

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P196231

Luminaire Tested: **NVN-AF-01-LED-U-SLR-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-01-LED-U-SLR-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4460.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

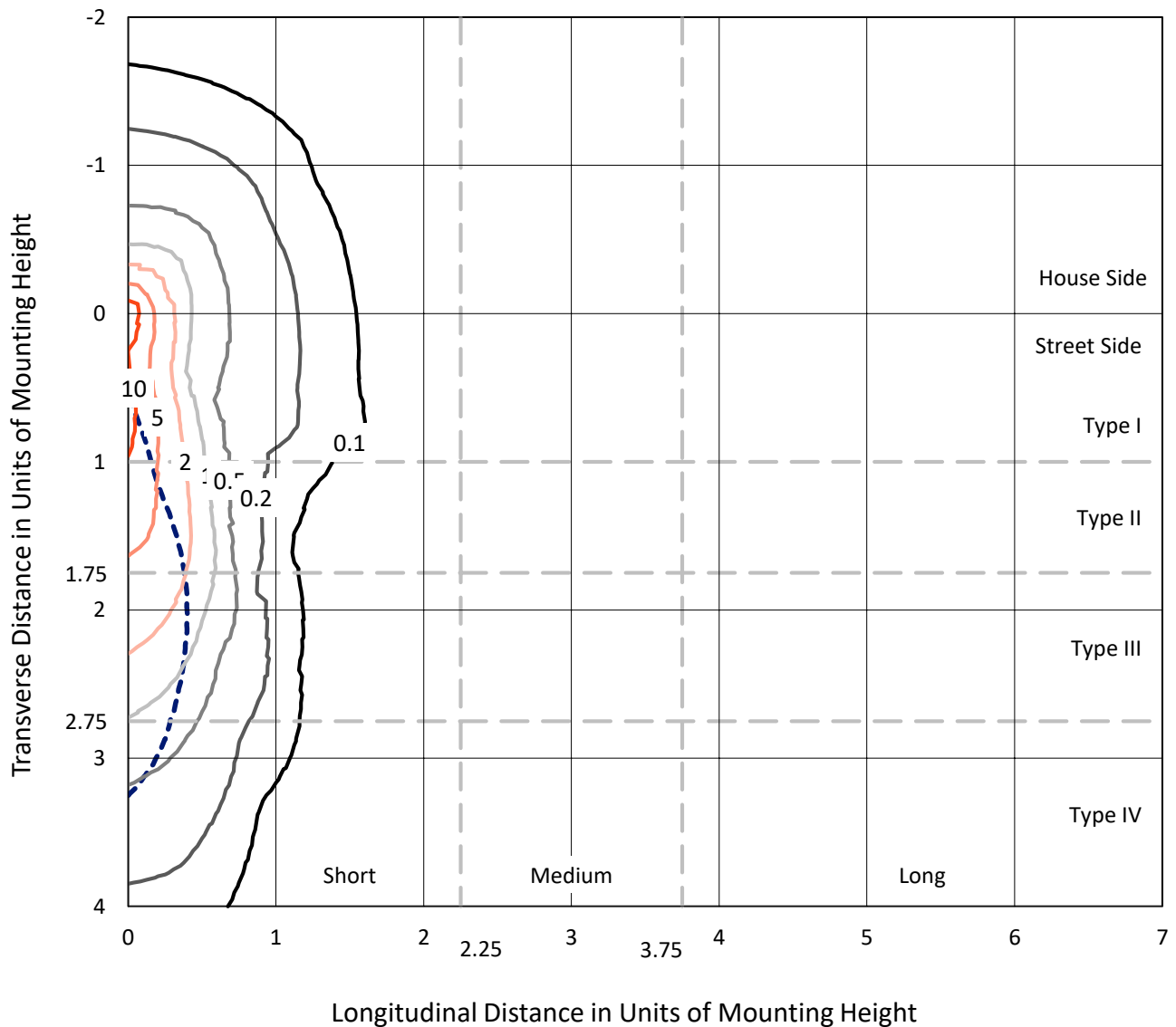
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

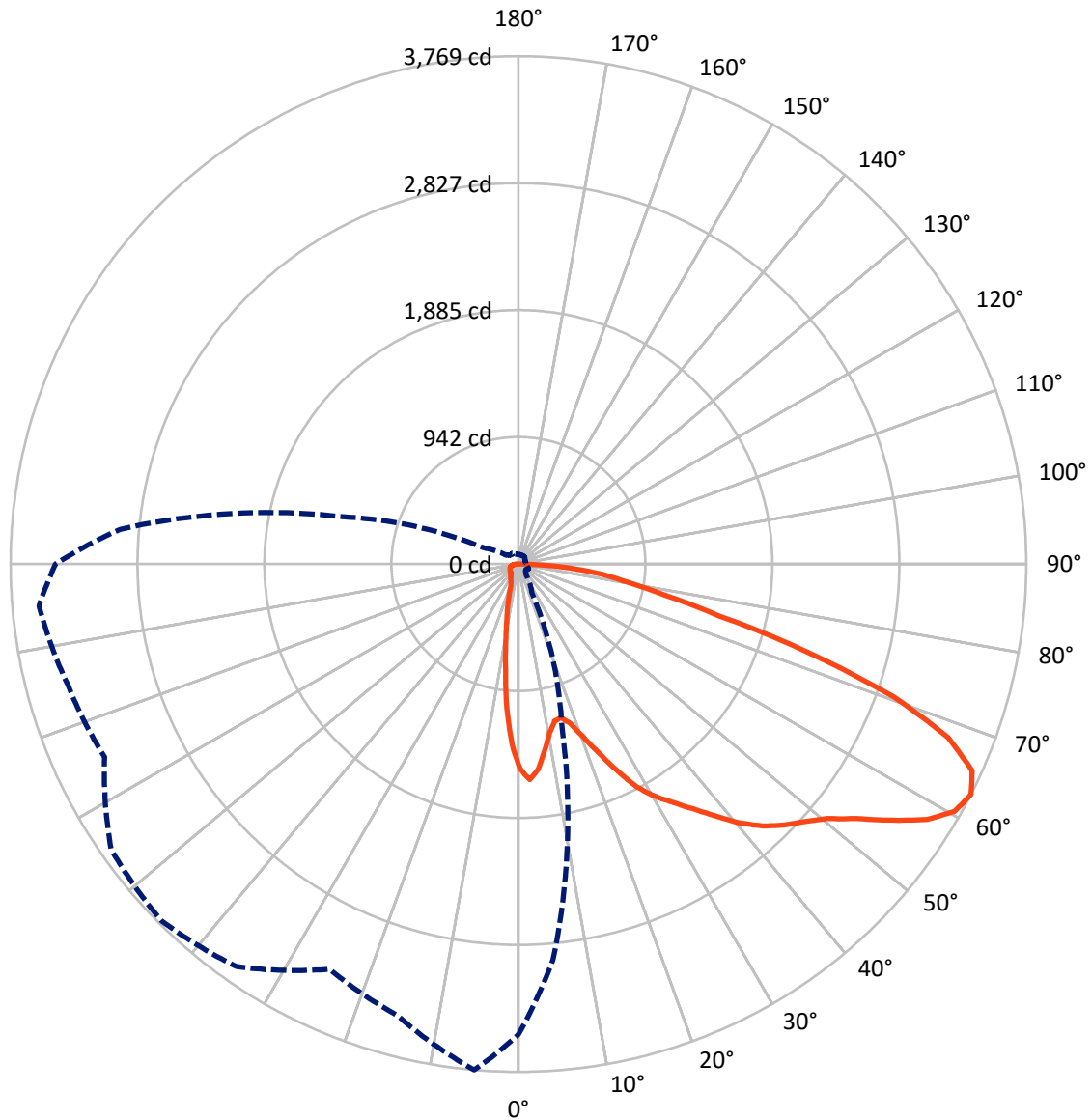
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 790.1 | 0.0 | 790.1 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 3670.0 | 0.0 | 3670.0 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 4460.1 | 0.0 | 4460.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.6 | 2.5 |
| 10°-20° | 202.0 | 4.5 |
| 20°-30° | 290.5 | 6.5 |
| 30°-40° | 444.9 | 10.0 |
| 40°-50° | 650.5 | 14.6 |
| 50°-60° | 946.5 | 21.2 |
| 60°-70° | 1096.6 | 24.6 |
| 70°-80° | 571.6 | 12.8 |
| 80°-90° | 146.9 | 3.3 |
| 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° | 4460.1 | 100.0 |
| 0°-180° | 4460.1 | 100.0 |



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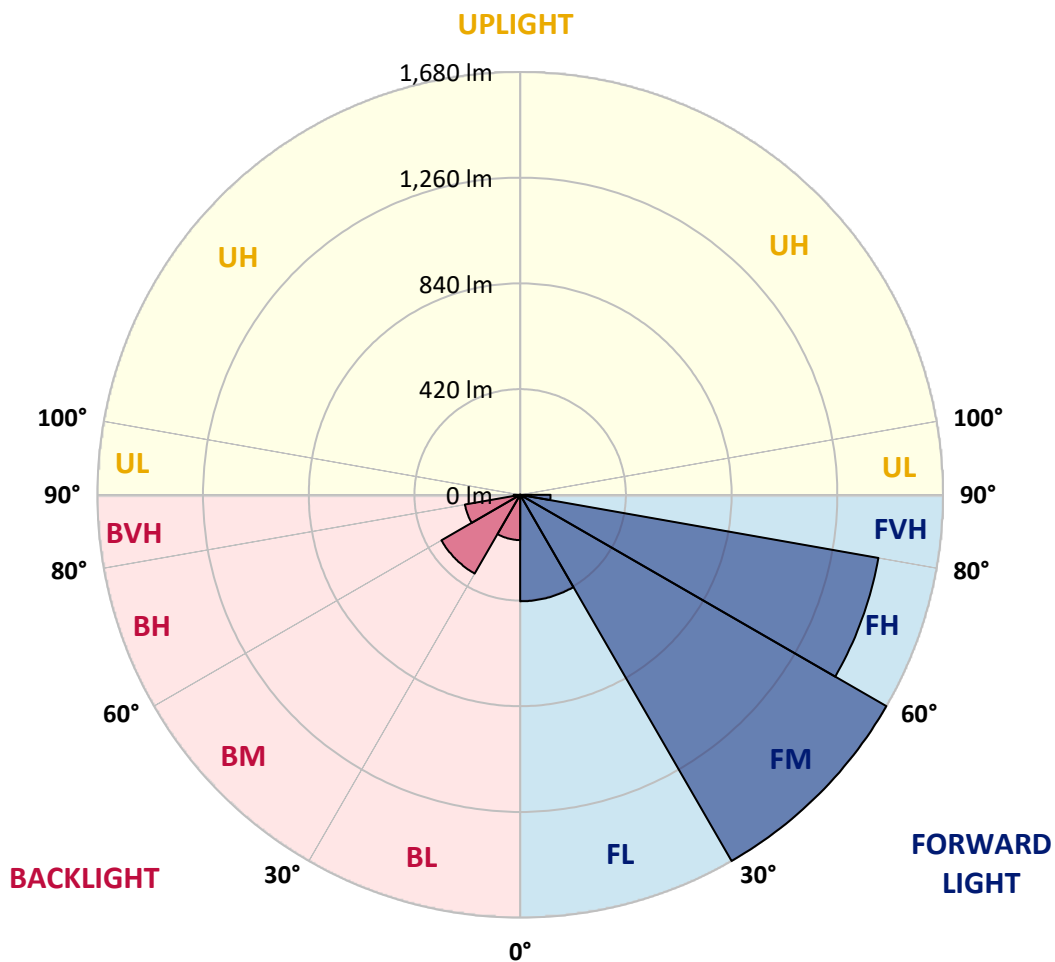
CATALOG NUMBER: NVN-AF-01-LED-U-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 423.3 | 9.5 | | | |
| FM | (30°-60°) | 1680.3 | 37.7 | | | |
| FH | (60°-80°) | 1445.4 | 32.4 | | | G1/1800 |
| FVH | (80°-90°) | 120.9 | 2.7 | | | G2/225 |
| BL | (0°-30°) | 179.8 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 361.5 | 8.1 | B1/1000 | | |
| BH | (60°-80°) | 222.8 | 5.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 26.1 | 0.6 | | | 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 Short





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CATALOG NUMBER: NVN-AF-01-LED-U-SLR-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 |
| 2.5° | 1569.7 | 1547.7 | 1496.9 | 1452.3 | 1396.6 | 1355.0 | 1304.2 | 1277.4 | 1257.6 | 1244.3 | 1233.7 |
| 5° | 1466.2 | 1413.2 | 1316.1 | 1231.1 | 1139.3 | 1073.0 | 995.3 | 953.0 | 926.8 | 912.6 | 906.1 |
| 7.5° | 1312.5 | 1242.4 | 1117.0 | 1002.8 | 888.0 | 805.2 | 746.3 | 683.6 | 650.3 | 628.6 | 621.5 |
| 10° | 1178.4 | 1099.2 | 949.4 | 821.0 | 732.4 | 673.6 | 623.2 | 565.6 | 522.9 | 485.7 | 471.8 |
| 12.5° | 1100.5 | 1008.3 | 837.6 | 721.5 | 647.1 | 584.0 | 530.7 | 468.6 | 423.6 | 384.8 | 369.9 |
| 15° | 1083.9 | 981.1 | 790.6 | 658.1 | 566.9 | 490.9 | 426.9 | 359.3 | 315.3 | 283.3 | 272.9 |
| 17.5° | 1133.7 | 1007.0 | 770.9 | 600.2 | 490.2 | 397.4 | 318.5 | 246.1 | 209.5 | 192.1 | 187.9 |
| 20° | 1236.2 | 1063.9 | 761.6 | 548.1 | 415.8 | 306.0 | 220.2 | 167.2 | 149.0 | 143.9 | 143.6 |
| 22.5° | 1371.2 | 1156.4 | 771.9 | 505.4 | 346.1 | 225.8 | 161.3 | 137.5 | 130.0 | 127.1 | 127.1 |
| 25° | 1523.5 | 1281.6 | 799.4 | 472.8 | 284.6 | 175.6 | 139.0 | 126.1 | 120.0 | 117.0 | 117.4 |
| 27.5° | 1709.7 | 1433.9 | 836.9 | 442.7 | 240.6 | 154.0 | 130.0 | 119.0 | 112.8 | 110.0 | 110.3 |
| 30° | 1850.0 | 1564.8 | 869.2 | 415.2 | 218.0 | 145.2 | 125.1 | 114.8 | 108.0 | 103.8 | 103.5 |
| 32.5° | 1981.4 | 1680.3 | 895.4 | 395.5 | 205.0 | 129.7 | 113.1 | 105.5 | 99.6 | 94.7 | 93.8 |
| 35° | 2126.5 | 1788.9 | 907.8 | 394.9 | 196.6 | 117.0 | 103.5 | 94.1 | 88.3 | 82.8 | 81.8 |
| 37.5° | 2291.1 | 1921.8 | 918.1 | 398.7 | 192.1 | 108.9 | 98.9 | 89.9 | 85.0 | 79.6 | 78.3 |
| 40° | 2462.5 | 2051.8 | 926.2 | 401.9 | 191.4 | 103.5 | 95.4 | 87.4 | 82.4 | 76.6 | 75.4 |
| 42.5° | 2609.6 | 2166.9 | 937.1 | 400.7 | 186.9 | 102.5 | 93.1 | 85.0 | 80.5 | 74.7 | 73.0 |
| 45° | 2727.4 | 2258.5 | 954.3 | 400.4 | 180.1 | 104.8 | 92.5 | 84.4 | 78.9 | 72.7 | 71.5 |
| 47.5° | 2836.9 | 2361.6 | 990.5 | 399.1 | 172.7 | 104.1 | 96.1 | 83.8 | 78.3 | 72.1 | 71.1 |
| 50° | 2962.5 | 2500.4 | 1052.3 | 389.3 | 162.3 | 99.6 | 102.5 | 83.1 | 76.6 | 71.1 | 70.2 |
| 52.5° | 3137.1 | 2703.5 | 1143.8 | 371.8 | 148.1 | 94.7 | 103.5 | 82.8 | 74.1 | 69.3 | 67.9 |
| 55° | 3342.4 | 2921.0 | 1242.4 | 346.7 | 129.3 | 86.3 | 98.3 | 81.5 | 71.5 | 66.3 | 64.3 |
| 57.5° | 3501.3 | 3081.8 | 1311.3 | 310.5 | 110.9 | 81.5 | 87.7 | 78.6 | 68.2 | 63.0 | 61.5 |
| 60° | 3545.9 | 3088.9 | 1323.6 | 267.1 | 101.6 | 78.3 | 75.4 | 85.7 | 65.7 | 60.1 | 58.5 |
| 62.5° | 3492.5 | 2947.6 | 1243.4 | 236.7 | 98.3 | 75.0 | 68.5 | 81.8 | 63.0 | 57.6 | 56.0 |
| 65° | 3334.3 | 2709.0 | 1063.9 | 232.2 | 101.6 | 72.1 | 65.0 | 65.4 | 60.5 | 54.9 | 53.4 |
| 67.5° | 2965.0 | 2357.8 | 838.2 | 235.1 | 105.5 | 69.3 | 62.4 | 59.5 | 57.6 | 52.7 | 50.7 |
| 70° | 2411.4 | 1898.2 | 660.3 | 240.3 | 108.9 | 65.4 | 59.2 | 55.6 | 54.0 | 48.8 | 47.9 |
| 72.5° | 1857.5 | 1519.2 | 521.0 | 236.7 | 112.5 | 61.5 | 54.6 | 51.8 | 49.8 | 44.9 | 44.0 |
| 75° | 1319.1 | 1207.2 | 382.9 | 203.1 | 103.1 | 56.0 | 49.5 | 46.9 | 45.3 | 40.1 | 39.8 |
| 77.5° | 950.7 | 904.2 | 266.5 | 152.6 | 81.5 | 49.2 | 43.7 | 41.4 | 40.4 | 34.6 | 34.6 |
| 80° | 758.3 | 688.1 | 159.4 | 99.6 | 59.5 | 40.7 | 36.5 | 35.6 | 34.6 | 28.7 | 29.2 |
| 82.5° | 544.9 | 477.3 | 101.9 | 62.1 | 43.7 | 31.0 | 28.4 | 28.1 | 26.5 | 21.4 | 21.4 |
| 85° | 279.4 | 243.9 | 65.4 | 41.7 | 30.7 | 20.0 | 18.7 | 18.1 | 17.2 | 13.3 | 13.3 |
| 87.5° | 54.3 | 74.7 | 36.2 | 20.4 | 14.8 | 7.2 | 7.2 | 6.1 | 7.2 | 4.8 | 5.2 |
| 90° | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 |
| 2.5° | 1254.0 | 1247.6 | 1243.1 | 1240.8 | 1273.5 | 1287.1 | 1302.5 | 1324.9 | 1340.1 | 1333.6 | 1354.3 |
| 5° | 936.5 | 941.0 | 951.3 | 967.5 | 1013.1 | 1034.8 | 1048.7 | 1067.1 | 1080.4 | 1067.1 | 1089.1 |
| 7.5° | 640.3 | 647.1 | 669.1 | 702.4 | 757.4 | 781.6 | 786.4 | 786.8 | 783.9 | 762.2 | 777.0 |
| 10° | 471.5 | 457.9 | 462.8 | 486.7 | 535.8 | 557.5 | 559.8 | 553.9 | 553.0 | 544.2 | 561.1 |
| 12.5° | 365.4 | 346.7 | 335.6 | 339.5 | 376.4 | 394.2 | 397.1 | 400.4 | 413.6 | 417.8 | 438.5 |
| 15° | 272.6 | 262.9 | 254.8 | 251.2 | 275.5 | 289.4 | 291.0 | 298.8 | 312.7 | 316.6 | 334.4 |
| 17.5° | 191.8 | 194.4 | 198.6 | 200.2 | 217.7 | 226.7 | 224.1 | 224.1 | 226.4 | 225.4 | 235.4 |
| 20° | 146.5 | 151.7 | 159.8 | 167.6 | 183.3 | 188.5 | 182.1 | 174.0 | 168.8 | 166.2 | 168.5 |
| 22.5° | 129.3 | 132.9 | 138.1 | 148.1 | 161.3 | 164.0 | 155.6 | 149.0 | 144.2 | 141.7 | 142.0 |
| 25° | 120.0 | 123.6 | 127.8 | 135.8 | 147.1 | 148.4 | 140.7 | 136.5 | 132.6 | 130.0 | 129.3 |
| 27.5° | 111.9 | 114.2 | 116.7 | 121.9 | 133.6 | 134.2 | 129.0 | 126.4 | 123.9 | 121.9 | 121.2 |
| 30° | 104.4 | 105.5 | 106.4 | 111.6 | 120.3 | 121.2 | 118.7 | 117.4 | 116.4 | 115.1 | 115.1 |
| 32.5° | 94.7 | 96.1 | 97.7 | 102.2 | 110.6 | 111.9 | 110.3 | 109.3 | 107.7 | 107.0 | 106.1 |
| 35° | 83.1 | 86.3 | 89.9 | 95.4 | 104.4 | 105.1 | 103.1 | 100.2 | 96.4 | 95.4 | 94.7 |
| 37.5° | 78.3 | 78.9 | 83.5 | 89.9 | 99.2 | 99.9 | 97.4 | 92.5 | 89.6 | 89.9 | 90.5 |
| 40° | 75.0 | 76.0 | 78.6 | 85.0 | 94.4 | 95.4 | 93.1 | 89.6 | 86.6 | 87.0 | 88.0 |
| 42.5° | 72.4 | 73.8 | 75.4 | 79.6 | 88.9 | 90.8 | 90.2 | 87.0 | 84.1 | 84.7 | 86.0 |
| 45° | 71.1 | 72.1 | 72.1 | 75.0 | 84.1 | 87.0 | 87.4 | 84.7 | 82.4 | 83.1 | 84.7 |
| 47.5° | 70.5 | 70.5 | 69.6 | 71.8 | 80.8 | 83.8 | 84.4 | 83.1 | 81.8 | 82.4 | 84.1 |
| 50° | 69.6 | 68.2 | 67.3 | 69.3 | 78.3 | 80.8 | 81.5 | 80.5 | 81.1 | 82.4 | 83.5 |
| 52.5° | 66.6 | 65.4 | 65.4 | 66.6 | 75.7 | 78.3 | 78.6 | 77.9 | 79.3 | 80.8 | 82.4 |
| 55° | 63.0 | 63.0 | 63.4 | 64.7 | 74.4 | 76.3 | 76.0 | 75.4 | 76.6 | 78.6 | 80.2 |
| 57.5° | 59.8 | 59.5 | 61.1 | 62.7 | 72.7 | 74.1 | 73.4 | 73.4 | 74.4 | 76.0 | 77.6 |
| 60° | 57.9 | 56.3 | 57.6 | 60.1 | 71.1 | 72.4 | 71.5 | 71.1 | 72.7 | 74.1 | 75.4 |
| 62.5° | 56.0 | 54.3 | 55.3 | 57.9 | 68.8 | 69.9 | 69.3 | 69.3 | 70.8 | 71.8 | 73.0 |
| 65° | 53.0 | 52.4 | 53.0 | 55.6 | 66.9 | 67.3 | 67.3 | 67.6 | 68.8 | 69.6 | 70.8 |
| 67.5° | 50.4 | 50.4 | 50.7 | 53.4 | 65.4 | 64.7 | 64.7 | 66.3 | 66.6 | 67.3 | 68.5 |
| 70° | 47.3 | 47.9 | 47.9 | 51.0 | 64.0 | 61.8 | 62.1 | 63.4 | 64.0 | 64.7 | 65.0 |
| 72.5° | 43.7 | 44.0 | 44.6 | 48.8 | 62.1 | 58.8 | 59.2 | 60.1 | 60.5 | 61.5 | 61.8 |
| 75° | 39.8 | 40.1 | 41.0 | 46.5 | 60.8 | 56.0 | 55.3 | 56.0 | 56.6 | 57.3 | 56.9 |
| 77.5° | 35.3 | 35.9 | 36.8 | 45.3 | 56.6 | 55.3 | 50.4 | 51.0 | 51.8 | 51.8 | 51.5 |
| 80° | 29.8 | 30.7 | 32.3 | 43.4 | 47.9 | 53.4 | 44.9 | 45.3 | 45.6 | 45.6 | 44.9 |
| 82.5° | 22.3 | 24.2 | 26.5 | 35.9 | 37.5 | 45.6 | 38.8 | 39.5 | 38.5 | 37.8 | 37.5 |
| 85° | 14.5 | 16.2 | 19.4 | 24.9 | 27.5 | 35.9 | 32.0 | 32.3 | 30.4 | 30.1 | 30.1 |
| 87.5° | 5.8 | 6.1 | 8.7 | 12.6 | 16.5 | 22.3 | 22.9 | 23.6 | 22.0 | 22.0 | 22.6 |
| 90° | 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-AF-01-LED-U-SLR-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 | 1520.5 |
| 2.5° | 1385.7 | 1418.0 | 1455.2 | 1493.0 | 1524.1 | 1564.2 | 1603.0 | 1644.4 | 1665.4 | 1677.6 | 1712.3 |
| 5° | 1123.4 | 1167.7 | 1220.4 | 1279.6 | 1328.7 | 1412.8 | 1503.4 | 1604.3 | 1652.8 | 1700.7 | 1791.2 |
| 7.5° | 803.6 | 846.9 | 908.4 | 985.0 | 1054.9 | 1165.8 | 1285.1 | 1421.6 | 1488.8 | 1566.4 | 1714.9 |
| 10° | 596.6 | 642.5 | 698.2 | 763.2 | 832.1 | 947.5 | 1081.4 | 1234.7 | 1308.8 | 1396.3 | 1565.1 |
| 12.5° | 483.8 | 537.5 | 595.1 | 653.3 | 712.4 | 790.0 | 930.4 | 1100.8 | 1180.3 | 1268.7 | 1437.8 |
| 15° | 377.4 | 435.0 | 497.1 | 560.4 | 619.3 | 705.9 | 849.2 | 1050.7 | 1141.5 | 1226.9 | 1365.3 |
| 17.5° | 267.1 | 321.4 | 391.3 | 468.2 | 553.6 | 656.1 | 831.8 | 1072.7 | 1182.9 | 1272.1 | 1365.0 |
| 20° | 182.1 | 219.5 | 289.4 | 380.6 | 486.0 | 616.0 | 838.2 | 1149.9 | 1287.7 | 1385.7 | 1420.9 |
| 22.5° | 145.6 | 163.3 | 210.5 | 303.3 | 427.8 | 587.0 | 864.7 | 1256.0 | 1438.1 | 1557.3 | 1522.8 |
| 25° | 132.3 | 142.3 | 166.8 | 239.6 | 376.1 | 567.5 | 916.5 | 1396.0 | 1606.5 | 1727.5 | 1645.3 |
| 27.5° | 124.2 | 132.9 | 148.7 | 196.9 | 331.4 | 555.0 | 982.1 | 1560.9 | 1796.4 | 1895.6 | 1773.1 |
| 30° | 119.0 | 127.8 | 142.3 | 176.9 | 297.8 | 536.1 | 1039.6 | 1711.6 | 1948.0 | 2012.3 | 1841.9 |
| 32.5° | 108.9 | 115.8 | 127.8 | 158.5 | 272.6 | 514.1 | 1089.4 | 1846.5 | 2091.3 | 2112.6 | 1924.8 |
| 35° | 98.6 | 105.8 | 117.7 | 143.6 | 257.8 | 497.1 | 1115.6 | 1966.1 | 2233.2 | 2212.8 | 2006.9 |
| 37.5° | 94.7 | 100.6 | 111.6 | 132.9 | 249.6 | 485.7 | 1125.7 | 2083.9 | 2385.5 | 2323.8 | 2064.1 |
| 40° | 92.2 | 97.4 | 107.0 | 125.8 | 247.3 | 475.1 | 1123.4 | 2195.8 | 2533.3 | 2438.6 | 2109.1 |
| 42.5° | 90.2 | 94.7 | 103.8 | 120.9 | 241.2 | 465.0 | 1115.9 | 2292.4 | 2651.7 | 2537.5 | 2152.1 |
| 45° | 88.6 | 93.5 | 102.5 | 123.6 | 230.0 | 454.0 | 1111.4 | 2380.7 | 2742.5 | 2621.0 | 2209.7 |
| 47.5° | 88.0 | 93.5 | 102.8 | 122.9 | 217.7 | 441.7 | 1127.6 | 2478.7 | 2821.8 | 2691.2 | 2286.3 |
| 50° | 87.0 | 93.1 | 110.0 | 117.0 | 200.8 | 426.6 | 1182.2 | 2595.4 | 2904.9 | 2770.0 | 2385.5 |
| 52.5° | 85.4 | 92.8 | 117.4 | 112.5 | 179.1 | 405.5 | 1270.9 | 2760.3 | 3048.5 | 2923.7 | 2532.4 |
| 55° | 83.5 | 93.5 | 112.2 | 105.5 | 156.2 | 378.4 | 1359.5 | 2986.4 | 3281.3 | 3171.4 | 2743.2 |
| 57.5° | 81.1 | 92.5 | 106.1 | 98.9 | 137.1 | 344.1 | 1426.7 | 3171.7 | 3473.4 | 3426.9 | 3002.3 |
| 60° | 79.6 | 94.7 | 95.4 | 95.0 | 124.8 | 311.4 | 1433.3 | 3159.7 | 3528.7 | 3592.7 | 3255.7 |
| 62.5° | 77.6 | 96.7 | 87.0 | 92.2 | 118.7 | 281.0 | 1353.4 | 2964.1 | 3435.3 | 3571.4 | 3462.4 |
| 65° | 75.0 | 84.4 | 82.4 | 89.6 | 118.7 | 264.8 | 1167.4 | 2638.4 | 3176.9 | 3369.6 | 3574.6 |
| 67.5° | 72.4 | 76.6 | 79.3 | 86.0 | 121.2 | 249.6 | 938.1 | 2225.5 | 2769.4 | 3044.0 | 3448.5 |
| 70° | 68.8 | 72.4 | 75.7 | 82.8 | 120.0 | 239.0 | 738.3 | 1783.7 | 2279.1 | 2593.5 | 3099.5 |
| 72.5° | 65.7 | 68.2 | 71.5 | 77.9 | 120.0 | 234.2 | 593.1 | 1399.3 | 1740.1 | 2005.0 | 2567.6 |
| 75° | 60.8 | 63.0 | 66.0 | 73.0 | 117.7 | 214.1 | 445.3 | 1121.2 | 1273.2 | 1439.0 | 2026.0 |
| 77.5° | 56.0 | 57.6 | 59.8 | 66.9 | 106.1 | 178.8 | 315.0 | 868.3 | 943.3 | 1035.1 | 1579.3 |
| 80° | 49.8 | 51.0 | 52.7 | 59.8 | 88.0 | 138.7 | 205.0 | 679.1 | 705.3 | 749.6 | 1039.0 |
| 82.5° | 42.7 | 44.6 | 44.9 | 51.5 | 70.8 | 100.6 | 121.9 | 465.3 | 465.0 | 530.0 | 733.1 |
| 85° | 34.9 | 35.9 | 36.5 | 40.4 | 52.4 | 66.9 | 80.2 | 254.2 | 226.7 | 317.5 | 636.7 |
| 87.5° | 26.2 | 25.3 | 26.2 | 27.2 | 34.6 | 39.5 | 43.0 | 46.9 | 28.1 | 57.6 | 370.3 |
| 90° | 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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| 5° | 1853.9 | 1889.2 | 1873.6 | 1823.2 | 1735.2 | 1635.3 | 1530.2 | 1466.2 |
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| 15° | 1465.9 | 1507.6 | 1541.6 | 1562.6 | 1484.6 | 1343.6 | 1182.2 | 1083.9 |
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| 20° | 1341.7 | 1278.3 | 1294.9 | 1365.6 | 1448.4 | 1468.4 | 1366.3 | 1236.2 |
| 22.5° | 1339.5 | 1240.4 | 1243.7 | 1320.0 | 1470.7 | 1590.7 | 1519.2 | 1371.2 |
| 25° | 1374.3 | 1236.2 | 1239.2 | 1315.2 | 1510.2 | 1714.0 | 1696.2 | 1523.5 |
| 27.5° | 1433.9 | 1254.3 | 1252.4 | 1336.5 | 1562.9 | 1816.8 | 1874.7 | 1709.7 |
| 30° | 1498.2 | 1280.5 | 1275.7 | 1370.8 | 1614.6 | 1880.1 | 2001.4 | 1850.0 |
| 32.5° | 1578.4 | 1327.2 | 1310.3 | 1420.9 | 1665.8 | 1940.9 | 2109.7 | 1981.4 |
| 35° | 1654.7 | 1395.4 | 1371.2 | 1492.7 | 1720.4 | 2008.5 | 2231.0 | 2126.5 |
| 37.5° | 1732.7 | 1497.2 | 1483.7 | 1596.2 | 1797.6 | 2081.9 | 2369.8 | 2291.1 |
| 40° | 1832.6 | 1642.1 | 1635.7 | 1746.6 | 1900.8 | 2162.1 | 2525.3 | 2462.5 |
| 42.5° | 1940.2 | 1796.0 | 1790.6 | 1919.3 | 2028.9 | 2242.6 | 2658.4 | 2609.6 |
| 45° | 2049.9 | 1982.7 | 1983.9 | 2103.6 | 2163.7 | 2318.6 | 2763.3 | 2727.4 |
| 47.5° | 2179.3 | 2186.7 | 2232.9 | 2294.7 | 2295.0 | 2403.3 | 2856.1 | 2836.9 |
| 50° | 2343.5 | 2433.1 | 2518.5 | 2528.2 | 2427.6 | 2515.2 | 2969.6 | 2962.5 |
| 52.5° | 2529.5 | 2717.4 | 2816.6 | 2785.9 | 2557.0 | 2653.9 | 3137.4 | 3137.1 |
| 55° | 2750.3 | 3014.5 | 3108.0 | 3055.6 | 2711.8 | 2834.7 | 3356.7 | 3342.4 |
| 57.5° | 2979.2 | 3300.4 | 3375.7 | 3307.5 | 2905.6 | 3045.2 | 3576.5 | 3501.3 |
| 60° | 3226.7 | 3546.5 | 3623.1 | 3520.6 | 3122.9 | 3255.1 | 3722.1 | 3545.9 |
| 62.5° | 3388.7 | 3690.4 | 3745.3 | 3647.0 | 3317.5 | 3468.9 | 3769.0 | 3492.5 |
| 65° | 3397.1 | 3594.6 | 3609.2 | 3574.3 | 3400.3 | 3654.5 | 3701.0 | 3334.3 |
| 67.5° | 3166.2 | 3177.8 | 3196.9 | 3234.5 | 3223.4 | 3571.7 | 3439.2 | 2965.0 |
| 70° | 2672.4 | 2517.2 | 2579.9 | 2616.1 | 2697.6 | 3176.9 | 2955.0 | 2411.4 |
| 72.5° | 2043.4 | 1816.8 | 1887.9 | 1875.6 | 2045.1 | 2605.8 | 2260.7 | 1857.5 |
| 75° | 1470.7 | 1238.9 | 1244.3 | 1245.0 | 1469.5 | 2080.0 | 1541.6 | 1319.1 |
| 77.5° | 999.5 | 876.7 | 894.8 | 883.4 | 983.4 | 1629.5 | 1109.8 | 950.7 |
| 80° | 683.6 | 680.4 | 684.3 | 657.8 | 655.8 | 1053.2 | 821.7 | 758.3 |
| 82.5° | 507.1 | 468.6 | 463.1 | 435.0 | 502.6 | 805.2 | 623.8 | 544.9 |
| 85° | 400.0 | 259.3 | 225.4 | 272.0 | 435.3 | 740.8 | 380.3 | 279.4 |
| 87.5° | 169.4 | 101.9 | 61.8 | 122.2 | 241.9 | 543.0 | 105.5 | 54.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)