933.2  | 10823.8 |
| 72.5°  | 589.7  | 781.6  | 1736.3 | 2690.2 | 5020.0 | 7349.0  | 9258.4  |
| 75°    | 545.5  | 719.4  | 1362.3 | 2004.5 | 3842.0 | 5679.4  | 6993.1  |
| 77.5°  | 463.1  | 606.2  | 1026.6 | 1447.0 | 2819.1 | 4190.4  | 4863.4  |
| 80°    | 357.4  | 468.4  | 705.9  | 943.4  | 1940.1 | 2936.8  | 3315.9  |
| 82.5°  | 254.8  | 326.7  | 427.9  | 529.0  | 1288.9 | 2048.0  | 2079.5  |
| 85°    | 157.4  | 190.3  | 245.0  | 299.7  | 852.8  | 1405.8  | 1171.3  |
| 87.5°  | 84.7   | 101.2  | 129.6  | 157.4  | 272.8  | 388.2   | 223.3   |
| 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: P362223

CATALOG NUMBER: NVN-SA5B-827-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  |

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

Report Prepared for

Cooper Lighting Solutions

Invue

Report Number: SP1-2407-157-9

Test Date: 10/03/2024

Luminaire Tested: EMM2-HTN-SA1A-827-U-5WQ

Data applicable to all product families utilizing light square engine

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-9  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/03/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Invue  
 Catalog Number: **EMM2-HTN-SA1A-827-U-5WQ**  
 Description: Epic Modern Light Square 40W 5WQ Optic

### Spectral Parameters

CCT (K): 2764  
 CIE  $u'$ : 0.2591  
 CIE  $v'$ : 0.5290  
 Duv: 0.0020  
 CIE x: 0.4581  
 CIE y: 0.4156  
 CIE z: 0.1263  
 Peak Wavelength (nm): 603  
 Dominant Wavelength (nm): 583  
 Purity: 62.2537  
 Rf: 84.7  
 Rg: 94.6

CRI (Ra): 80.9  
 R1: 78.8  
 R2: 89.9  
 R3: 96.2  
 R4: 79.1  
 R5: 79.1  
 R6: 88.8  
 R7: 81.3  
 R8: 54.3  
 R9: -1.5  
 R10: 77.9  
 R11: 78.9  
 R12: 71.6  
 R13: 81.2  
 R14: 98.5  
 R15: 69.9



### Test Conditions

Stabilization Time: 81M  
 Operation Time: 2H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-157-9

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

REPORT NUMBER: SP1-2407-157-9

**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: SP1-2407-157-9

### Photopic Flux vs. Wavelength

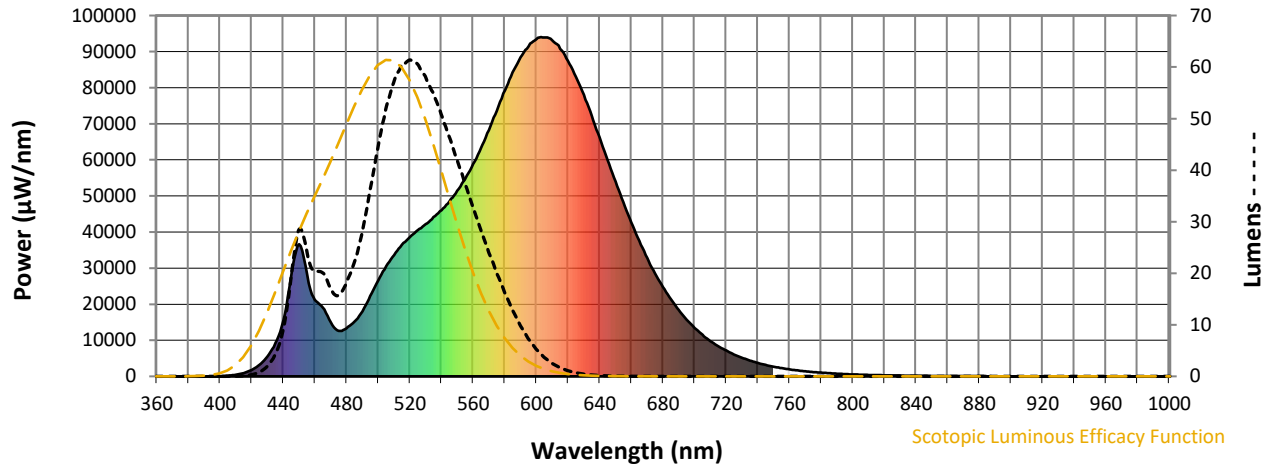


**Photopic Lumens: 4337.9**

| 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    | 0             | 0.0           | 490    | 18018         | 2.6           | 620    | 87426         | 22.8          | 750    | 2680          | 0.0           | 880    | 58            | 0.0           |
| 365    | 0             | 0.0           | 495    | 22295         | 3.9           | 625    | 83013         | 18.2          | 755    | 2287          | 0.0           | 885    | 46            | 0.0           |
| 370    | 0             | 0.0           | 500    | 26478         | 5.8           | 630    | 78077         | 14.1          | 760    | 1944          | 0.0           | 890    | 45            | 0.0           |
| 375    | 0             | 0.0           | 505    | 30524         | 8.5           | 635    | 72080         | 10.7          | 765    | 1653          | 0.0           | 895    | 41            | 0.0           |
| 380    | 0             | 0.0           | 510    | 33611         | 11.5          | 640    | 66249         | 7.9           | 770    | 1413          | 0.0           | 900    | 38            | 0.0           |
| 385    | 0             | 0.0           | 515    | 36490         | 15.2          | 645    | 59973         | 5.7           | 775    | 1198          | 0.0           | 905    | 33            | 0.0           |
| 390    | 0             | 0.0           | 520    | 38610         | 18.7          | 650    | 53972         | 3.9           | 780    | 1025          | 0.0           | 910    | 30            | 0.0           |
| 395    | 0             | 0.0           | 525    | 40511         | 21.9          | 655    | 48369         | 2.7           | 785    | 874           | 0.0           | 915    | 23            | 0.0           |
| 400    | 48            | 0.0           | 530    | 42223         | 24.9          | 660    | 42641         | 1.8           | 790    | 747           | 0.0           | 920    | 24            | 0.0           |
| 405    | 201           | 0.0           | 535    | 44137         | 27.6          | 665    | 37602         | 1.1           | 795    | 639           | 0.0           | 925    | 22            | 0.0           |
| 410    | 457           | 0.0           | 540    | 46032         | 30.0          | 670    | 32798         | 0.7           | 800    | 547           | 0.0           | 930    | 22            | 0.0           |
| 415    | 925           | 0.0           | 545    | 48553         | 32.5          | 675    | 28558         | 0.5           | 805    | 473           | 0.0           | 935    | 17            | 0.0           |
| 420    | 1816          | 0.0           | 550    | 51408         | 34.9          | 680    | 24782         | 0.3           | 810    | 401           | 0.0           | 940    | 13            | 0.0           |
| 425    | 3217          | 0.0           | 555    | 54711         | 37.4          | 685    | 21386         | 0.2           | 815    | 351           | 0.0           | 945    | 6             | 0.0           |
| 430    | 5520          | 0.0           | 560    | 58847         | 40.0          | 690    | 18413         | 0.1           | 820    | 307           | 0.0           | 950    | 10            | 0.0           |
| 435    | 9225          | 0.1           | 565    | 63386         | 42.4          | 695    | 15721         | 0.1           | 825    | 261           | 0.0           | 955    | 11            | 0.0           |
| 440    | 15522         | 0.2           | 570    | 68196         | 44.3          | 700    | 13432         | 0.0           | 830    | 228           | 0.0           | 960    | 8             | 0.0           |
| 445    | 27642         | 0.6           | 575    | 73613         | 46.0          | 705    | 11513         | 0.0           | 835    | 193           | 0.0           | 965    | 12            | 0.0           |
| 450    | 36602         | 0.9           | 580    | 79207         | 47.1          | 710    | 9780          | 0.0           | 840    | 174           | 0.0           | 970    | 3             | 0.0           |
| 455    | 28292         | 0.9           | 585    | 84248         | 47.0          | 715    | 8356          | 0.0           | 845    | 151           | 0.0           | 975    | 8             | 0.0           |
| 460    | 21166         | 0.9           | 590    | 88397         | 45.7          | 720    | 7161          | 0.0           | 850    | 123           | 0.0           | 980    | 2             | 0.0           |
| 465    | 19092         | 1.0           | 595    | 91428         | 43.4          | 725    | 6067          | 0.0           | 855    | 106           | 0.0           | 985    | 13            | 0.0           |
| 470    | 14951         | 0.9           | 600    | 93452         | 40.3          | 730    | 5164          | 0.0           | 860    | 95            | 0.0           | 990    | 16            | 0.0           |
| 475    | 12606         | 1.0           | 605    | 93959         | 36.4          | 735    | 4393          | 0.0           | 865    | 82            | 0.0           | 995    | 20            | 0.0           |
| 480    | 13323         | 1.3           | 610    | 93079         | 32.0          | 740    | 3694          | 0.0           | 870    | 77            | 0.0           | 1000   | 0             | 0.0           |
| 485    | 15164         | 1.8           | 615    | 90707         | 27.3          | 745    | 3157          | 0.0           | 875    | 65            | 0.0           |        |               |               |

REPORT NUMBER: SP1-2407-157-9

### Scotopic Flux vs. Wavelength



Scotopic Lumens: 5286.7

S/P: 1.22

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 0                | 0.0              | 490       | 18018            | 75.9             | 620       | 87426            | 0.4              | 750       | 2680             | 0.0              | 880       | 58               | 0.0              |
| 365       | 0                | 0.0              | 495       | 22295            | 93.2             | 625       | 83013            | 0.2              | 755       | 2287             | 0.0              | 885       | 46               | 0.0              |
| 370       | 0                | 0.0              | 500       | 26478            | 107.8            | 630       | 78077            | 0.1              | 760       | 1944             | 0.0              | 890       | 45               | 0.0              |
| 375       | 0                | 0.0              | 505       | 30524            | 118.7            | 635       | 72080            | 0.1              | 765       | 1653             | 0.0              | 895       | 41               | 0.0              |
| 380       | 0                | 0.0              | 510       | 33611            | 122.2            | 640       | 66249            | 0.1              | 770       | 1413             | 0.0              | 900       | 38               | 0.0              |
| 385       | 0                | 0.0              | 515       | 36490            | 120.8            | 645       | 59973            | 0.0              | 775       | 1198             | 0.0              | 905       | 33               | 0.0              |
| 390       | 0                | 0.0              | 520       | 38610            | 113.9            | 650       | 53972            | 0.0              | 780       | 1025             | 0.0              | 910       | 30               | 0.0              |
| 395       | 0                | 0.0              | 525       | 40511            | 104.1            | 655       | 48369            | 0.0              | 785       | 874              | 0.0              | 915       | 23               | 0.0              |
| 400       | 48               | 0.0              | 530       | 42223            | 92.4             | 660       | 42641            | 0.0              | 790       | 747              | 0.0              | 920       | 24               | 0.0              |
| 405       | 201              | 0.0              | 535       | 44137            | 80.5             | 665       | 37602            | 0.0              | 795       | 639              | 0.0              | 925       | 22               | 0.0              |
| 410       | 457              | 0.1              | 540       | 46032            | 68.2             | 670       | 32798            | 0.0              | 800       | 547              | 0.0              | 930       | 22               | 0.0              |
| 415       | 925              | 0.3              | 545       | 48553            | 57.1             | 675       | 28558            | 0.0              | 805       | 473              | 0.0              | 935       | 17               | 0.0              |
| 420       | 1816             | 1.1              | 550       | 51408            | 46.7             | 680       | 24782            | 0.0              | 810       | 401              | 0.0              | 940       | 13               | 0.0              |
| 425       | 3217             | 2.5              | 555       | 54711            | 37.4             | 685       | 21386            | 0.0              | 815       | 351              | 0.0              | 945       | 6                | 0.0              |
| 430       | 5520             | 5.9              | 560       | 58847            | 29.4             | 690       | 18413            | 0.0              | 820       | 307              | 0.0              | 950       | 10               | 0.0              |
| 435       | 9225             | 12.5             | 565       | 63386            | 22.5             | 695       | 15721            | 0.0              | 825       | 261              | 0.0              | 955       | 11               | 0.0              |
| 440       | 15522            | 26.3             | 570       | 68196            | 16.9             | 700       | 13432            | 0.0              | 830       | 228              | 0.0              | 960       | 8                | 0.0              |
| 445       | 27642            | 55.2             | 575       | 73613            | 12.4             | 705       | 11513            | 0.0              | 835       | 193              | 0.0              | 965       | 12               | 0.0              |
| 450       | 36602            | 85.4             | 580       | 79207            | 9.0              | 710       | 9780             | 0.0              | 840       | 174              | 0.0              | 970       | 3                | 0.0              |
| 455       | 28292            | 75.1             | 585       | 84248            | 6.3              | 715       | 8356             | 0.0              | 845       | 151              | 0.0              | 975       | 8                | 0.0              |
| 460       | 21166            | 63.2             | 590       | 88397            | 4.4              | 720       | 7161             | 0.0              | 850       | 123              | 0.0              | 980       | 2                | 0.0              |
| 465       | 19092            | 63.2             | 595       | 91428            | 3.0              | 725       | 6067             | 0.0              | 855       | 106              | 0.0              | 985       | 13               | 0.0              |
| 470       | 14951            | 54.2             | 600       | 93452            | 2.0              | 730       | 5164             | 0.0              | 860       | 95               | 0.0              | 990       | 16               | 0.0              |
| 475       | 12606            | 48.8             | 605       | 93959            | 1.3              | 735       | 4393             | 0.0              | 865       | 82               | 0.0              | 995       | 20               | 0.0              |
| 480       | 13323            | 54.2             | 610       | 93079            | 0.9              | 740       | 3694             | 0.0              | 870       | 77               | 0.0              | 1000      | 0                | 0.0              |
| 485       | 15164            | 63.3             | 615       | 90707            | 0.5              | 745       | 3157             | 0.0              | 875       | 65               | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2407-157-9

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 9797**

**M/P: 2.26**

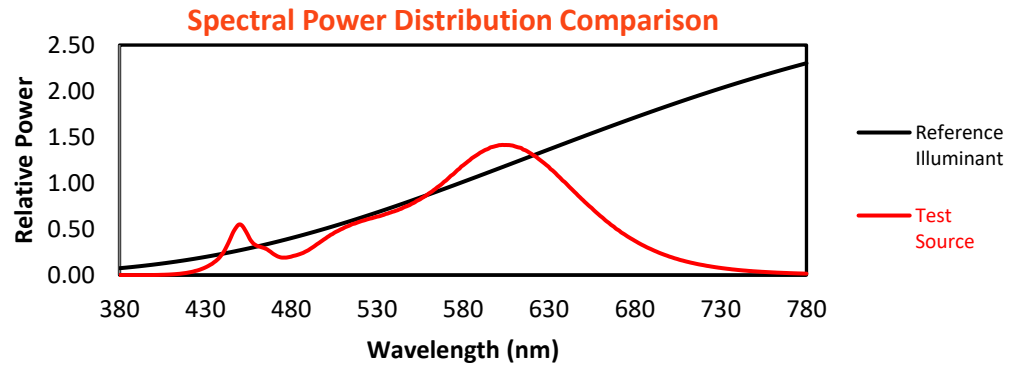
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 0                | 0.0              | 490       | 18018            | 27.7             | 620       | 87426            | 1.1              | 750       | 2680             | 0.0              | 880       | 58               | 0.0              |
| 365       | 0                | 0.0              | 495       | 22295            | 36.0             | 625       | 83013            | 0.7              | 755       | 2287             | 0.0              | 885       | 46               | 0.0              |
| 370       | 0                | 0.0              | 500       | 26478            | 44.2             | 630       | 78077            | 0.4              | 760       | 1944             | 0.0              | 890       | 45               | 0.0              |
| 375       | 0                | 0.0              | 505       | 30524            | 51.8             | 635       | 72080            | 0.3              | 765       | 1653             | 0.0              | 895       | 41               | 0.0              |
| 380       | 0                | 0.0              | 510       | 33611            | 57.0             | 640       | 66249            | 0.2              | 770       | 1413             | 0.0              | 900       | 38               | 0.0              |
| 385       | 0                | 0.0              | 515       | 36490            | 60.5             | 645       | 59973            | 0.1              | 775       | 1198             | 0.0              | 905       | 33               | 0.0              |
| 390       | 0                | 0.0              | 520       | 38610            | 61.4             | 650       | 53972            | 0.1              | 780       | 1025             | 0.0              | 910       | 30               | 0.0              |
| 395       | 0                | 0.0              | 525       | 40511            | 60.6             | 655       | 48369            | 0.0              | 785       | 874              | 0.0              | 915       | 23               | 0.0              |
| 400       | 48               | 0.0              | 530       | 42223            | 58.2             | 660       | 42641            | 0.0              | 790       | 747              | 0.0              | 920       | 24               | 0.0              |
| 405       | 201              | 0.0              | 535       | 44137            | 55.0             | 665       | 37602            | 0.0              | 795       | 639              | 0.0              | 925       | 22               | 0.0              |
| 410       | 457              | 0.0              | 540       | 46032            | 50.9             | 670       | 32798            | 0.0              | 800       | 547              | 0.0              | 930       | 22               | 0.0              |
| 415       | 925              | 0.1              | 545       | 48553            | 46.6             | 675       | 28558            | 0.0              | 805       | 473              | 0.0              | 935       | 17               | 0.0              |
| 420       | 1816             | 0.3              | 550       | 51408            | 42.0             | 680       | 24782            | 0.0              | 810       | 401              | 0.0              | 940       | 13               | 0.0              |
| 425       | 3217             | 0.8              | 555       | 54711            | 37.4             | 685       | 21386            | 0.0              | 815       | 351              | 0.0              | 945       | 6                | 0.0              |
| 430       | 5520             | 1.9              | 560       | 58847            | 32.9             | 690       | 18413            | 0.0              | 820       | 307              | 0.0              | 950       | 10               | 0.0              |
| 435       | 9225             | 4.1              | 565       | 63386            | 28.4             | 695       | 15721            | 0.0              | 825       | 261              | 0.0              | 955       | 11               | 0.0              |
| 440       | 15522            | 8.7              | 570       | 68196            | 24.1             | 700       | 13432            | 0.0              | 830       | 228              | 0.0              | 960       | 8                | 0.0              |
| 445       | 27642            | 18.5             | 575       | 73613            | 20.0             | 705       | 11513            | 0.0              | 835       | 193              | 0.0              | 965       | 12               | 0.0              |
| 450       | 36602            | 28.3             | 580       | 79207            | 16.3             | 710       | 9780             | 0.0              | 840       | 174              | 0.0              | 970       | 3                | 0.0              |
| 455       | 28292            | 24.7             | 585       | 84248            | 12.9             | 715       | 8356             | 0.0              | 845       | 151              | 0.0              | 975       | 8                | 0.0              |
| 460       | 21166            | 20.4             | 590       | 88397            | 9.8              | 720       | 7161             | 0.0              | 850       | 123              | 0.0              | 980       | 2                | 0.0              |
| 465       | 19092            | 20.1             | 595       | 91428            | 7.3              | 725       | 6067             | 0.0              | 855       | 106              | 0.0              | 985       | 13               | 0.0              |
| 470       | 14951            | 17.2             | 600       | 93452            | 5.3              | 730       | 5164             | 0.0              | 860       | 95               | 0.0              | 990       | 16               | 0.0              |
| 475       | 12606            | 15.7             | 605       | 93959            | 3.7              | 735       | 4393             | 0.0              | 865       | 82               | 0.0              | 995       | 20               | 0.0              |
| 480       | 13323            | 18.0             | 610       | 93079            | 2.5              | 740       | 3694             | 0.0              | 870       | 77               | 0.0              | 1000      | 0                | 0.0              |
| 485       | 15164            | 21.9             | 615       | 90707            | 1.7              | 745       | 3157             | 0.0              | 875       | 65               | 0.0              |           |                  |                  |

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### Summary

$R_f = 84.7$   
 $R_g = 94.6$   
 $CIE R_a = 80.9$   
 $R_g = -1.5$



### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 84 | CES51 = 95 | CES76 = 81 |
| CES02 = 63 | CES27 = 95 | CES52 = 94 | CES77 = 84 |
| CES03 = 31 | CES28 = 94 | CES53 = 89 | CES78 = 81 |
| CES04 = 71 | CES29 = 87 | CES54 = 91 | CES79 = 89 |
| CES05 = 50 | CES30 = 94 | CES55 = 90 | CES80 = 89 |
| CES06 = 52 | CES31 = 89 | CES56 = 86 | CES81 = 69 |
| CES07 = 43 | CES32 = 82 | CES57 = 85 | CES82 = 96 |
| CES08 = 41 | CES33 = 91 | CES58 = 86 | CES83 = 93 |
| CES09 = 29 | CES34 = 92 | CES59 = 91 | CES84 = 92 |
| CES10 = 77 | CES35 = 96 | CES60 = 94 | CES85 = 76 |
| CES11 = 60 | CES36 = 90 | CES61 = 89 | CES86 = 65 |
| CES12 = 66 | CES37 = 96 | CES62 = 94 | CES87 = 84 |
| CES13 = 44 | CES38 = 98 | CES63 = 87 | CES88 = 86 |
| CES14 = 74 | CES39 = 98 | CES64 = 82 | CES89 = 73 |
| CES15 = 72 | CES40 = 95 | CES65 = 78 | CES90 = 88 |
| CES16 = 48 | CES41 = 96 | CES66 = 81 | CES91 = 82 |
| CES17 = 50 | CES42 = 97 | CES67 = 80 | CES92 = 64 |
| CES18 = 57 | CES43 = 91 | CES68 = 83 | CES93 = 78 |
| CES19 = 73 | CES44 = 99 | CES69 = 88 | CES94 = 59 |
| CES20 = 67 | CES45 = 93 | CES70 = 80 | CES95 = 74 |
| CES21 = 87 | CES46 = 89 | CES71 = 79 | CES96 = 83 |
| CES22 = 79 | CES47 = 92 | CES72 = 92 | CES97 = 88 |
| CES23 = 92 | CES48 = 83 | CES73 = 75 | CES98 = 83 |
| CES24 = 91 | CES49 = 90 | CES74 = 91 | CES99 = 74 |
| CES25 = 72 | CES50 = 94 | CES75 = 81 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)