

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: P197207

Luminaire Tested: **NVN-AF-05-LED-U-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197207
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-8030-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 80 CRI, 3000K, 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: 23773 lumens
Efficiency: N/A
Efficacy: 74.3 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 - G4

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

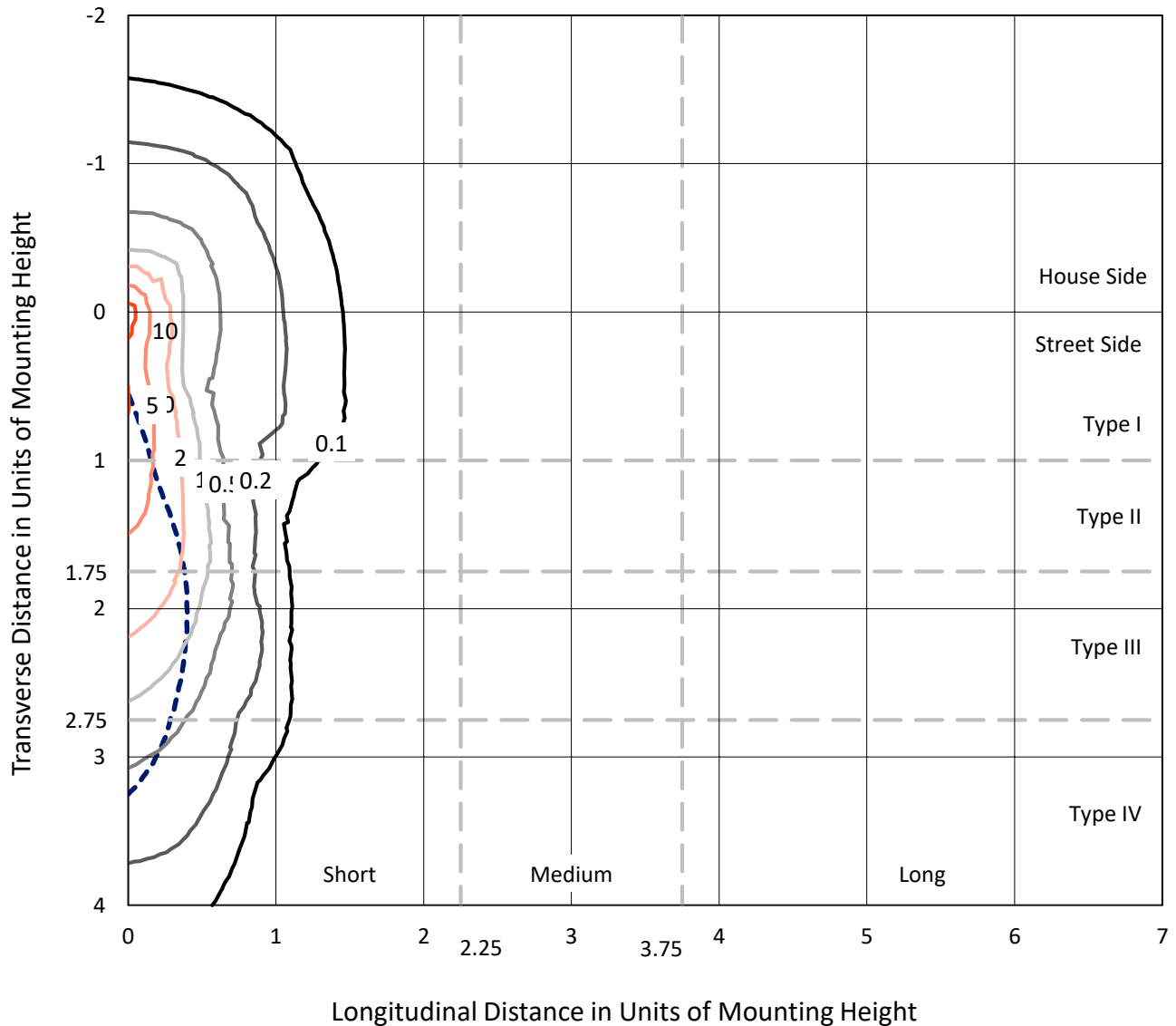


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

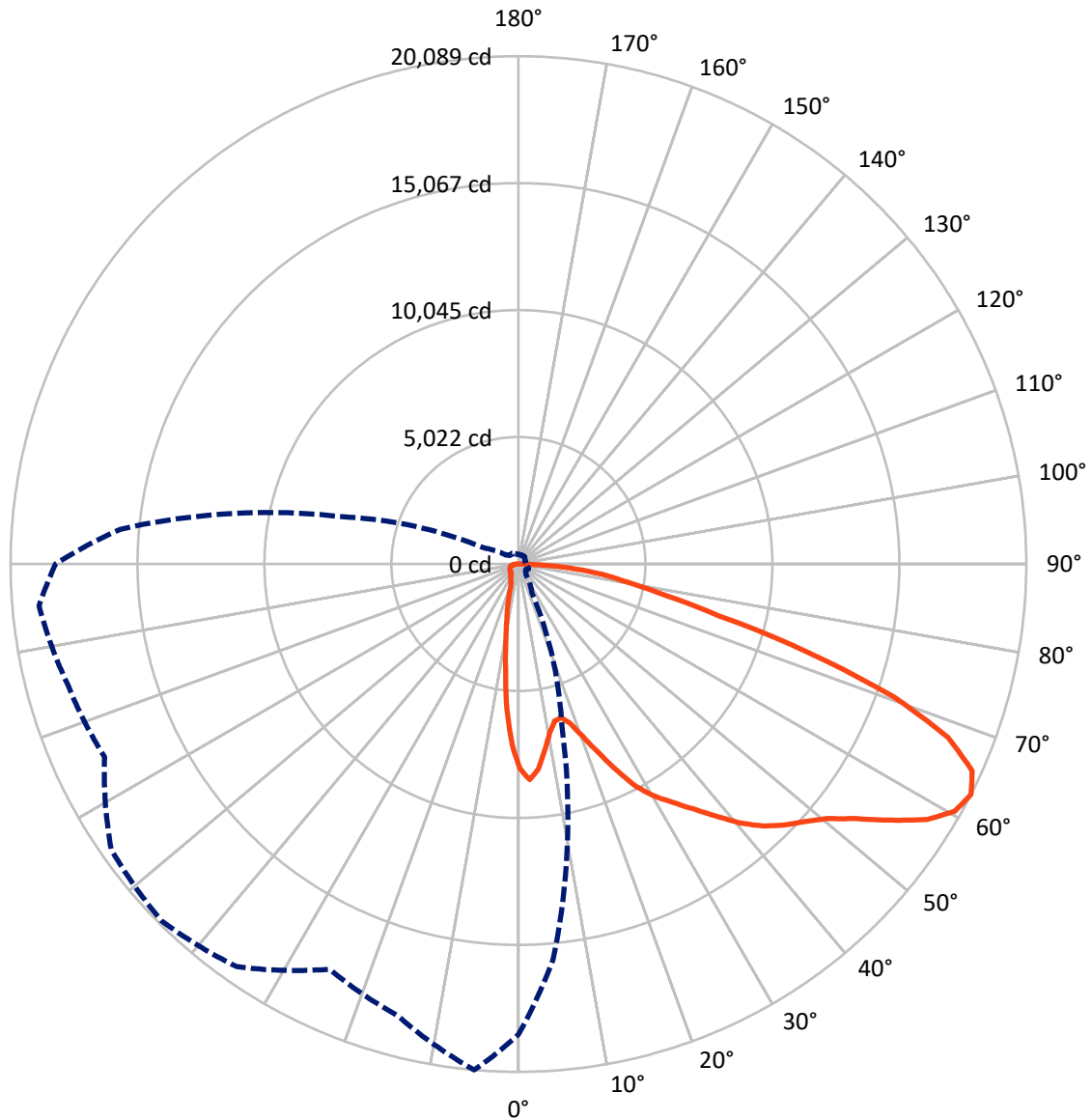


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

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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 | 4211.4 | 0.0 | 4211.4 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 19561.6 | 0.0 | 19561.6 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 23773.0 | 0.0 | 23773.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 589.4 | 2.5 |
| 10°-20° | 1076.6 | 4.5 |
| 20°-30° | 1548.4 | 6.5 |
| 30°-40° | 2371.5 | 10.0 |
| 40°-50° | 3467.2 | 14.6 |
| 50°-60° | 5044.8 | 21.2 |
| 60°-70° | 5845.1 | 24.6 |
| 70°-80° | 3046.9 | 12.8 |
| 80°-90° | 783.2 | 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° | 23773.0 | 100.0 |
| 0°-180° | 23773.0 | 100.0 |



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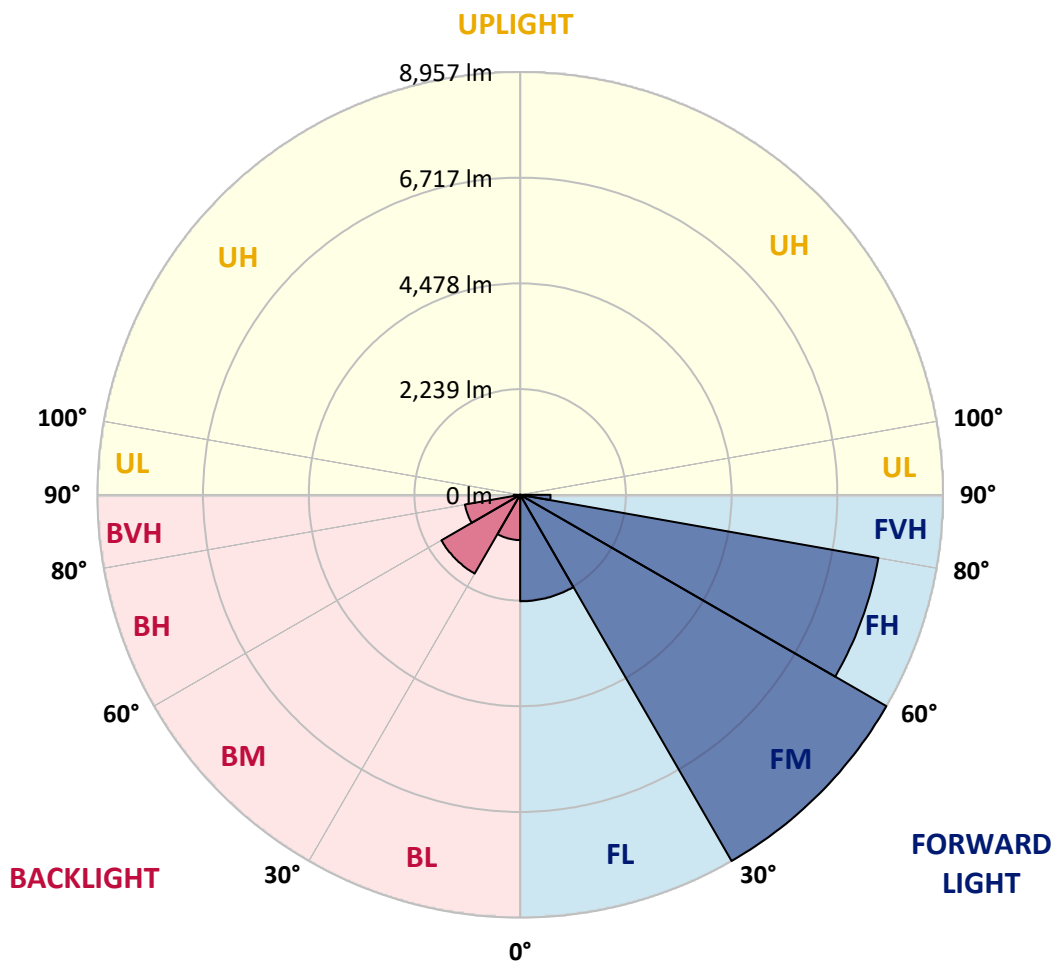
CATALOG NUMBER: NVN-AF-05-LED-U-SLR-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2256.2 | 9.5 | | | |
| FM | (30°-60°) | 8956.6 | 37.7 | | | |
| FH | (60°-80°) | 7704.5 | 32.4 | | | G4/12000 |
| FVH | (80°-90°) | 644.3 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 958.2 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 1926.9 | 8.1 | B2/2500 | | |
| BH | (60°-80°) | 1187.5 | 5.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 138.9 | 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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 |
| 2.5° | 8366.7 | 8249.5 | 7978.9 | 7741.0 | 7444.5 | 7222.2 | 6951.6 | 6808.5 | 6703.3 | 6632.7 | 6575.8 |
| 5° | 7815.1 | 7532.4 | 7015.3 | 6562.0 | 6072.5 | 5719.1 | 5305.5 | 5079.7 | 4940.0 | 4864.2 | 4829.7 |
| 7.5° | 6996.4 | 6622.3 | 5953.6 | 5345.1 | 4733.2 | 4291.9 | 3978.2 | 3643.8 | 3466.3 | 3350.8 | 3312.9 |
| 10° | 6281.0 | 5858.7 | 5060.7 | 4376.4 | 3904.1 | 3590.4 | 3321.5 | 3014.7 | 2787.2 | 2589.0 | 2514.8 |
| 12.5° | 5865.6 | 5374.4 | 4464.3 | 3845.5 | 3449.1 | 3112.9 | 2828.5 | 2497.6 | 2258.0 | 2051.2 | 1971.9 |
| 15° | 5777.7 | 5229.6 | 4214.4 | 3507.7 | 3021.6 | 2616.5 | 2275.2 | 1915.0 | 1680.6 | 1509.9 | 1454.8 |
| 17.5° | 6043.2 | 5367.5 | 4109.2 | 3199.1 | 2613.1 | 2118.4 | 1697.8 | 1311.7 | 1116.9 | 1023.9 | 1001.5 |
| 20° | 6589.6 | 5670.9 | 4059.2 | 2921.6 | 2216.6 | 1630.6 | 1173.8 | 891.1 | 794.6 | 767.0 | 765.3 |
| 22.5° | 7308.4 | 6163.8 | 4114.4 | 2694.1 | 1844.3 | 1203.1 | 860.1 | 732.6 | 692.9 | 677.4 | 677.4 |
| 25° | 8120.2 | 6830.9 | 4260.9 | 2520.0 | 1516.8 | 936.0 | 741.2 | 672.2 | 639.5 | 624.0 | 625.7 |
| 27.5° | 9113.0 | 7642.7 | 4460.9 | 2359.7 | 1282.4 | 820.5 | 692.9 | 634.3 | 601.6 | 586.0 | 587.8 |
| 30° | 9861.1 | 8340.8 | 4633.2 | 2213.2 | 1161.8 | 773.9 | 667.1 | 611.9 | 575.7 | 553.3 | 551.6 |
| 32.5° | 10560.9 | 8956.2 | 4772.8 | 2108.0 | 1092.8 | 691.2 | 603.3 | 561.9 | 530.9 | 505.0 | 499.9 |
| 35° | 11334.8 | 9535.3 | 4838.3 | 2104.6 | 1048.0 | 624.0 | 551.6 | 501.6 | 470.6 | 441.3 | 436.1 |
| 37.5° | 12212.2 | 10243.8 | 4893.5 | 2125.3 | 1023.9 | 580.9 | 527.4 | 479.2 | 453.3 | 424.0 | 417.1 |
| 40° | 13125.7 | 10936.7 | 4936.6 | 2142.5 | 1020.4 | 551.6 | 508.5 | 465.4 | 439.5 | 408.5 | 401.6 |
| 42.5° | 13910.0 | 11550.3 | 4995.2 | 2135.6 | 996.3 | 546.4 | 496.4 | 453.3 | 429.2 | 398.2 | 389.5 |
| 45° | 14537.4 | 12038.1 | 5086.5 | 2133.9 | 960.1 | 558.5 | 493.0 | 449.9 | 420.6 | 387.8 | 380.9 |
| 47.5° | 15121.7 | 12588.0 | 5279.6 | 2127.0 | 920.4 | 555.0 | 511.9 | 446.4 | 417.1 | 384.4 | 379.2 |
| 50° | 15790.5 | 13327.4 | 5608.8 | 2075.3 | 865.3 | 530.9 | 546.4 | 443.0 | 408.5 | 379.2 | 374.0 |
| 52.5° | 16721.3 | 14409.9 | 6096.6 | 1982.2 | 789.4 | 505.0 | 551.6 | 441.3 | 394.7 | 368.9 | 362.0 |
| 55° | 17815.8 | 15569.9 | 6622.3 | 1847.8 | 689.5 | 460.2 | 524.0 | 434.4 | 380.9 | 353.4 | 343.0 |
| 57.5° | 18662.2 | 16426.6 | 6989.5 | 1654.7 | 591.2 | 434.4 | 467.1 | 418.9 | 363.7 | 336.1 | 327.5 |
| 60° | 18900.0 | 16464.5 | 7055.0 | 1423.8 | 541.2 | 417.1 | 401.6 | 456.8 | 349.9 | 320.6 | 312.0 |
| 62.5° | 18615.6 | 15711.2 | 6627.5 | 1261.7 | 524.0 | 399.9 | 365.4 | 436.1 | 336.1 | 306.8 | 298.2 |
| 65° | 17772.7 | 14439.2 | 5670.9 | 1237.6 | 541.2 | 384.4 | 346.5 | 348.2 | 322.3 | 293.0 | 284.4 |
| 67.5° | 15804.3 | 12567.3 | 4467.7 | 1253.1 | 561.9 | 368.9 | 332.7 | 317.2 | 306.8 | 281.0 | 270.6 |
| 70° | 12853.4 | 10117.9 | 3519.7 | 1280.7 | 580.9 | 348.2 | 315.4 | 296.5 | 287.9 | 260.3 | 255.1 |
| 72.5° | 9900.8 | 8097.8 | 2776.8 | 1261.7 | 599.8 | 327.5 | 291.3 | 275.8 | 265.4 | 239.6 | 234.4 |
| 75° | 7030.8 | 6434.5 | 2040.8 | 1082.5 | 549.9 | 298.2 | 263.7 | 249.9 | 241.3 | 213.7 | 212.0 |
| 77.5° | 5067.6 | 4819.4 | 1420.3 | 813.6 | 434.4 | 262.0 | 232.7 | 220.6 | 215.5 | 184.4 | 184.4 |
| 80° | 4042.0 | 3668.0 | 849.8 | 530.9 | 317.2 | 217.2 | 194.8 | 189.6 | 184.4 | 153.4 | 155.1 |
| 82.5° | 2904.4 | 2544.1 | 543.0 | 330.9 | 232.7 | 165.5 | 151.7 | 150.0 | 141.3 | 113.8 | 113.8 |
| 85° | 1489.2 | 1299.6 | 348.2 | 222.4 | 163.7 | 106.9 | 100.0 | 96.5 | 91.4 | 70.7 | 70.7 |
| 87.5° | 289.6 | 398.2 | 193.1 | 108.6 | 79.3 | 37.9 | 37.9 | 32.7 | 37.9 | 25.9 | 27.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 |
| 2.5° | 6684.4 | 6649.9 | 6625.8 | 6613.7 | 6787.8 | 6860.2 | 6942.9 | 7061.9 | 7142.9 | 7108.4 | 7218.7 |
| 5° | 4991.7 | 5015.9 | 5071.0 | 5157.2 | 5400.3 | 5515.7 | 5589.9 | 5688.1 | 5758.8 | 5688.1 | 5805.3 |
| 7.5° | 3412.9 | 3449.1 | 3566.3 | 3743.8 | 4036.8 | 4166.1 | 4192.0 | 4193.7 | 4178.2 | 4062.7 | 4142.0 |
| 10° | 2513.1 | 2440.7 | 2466.6 | 2594.1 | 2856.1 | 2971.6 | 2983.7 | 2952.6 | 2947.5 | 2900.9 | 2990.6 |
| 12.5° | 1947.7 | 1847.8 | 1789.2 | 1809.9 | 2006.4 | 2101.2 | 2116.7 | 2133.9 | 2204.6 | 2227.0 | 2337.3 |
| 15° | 1453.1 | 1401.3 | 1358.3 | 1339.3 | 1468.6 | 1542.7 | 1551.3 | 1592.7 | 1666.8 | 1687.5 | 1782.3 |
| 17.5° | 1022.1 | 1035.9 | 1058.3 | 1067.0 | 1160.0 | 1208.3 | 1194.5 | 1194.5 | 1206.6 | 1201.4 | 1254.8 |
| 20° | 780.8 | 808.4 | 851.5 | 892.9 | 977.3 | 1004.9 | 970.4 | 927.3 | 899.8 | 886.0 | 898.0 |
| 22.5° | 689.5 | 708.4 | 736.0 | 789.4 | 860.1 | 873.9 | 829.1 | 794.6 | 768.8 | 755.0 | 756.7 |
| 25° | 639.5 | 658.4 | 680.8 | 723.9 | 784.3 | 791.2 | 749.8 | 727.4 | 706.7 | 692.9 | 689.5 |
| 27.5° | 596.4 | 608.5 | 622.2 | 649.8 | 711.9 | 715.3 | 687.7 | 674.0 | 660.2 | 649.8 | 646.4 |
| 30° | 556.7 | 561.9 | 567.1 | 594.7 | 641.2 | 646.4 | 632.6 | 625.7 | 620.5 | 613.6 | 613.6 |
| 32.5° | 505.0 | 511.9 | 520.5 | 544.7 | 589.5 | 596.4 | 587.8 | 582.6 | 574.0 | 570.5 | 565.4 |
| 35° | 443.0 | 460.2 | 479.2 | 508.5 | 556.7 | 560.2 | 549.9 | 534.3 | 513.7 | 508.5 | 505.0 |
| 37.5° | 417.1 | 420.6 | 444.7 | 479.2 | 529.2 | 532.6 | 518.8 | 493.0 | 477.5 | 479.2 | 482.6 |
| 40° | 399.9 | 405.1 | 418.9 | 453.3 | 503.3 | 508.5 | 496.4 | 477.5 | 461.9 | 463.7 | 468.8 |
| 42.5° | 386.1 | 393.0 | 401.6 | 424.0 | 474.0 | 484.4 | 480.9 | 463.7 | 448.2 | 451.6 | 458.5 |
| 45° | 379.2 | 384.4 | 384.4 | 399.9 | 448.2 | 463.7 | 465.4 | 451.6 | 439.5 | 443.0 | 451.6 |
| 47.5° | 375.8 | 375.8 | 370.6 | 382.7 | 430.9 | 446.4 | 449.9 | 443.0 | 436.1 | 439.5 | 448.2 |
| 50° | 370.6 | 363.7 | 358.5 | 368.9 | 417.1 | 430.9 | 434.4 | 429.2 | 432.6 | 439.5 | 444.7 |
| 52.5° | 355.1 | 348.2 | 348.2 | 355.1 | 403.3 | 417.1 | 418.9 | 415.4 | 422.3 | 430.9 | 439.5 |
| 55° | 336.1 | 336.1 | 337.8 | 344.7 | 396.4 | 406.8 | 405.1 | 401.6 | 408.5 | 418.9 | 427.5 |
| 57.5° | 318.9 | 317.2 | 325.8 | 334.4 | 387.8 | 394.7 | 391.3 | 391.3 | 396.4 | 405.1 | 413.7 |
| 60° | 308.5 | 299.9 | 306.8 | 320.6 | 379.2 | 386.1 | 380.9 | 379.2 | 387.8 | 394.7 | 401.6 |
| 62.5° | 298.2 | 289.6 | 294.7 | 308.5 | 367.1 | 372.3 | 368.9 | 368.9 | 377.5 | 382.7 | 389.5 |
| 65° | 282.7 | 279.2 | 282.7 | 296.5 | 356.8 | 358.5 | 358.5 | 360.2 | 367.1 | 370.6 | 377.5 |
| 67.5° | 268.9 | 268.9 | 270.6 | 284.4 | 348.2 | 344.7 | 344.7 | 353.4 | 355.1 | 358.5 | 365.4 |
| 70° | 251.7 | 255.1 | 255.1 | 272.3 | 341.3 | 329.2 | 330.9 | 337.8 | 341.3 | 344.7 | 346.5 |
| 72.5° | 232.7 | 234.4 | 237.9 | 260.3 | 330.9 | 313.7 | 315.4 | 320.6 | 322.3 | 327.5 | 329.2 |
| 75° | 212.0 | 213.7 | 218.9 | 248.2 | 324.0 | 298.2 | 294.7 | 298.2 | 301.6 | 305.1 | 303.4 |
| 77.5° | 187.9 | 191.3 | 196.5 | 241.3 | 301.6 | 294.7 | 268.9 | 272.3 | 275.8 | 275.8 | 274.1 |
| 80° | 158.6 | 163.7 | 172.4 | 231.0 | 255.1 | 284.4 | 239.6 | 241.3 | 243.0 | 243.0 | 239.6 |
| 82.5° | 118.9 | 129.3 | 141.3 | 191.3 | 199.9 | 243.0 | 206.8 | 210.3 | 205.1 | 201.7 | 199.9 |
| 85° | 77.6 | 86.2 | 103.4 | 132.7 | 146.5 | 191.3 | 170.6 | 172.4 | 162.0 | 160.3 | 160.3 |
| 87.5° | 31.0 | 32.7 | 46.5 | 67.2 | 87.9 | 118.9 | 122.4 | 125.8 | 117.2 | 117.2 | 120.7 |
| 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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CATALOG NUMBER: NVN-AF-05-LED-U-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 |
| 2.5° | 7385.9 | 7558.3 | 7756.5 | 7958.2 | 8123.6 | 8337.4 | 8544.2 | 8764.9 | 8876.9 | 8942.4 | 9126.8 |
| 5° | 5988.0 | 6224.2 | 6505.1 | 6820.6 | 7082.6 | 7530.7 | 8013.3 | 8551.1 | 8809.7 | 9064.8 | 9547.4 |
| 7.5° | 4283.3 | 4514.3 | 4841.8 | 5250.3 | 5622.6 | 6213.8 | 6849.9 | 7577.2 | 7935.8 | 8349.5 | 9140.6 |
| 10° | 3180.2 | 3424.9 | 3721.4 | 4067.9 | 4435.0 | 5050.3 | 5763.9 | 6581.0 | 6975.7 | 7442.8 | 8342.6 |
| 12.5° | 2578.6 | 2864.7 | 3171.6 | 3481.8 | 3797.2 | 4210.9 | 4959.0 | 5867.4 | 6291.4 | 6762.0 | 7663.4 |
| 15° | 2011.5 | 2318.3 | 2649.3 | 2987.1 | 3300.8 | 3762.8 | 4526.4 | 5600.2 | 6084.5 | 6539.6 | 7277.3 |
| 17.5° | 1423.8 | 1713.3 | 2085.6 | 2495.9 | 2950.9 | 3497.3 | 4433.3 | 5717.4 | 6305.2 | 6780.9 | 7275.6 |
| 20° | 970.4 | 1170.4 | 1542.7 | 2028.8 | 2590.7 | 3283.6 | 4467.7 | 6129.4 | 6863.6 | 7385.9 | 7573.8 |
| 22.5° | 775.7 | 870.5 | 1122.1 | 1616.8 | 2280.4 | 3128.5 | 4609.1 | 6694.7 | 7665.2 | 8301.2 | 8116.8 |
| 25° | 705.0 | 758.4 | 889.4 | 1277.2 | 2004.6 | 3025.0 | 4884.9 | 7441.1 | 8563.2 | 9207.8 | 8770.0 |
| 27.5° | 661.9 | 708.4 | 792.9 | 1049.7 | 1766.8 | 2957.8 | 5234.8 | 8320.1 | 9575.0 | 10104.1 | 9450.9 |
| 30° | 634.3 | 680.8 | 758.4 | 942.8 | 1587.5 | 2857.8 | 5541.6 | 9123.4 | 10383.4 | 10726.4 | 9818.0 |
| 32.5° | 580.9 | 617.1 | 680.8 | 844.6 | 1453.1 | 2740.6 | 5807.0 | 9842.1 | 11147.0 | 11260.7 | 10259.3 |
| 35° | 525.7 | 563.6 | 627.4 | 765.3 | 1373.8 | 2649.3 | 5946.7 | 10479.9 | 11903.7 | 11795.1 | 10697.1 |
| 37.5° | 505.0 | 536.1 | 594.7 | 708.4 | 1330.7 | 2589.0 | 6000.1 | 11107.3 | 12715.5 | 12386.3 | 11002.2 |
| 40° | 491.2 | 518.8 | 570.5 | 670.5 | 1318.6 | 2532.1 | 5988.0 | 11703.7 | 13503.2 | 12998.2 | 11241.8 |
| 42.5° | 480.9 | 505.0 | 553.3 | 644.7 | 1285.9 | 2478.6 | 5948.4 | 12219.1 | 14134.1 | 13525.6 | 11471.0 |
| 45° | 472.3 | 498.1 | 546.4 | 658.4 | 1225.5 | 2420.0 | 5924.2 | 12689.6 | 14618.4 | 13970.3 | 11777.8 |
| 47.5° | 468.8 | 498.1 | 548.1 | 655.0 | 1160.0 | 2354.5 | 6010.4 | 13211.9 | 15040.7 | 14344.4 | 12186.3 |
| 50° | 463.7 | 496.4 | 586.0 | 624.0 | 1070.4 | 2273.5 | 6301.7 | 13834.2 | 15483.7 | 14764.9 | 12715.5 |
| 52.5° | 455.0 | 494.7 | 625.7 | 599.8 | 954.9 | 2161.5 | 6774.0 | 14713.2 | 16249.0 | 15583.7 | 13498.0 |
| 55° | 444.7 | 498.1 | 598.1 | 561.9 | 832.5 | 2016.7 | 7246.3 | 15918.1 | 17490.1 | 16904.0 | 14621.9 |
| 57.5° | 432.6 | 493.0 | 565.4 | 527.4 | 730.8 | 1834.0 | 7604.8 | 16905.7 | 18513.9 | 18265.7 | 16002.5 |
| 60° | 424.0 | 505.0 | 508.5 | 506.8 | 665.3 | 1659.9 | 7639.3 | 16842.0 | 18808.7 | 19150.0 | 17353.9 |
| 62.5° | 413.7 | 515.4 | 463.7 | 491.2 | 632.6 | 1497.9 | 7213.6 | 15799.1 | 18310.5 | 19036.2 | 18455.3 |
| 65° | 399.9 | 449.9 | 439.5 | 477.5 | 632.6 | 1411.7 | 6222.4 | 14063.4 | 16933.3 | 17960.6 | 19053.4 |
| 67.5° | 386.1 | 408.5 | 422.3 | 458.5 | 646.4 | 1330.7 | 5000.4 | 11862.3 | 14761.5 | 16224.9 | 18381.2 |
| 70° | 367.1 | 386.1 | 403.3 | 441.3 | 639.5 | 1273.8 | 3935.1 | 9507.8 | 12148.4 | 13823.8 | 16521.4 |
| 72.5° | 349.9 | 363.7 | 380.9 | 415.4 | 639.5 | 1247.9 | 3161.2 | 7458.3 | 9275.1 | 10686.7 | 13685.9 |
| 75° | 324.0 | 336.1 | 351.6 | 389.5 | 627.4 | 1141.1 | 2373.5 | 5976.0 | 6786.1 | 7670.3 | 10798.8 |
| 77.5° | 298.2 | 306.8 | 318.9 | 356.8 | 565.4 | 953.2 | 1678.9 | 4628.0 | 5027.9 | 5517.5 | 8418.4 |
| 80° | 265.4 | 272.3 | 281.0 | 318.9 | 468.8 | 739.5 | 1092.8 | 3619.7 | 3759.3 | 3995.5 | 5538.1 |
| 82.5° | 227.5 | 237.9 | 239.6 | 274.1 | 377.5 | 536.1 | 649.8 | 2480.4 | 2478.6 | 2825.1 | 3907.6 |
| 85° | 186.2 | 191.3 | 194.8 | 215.5 | 279.2 | 356.8 | 427.5 | 1354.8 | 1208.3 | 1692.6 | 3393.9 |
| 87.5° | 139.6 | 134.4 | 139.6 | 144.8 | 184.4 | 210.3 | 229.2 | 249.9 | 150.0 | 306.8 | 1973.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 | 8104.7 |
| 2.5° | 9225.1 | 9326.8 | 9266.4 | 9194.0 | 9013.1 | 8747.6 | 8544.2 | 8366.7 |
| 5° | 9881.8 | 10069.7 | 9986.9 | 9718.0 | 9249.2 | 8716.6 | 8156.4 | 7815.1 |
| 7.5° | 9799.1 | 10171.4 | 10138.6 | 9690.5 | 9018.2 | 8234.0 | 7446.2 | 6996.4 |
| 10° | 9137.2 | 9659.4 | 9749.1 | 9290.6 | 8578.7 | 7701.4 | 6789.5 | 6281.0 |
| 12.5° | 8416.7 | 8856.2 | 9038.9 | 8864.8 | 8194.3 | 7303.2 | 6374.1 | 5865.6 |
| 15° | 7813.4 | 8035.7 | 8216.7 | 8328.8 | 7913.4 | 7161.8 | 6301.7 | 5777.7 |
| 17.5° | 7367.0 | 7323.9 | 7475.6 | 7744.4 | 7761.7 | 7349.7 | 6629.2 | 6043.2 |
| 20° | 7151.5 | 6813.7 | 6901.6 | 7279.1 | 7720.3 | 7827.2 | 7282.5 | 6589.6 |
| 22.5° | 7139.4 | 6612.0 | 6629.2 | 7036.0 | 7839.2 | 8478.7 | 8097.8 | 7308.4 |
| 25° | 7325.6 | 6589.6 | 6605.1 | 7010.2 | 8049.5 | 9135.4 | 9040.6 | 8120.2 |
| 27.5° | 7642.7 | 6686.1 | 6675.8 | 7123.9 | 8330.5 | 9683.6 | 9992.1 | 9113.0 |
| 30° | 7985.8 | 6825.7 | 6799.9 | 7306.6 | 8606.3 | 10021.4 | 10667.8 | 9861.1 |
| 32.5° | 8413.2 | 7073.9 | 6984.3 | 7573.8 | 8878.6 | 10345.5 | 11245.2 | 10560.9 |
| 35° | 8820.0 | 7437.6 | 7308.4 | 7956.5 | 9169.9 | 10705.7 | 11891.6 | 11334.8 |
| 37.5° | 9235.4 | 7980.6 | 7908.2 | 8508.0 | 9581.9 | 11097.0 | 12631.0 | 12212.2 |
| 40° | 9768.0 | 8752.8 | 8718.3 | 9309.5 | 10131.7 | 11524.4 | 13460.1 | 13125.7 |
| 42.5° | 10342.0 | 9573.3 | 9544.0 | 10230.0 | 10814.3 | 11953.6 | 14170.3 | 13910.0 |
| 45° | 10926.3 | 10567.8 | 10574.7 | 11212.5 | 11533.1 | 12358.7 | 14728.7 | 14537.4 |
| 47.5° | 11615.8 | 11655.4 | 11901.9 | 12231.2 | 12232.9 | 12810.3 | 15223.4 | 15121.7 |
| 50° | 12491.4 | 12968.9 | 13423.9 | 13475.6 | 12939.6 | 13406.7 | 15828.4 | 15790.5 |
| 52.5° | 13482.5 | 14484.0 | 15013.2 | 14849.4 | 13629.0 | 14146.1 | 16723.0 | 16721.3 |
| 55° | 14659.8 | 16068.0 | 16566.2 | 16286.9 | 14454.7 | 15109.7 | 17891.7 | 17815.8 |
| 57.5° | 15880.2 | 17591.8 | 17993.4 | 17629.7 | 15487.2 | 16231.8 | 19063.8 | 18662.2 |
| 60° | 17198.8 | 18903.5 | 19312.0 | 18765.6 | 16645.5 | 17350.4 | 19839.4 | 18900.0 |
| 62.5° | 18062.3 | 19670.5 | 19963.5 | 19439.5 | 17683.1 | 18489.8 | 20089.4 | 18615.6 |
| 65° | 18107.1 | 19160.3 | 19237.9 | 19051.7 | 18124.4 | 19479.2 | 19727.4 | 17772.7 |
| 67.5° | 16876.4 | 16938.5 | 17040.2 | 17240.1 | 17181.5 | 19037.9 | 18331.2 | 15804.3 |
| 70° | 14244.4 | 13417.0 | 13751.4 | 13944.5 | 14378.8 | 16933.3 | 15750.9 | 12853.4 |
| 72.5° | 10891.9 | 9683.6 | 10062.8 | 9997.3 | 10900.5 | 13889.3 | 12050.2 | 9900.8 |
| 75° | 7839.2 | 6603.4 | 6632.7 | 6636.1 | 7832.3 | 11086.6 | 8216.7 | 7030.8 |
| 77.5° | 5327.9 | 4672.9 | 4769.4 | 4709.1 | 5241.7 | 8685.6 | 5915.6 | 5067.6 |
| 80° | 3643.8 | 3626.6 | 3647.3 | 3505.9 | 3495.6 | 5614.0 | 4379.8 | 4042.0 |
| 82.5° | 2702.7 | 2497.6 | 2468.3 | 2318.3 | 2678.6 | 4291.9 | 3325.0 | 2904.4 |
| 85° | 2132.2 | 1382.4 | 1201.4 | 1449.6 | 2320.1 | 3948.9 | 2027.0 | 1489.2 |
| 87.5° | 903.2 | 543.0 | 329.2 | 651.5 | 1289.3 | 2894.0 | 561.9 | 289.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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