

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: P359609

Luminaire Tested: NVN-SA1C-730-U-SLR

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P359609
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-SA1C-730-U-SLR
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5839 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

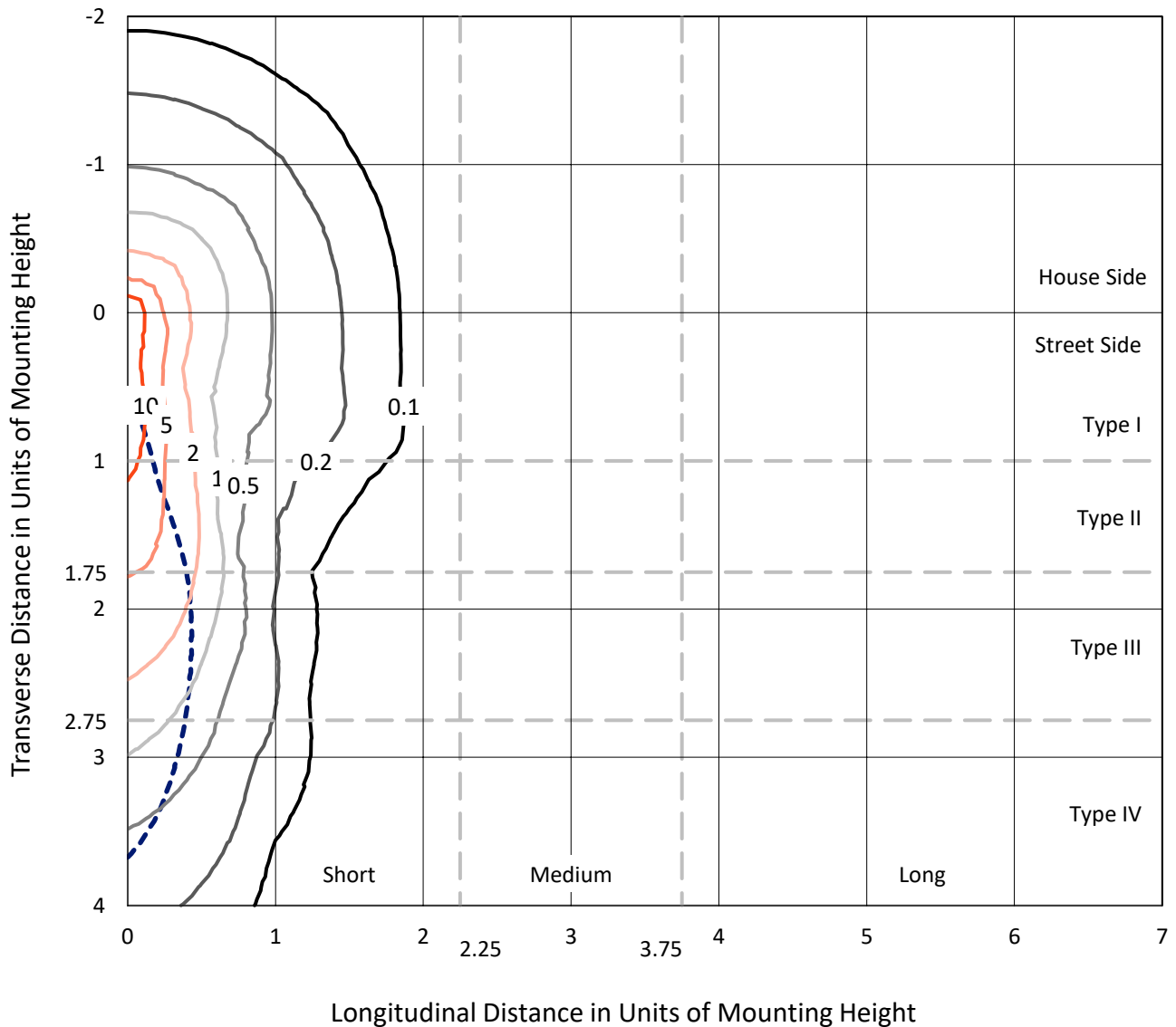
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P359609
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Iso-Footcandle Lines of Horizontal Illumination

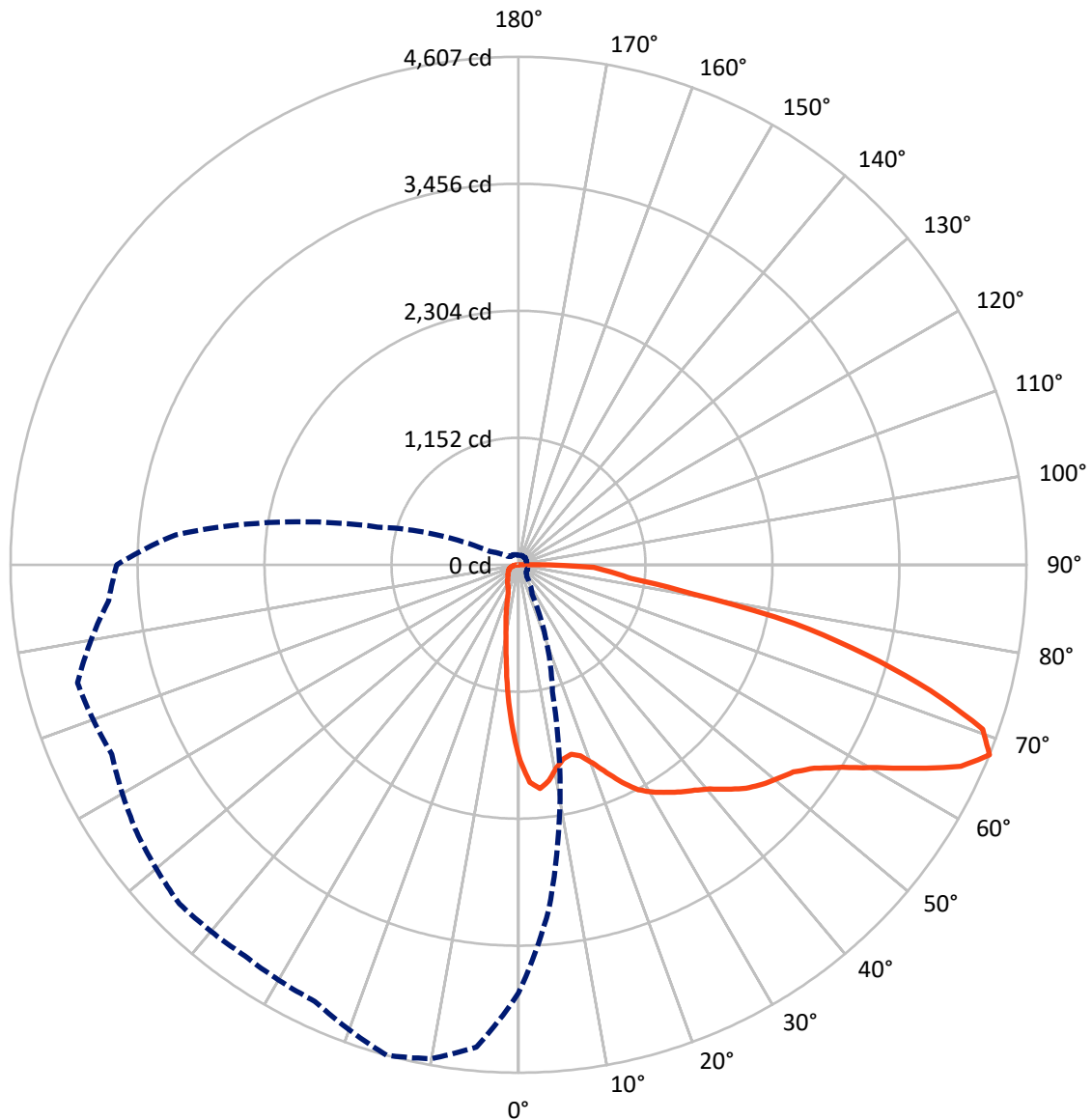
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1009.4 | 0.0 | 1009.4 |
| | % Fixture | 17.3 | 0.0 | 17.3 |
| Street Side | Lumens | 4829.6 | 0.0 | 4829.6 |
| | % Fixture | 82.7 | 0.0 | 82.7 |
| Total | Lumens | 5839.0 | 0.0 | 5839.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.3 | 2.4 |
| 10°-20° | 285.2 | 4.9 |
| 20°-30° | 405.6 | 6.9 |
| 30°-40° | 584.5 | 10.0 |
| 40°-50° | 823.7 | 14.1 |
| 50°-60° | 1145.1 | 19.6 |
| 60°-70° | 1384.8 | 23.7 |
| 70°-80° | 851.2 | 14.6 |
| 80°-90° | 221.5 | 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° | 5839.0 | 100.0 |
| 0°-180° | 5839.0 | 100.0 |

Coefficient of Utilization

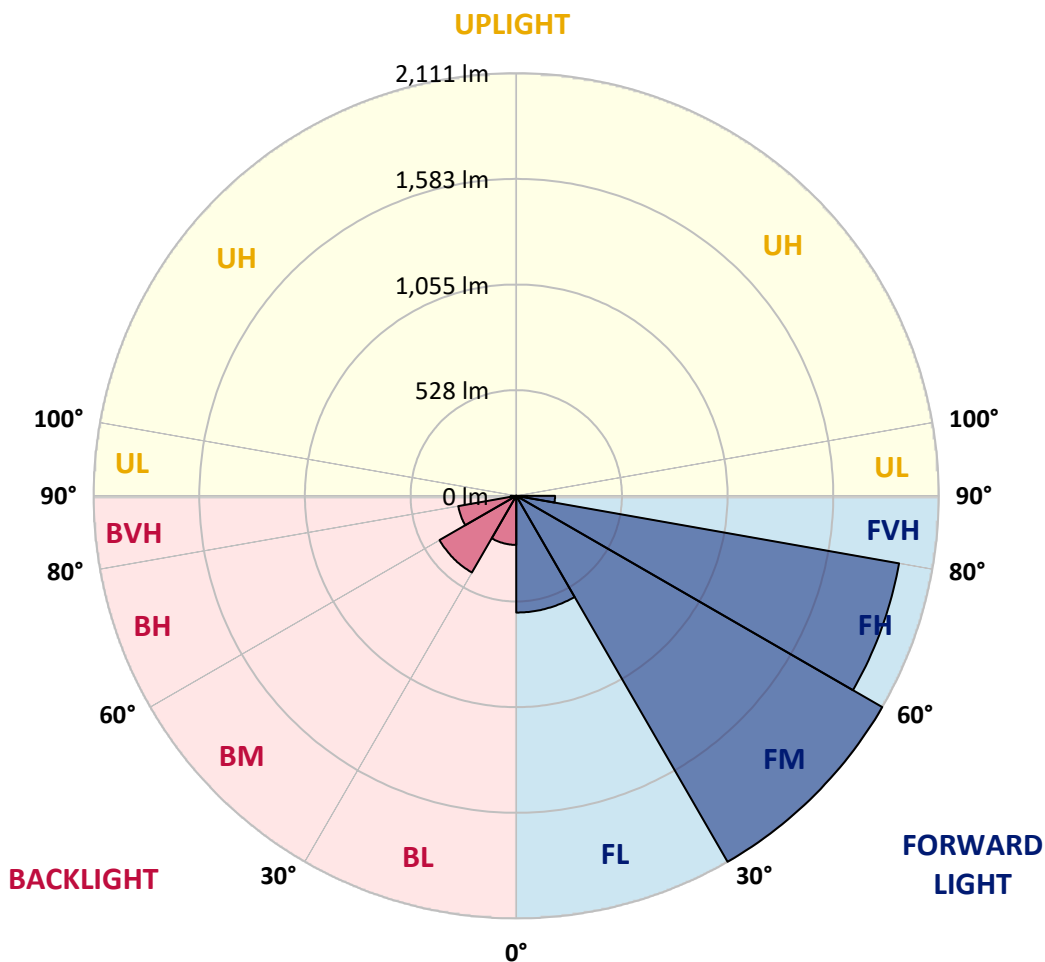


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 583.0 | 10.0 | | | |
| FM (30°-60°) | 2110.9 | 36.2 | | | |
| FH (60°-80°) | 1941.8 | 33.3 | | | G2/5000 |
| FVH (80°-90°) | 193.7 | 3.3 | | | G2/225 |
| BL (0°-30°) | 245.1 | 4.2 | B1/500 | | |
| BM (30°-60°) | 442.4 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 294.2 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 27.8 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P359609
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 1905.7 | 1888.8 | 1863.4 | 1838.0 | 1819.0 | 1799.9 | 1778.2 | 1756.5 | 1731.7 | 1706.8 | 1692.0 |
| 5° | 1874.1 | 1827.4 | 1766.8 | 1706.1 | 1665.9 | 1625.7 | 1580.2 | 1534.7 | 1489.6 | 1444.6 | 1420.3 |
| 7.5° | 1732.2 | 1662.2 | 1583.3 | 1504.4 | 1446.0 | 1387.4 | 1324.4 | 1261.1 | 1205.1 | 1148.8 | 1114.0 |
| 10° | 1592.6 | 1508.6 | 1418.0 | 1327.2 | 1252.5 | 1177.8 | 1114.5 | 1051.0 | 1008.7 | 966.5 | 934.5 |
| 12.5° | 1492.4 | 1399.3 | 1299.6 | 1199.7 | 1125.0 | 1050.3 | 1010.1 | 970.0 | 935.0 | 900.0 | 863.1 |
| 15° | 1452.8 | 1347.5 | 1245.5 | 1143.2 | 1075.3 | 1007.3 | 962.7 | 917.9 | 871.0 | 823.8 | 778.6 |
| 17.5° | 1487.8 | 1364.5 | 1253.6 | 1142.7 | 1053.8 | 964.9 | 902.5 | 840.0 | 778.1 | 716.2 | 663.7 |
| 20° | 1597.0 | 1439.7 | 1294.7 | 1149.5 | 1031.2 | 912.8 | 829.2 | 745.4 | 666.0 | 586.7 | 527.1 |
| 22.5° | 1750.4 | 1542.2 | 1352.8 | 1163.5 | 1010.6 | 857.5 | 752.6 | 647.6 | 553.7 | 459.9 | 401.5 |
| 25° | 1936.7 | 1678.0 | 1436.7 | 1195.0 | 1002.2 | 809.1 | 680.3 | 551.4 | 452.4 | 353.2 | 311.7 |
| 27.5° | 2133.0 | 1840.1 | 1540.8 | 1241.3 | 1003.6 | 766.0 | 619.3 | 472.5 | 383.3 | 294.1 | 265.7 |
| 30° | 2296.7 | 2025.2 | 1662.2 | 1298.9 | 1009.0 | 719.0 | 561.9 | 404.8 | 331.3 | 257.7 | 239.3 |
| 32.5° | 2446.3 | 2154.3 | 1753.7 | 1352.8 | 1015.0 | 677.0 | 517.6 | 357.9 | 297.9 | 237.7 | 222.5 |
| 35° | 2600.9 | 2268.9 | 1817.6 | 1366.2 | 1004.5 | 642.7 | 487.2 | 331.7 | 276.4 | 220.8 | 208.0 |
| 37.5° | 2771.1 | 2392.9 | 1879.3 | 1365.5 | 986.8 | 608.1 | 463.6 | 318.9 | 262.4 | 205.7 | 196.3 |
| 40° | 2960.9 | 2529.9 | 1946.0 | 1362.2 | 970.7 | 579.0 | 446.1 | 313.1 | 254.7 | 196.1 | 188.2 |
| 42.5° | 3146.4 | 2660.6 | 2008.1 | 1355.6 | 957.6 | 559.3 | 428.8 | 298.3 | 247.7 | 196.8 | 185.6 |
| 45° | 3285.8 | 2774.8 | 2062.1 | 1349.1 | 947.8 | 546.5 | 415.3 | 284.1 | 241.2 | 198.2 | 184.0 |
| 47.5° | 3391.6 | 2889.4 | 2121.8 | 1354.0 | 946.9 | 539.7 | 405.7 | 271.7 | 228.8 | 185.6 | 179.8 |
| 50° | 3526.0 | 3027.2 | 2208.9 | 1390.7 | 959.7 | 528.8 | 394.5 | 260.1 | 216.9 | 173.7 | 181.6 |
| 52.5° | 3693.4 | 3223.7 | 2343.8 | 1463.7 | 986.6 | 509.4 | 376.8 | 244.2 | 202.4 | 160.4 | 172.8 |
| 55° | 3939.2 | 3475.6 | 2516.4 | 1556.9 | 1019.0 | 480.9 | 349.9 | 218.7 | 183.3 | 147.5 | 158.5 |
| 57.5° | 4159.9 | 3730.1 | 2681.9 | 1633.5 | 1039.3 | 445.0 | 316.1 | 187.2 | 161.8 | 136.3 | 142.6 |
| 60° | 4258.1 | 3861.3 | 2759.4 | 1657.3 | 1027.2 | 397.1 | 278.0 | 158.7 | 142.9 | 127.0 | 125.8 |
| 62.5° | 4219.8 | 3777.9 | 2683.0 | 1588.2 | 967.9 | 347.6 | 244.4 | 141.2 | 129.3 | 117.2 | 114.6 |
| 65° | 4107.8 | 3516.0 | 2469.2 | 1422.4 | 867.7 | 313.1 | 223.2 | 133.3 | 120.0 | 106.7 | 103.9 |
| 67.5° | 3886.9 | 3143.2 | 2166.2 | 1189.2 | 740.5 | 291.8 | 211.0 | 130.3 | 114.2 | 97.8 | 94.5 |
| 70° | 3490.5 | 2694.5 | 1817.2 | 939.6 | 609.3 | 278.7 | 203.1 | 127.5 | 107.9 | 88.0 | 85.0 |
| 72.5° | 2867.0 | 2160.3 | 1451.1 | 741.7 | 509.4 | 277.1 | 202.2 | 127.2 | 102.7 | 78.2 | 75.4 |
| 75° | 2052.7 | 1640.9 | 1107.7 | 574.3 | 417.2 | 260.1 | 191.9 | 123.7 | 95.7 | 67.5 | 64.9 |
| 77.5° | 1381.3 | 1135.7 | 769.9 | 403.9 | 309.6 | 215.2 | 161.3 | 107.4 | 81.9 | 56.5 | 53.9 |
| 80° | 887.1 | 786.0 | 515.9 | 245.8 | 200.8 | 155.7 | 115.3 | 74.9 | 59.8 | 44.4 | 42.3 |
| 82.5° | 650.9 | 585.0 | 358.6 | 132.1 | 111.6 | 90.8 | 70.5 | 50.2 | 40.9 | 31.5 | 30.6 |
| 85° | 413.7 | 456.2 | 264.0 | 71.9 | 58.8 | 45.8 | 37.8 | 29.9 | 23.6 | 17.3 | 17.3 |
| 87.5° | 80.3 | 111.1 | 73.1 | 34.8 | 25.4 | 16.1 | 13.8 | 11.2 | 6.3 | 1.2 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: NVN-SA1C-730-U-SLR

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° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 1677.1 | 1661.0 | 1644.9 | 1626.7 | 1608.2 | 1591.2 | 1573.9 | 1555.0 | 1558.5 | 1544.0 | 1529.6 |
| 5° | 1396.0 | 1370.4 | 1344.4 | 1322.0 | 1299.6 | 1280.2 | 1260.6 | 1243.1 | 1258.3 | 1248.0 | 1237.8 |
| 7.5° | 1079.0 | 1047.3 | 1015.3 | 988.4 | 961.6 | 940.8 | 919.8 | 905.3 | 920.3 | 918.4 | 916.5 |
| 10° | 902.5 | 871.7 | 840.7 | 811.0 | 781.4 | 756.1 | 730.7 | 709.2 | 705.5 | 694.7 | 683.8 |
| 12.5° | 825.9 | 783.7 | 741.2 | 710.2 | 679.1 | 649.0 | 618.9 | 593.7 | 582.2 | 564.5 | 546.5 |
| 15° | 733.3 | 683.3 | 633.4 | 598.1 | 562.6 | 533.4 | 504.0 | 482.3 | 475.1 | 461.3 | 447.5 |
| 17.5° | 611.2 | 556.5 | 501.9 | 466.2 | 430.2 | 406.9 | 383.3 | 368.9 | 368.9 | 364.9 | 360.9 |
| 20° | 467.6 | 418.8 | 370.0 | 342.7 | 315.4 | 303.0 | 290.4 | 284.3 | 286.2 | 286.4 | 286.4 |
| 22.5° | 342.9 | 313.1 | 283.2 | 272.2 | 261.0 | 256.6 | 252.1 | 249.6 | 250.5 | 250.7 | 251.0 |
| 25° | 270.1 | 258.7 | 247.0 | 241.4 | 235.6 | 232.8 | 229.9 | 229.0 | 231.1 | 231.3 | 231.3 |
| 27.5° | 237.2 | 230.2 | 222.9 | 219.4 | 215.7 | 214.5 | 213.4 | 211.7 | 213.8 | 213.8 | 213.6 |
| 30° | 220.6 | 213.1 | 205.7 | 201.2 | 196.8 | 197.3 | 197.5 | 197.0 | 198.4 | 199.4 | 200.1 |
| 32.5° | 207.1 | 199.8 | 192.6 | 188.2 | 183.5 | 182.8 | 182.1 | 181.6 | 184.7 | 186.3 | 187.9 |
| 35° | 194.9 | 187.0 | 179.1 | 174.9 | 170.7 | 169.0 | 167.4 | 166.2 | 169.0 | 171.1 | 173.2 |
| 37.5° | 186.8 | 178.6 | 170.2 | 166.2 | 162.0 | 159.9 | 157.8 | 156.4 | 157.6 | 158.5 | 159.4 |
| 40° | 180.2 | 171.8 | 163.2 | 158.5 | 153.8 | 151.7 | 149.6 | 148.5 | 149.2 | 149.4 | 149.6 |
| 42.5° | 174.2 | 166.0 | 157.8 | 152.7 | 147.3 | 144.7 | 142.2 | 140.8 | 141.2 | 141.7 | 141.9 |
| 45° | 169.7 | 161.5 | 153.1 | 147.1 | 140.8 | 138.0 | 135.2 | 133.5 | 133.8 | 133.8 | 133.8 |
| 47.5° | 173.9 | 162.0 | 149.9 | 142.9 | 135.6 | 132.4 | 129.1 | 127.5 | 127.0 | 126.5 | 126.1 |
| 50° | 189.3 | 169.0 | 148.5 | 139.6 | 130.5 | 127.0 | 123.3 | 121.4 | 120.2 | 119.8 | 119.3 |
| 52.5° | 184.9 | 167.4 | 149.6 | 138.2 | 126.5 | 122.3 | 118.1 | 115.1 | 113.9 | 113.2 | 112.5 |
| 55° | 169.3 | 158.3 | 147.1 | 133.3 | 119.5 | 115.8 | 111.8 | 109.7 | 107.6 | 107.2 | 106.7 |
| 57.5° | 148.7 | 144.3 | 139.8 | 125.8 | 111.8 | 108.3 | 104.6 | 103.2 | 101.3 | 101.3 | 101.1 |
| 60° | 124.4 | 131.0 | 137.5 | 121.4 | 105.1 | 101.1 | 97.1 | 95.9 | 95.2 | 95.0 | 94.8 |
| 62.5° | 111.8 | 122.6 | 133.1 | 116.0 | 98.7 | 94.5 | 90.3 | 88.9 | 88.7 | 88.9 | 88.9 |
| 65° | 101.1 | 104.4 | 107.6 | 99.7 | 91.7 | 87.5 | 83.1 | 81.7 | 82.2 | 82.9 | 83.6 |
| 67.5° | 91.3 | 90.6 | 89.9 | 87.1 | 84.0 | 80.5 | 76.8 | 75.4 | 75.6 | 76.6 | 77.5 |
| 70° | 81.9 | 81.0 | 79.8 | 77.7 | 75.6 | 72.6 | 69.6 | 68.6 | 68.4 | 69.6 | 70.5 |
| 72.5° | 72.6 | 71.4 | 70.0 | 68.4 | 66.5 | 64.0 | 61.4 | 60.7 | 60.9 | 61.6 | 62.3 |
| 75° | 62.3 | 61.4 | 60.2 | 58.8 | 57.2 | 54.9 | 52.5 | 52.1 | 52.5 | 53.2 | 53.9 |
| 77.5° | 51.1 | 50.9 | 50.4 | 49.3 | 48.1 | 45.5 | 42.7 | 42.5 | 43.2 | 43.9 | 44.4 |
| 80° | 39.9 | 40.2 | 40.4 | 39.5 | 38.5 | 35.7 | 32.7 | 32.4 | 33.1 | 33.9 | 34.6 |
| 82.5° | 29.4 | 30.1 | 30.6 | 29.4 | 28.2 | 25.0 | 21.7 | 21.2 | 23.6 | 24.3 | 25.0 |
| 85° | 17.0 | 18.0 | 18.9 | 18.0 | 17.0 | 13.8 | 10.5 | 10.3 | 12.4 | 13.5 | 14.7 |
| 87.5° | 1.4 | 1.9 | 2.3 | 2.1 | 1.9 | 0.9 | 0.0 | 0.0 | 0.2 | 1.2 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 1520.5 | 1511.4 | 1508.6 | 1505.8 | 1495.5 | 1485.0 | 1495.7 | 1506.2 | 1510.7 | 1515.1 | 1503.7 |
| 5° | 1236.4 | 1234.7 | 1234.7 | 1234.5 | 1225.1 | 1215.6 | 1222.8 | 1229.8 | 1214.2 | 1198.5 | 1196.9 |
| 7.5° | 926.6 | 936.6 | 944.8 | 952.7 | 949.7 | 946.6 | 953.4 | 960.2 | 940.3 | 920.3 | 910.5 |
| 10° | 686.1 | 688.2 | 697.1 | 706.0 | 708.1 | 709.9 | 718.3 | 726.5 | 711.1 | 695.7 | 688.9 |
| 12.5° | 535.3 | 524.1 | 525.3 | 526.2 | 530.4 | 534.4 | 543.2 | 551.9 | 545.6 | 539.0 | 539.7 |
| 15° | 433.5 | 419.3 | 413.4 | 407.4 | 412.0 | 416.7 | 423.0 | 429.1 | 429.3 | 429.3 | 435.4 |
| 17.5° | 353.9 | 346.7 | 340.8 | 334.8 | 341.1 | 347.1 | 347.8 | 348.5 | 348.8 | 349.0 | 348.5 |
| 20° | 289.9 | 293.4 | 291.6 | 289.7 | 292.0 | 294.1 | 296.0 | 297.6 | 295.5 | 293.2 | 287.4 |
| 22.5° | 254.2 | 257.3 | 259.6 | 261.7 | 265.7 | 269.4 | 267.5 | 265.4 | 261.2 | 256.8 | 252.4 |
| 25° | 233.5 | 235.6 | 237.9 | 240.2 | 243.5 | 246.5 | 243.3 | 240.0 | 237.0 | 233.9 | 230.9 |
| 27.5° | 215.9 | 218.0 | 220.1 | 222.0 | 225.0 | 227.8 | 224.8 | 221.8 | 219.2 | 216.6 | 214.3 |
| 30° | 201.7 | 203.1 | 204.7 | 206.4 | 209.2 | 211.7 | 209.2 | 206.4 | 204.5 | 202.4 | 200.8 |
| 32.5° | 189.6 | 191.0 | 191.7 | 192.4 | 194.9 | 197.5 | 195.6 | 193.8 | 192.1 | 190.5 | 189.3 |
| 35° | 176.3 | 179.1 | 179.5 | 180.0 | 182.6 | 185.1 | 184.0 | 182.6 | 180.7 | 178.8 | 176.7 |
| 37.5° | 162.7 | 166.0 | 167.9 | 169.5 | 172.1 | 174.6 | 173.5 | 172.3 | 169.7 | 167.2 | 163.4 |
| 40° | 151.3 | 152.7 | 156.2 | 159.4 | 163.6 | 167.6 | 165.3 | 162.7 | 158.7 | 154.8 | 152.9 |
| 42.5° | 141.7 | 141.5 | 144.7 | 148.0 | 154.3 | 160.4 | 156.2 | 152.0 | 148.2 | 144.5 | 144.0 |
| 45° | 133.3 | 132.6 | 134.2 | 135.9 | 142.6 | 149.2 | 145.0 | 140.5 | 138.4 | 136.3 | 136.3 |
| 47.5° | 125.8 | 125.4 | 126.5 | 127.5 | 131.7 | 135.6 | 133.5 | 131.4 | 130.3 | 129.1 | 129.3 |
| 50° | 119.1 | 118.6 | 119.8 | 120.7 | 122.3 | 123.7 | 124.2 | 124.4 | 123.7 | 123.0 | 123.5 |
| 52.5° | 112.8 | 112.8 | 113.2 | 113.5 | 115.6 | 117.7 | 117.7 | 117.4 | 117.4 | 117.4 | 117.9 |
| 55° | 107.4 | 107.9 | 107.9 | 107.9 | 111.1 | 114.2 | 113.2 | 112.3 | 112.5 | 112.5 | 113.0 |
| 57.5° | 102.0 | 102.7 | 103.2 | 103.7 | 106.9 | 110.2 | 109.3 | 108.3 | 108.3 | 108.3 | 108.6 |
| 60° | 95.9 | 96.9 | 97.8 | 98.7 | 102.0 | 105.3 | 104.4 | 103.2 | 103.4 | 103.7 | 103.9 |
| 62.5° | 90.1 | 91.0 | 92.0 | 92.9 | 96.2 | 99.4 | 98.5 | 97.3 | 98.0 | 98.5 | 98.5 |
| 65° | 84.5 | 85.2 | 86.1 | 87.1 | 90.1 | 93.1 | 92.2 | 91.3 | 92.2 | 92.9 | 93.4 |
| 67.5° | 78.2 | 78.7 | 79.6 | 80.5 | 83.6 | 86.6 | 85.7 | 84.5 | 85.7 | 86.6 | 87.5 |
| 70° | 71.0 | 71.4 | 72.6 | 73.5 | 76.6 | 79.6 | 78.4 | 77.3 | 78.4 | 79.6 | 80.5 |
| 72.5° | 63.0 | 63.5 | 64.7 | 65.6 | 69.1 | 72.6 | 71.2 | 69.8 | 71.2 | 72.6 | 73.1 |
| 75° | 54.4 | 54.9 | 56.3 | 57.4 | 60.9 | 64.4 | 63.3 | 61.9 | 63.0 | 64.2 | 64.4 |
| 77.5° | 45.1 | 45.8 | 47.6 | 49.5 | 52.3 | 55.1 | 54.4 | 53.7 | 54.4 | 55.1 | 55.1 |
| 80° | 35.3 | 36.0 | 38.3 | 40.4 | 42.0 | 43.7 | 43.9 | 44.1 | 44.4 | 44.6 | 44.4 |
| 82.5° | 26.1 | 27.1 | 29.2 | 31.3 | 31.3 | 31.3 | 33.1 | 34.8 | 34.8 | 34.6 | 34.3 |
| 85° | 16.1 | 17.3 | 19.1 | 21.0 | 19.8 | 18.7 | 21.7 | 24.5 | 24.5 | 24.3 | 23.8 |
| 87.5° | 3.3 | 4.4 | 6.3 | 7.9 | 6.8 | 5.6 | 8.6 | 11.7 | 11.9 | 11.9 | 11.4 |
| 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: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 1492.0 | 1510.2 | 1528.2 | 1532.8 | 1539.8 | 1542.9 | 1545.7 | 1568.6 | 1591.2 | 1617.8 | 1644.4 |
| 5° | 1195.0 | 1208.6 | 1222.1 | 1224.2 | 1231.5 | 1235.2 | 1238.9 | 1266.7 | 1294.2 | 1331.4 | 1368.5 |
| 7.5° | 900.7 | 903.9 | 907.2 | 906.7 | 912.8 | 921.0 | 928.9 | 958.5 | 988.0 | 1027.9 | 1067.6 |
| 10° | 682.1 | 689.6 | 696.8 | 703.6 | 716.9 | 732.3 | 747.5 | 777.9 | 808.2 | 847.7 | 886.9 |
| 12.5° | 540.4 | 549.1 | 557.5 | 564.9 | 580.4 | 600.9 | 621.2 | 657.6 | 694.0 | 741.2 | 788.1 |
| 15° | 441.2 | 440.5 | 439.8 | 445.0 | 458.5 | 480.9 | 503.1 | 541.6 | 580.1 | 632.0 | 683.5 |
| 17.5° | 348.1 | 344.6 | 341.1 | 345.0 | 357.6 | 376.1 | 394.3 | 427.0 | 459.4 | 509.6 | 559.8 |
| 20° | 281.5 | 279.2 | 276.9 | 280.6 | 288.5 | 296.2 | 304.0 | 327.5 | 350.9 | 391.7 | 432.4 |
| 22.5° | 247.7 | 247.5 | 247.0 | 249.1 | 252.8 | 256.8 | 260.5 | 272.0 | 283.2 | 309.6 | 335.7 |
| 25° | 227.8 | 227.6 | 227.4 | 228.3 | 231.3 | 234.4 | 237.4 | 244.9 | 252.4 | 265.0 | 277.6 |
| 27.5° | 212.0 | 211.5 | 211.0 | 211.3 | 212.0 | 216.6 | 221.1 | 224.6 | 227.8 | 236.5 | 244.9 |
| 30° | 199.1 | 198.9 | 198.7 | 198.7 | 198.0 | 199.6 | 201.2 | 206.6 | 211.7 | 220.6 | 229.5 |
| 32.5° | 188.2 | 187.0 | 185.8 | 183.3 | 181.6 | 184.0 | 186.3 | 191.9 | 197.5 | 205.7 | 213.8 |
| 35° | 174.4 | 171.4 | 168.1 | 166.7 | 166.9 | 169.3 | 171.6 | 177.2 | 182.6 | 191.4 | 200.1 |
| 37.5° | 159.4 | 158.5 | 157.3 | 157.1 | 157.8 | 160.1 | 162.5 | 167.4 | 172.1 | 180.9 | 189.6 |
| 40° | 151.0 | 150.6 | 150.1 | 149.6 | 150.1 | 152.4 | 154.8 | 159.4 | 163.9 | 172.5 | 180.9 |
| 42.5° | 143.6 | 143.3 | 143.1 | 143.1 | 143.3 | 145.9 | 148.5 | 153.1 | 157.6 | 165.3 | 173.0 |
| 45° | 136.3 | 136.6 | 136.6 | 137.0 | 137.7 | 140.3 | 142.6 | 147.8 | 152.9 | 160.4 | 167.9 |
| 47.5° | 129.6 | 130.3 | 130.7 | 131.9 | 132.6 | 135.4 | 138.0 | 143.6 | 149.2 | 158.5 | 167.6 |
| 50° | 123.7 | 124.4 | 124.9 | 125.8 | 127.7 | 131.0 | 134.2 | 141.0 | 147.5 | 163.2 | 178.6 |
| 52.5° | 118.4 | 119.1 | 119.8 | 120.7 | 123.0 | 126.8 | 130.5 | 138.9 | 147.1 | 165.3 | 183.5 |
| 55° | 113.5 | 114.2 | 114.6 | 116.0 | 118.4 | 121.6 | 124.7 | 134.9 | 145.2 | 158.5 | 171.8 |
| 57.5° | 108.8 | 109.5 | 110.0 | 110.9 | 112.1 | 115.6 | 118.8 | 129.8 | 140.8 | 150.1 | 159.2 |
| 60° | 103.9 | 104.4 | 104.6 | 104.6 | 105.5 | 109.5 | 113.5 | 127.5 | 141.2 | 139.6 | 137.7 |
| 62.5° | 98.5 | 99.0 | 99.2 | 98.5 | 99.7 | 103.9 | 108.1 | 126.3 | 144.5 | 133.3 | 122.1 |
| 65° | 93.6 | 93.4 | 93.1 | 92.4 | 93.8 | 98.0 | 102.0 | 111.1 | 120.2 | 115.8 | 111.4 |
| 67.5° | 88.2 | 87.5 | 86.8 | 85.9 | 87.3 | 91.0 | 94.5 | 97.6 | 100.6 | 101.1 | 101.6 |
| 70° | 81.5 | 80.5 | 79.6 | 79.4 | 80.1 | 83.1 | 86.1 | 88.2 | 90.1 | 91.0 | 91.7 |
| 72.5° | 73.5 | 72.8 | 72.1 | 71.7 | 71.9 | 74.5 | 76.8 | 78.7 | 80.5 | 81.2 | 81.7 |
| 75° | 64.7 | 64.7 | 64.4 | 63.0 | 63.0 | 65.1 | 67.0 | 68.6 | 70.3 | 71.2 | 72.1 |
| 77.5° | 55.1 | 55.3 | 55.3 | 53.5 | 53.2 | 55.3 | 57.2 | 58.6 | 59.8 | 60.7 | 61.4 |
| 80° | 44.1 | 43.7 | 43.2 | 42.0 | 41.6 | 44.1 | 46.5 | 47.6 | 48.6 | 48.8 | 48.8 |
| 82.5° | 33.9 | 32.9 | 31.7 | 29.2 | 29.4 | 32.2 | 34.8 | 35.7 | 36.7 | 36.7 | 36.7 |
| 85° | 23.1 | 21.2 | 19.1 | 17.0 | 17.3 | 20.3 | 23.1 | 24.0 | 25.0 | 25.4 | 25.7 |
| 87.5° | 11.0 | 9.1 | 7.0 | 5.4 | 5.4 | 7.9 | 10.3 | 10.7 | 11.2 | 12.1 | 13.1 |
| 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: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 1664.7 | 1684.8 | 1705.6 | 1726.4 | 1750.2 | 1774.0 | 1801.8 | 1829.3 | 1852.9 | 1876.5 | 1896.1 |
| 5° | 1400.5 | 1432.5 | 1470.0 | 1507.6 | 1555.5 | 1603.3 | 1661.9 | 1720.3 | 1772.4 | 1824.4 | 1884.9 |
| 7.5° | 1109.4 | 1150.9 | 1199.9 | 1249.0 | 1310.8 | 1372.7 | 1448.6 | 1524.4 | 1598.0 | 1671.3 | 1764.2 |
| 10° | 930.5 | 974.2 | 1022.5 | 1070.6 | 1133.6 | 1196.4 | 1276.7 | 1356.8 | 1439.5 | 1521.9 | 1626.9 |
| 12.5° | 836.7 | 885.0 | 927.5 | 970.0 | 1021.1 | 1072.0 | 1149.7 | 1227.5 | 1324.6 | 1421.5 | 1522.6 |
| 15° | 736.5 | 789.3 | 840.2 | 891.1 | 946.9 | 1002.4 | 1078.1 | 1153.7 | 1259.9 | 1366.2 | 1482.4 |
| 17.5° | 615.4 | 670.9 | 733.0 | 794.9 | 867.7 | 940.3 | 1037.2 | 1134.1 | 1259.9 | 1385.5 | 1522.6 |
| 20° | 489.1 | 545.8 | 620.0 | 694.3 | 784.9 | 875.2 | 1000.8 | 1126.4 | 1295.9 | 1465.1 | 1640.0 |
| 22.5° | 385.9 | 435.9 | 516.9 | 597.6 | 702.2 | 806.8 | 967.9 | 1128.7 | 1350.3 | 1571.6 | 1807.6 |
| 25° | 312.8 | 348.1 | 427.7 | 507.1 | 627.7 | 748.4 | 947.8 | 1146.9 | 1429.4 | 1711.7 | 2004.4 |
| 27.5° | 268.0 | 291.1 | 365.3 | 439.4 | 571.3 | 702.9 | 939.6 | 1176.1 | 1529.8 | 1883.5 | 2218.5 |
| 30° | 245.6 | 261.7 | 324.5 | 387.1 | 521.1 | 655.1 | 929.8 | 1204.6 | 1626.4 | 2048.1 | 2385.9 |
| 32.5° | 226.9 | 239.8 | 293.4 | 346.9 | 477.6 | 608.4 | 910.9 | 1213.2 | 1693.9 | 2174.6 | 2527.6 |
| 35° | 211.0 | 221.8 | 268.5 | 315.2 | 443.6 | 572.0 | 879.2 | 1186.4 | 1736.2 | 2285.9 | 2675.1 |
| 37.5° | 198.2 | 206.6 | 249.8 | 293.0 | 414.1 | 535.3 | 843.0 | 1150.7 | 1773.8 | 2396.8 | 2841.1 |
| 40° | 188.2 | 195.4 | 235.8 | 276.2 | 386.1 | 496.1 | 811.9 | 1127.6 | 1825.6 | 2523.6 | 3016.4 |
| 42.5° | 182.6 | 191.9 | 223.6 | 255.2 | 359.5 | 463.9 | 787.0 | 1110.1 | 1873.7 | 2637.1 | 3169.8 |
| 45° | 181.2 | 194.5 | 217.3 | 240.2 | 339.7 | 439.1 | 764.8 | 1090.2 | 1904.7 | 2719.2 | 3285.3 |
| 47.5° | 178.8 | 189.8 | 212.4 | 235.1 | 329.9 | 424.4 | 752.9 | 1081.1 | 1935.8 | 2790.2 | 3381.3 |
| 50° | 180.2 | 181.6 | 208.5 | 235.1 | 328.5 | 421.8 | 766.4 | 1111.0 | 2003.0 | 2894.8 | 3491.0 |
| 52.5° | 177.7 | 171.6 | 201.0 | 230.4 | 328.2 | 426.0 | 805.4 | 1184.8 | 2127.9 | 3070.8 | 3609.8 |
| 55° | 164.1 | 156.2 | 187.0 | 217.8 | 323.3 | 428.6 | 851.9 | 1274.9 | 2295.5 | 3315.9 | 3823.5 |
| 57.5° | 152.2 | 145.0 | 171.1 | 197.0 | 308.4 | 419.7 | 899.7 | 1379.5 | 2472.7 | 3565.7 | 4064.1 |
| 60° | 136.3 | 134.7 | 153.4 | 172.1 | 285.3 | 398.3 | 939.2 | 1479.8 | 2591.8 | 3703.5 | 4156.8 |
| 62.5° | 123.3 | 124.2 | 138.0 | 151.7 | 256.3 | 360.7 | 952.2 | 1543.6 | 2588.5 | 3633.4 | 4063.4 |
| 65° | 113.2 | 114.9 | 128.4 | 141.9 | 231.6 | 321.2 | 909.3 | 1497.1 | 2457.5 | 3417.7 | 3878.8 |
| 67.5° | 103.4 | 105.3 | 121.4 | 137.3 | 209.6 | 281.8 | 801.9 | 1321.8 | 2222.0 | 3121.9 | 3643.9 |
| 70° | 94.1 | 96.4 | 113.9 | 131.4 | 193.8 | 255.9 | 663.5 | 1071.1 | 1927.1 | 2783.0 | 3372.0 |
| 72.5° | 84.0 | 86.4 | 105.1 | 123.7 | 183.7 | 243.5 | 540.9 | 838.1 | 1563.9 | 2289.4 | 2884.3 |
| 75° | 73.8 | 75.4 | 95.7 | 115.8 | 170.0 | 224.1 | 424.4 | 624.5 | 1196.9 | 1769.3 | 2178.6 |
| 77.5° | 63.5 | 65.6 | 82.6 | 99.4 | 144.3 | 188.9 | 319.8 | 450.8 | 878.2 | 1305.5 | 1515.1 |
| 80° | 50.7 | 52.5 | 64.7 | 76.6 | 111.4 | 145.9 | 219.9 | 293.9 | 604.4 | 914.9 | 1033.0 |
| 82.5° | 38.8 | 40.9 | 49.0 | 57.0 | 79.4 | 101.8 | 133.3 | 164.8 | 401.5 | 638.0 | 647.8 |
| 85° | 26.6 | 27.3 | 33.1 | 38.8 | 49.0 | 59.3 | 76.3 | 93.4 | 265.7 | 438.0 | 364.9 |
| 87.5° | 13.3 | 13.3 | 17.3 | 21.2 | 26.4 | 31.5 | 40.4 | 49.0 | 85.0 | 120.9 | 69.6 |
| 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: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

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: P359609

CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 1921.1 | 1938.1 | 1955.4 | 1968.5 | 1981.8 | 2000.9 | 2020.0 | 2023.5 | 2027.3 | 2019.8 | 2012.3 |
| 5° | 1945.8 | 1997.4 | 2049.2 | 2097.1 | 2144.9 | 2173.7 | 2202.4 | 2208.2 | 2214.0 | 2196.1 | 2177.9 |
| 7.5° | 1854.1 | 1943.9 | 2033.8 | 2116.2 | 2198.6 | 2248.6 | 2298.8 | 2310.0 | 2321.4 | 2292.0 | 2262.6 |
| 10° | 1731.5 | 1841.9 | 1952.3 | 2060.9 | 2169.5 | 2242.1 | 2314.7 | 2329.1 | 2343.6 | 2307.0 | 2270.3 |
| 12.5° | 1636.7 | 1754.6 | 1872.5 | 1986.9 | 2101.5 | 2176.7 | 2251.9 | 2269.8 | 2287.8 | 2261.2 | 2234.4 |
| 15° | 1607.5 | 1718.4 | 1829.3 | 1929.0 | 2028.9 | 2090.3 | 2151.9 | 2159.2 | 2166.7 | 2162.5 | 2158.2 |
| 17.5° | 1660.5 | 1760.7 | 1861.1 | 1915.2 | 1969.6 | 1994.1 | 2018.9 | 2026.8 | 2035.0 | 2045.5 | 2056.2 |
| 20° | 1788.9 | 1859.4 | 1930.2 | 1927.8 | 1925.3 | 1913.4 | 1901.2 | 1899.1 | 1897.0 | 1927.1 | 1957.5 |
| 22.5° | 1980.6 | 2008.6 | 2036.9 | 1971.3 | 1905.7 | 1865.7 | 1825.6 | 1817.6 | 1809.5 | 1841.5 | 1873.7 |
| 25° | 2188.6 | 2183.5 | 2178.1 | 2053.2 | 1928.1 | 1852.0 | 1775.9 | 1767.0 | 1758.1 | 1785.4 | 1813.0 |
| 27.5° | 2394.5 | 2360.9 | 2327.3 | 2157.5 | 1987.8 | 1877.4 | 1767.0 | 1758.1 | 1749.2 | 1773.5 | 1797.8 |
| 30° | 2545.5 | 2491.6 | 2437.7 | 2245.6 | 2053.4 | 1922.2 | 1791.0 | 1776.6 | 1761.8 | 1791.7 | 1821.6 |
| 32.5° | 2663.4 | 2591.1 | 2518.7 | 2317.0 | 2115.3 | 1973.4 | 1831.4 | 1808.8 | 1786.1 | 1826.0 | 1866.0 |
| 35° | 2781.1 | 2679.3 | 2577.3 | 2380.7 | 2183.9 | 2033.8 | 1883.5 | 1855.7 | 1827.9 | 1882.8 | 1937.6 |
| 37.5° | 2929.1 | 2783.0 | 2636.6 | 2452.4 | 2268.2 | 2124.4 | 1980.4 | 1951.9 | 1923.4 | 1993.2 | 2063.2 |
| 40° | 3089.7 | 2894.8 | 2699.9 | 2530.8 | 2361.8 | 2249.8 | 2137.5 | 2110.4 | 2083.1 | 2168.1 | 2253.0 |
| 42.5° | 3223.2 | 2998.9 | 2774.6 | 2625.4 | 2476.0 | 2397.1 | 2317.9 | 2317.7 | 2317.2 | 2403.4 | 2489.5 |
| 45° | 3331.8 | 3085.7 | 2839.5 | 2717.6 | 2595.5 | 2554.4 | 2513.3 | 2546.2 | 2579.2 | 2656.9 | 2734.9 |
| 47.5° | 3412.8 | 3158.6 | 2904.1 | 2823.1 | 2742.1 | 2748.2 | 2754.2 | 2821.2 | 2888.2 | 2938.2 | 2988.4 |
| 50° | 3465.6 | 3224.6 | 2983.5 | 2958.5 | 2933.5 | 2987.9 | 3042.6 | 3119.4 | 3196.4 | 3230.5 | 3264.6 |
| 52.5° | 3542.4 | 3314.3 | 3086.0 | 3114.0 | 3142.0 | 3253.1 | 3364.3 | 3442.0 | 3519.7 | 3532.3 | 3545.2 |
| 55° | 3720.0 | 3479.1 | 3238.0 | 3291.7 | 3345.6 | 3508.5 | 3671.7 | 3732.4 | 3793.1 | 3797.8 | 3802.4 |
| 57.5° | 3972.4 | 3710.0 | 3447.6 | 3505.5 | 3563.4 | 3751.5 | 3939.9 | 4005.3 | 4070.9 | 4061.8 | 4052.5 |
| 60° | 4161.3 | 3929.2 | 3696.9 | 3755.3 | 3813.6 | 3997.1 | 4180.6 | 4255.8 | 4331.2 | 4311.1 | 4291.1 |
| 62.5° | 4172.9 | 4049.0 | 3924.8 | 3977.5 | 4030.5 | 4210.3 | 4390.0 | 4467.3 | 4544.6 | 4509.6 | 4474.5 |
| 65° | 3987.3 | 4042.9 | 4098.5 | 4116.0 | 4133.5 | 4301.1 | 4468.9 | 4528.0 | 4587.3 | 4569.6 | 4551.8 |
| 67.5° | 3731.7 | 3936.4 | 4141.4 | 4106.2 | 4070.9 | 4149.6 | 4228.3 | 4289.2 | 4350.1 | 4340.1 | 4329.8 |
| 70° | 3476.5 | 3749.9 | 4023.3 | 3850.1 | 3676.6 | 3644.2 | 3611.7 | 3677.3 | 3743.1 | 3702.5 | 3661.7 |
| 72.5° | 3042.1 | 3333.4 | 3625.0 | 3305.9 | 2986.8 | 2875.9 | 2765.0 | 2848.3 | 2931.7 | 2867.0 | 2802.1 |
| 75° | 2388.0 | 2709.9 | 3032.1 | 2651.3 | 2270.5 | 2122.5 | 1974.5 | 2046.2 | 2117.9 | 2073.5 | 2028.9 |
| 77.5° | 1777.7 | 2095.0 | 2412.2 | 2025.2 | 1637.9 | 1527.9 | 1417.7 | 1439.0 | 1460.5 | 1453.0 | 1445.3 |
| 80° | 1205.8 | 1426.8 | 1648.2 | 1390.4 | 1132.7 | 1141.1 | 1149.7 | 1139.7 | 1129.4 | 1144.4 | 1159.3 |
| 82.5° | 769.5 | 940.1 | 1111.0 | 974.2 | 837.4 | 915.8 | 994.3 | 955.7 | 917.0 | 931.2 | 945.7 |
| 85° | 439.1 | 606.0 | 773.2 | 720.7 | 667.9 | 713.7 | 759.6 | 699.9 | 640.1 | 666.3 | 692.6 |
| 87.5° | 115.8 | 335.2 | 554.9 | 503.8 | 452.7 | 393.4 | 334.1 | 254.9 | 175.8 | 256.8 | 337.8 |
| 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 |



REPORT NUMBER: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P359609

CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 | 1778.9 |
| 2.5° | 2008.4 | 2004.4 | 1990.2 | 1975.7 | 1954.2 | 1936.5 | 1905.7 |
| 5° | 2152.6 | 2127.4 | 2084.0 | 2040.4 | 1991.8 | 1936.0 | 1874.1 |
| 7.5° | 2203.8 | 2144.7 | 2061.4 | 1977.8 | 1902.6 | 1814.4 | 1732.2 |
| 10° | 2182.1 | 2093.6 | 1985.3 | 1876.7 | 1785.4 | 1683.9 | 1592.6 |
| 12.5° | 2140.5 | 2046.4 | 1927.1 | 1807.6 | 1703.7 | 1594.7 | 1492.4 |
| 15° | 2083.3 | 2008.1 | 1896.3 | 1784.5 | 1679.9 | 1573.9 | 1452.8 |
| 17.5° | 2020.7 | 1985.0 | 1904.3 | 1823.2 | 1732.7 | 1630.0 | 1487.8 |
| 20° | 1970.3 | 1983.4 | 1951.2 | 1919.0 | 1846.4 | 1756.7 | 1597.0 |
| 22.5° | 1936.2 | 1999.0 | 2023.8 | 2048.8 | 2005.1 | 1935.1 | 1750.4 |
| 25° | 1917.1 | 2021.2 | 2104.1 | 2187.2 | 2167.8 | 2113.9 | 1936.7 |
| 27.5° | 1925.5 | 2053.2 | 2181.8 | 2310.7 | 2328.7 | 2313.7 | 2133.0 |
| 30° | 1950.7 | 2080.0 | 2236.7 | 2393.6 | 2465.2 | 2485.3 | 2296.7 |
| 32.5° | 1992.7 | 2119.5 | 2290.1 | 2461.0 | 2569.4 | 2633.3 | 2446.3 |
| 35° | 2056.2 | 2174.8 | 2352.7 | 2530.6 | 2670.7 | 2787.4 | 2600.9 |
| 37.5° | 2165.3 | 2267.3 | 2431.4 | 2595.7 | 2777.4 | 2952.7 | 2771.1 |
| 40° | 2324.9 | 2397.1 | 2535.7 | 2674.6 | 2903.2 | 3139.9 | 2960.9 |
| 42.5° | 2526.4 | 2563.5 | 2673.5 | 2783.4 | 3034.6 | 3309.9 | 3146.4 |
| 45° | 2744.7 | 2754.5 | 2823.6 | 2892.9 | 3138.7 | 3425.7 | 3285.8 |
| 47.5° | 2954.8 | 2921.2 | 2948.7 | 2976.3 | 3218.6 | 3508.3 | 3391.6 |
| 50° | 3171.0 | 3077.3 | 3062.9 | 3048.4 | 3298.4 | 3605.6 | 3526.0 |
| 52.5° | 3390.9 | 3236.6 | 3179.4 | 3121.9 | 3393.7 | 3734.7 | 3693.4 |
| 55° | 3606.1 | 3409.8 | 3332.7 | 3255.7 | 3539.3 | 3892.3 | 3939.2 |
| 57.5° | 3830.0 | 3607.5 | 3536.1 | 3464.6 | 3753.4 | 4091.9 | 4159.9 |
| 60° | 4070.9 | 3850.5 | 3793.3 | 3735.9 | 4019.5 | 4307.6 | 4258.1 |
| 62.5° | 4299.5 | 4124.4 | 4094.3 | 4063.9 | 4288.7 | 4473.4 | 4219.8 |
| 65° | 4452.1 | 4352.2 | 4380.2 | 4408.5 | 4492.3 | 4514.7 | 4107.8 |
| 67.5° | 4350.1 | 4370.4 | 4488.8 | 4607.4 | 4549.7 | 4391.9 | 3886.9 |
| 70° | 3783.3 | 3905.2 | 4185.5 | 4466.1 | 4338.2 | 4063.0 | 3490.5 |
| 72.5° | 2938.9 | 3075.9 | 3492.2 | 3908.7 | 3790.8 | 3453.7 | 2867.0 |
| 75° | 2183.5 | 2338.2 | 2797.7 | 3257.1 | 3093.5 | 2583.4 | 2052.7 |
| 77.5° | 1548.9 | 1652.6 | 2106.2 | 2560.0 | 2293.2 | 1719.6 | 1381.3 |
| 80° | 1127.6 | 1095.8 | 1348.6 | 1601.5 | 1557.1 | 1137.4 | 887.1 |
| 82.5° | 868.2 | 790.7 | 909.8 | 1028.8 | 1022.3 | 789.3 | 650.9 |
| 85° | 661.6 | 630.5 | 735.8 | 841.1 | 751.0 | 534.6 | 413.7 |
| 87.5° | 385.7 | 433.8 | 557.7 | 681.9 | 511.7 | 162.2 | 80.3 |
| 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: P359609
 CATALOG NUMBER: NVN-SA1C-730-U-SLR

CANDELA DISTRIBUTION (continued):

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

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



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

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-2-R4

Test Date: 10/03/2019

Luminaire Tested: SA1C-730-U-5WQ

Data in this report applies to families of products SA1C-730-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-2-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-730-U-5WQ**
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2993
 CIE u': 0.2508
 CIE v': 0.5215
 Duv: 0.0000
 CIE x: 0.4374
 CIE y: 0.4043
 CIE z: 0.1583
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 53

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.8 | | |
| R1: | 67.5 | R9: | -38.3 |
| R2: | 82.9 | R10: | 62.5 |
| R3: | 94.7 | R11: | 63.7 |
| R4: | 67.7 | R12: | 57.8 |
| R5: | 67.9 | R13: | 70.4 |
| R6: | 77.6 | R14: | 97.3 |
| R7: | 76.0 | | |
| R8: | 40.5 | | |

Rf: 75.7
 Rg: 93.9



Test Conditions

Stabilization Time: 53M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-2-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: SP1-1908-441-2-R4

CIE 1931 Chromaticity Diagram



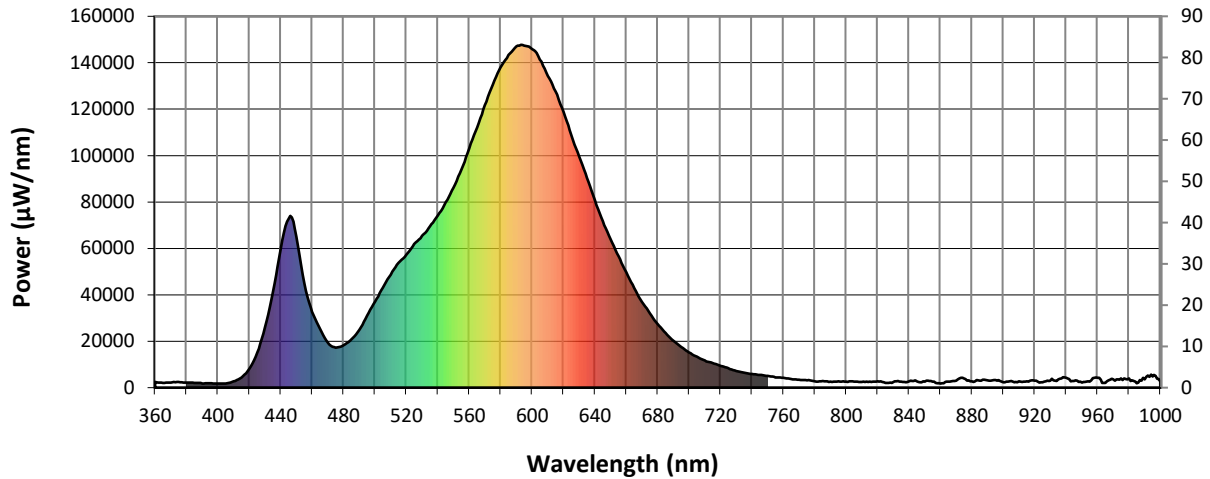
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-2-R4

Photopic Flux vs. Wavelength



#####

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 8494.8

S/P: 1.23

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3101.5 M/P: 0.45

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.9$
 CIE $R_a = 71.8$
 $R_g = -38.3$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 | |



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

Measure Comparisons



(END OF REPORT)