

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: P964491

Luminaire Tested: **NVN-SB3C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-727-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18214.3 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

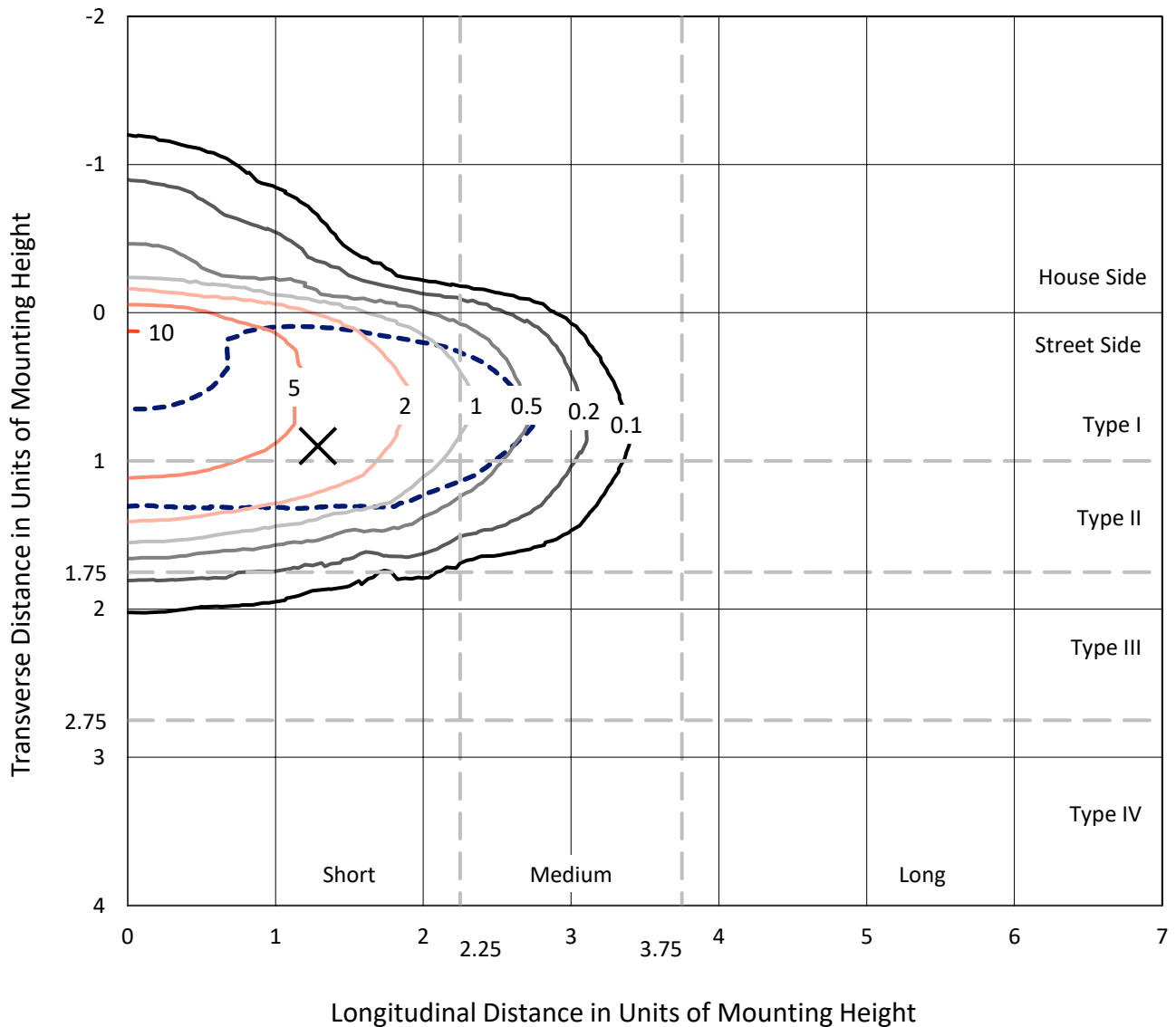
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

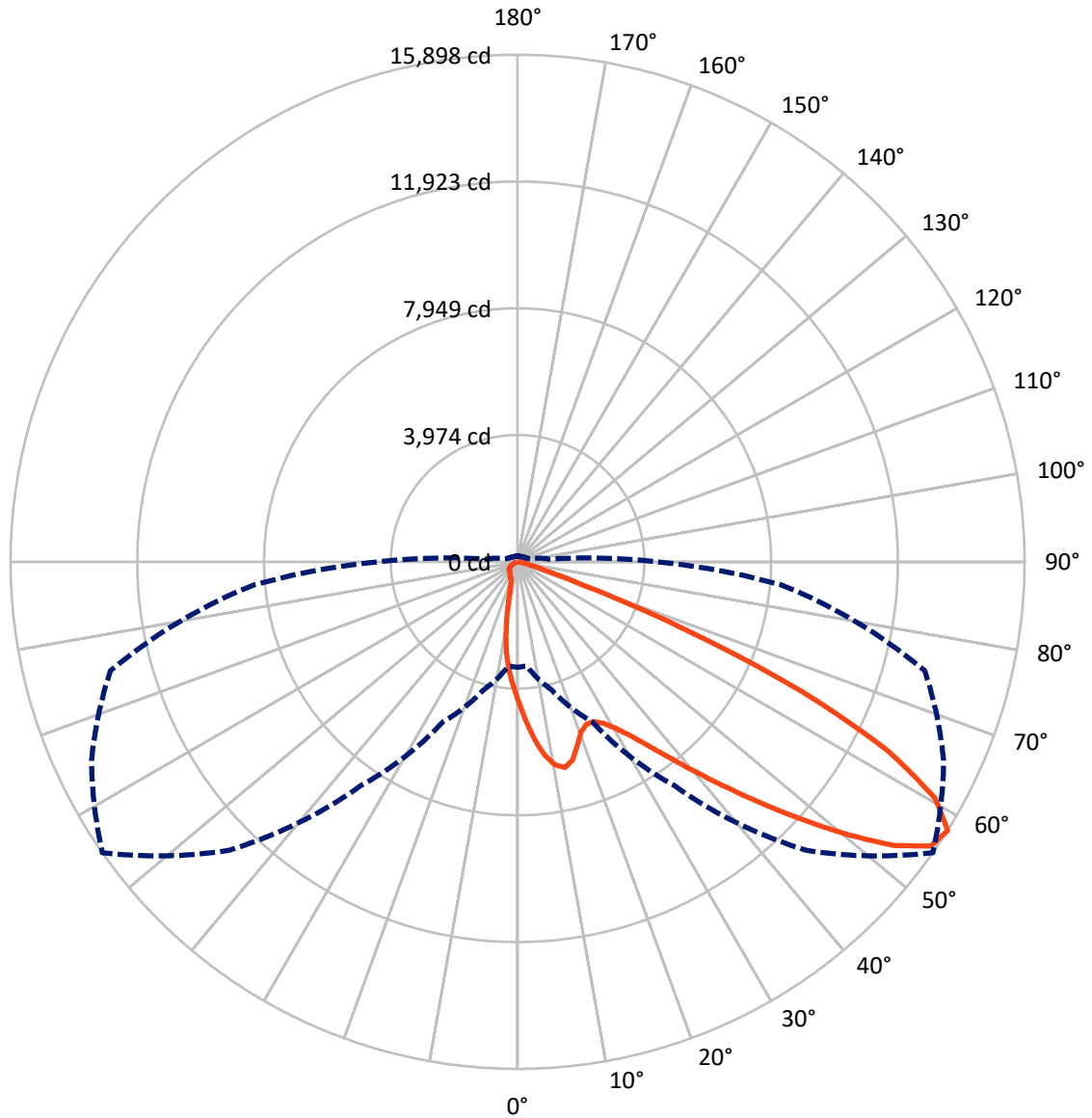
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1422.5 | 0.0 | 1422.5 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 16791.8 | 0.0 | 16791.8 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 18214.3 | 0.0 | 18214.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 408.4 | 2.2 |
| 10°-20° | 986.5 | 5.4 |
| 20°-30° | 1578.3 | 8.7 |
| 30°-40° | 2671.4 | 14.7 |
| 40°-50° | 4385.9 | 24.1 |
| 50°-60° | 4820.4 | 26.5 |
| 60°-70° | 2765.0 | 15.2 |
| 70°-80° | 565.0 | 3.1 |
| 80°-90° | 33.3 | 0.2 |
| 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° | 18214.3 | 100.0 |
| 0°-180° | 18214.3 | 100.0 |

Coefficient of Utilization



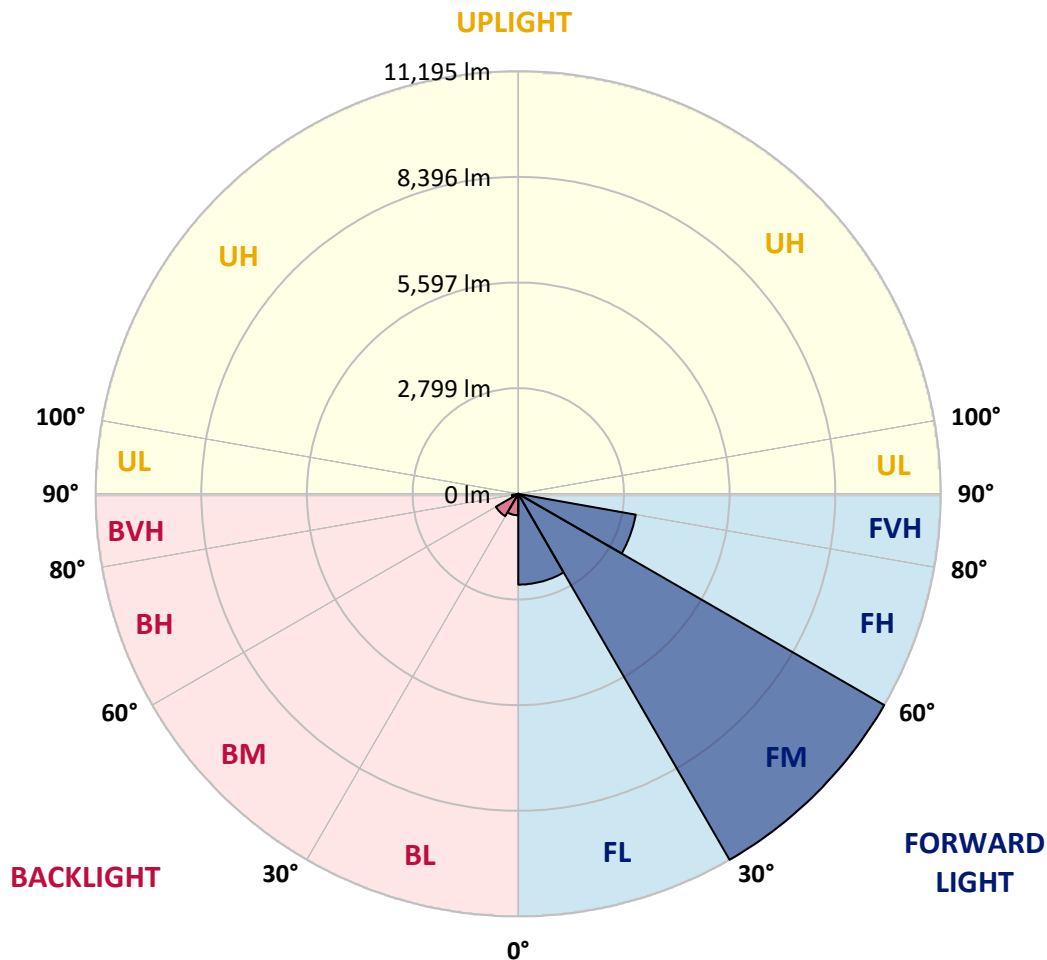
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2405.3 | 13.2 | | | |
| FM (30°-60°) | 11194.6 | 61.5 | | | |
| FH (60°-80°) | 3160.8 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 31.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 567.9 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 683.2 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 169.2 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 |
| 2.5° | 5446.0 | 5377.6 | 5367.4 | 5354.0 | 5223.7 | 5125.9 | 4984.5 | 4829.5 | 4655.3 | 4477.9 | 4399.3 |
| 5° | 6291.8 | 6237.8 | 6227.8 | 6164.9 | 6016.6 | 5850.4 | 5598.8 | 5280.9 | 4956.4 | 4574.5 | 4410.6 |
| 7.5° | 6455.8 | 6445.6 | 6491.6 | 6489.5 | 6469.2 | 6337.8 | 6125.5 | 5747.1 | 5259.6 | 4693.6 | 4439.7 |
| 10° | 5724.6 | 5750.5 | 5887.4 | 6007.6 | 6332.2 | 6520.8 | 6474.8 | 6162.6 | 5571.8 | 4829.5 | 4472.3 |
| 12.5° | 5058.6 | 5028.2 | 5125.9 | 5261.8 | 5639.2 | 6200.8 | 6619.8 | 6509.7 | 5929.0 | 4983.3 | 4520.6 |
| 15° | 4640.8 | 4628.4 | 4683.4 | 4746.4 | 5033.9 | 5599.9 | 6451.2 | 6791.5 | 6272.7 | 5165.3 | 4593.6 |
| 17.5° | 4507.1 | 4497.0 | 4513.9 | 4529.6 | 4716.0 | 5154.0 | 6050.3 | 6964.6 | 6601.7 | 5373.0 | 4674.4 |
| 20° | 4616.1 | 4602.6 | 4600.3 | 4588.0 | 4665.5 | 4964.2 | 5687.5 | 6976.9 | 6897.1 | 5561.8 | 4744.1 |
| 22.5° | 4933.9 | 4918.2 | 4863.1 | 4813.7 | 4820.5 | 4990.1 | 5525.8 | 6853.4 | 7119.5 | 5738.1 | 4787.9 |
| 25° | 5510.1 | 5484.3 | 5369.7 | 5203.4 | 5097.8 | 5169.8 | 5550.5 | 6690.5 | 7331.8 | 5876.2 | 4766.6 |
| 27.5° | 6231.1 | 6197.5 | 6050.3 | 5803.2 | 5561.8 | 5474.1 | 5729.0 | 6578.1 | 7508.1 | 5981.8 | 4720.5 |
| 30° | 6937.6 | 6893.7 | 6748.9 | 6556.8 | 6204.1 | 5927.9 | 6051.4 | 6627.5 | 7718.1 | 6091.9 | 4659.9 |
| 32.5° | 7700.2 | 7658.6 | 7466.5 | 7228.4 | 6936.5 | 6564.7 | 6492.8 | 6869.0 | 7975.3 | 6245.7 | 4617.2 |
| 35° | 8664.9 | 8599.8 | 8326.9 | 8002.3 | 7692.3 | 7316.0 | 7090.3 | 7285.7 | 8317.9 | 6480.5 | 4640.8 |
| 37.5° | 9763.3 | 9675.8 | 9381.5 | 8933.4 | 8529.0 | 8107.9 | 7818.1 | 7858.6 | 8819.9 | 6794.9 | 4713.8 |
| 40° | 10798.9 | 10719.1 | 10447.3 | 10025.0 | 9517.4 | 9006.4 | 8697.5 | 8607.6 | 9512.9 | 7177.9 | 4841.8 |
| 42.5° | 11419.9 | 11348.1 | 11233.5 | 11054.9 | 10627.0 | 10105.9 | 9716.2 | 9521.8 | 10332.8 | 7636.1 | 4997.9 |
| 45° | 11454.8 | 11391.8 | 11545.8 | 11753.6 | 11669.3 | 11322.3 | 10847.2 | 10491.2 | 11156.0 | 8066.3 | 5159.6 |
| 47.5° | 10897.7 | 10855.1 | 11322.3 | 12047.7 | 12409.5 | 12555.4 | 12117.4 | 11379.6 | 11835.6 | 8375.2 | 5226.0 |
| 50° | 9379.3 | 9363.5 | 10324.9 | 11656.9 | 12691.3 | 13635.9 | 13457.3 | 12206.1 | 12362.3 | 8534.7 | 5163.0 |
| 52.5° | 8132.6 | 8075.3 | 8635.7 | 10405.8 | 12281.4 | 14204.2 | 14766.9 | 13017.1 | 12730.7 | 8565.0 | 5015.9 |
| 55° | 6168.2 | 6117.7 | 6820.8 | 8312.2 | 10959.5 | 14002.0 | 15724.9 | 13853.8 | 12994.6 | 8487.5 | 4752.0 |
| 57.5° | 3308.7 | 3277.3 | 4165.7 | 5532.5 | 8567.3 | 12789.0 | 15897.9 | 14738.8 | 13217.0 | 8281.9 | 4382.5 |
| 60° | 1288.2 | 1282.6 | 1615.1 | 2684.3 | 5206.8 | 10404.7 | 15025.2 | 15270.0 | 13356.3 | 8029.2 | 4073.6 |
| 62.5° | 779.4 | 796.3 | 850.2 | 1205.1 | 2300.2 | 6463.6 | 13013.7 | 14665.8 | 13449.4 | 7797.9 | 3818.6 |
| 65° | 644.7 | 645.8 | 652.5 | 827.8 | 1101.8 | 2704.5 | 9797.1 | 12677.9 | 13219.2 | 7385.7 | 3457.0 |
| 67.5° | 552.6 | 562.7 | 588.6 | 657.0 | 777.2 | 1186.0 | 5640.4 | 9820.6 | 11818.7 | 6426.5 | 2893.2 |
| 70° | 435.7 | 449.3 | 481.9 | 540.2 | 599.7 | 742.4 | 2084.5 | 6534.4 | 9028.8 | 4844.0 | 2187.9 |
| 72.5° | 367.3 | 366.1 | 382.9 | 439.1 | 476.2 | 522.2 | 802.0 | 3661.4 | 5247.3 | 2312.5 | 1082.7 |
| 75° | 284.1 | 295.4 | 316.7 | 367.3 | 389.7 | 378.5 | 434.6 | 1337.6 | 1880.2 | 700.8 | 368.4 |
| 77.5° | 222.4 | 231.3 | 250.4 | 299.9 | 322.4 | 268.4 | 250.4 | 478.5 | 604.2 | 251.5 | 166.3 |
| 80° | 99.9 | 107.8 | 170.8 | 221.3 | 262.8 | 185.3 | 135.9 | 244.9 | 268.4 | 114.6 | 84.3 |
| 82.5° | 17.9 | 30.3 | 99.9 | 116.8 | 134.8 | 120.1 | 70.7 | 126.9 | 131.4 | 46.0 | 29.2 |
| 85° | 1.1 | 2.3 | 34.8 | 42.6 | 53.9 | 39.4 | 21.3 | 50.5 | 43.8 | 15.7 | 11.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 5.6 | 6.8 | 9.0 | 6.8 | 5.6 | 4.5 |
| 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° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 | 4389.2 |
| 2.5° | 4318.4 | 4158.9 | 4004.0 | 3877.1 | 3803.0 | 3677.1 | 3594.1 | 3580.5 | 3545.7 | 3576.0 |
| 5° | 4235.3 | 3950.0 | 3661.4 | 3403.1 | 3190.8 | 2916.7 | 2712.4 | 2625.8 | 2550.6 | 2576.4 |
| 7.5° | 4196.0 | 3745.7 | 3296.4 | 2855.0 | 2401.3 | 1963.2 | 1637.5 | 1501.6 | 1398.3 | 1412.9 |
| 10° | 4143.3 | 3533.4 | 2829.2 | 2155.3 | 1547.6 | 1115.3 | 890.6 | 807.5 | 761.5 | 762.6 |
| 12.5° | 4102.8 | 3279.5 | 2286.7 | 1461.2 | 942.3 | 712.1 | 642.5 | 622.2 | 608.7 | 609.9 |
| 15° | 4082.6 | 2980.8 | 1751.0 | 973.7 | 673.8 | 603.1 | 586.3 | 577.3 | 568.3 | 567.1 |
| 17.5° | 4048.9 | 2648.3 | 1281.5 | 710.9 | 589.7 | 565.0 | 550.3 | 540.2 | 529.0 | 526.7 |
| 20° | 3998.3 | 2271.0 | 936.6 | 600.9 | 552.6 | 533.5 | 513.3 | 499.8 | 486.4 | 484.1 |
| 22.5° | 3905.1 | 1872.3 | 720.0 | 556.0 | 525.6 | 504.3 | 479.6 | 463.8 | 450.4 | 448.1 |
| 25° | 3732.1 | 1498.2 | 606.5 | 527.9 | 502.0 | 476.2 | 449.3 | 427.9 | 415.5 | 413.3 |
| 27.5° | 3513.2 | 1177.0 | 550.3 | 502.0 | 471.7 | 448.1 | 417.8 | 397.6 | 386.3 | 384.1 |
| 30° | 3254.8 | 906.4 | 517.7 | 472.8 | 435.7 | 415.5 | 388.6 | 371.8 | 365.0 | 365.0 |
| 32.5° | 2976.3 | 724.4 | 504.3 | 443.6 | 404.4 | 381.8 | 360.5 | 353.8 | 351.6 | 350.4 |
| 35° | 2714.6 | 628.9 | 497.5 | 420.0 | 376.3 | 355.0 | 345.9 | 347.1 | 351.6 | 351.6 |
| 37.5° | 2482.1 | 598.6 | 494.2 | 403.2 | 351.6 | 332.4 | 338.0 | 348.2 | 343.7 | 343.7 |
| 40° | 2272.1 | 602.0 | 491.9 | 390.8 | 331.3 | 320.1 | 331.3 | 323.5 | 312.2 | 311.1 |
| 42.5° | 2111.5 | 630.1 | 487.4 | 380.8 | 319.0 | 311.1 | 306.6 | 294.3 | 293.2 | 295.4 |
| 45° | 1994.6 | 654.8 | 486.4 | 376.3 | 305.4 | 290.9 | 285.3 | 273.0 | 295.4 | 301.0 |
| 47.5° | 1856.5 | 654.8 | 486.4 | 360.5 | 283.0 | 277.4 | 268.4 | 254.9 | 277.4 | 283.0 |
| 50° | 1677.9 | 613.3 | 467.2 | 342.6 | 265.1 | 261.7 | 246.0 | 229.1 | 224.6 | 228.0 |
| 52.5° | 1452.2 | 538.0 | 418.9 | 317.9 | 247.1 | 240.4 | 221.3 | 208.9 | 205.5 | 205.5 |
| 55° | 1195.0 | 450.4 | 353.8 | 281.9 | 228.0 | 215.7 | 202.1 | 196.6 | 193.2 | 191.0 |
| 57.5° | 971.5 | 369.5 | 284.1 | 250.4 | 210.0 | 194.3 | 189.8 | 183.1 | 177.4 | 174.0 |
| 60° | 797.4 | 290.9 | 234.7 | 222.4 | 192.1 | 177.4 | 176.3 | 167.4 | 152.7 | 150.5 |
| 62.5° | 615.5 | 213.4 | 197.6 | 193.2 | 174.0 | 161.7 | 159.5 | 141.6 | 119.0 | 114.6 |
| 65° | 434.6 | 166.3 | 159.5 | 169.6 | 155.0 | 143.8 | 138.2 | 111.2 | 87.6 | 84.3 |
| 67.5° | 305.4 | 139.3 | 125.8 | 148.2 | 134.8 | 120.1 | 116.8 | 94.3 | 73.0 | 70.7 |
| 70° | 217.9 | 113.5 | 103.3 | 126.9 | 107.8 | 105.6 | 98.8 | 78.6 | 59.6 | 57.3 |
| 72.5° | 153.9 | 86.5 | 79.7 | 110.1 | 74.1 | 91.0 | 80.9 | 60.7 | 44.9 | 42.6 |
| 75° | 113.5 | 61.8 | 56.2 | 64.1 | 53.9 | 68.5 | 57.3 | 40.4 | 28.1 | 27.0 |
| 77.5° | 83.1 | 39.4 | 33.7 | 31.5 | 31.5 | 42.6 | 31.5 | 16.8 | 12.4 | 11.3 |
| 80° | 58.4 | 17.9 | 15.7 | 13.4 | 12.4 | 10.1 | 4.5 | 2.3 | 1.1 | 1.1 |
| 82.5° | 34.8 | 7.9 | 7.9 | 5.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 7.9 | 3.4 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)