

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: P195287

Luminaire Tested: **NVN-AF-05-LED-U-SLR-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P195287
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-05-LED-U-SLR-7060-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29134 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
Input Voltage (V): NR
Input Current (A_{in}): 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



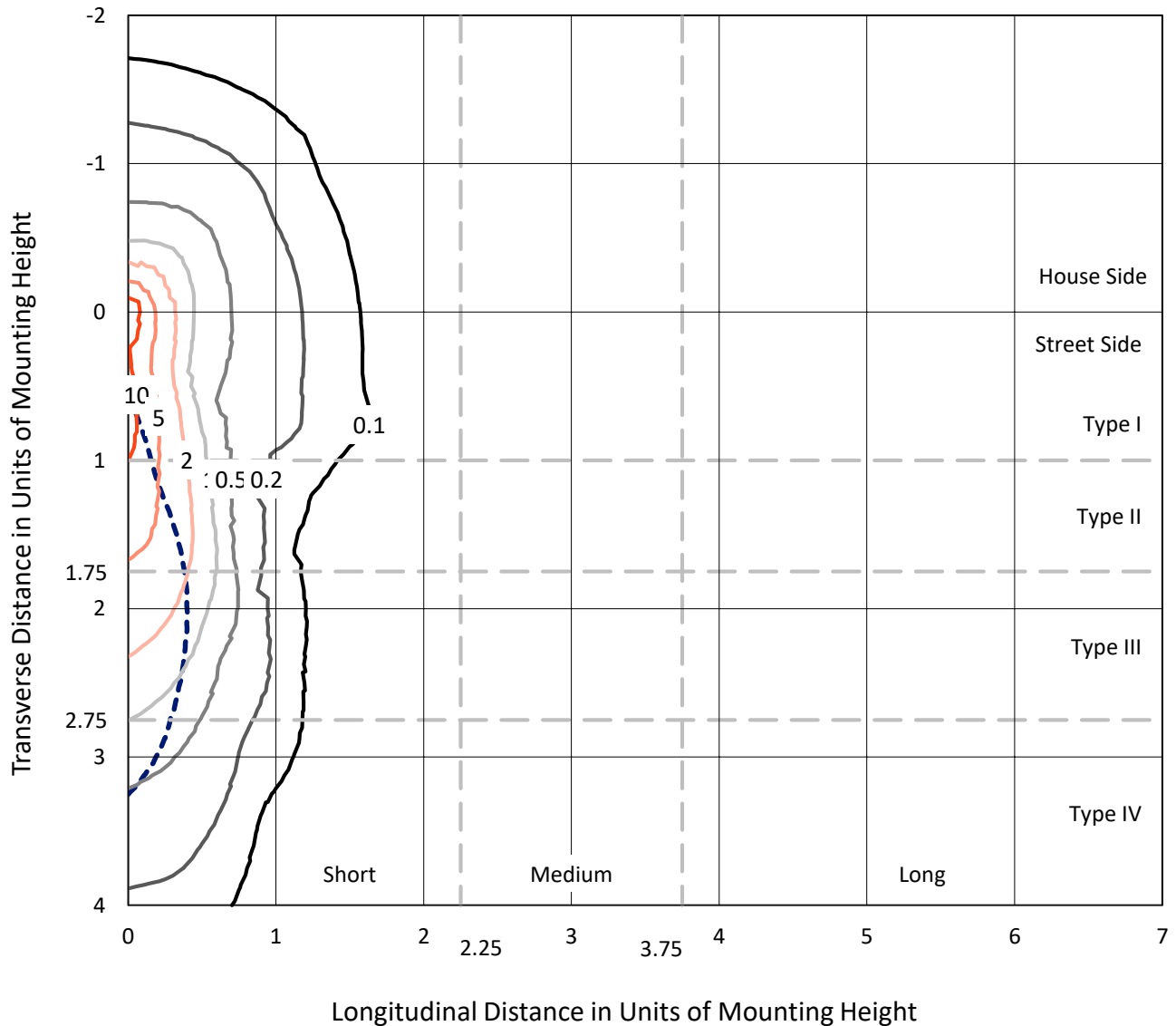


REPORT NUMBER: P195287

CATALOG NUMBER: NVN-AF-05-LED-U-SLR-7060-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

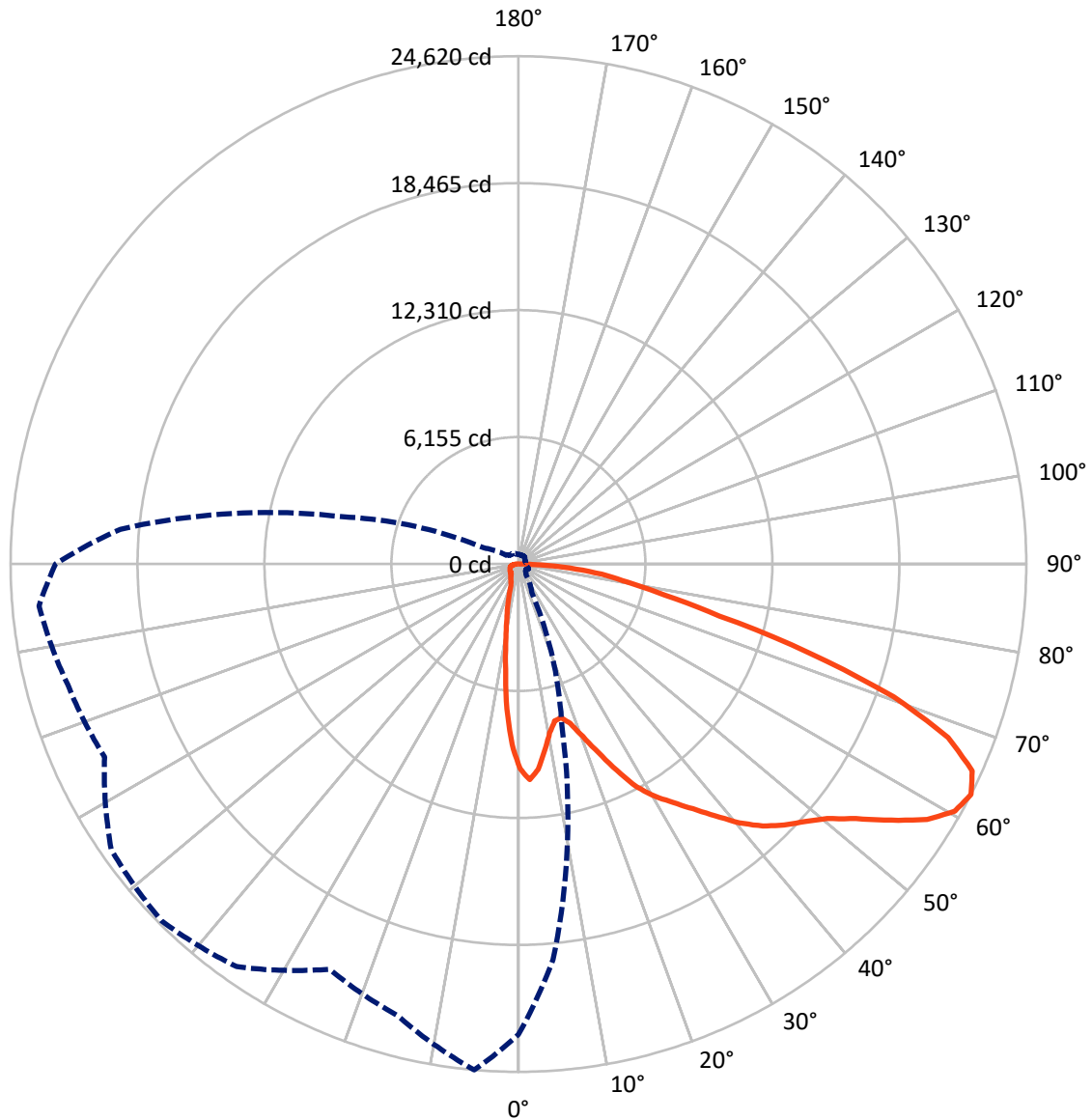


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P195287

CATALOG NUMBER: NVN-AF-05-LED-U-SLR-7060-1200

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 | 5161.1 | 0.0 | 5161.1 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 23972.9 | 0.0 | 23972.9 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 29134.0 | 0.0 | 29134.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 722.3 | 2.5 |
| 10°-20° | 1319.3 | 4.5 |
| 20°-30° | 1897.5 | 6.5 |
| 30°-40° | 2906.3 | 10.0 |
| 40°-50° | 4249.1 | 14.6 |
| 50°-60° | 6182.4 | 21.2 |
| 60°-70° | 7163.2 | 24.6 |
| 70°-80° | 3734.0 | 12.8 |
| 80°-90° | 959.8 | 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° | 29134.0 | 100.0 |
| 0°-180° | 29134.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P195287

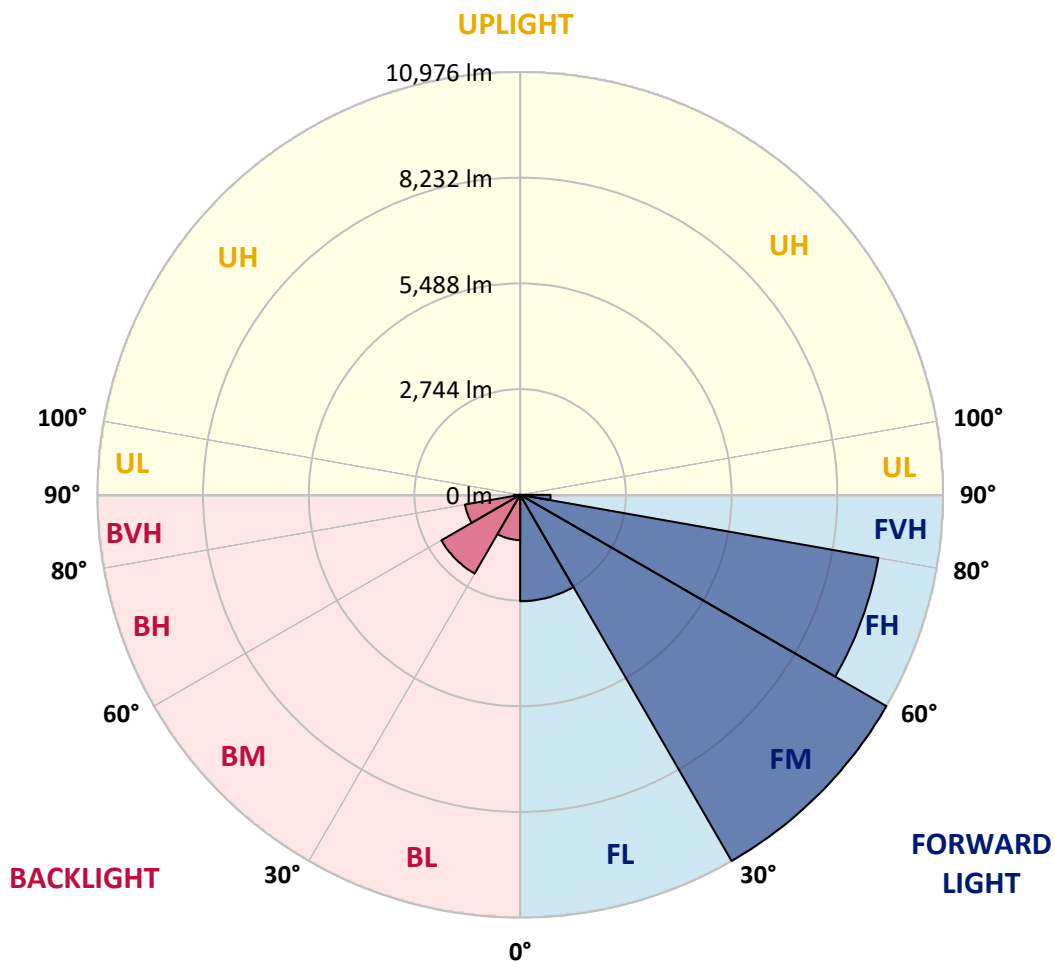
CATALOG NUMBER: NVN-AF-05-LED-U-SLR-7060-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2764.9 | 9.5 | | | |
| FM | (30°-60°) | 10976.3 | 37.7 | | | |
| FH | (60°-80°) | 9441.9 | 32.4 | | | G4/12000 |
| FVH | (80°-90°) | 789.7 | 2.7 | | | G5 |
| BL | (0°-30°) | 1174.2 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 2361.4 | 8.1 | B2/2500 | | |
| BH | (60°-80°) | 1455.3 | 5.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 170.2 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P195287

CATALOG NUMBER: NVN-AF-05-LED-U-SLR-7060-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 |
| 2.5° | 10253.4 | 10109.8 | 9778.2 | 9486.7 | 9123.3 | 8850.8 | 8519.2 | 8343.9 | 8215.0 | 8128.4 | 8058.7 |
| 5° | 9577.5 | 9231.1 | 8597.3 | 8041.8 | 7441.9 | 7008.8 | 6501.9 | 6225.2 | 6054.1 | 5961.1 | 5918.9 |
| 7.5° | 8574.1 | 8115.7 | 7296.1 | 6550.5 | 5800.6 | 5259.8 | 4875.3 | 4465.5 | 4248.0 | 4106.4 | 4060.0 |
| 10° | 7697.5 | 7179.9 | 6201.9 | 5363.3 | 4784.5 | 4400.1 | 4070.5 | 3694.5 | 3415.7 | 3172.8 | 3081.9 |
| 12.5° | 7188.4 | 6586.4 | 5471.0 | 4712.7 | 4226.9 | 3814.9 | 3466.4 | 3060.8 | 2767.2 | 2513.7 | 2416.6 |
| 15° | 7080.7 | 6408.9 | 5164.7 | 4298.7 | 3703.0 | 3206.6 | 2788.3 | 2346.8 | 2059.6 | 1850.4 | 1782.8 |
| 17.5° | 7406.0 | 6577.9 | 5035.9 | 3920.6 | 3202.4 | 2596.1 | 2080.7 | 1607.5 | 1368.8 | 1254.7 | 1227.3 |
| 20° | 8075.6 | 6949.7 | 4974.6 | 3580.5 | 2716.5 | 1998.3 | 1438.5 | 1092.1 | 973.8 | 940.0 | 937.9 |
| 22.5° | 8956.4 | 7553.8 | 5042.2 | 3301.6 | 2260.2 | 1474.4 | 1054.1 | 897.8 | 849.2 | 830.2 | 830.2 |
| 25° | 9951.4 | 8371.3 | 5221.8 | 3088.3 | 1858.9 | 1147.0 | 908.3 | 823.8 | 783.7 | 764.7 | 766.8 |
| 27.5° | 11168.1 | 9366.2 | 5466.8 | 2891.8 | 1571.6 | 1005.5 | 849.2 | 777.4 | 737.2 | 718.2 | 720.3 |
| 30° | 12084.9 | 10221.8 | 5678.0 | 2712.3 | 1423.7 | 948.5 | 817.5 | 749.9 | 705.5 | 678.1 | 676.0 |
| 32.5° | 12942.5 | 10975.9 | 5849.2 | 2583.4 | 1339.2 | 847.1 | 739.3 | 688.6 | 650.6 | 618.9 | 612.6 |
| 35° | 13890.9 | 11685.6 | 5929.4 | 2579.2 | 1284.3 | 764.7 | 676.0 | 614.7 | 576.7 | 540.8 | 534.4 |
| 37.5° | 14966.1 | 12553.8 | 5997.0 | 2604.6 | 1254.7 | 711.9 | 646.4 | 587.2 | 555.6 | 519.6 | 511.2 |
| 40° | 16085.7 | 13403.0 | 6049.8 | 2625.7 | 1250.5 | 676.0 | 623.1 | 570.3 | 538.7 | 500.6 | 492.2 |
| 42.5° | 17046.8 | 14155.0 | 6121.6 | 2617.2 | 1220.9 | 669.6 | 608.4 | 555.6 | 526.0 | 488.0 | 477.4 |
| 45° | 17815.7 | 14752.8 | 6233.6 | 2615.1 | 1176.6 | 684.4 | 604.1 | 551.3 | 515.4 | 475.3 | 466.8 |
| 47.5° | 18531.8 | 15426.6 | 6470.2 | 2606.7 | 1128.0 | 680.2 | 627.4 | 547.1 | 511.2 | 471.1 | 464.7 |
| 50° | 19351.4 | 16332.8 | 6873.7 | 2543.3 | 1060.4 | 650.6 | 669.6 | 542.9 | 500.6 | 464.7 | 458.4 |
| 52.5° | 20492.1 | 17659.4 | 7471.5 | 2429.2 | 967.5 | 618.9 | 676.0 | 540.8 | 483.7 | 452.0 | 443.6 |
| 55° | 21833.5 | 19081.0 | 8115.7 | 2264.5 | 844.9 | 564.0 | 642.2 | 532.3 | 466.8 | 433.0 | 420.4 |
| 57.5° | 22870.6 | 20130.9 | 8565.7 | 2027.9 | 724.5 | 532.3 | 572.5 | 513.3 | 445.7 | 411.9 | 401.4 |
| 60° | 23162.1 | 20177.4 | 8645.9 | 1744.8 | 663.3 | 511.2 | 492.2 | 559.8 | 428.8 | 392.9 | 382.3 |
| 62.5° | 22813.6 | 19254.2 | 8122.1 | 1546.3 | 642.2 | 490.1 | 447.8 | 534.4 | 411.9 | 376.0 | 365.4 |
| 65° | 21780.6 | 17695.3 | 6949.7 | 1516.7 | 663.3 | 471.1 | 424.6 | 426.7 | 395.0 | 359.1 | 348.5 |
| 67.5° | 19368.3 | 15401.3 | 5475.3 | 1535.7 | 688.6 | 452.0 | 407.7 | 388.7 | 376.0 | 344.3 | 331.6 |
| 70° | 15751.9 | 12399.6 | 4313.5 | 1569.5 | 711.9 | 426.7 | 386.6 | 363.3 | 352.8 | 319.0 | 312.6 |
| 72.5° | 12133.4 | 9923.9 | 3403.0 | 1546.3 | 735.1 | 401.4 | 357.0 | 338.0 | 325.3 | 293.6 | 287.3 |
| 75° | 8616.4 | 7885.5 | 2501.0 | 1326.6 | 673.8 | 365.4 | 323.2 | 306.3 | 295.7 | 261.9 | 259.8 |
| 77.5° | 6210.4 | 5906.2 | 1740.6 | 997.0 | 532.3 | 321.1 | 285.2 | 270.4 | 264.0 | 226.0 | 226.0 |
| 80° | 4953.5 | 4495.1 | 1041.4 | 650.6 | 388.7 | 266.2 | 238.7 | 232.4 | 226.0 | 188.0 | 190.1 |
| 82.5° | 3559.3 | 3117.9 | 665.4 | 405.6 | 285.2 | 202.8 | 185.9 | 183.8 | 173.2 | 139.4 | 139.4 |
| 85° | 1825.1 | 1592.7 | 426.7 | 272.5 | 200.7 | 131.0 | 122.5 | 118.3 | 112.0 | 86.6 | 86.6 |
| 87.5° | 354.9 | 488.0 | 236.6 | 133.1 | 97.2 | 46.5 | 46.5 | 40.1 | 46.5 | 31.7 | 33.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P195287

CATALOG NUMBER: NVN-AF-05-LED-U-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 |
| 2.5° | 8191.8 | 8149.5 | 8119.9 | 8105.2 | 8318.5 | 8407.2 | 8508.6 | 8654.4 | 8753.7 | 8711.4 | 8846.6 |
| 5° | 6117.4 | 6147.0 | 6214.6 | 6320.2 | 6618.1 | 6759.6 | 6850.4 | 6970.8 | 7057.4 | 6970.8 | 7114.5 |
| 7.5° | 4182.5 | 4226.9 | 4370.5 | 4588.1 | 4947.2 | 5105.6 | 5137.3 | 5139.4 | 5120.4 | 4978.9 | 5076.0 |
| 10° | 3079.8 | 2991.1 | 3022.8 | 3179.1 | 3500.2 | 3641.7 | 3656.5 | 3618.5 | 3612.2 | 3555.1 | 3665.0 |
| 12.5° | 2387.0 | 2264.5 | 2192.6 | 2218.0 | 2458.8 | 2575.0 | 2594.0 | 2615.1 | 2701.7 | 2729.2 | 2864.4 |
| 15° | 1780.7 | 1717.4 | 1664.5 | 1641.3 | 1799.7 | 1890.6 | 1901.1 | 1951.8 | 2042.7 | 2068.0 | 2184.2 |
| 17.5° | 1252.6 | 1269.5 | 1297.0 | 1307.6 | 1421.6 | 1480.8 | 1463.9 | 1463.9 | 1478.7 | 1472.3 | 1537.8 |
| 20° | 956.9 | 990.7 | 1043.5 | 1094.2 | 1197.7 | 1231.5 | 1189.3 | 1136.5 | 1102.7 | 1085.8 | 1100.5 |
| 22.5° | 844.9 | 868.2 | 902.0 | 967.5 | 1054.1 | 1071.0 | 1016.0 | 973.8 | 942.1 | 925.2 | 927.3 |
| 25° | 783.7 | 806.9 | 834.4 | 887.2 | 961.1 | 969.6 | 918.9 | 891.4 | 866.1 | 849.2 | 844.9 |
| 27.5° | 730.9 | 745.7 | 762.6 | 796.4 | 872.4 | 876.6 | 842.8 | 825.9 | 809.0 | 796.4 | 792.1 |
| 30° | 682.3 | 688.6 | 695.0 | 728.8 | 785.8 | 792.1 | 775.2 | 766.8 | 760.5 | 752.0 | 752.0 |
| 32.5° | 618.9 | 627.4 | 637.9 | 667.5 | 722.4 | 730.9 | 720.3 | 714.0 | 703.4 | 699.2 | 692.9 |
| 35° | 542.9 | 564.0 | 587.2 | 623.1 | 682.3 | 686.5 | 673.8 | 654.8 | 629.5 | 623.1 | 618.9 |
| 37.5° | 511.2 | 515.4 | 545.0 | 587.2 | 648.5 | 652.7 | 635.8 | 604.1 | 585.1 | 587.2 | 591.5 |
| 40° | 490.1 | 496.4 | 513.3 | 555.6 | 616.8 | 623.1 | 608.4 | 585.1 | 566.1 | 568.2 | 574.6 |
| 42.5° | 473.2 | 481.6 | 492.2 | 519.6 | 580.9 | 593.6 | 589.4 | 568.2 | 549.2 | 553.4 | 561.9 |
| 45° | 464.7 | 471.1 | 471.1 | 490.1 | 549.2 | 568.2 | 570.3 | 553.4 | 538.7 | 542.9 | 553.4 |
| 47.5° | 460.5 | 460.5 | 454.2 | 468.9 | 528.1 | 547.1 | 551.3 | 542.9 | 534.4 | 538.7 | 549.2 |
| 50° | 454.2 | 445.7 | 439.4 | 452.0 | 511.2 | 528.1 | 532.3 | 526.0 | 530.2 | 538.7 | 545.0 |
| 52.5° | 435.1 | 426.7 | 426.7 | 435.1 | 494.3 | 511.2 | 513.3 | 509.1 | 517.5 | 528.1 | 538.7 |
| 55° | 411.9 | 411.9 | 414.0 | 422.5 | 485.8 | 498.5 | 496.4 | 492.2 | 500.6 | 513.3 | 523.9 |
| 57.5° | 390.8 | 388.7 | 399.2 | 409.8 | 475.3 | 483.7 | 479.5 | 479.5 | 485.8 | 496.4 | 507.0 |
| 60° | 378.1 | 367.6 | 376.0 | 392.9 | 464.7 | 473.2 | 466.8 | 464.7 | 475.3 | 483.7 | 492.2 |
| 62.5° | 365.4 | 354.9 | 361.2 | 378.1 | 449.9 | 456.3 | 452.0 | 452.0 | 462.6 | 468.9 | 477.4 |
| 65° | 346.4 | 342.2 | 346.4 | 363.3 | 437.3 | 439.4 | 439.4 | 441.5 | 449.9 | 454.2 | 462.6 |
| 67.5° | 329.5 | 329.5 | 331.6 | 348.5 | 426.7 | 422.5 | 422.5 | 433.0 | 435.1 | 439.4 | 447.8 |
| 70° | 308.4 | 312.6 | 312.6 | 333.8 | 418.2 | 403.5 | 405.6 | 414.0 | 418.2 | 422.5 | 424.6 |
| 72.5° | 285.2 | 287.3 | 291.5 | 319.0 | 405.6 | 384.5 | 386.6 | 392.9 | 395.0 | 401.4 | 403.5 |
| 75° | 259.8 | 261.9 | 268.3 | 304.2 | 397.1 | 365.4 | 361.2 | 365.4 | 369.7 | 373.9 | 371.8 |
| 77.5° | 230.2 | 234.5 | 240.8 | 295.7 | 369.7 | 361.2 | 329.5 | 333.8 | 338.0 | 338.0 | 335.9 |
| 80° | 194.3 | 200.7 | 211.2 | 283.1 | 312.6 | 348.5 | 293.6 | 295.7 | 297.8 | 297.8 | 293.6 |
| 82.5° | 145.8 | 158.4 | 173.2 | 234.5 | 245.0 | 297.8 | 253.5 | 257.7 | 251.4 | 247.1 | 245.0 |
| 85° | 95.1 | 105.6 | 126.7 | 162.7 | 179.6 | 234.5 | 209.1 | 211.2 | 198.6 | 196.5 | 196.5 |
| 87.5° | 38.0 | 40.1 | 57.0 | 82.4 | 107.7 | 145.8 | 150.0 | 154.2 | 143.6 | 143.6 | 147.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P195287

CATALOG NUMBER: NVN-AF-05-LED-U-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 | 9932.4 |
| 2.5° | 9051.5 | 9262.7 | 9505.7 | 9752.8 | 9955.6 | 10217.5 | 10471.0 | 10741.4 | 10878.7 | 10959.0 | 11185.0 |
| 5° | 7338.4 | 7627.8 | 7972.1 | 8358.6 | 8679.7 | 9228.9 | 9820.4 | 10479.5 | 10796.3 | 11109.0 | 11700.4 |
| 7.5° | 5249.2 | 5532.3 | 5933.6 | 6434.3 | 6890.5 | 7615.1 | 8394.6 | 9286.0 | 9725.3 | 10232.3 | 11201.9 |
| 10° | 3897.3 | 4197.3 | 4560.6 | 4985.2 | 5435.1 | 6189.2 | 7063.8 | 8065.0 | 8548.8 | 9121.2 | 10223.9 |
| 12.5° | 3160.1 | 3510.8 | 3886.8 | 4267.0 | 4653.5 | 5160.5 | 6077.3 | 7190.5 | 7710.1 | 8286.8 | 9391.6 |
| 15° | 2465.1 | 2841.1 | 3246.7 | 3660.7 | 4045.2 | 4611.3 | 5547.1 | 6863.1 | 7456.7 | 8014.3 | 8918.4 |
| 17.5° | 1744.8 | 2099.7 | 2556.0 | 3058.7 | 3616.4 | 4286.0 | 5433.0 | 7006.7 | 7727.0 | 8310.1 | 8916.3 |
| 20° | 1189.3 | 1434.3 | 1890.6 | 2486.3 | 3174.9 | 4024.1 | 5475.3 | 7511.6 | 8411.5 | 9051.5 | 9281.8 |
| 22.5° | 950.6 | 1066.7 | 1375.2 | 1981.4 | 2794.7 | 3834.0 | 5648.5 | 8204.4 | 9393.7 | 10173.2 | 9947.1 |
| 25° | 864.0 | 929.4 | 1090.0 | 1565.3 | 2456.7 | 3707.2 | 5986.5 | 9119.1 | 10494.3 | 11284.3 | 10747.7 |
| 27.5° | 811.1 | 868.2 | 971.7 | 1286.4 | 2165.2 | 3624.8 | 6415.3 | 10196.4 | 11734.2 | 12382.7 | 11582.1 |
| 30° | 777.4 | 834.4 | 929.4 | 1155.5 | 1945.5 | 3502.3 | 6791.3 | 11180.8 | 12724.9 | 13145.3 | 12032.1 |
| 32.5° | 711.9 | 756.2 | 834.4 | 1035.1 | 1780.7 | 3358.7 | 7116.6 | 12061.6 | 13660.7 | 13800.1 | 12572.8 |
| 35° | 644.3 | 690.7 | 768.9 | 937.9 | 1683.6 | 3246.7 | 7287.7 | 12843.2 | 14588.0 | 14454.9 | 13109.4 |
| 37.5° | 618.9 | 656.9 | 728.8 | 868.2 | 1630.7 | 3172.8 | 7353.2 | 13612.1 | 15582.9 | 15179.5 | 13483.3 |
| 40° | 602.0 | 635.8 | 699.2 | 821.7 | 1616.0 | 3103.1 | 7338.4 | 14343.0 | 16548.3 | 15929.4 | 13776.9 |
| 42.5° | 589.4 | 618.9 | 678.1 | 790.0 | 1575.8 | 3037.6 | 7289.8 | 14974.6 | 17321.4 | 16575.8 | 14057.8 |
| 45° | 578.8 | 610.5 | 669.6 | 806.9 | 1501.9 | 2965.8 | 7260.2 | 15551.3 | 17915.0 | 17120.8 | 14433.8 |
| 47.5° | 574.6 | 610.5 | 671.7 | 802.7 | 1421.6 | 2885.5 | 7365.8 | 16191.3 | 18432.5 | 17579.1 | 14934.5 |
| 50° | 568.2 | 608.4 | 718.2 | 764.7 | 1311.8 | 2786.2 | 7722.8 | 16953.9 | 18975.4 | 18094.6 | 15582.9 |
| 52.5° | 557.7 | 606.3 | 766.8 | 735.1 | 1170.3 | 2648.9 | 8301.6 | 18031.2 | 19913.3 | 19097.9 | 16542.0 |
| 55° | 545.0 | 610.5 | 733.0 | 688.6 | 1020.3 | 2471.5 | 8880.4 | 19507.7 | 21434.2 | 20716.0 | 17919.2 |
| 57.5° | 530.2 | 604.1 | 692.9 | 646.4 | 895.6 | 2247.6 | 9319.8 | 20718.1 | 22689.0 | 22384.8 | 19611.2 |
| 60° | 519.6 | 618.9 | 623.1 | 621.0 | 815.4 | 2034.2 | 9362.0 | 20640.0 | 23050.2 | 23468.4 | 21267.3 |
| 62.5° | 507.0 | 631.6 | 568.2 | 602.0 | 775.2 | 1835.6 | 8840.3 | 19362.0 | 22439.7 | 23329.0 | 22617.1 |
| 65° | 490.1 | 551.3 | 538.7 | 585.1 | 775.2 | 1730.0 | 7625.7 | 17234.8 | 20751.9 | 22010.9 | 23350.1 |
| 67.5° | 473.2 | 500.6 | 517.5 | 561.9 | 792.1 | 1630.7 | 6128.0 | 14537.3 | 18090.3 | 19883.7 | 22526.3 |
| 70° | 449.9 | 473.2 | 494.3 | 540.8 | 783.7 | 1561.0 | 4822.5 | 11651.8 | 14888.0 | 16941.2 | 20247.1 |
| 72.5° | 428.8 | 445.7 | 466.8 | 509.1 | 783.7 | 1529.4 | 3874.1 | 9140.2 | 11366.7 | 13096.7 | 16772.2 |
| 75° | 397.1 | 411.9 | 430.9 | 477.4 | 768.9 | 1398.4 | 2908.7 | 7323.6 | 8316.4 | 9400.0 | 13234.0 |
| 77.5° | 365.4 | 376.0 | 390.8 | 437.3 | 692.9 | 1168.1 | 2057.4 | 5671.7 | 6161.8 | 6761.7 | 10316.8 |
| 80° | 325.3 | 333.8 | 344.3 | 390.8 | 574.6 | 906.2 | 1339.2 | 4436.0 | 4607.1 | 4896.5 | 6787.0 |
| 82.5° | 278.8 | 291.5 | 293.6 | 335.9 | 462.6 | 656.9 | 796.4 | 3039.7 | 3037.6 | 3462.2 | 4788.7 |
| 85° | 228.1 | 234.5 | 238.7 | 264.0 | 342.2 | 437.3 | 523.9 | 1660.3 | 1480.8 | 2074.3 | 4159.3 |
| 87.5° | 171.1 | 164.8 | 171.1 | 177.4 | 226.0 | 257.7 | 280.9 | 306.3 | 183.8 | 376.0 | 2418.7 |
| 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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| 2.5° | 11305.4 | 11430.0 | 11356.1 | 11267.4 | 11045.6 | 10720.3 | 10471.0 | 10253.4 |
| 5° | 12110.2 | 12340.5 | 12239.1 | 11909.5 | 11335.0 | 10682.3 | 9995.7 | 9577.5 |
| 7.5° | 12008.8 | 12465.1 | 12425.0 | 11875.7 | 11051.9 | 10090.8 | 9125.4 | 8574.1 |
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| 12.5° | 10314.7 | 10853.4 | 11077.3 | 10863.9 | 10042.2 | 8950.1 | 7811.5 | 7188.4 |
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| 17.5° | 9028.3 | 8975.5 | 9161.3 | 9490.9 | 9512.0 | 9007.1 | 8124.2 | 7406.0 |
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| 22.5° | 8749.4 | 8103.0 | 8124.2 | 8622.7 | 9607.1 | 10390.7 | 9923.9 | 8956.4 |
| 25° | 8977.6 | 8075.6 | 8094.6 | 8591.0 | 9864.8 | 11195.6 | 11079.4 | 9951.4 |
| 27.5° | 9366.2 | 8193.9 | 8181.2 | 8730.4 | 10209.1 | 11867.3 | 12245.4 | 11168.1 |
| 30° | 9786.6 | 8365.0 | 8333.3 | 8954.3 | 10547.1 | 12281.3 | 13073.5 | 12084.9 |
| 32.5° | 10310.5 | 8669.2 | 8559.3 | 9281.8 | 10880.8 | 12678.4 | 13781.1 | 12942.5 |
| 35° | 10809.0 | 9114.9 | 8956.4 | 9750.7 | 11237.8 | 13119.9 | 14573.2 | 13890.9 |
| 37.5° | 11318.1 | 9780.3 | 9691.6 | 10426.7 | 11742.7 | 13599.4 | 15479.4 | 14966.1 |
| 40° | 11970.8 | 10726.6 | 10684.4 | 11408.9 | 12416.5 | 14123.3 | 16495.5 | 16085.7 |
| 42.5° | 12674.2 | 11732.1 | 11696.2 | 12536.9 | 13253.0 | 14649.3 | 17365.8 | 17046.8 |
| 45° | 13390.3 | 12950.9 | 12959.4 | 13741.0 | 14133.9 | 15145.7 | 18050.2 | 17815.7 |
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| 52.5° | 16523.0 | 17750.2 | 18398.7 | 18198.1 | 16702.5 | 17336.2 | 20494.2 | 20492.1 |
| 55° | 17965.7 | 19691.5 | 20302.0 | 19959.8 | 17714.3 | 18517.0 | 21926.4 | 21833.5 |
| 57.5° | 19461.3 | 21558.8 | 22051.0 | 21605.3 | 18979.6 | 19892.2 | 23362.8 | 22870.6 |
| 60° | 21077.2 | 23166.4 | 23667.0 | 22997.4 | 20399.2 | 21263.1 | 24313.4 | 23162.1 |
| 62.5° | 22135.5 | 24106.4 | 24465.5 | 23823.3 | 21670.8 | 22659.4 | 24619.7 | 22813.6 |
| 65° | 22190.4 | 23481.1 | 23576.2 | 23348.0 | 22211.6 | 23871.9 | 24176.1 | 21780.6 |
| 67.5° | 20682.2 | 20758.3 | 20882.9 | 21127.9 | 21056.1 | 23331.1 | 22465.0 | 19368.3 |
| 70° | 17456.6 | 16442.7 | 16852.5 | 17089.1 | 17621.4 | 20751.9 | 19302.8 | 15751.9 |
| 72.5° | 13348.1 | 11867.3 | 12332.0 | 12251.7 | 13358.6 | 17021.5 | 14767.6 | 12133.4 |
| 75° | 9607.1 | 8092.5 | 8128.4 | 8132.6 | 9598.6 | 13586.8 | 10069.7 | 8616.4 |
| 77.5° | 6529.3 | 5726.6 | 5844.9 | 5771.0 | 6423.7 | 10644.2 | 7249.7 | 6210.4 |
| 80° | 4465.5 | 4444.4 | 4469.8 | 4296.6 | 4283.9 | 6880.0 | 5367.5 | 4953.5 |
| 82.5° | 3312.2 | 3060.8 | 3024.9 | 2841.1 | 3282.6 | 5259.8 | 4074.8 | 3559.3 |
| 85° | 2613.0 | 1694.1 | 1472.3 | 1776.5 | 2843.2 | 4839.4 | 2484.1 | 1825.1 |
| 87.5° | 1106.9 | 665.4 | 403.5 | 798.5 | 1580.1 | 3546.7 | 688.6 | 354.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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