

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: P970489

Luminaire Tested: **NVN-SB6B-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25769.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

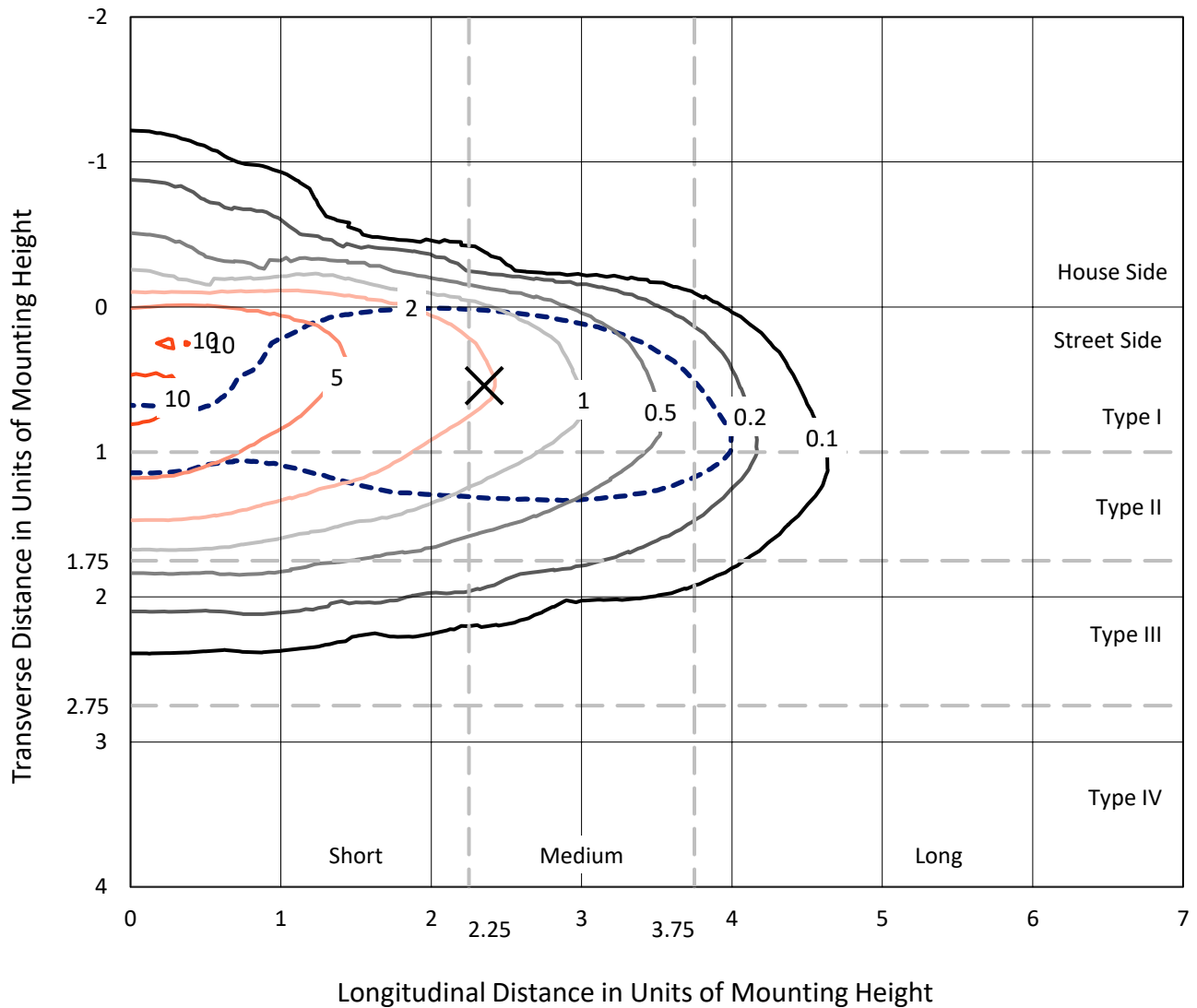
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

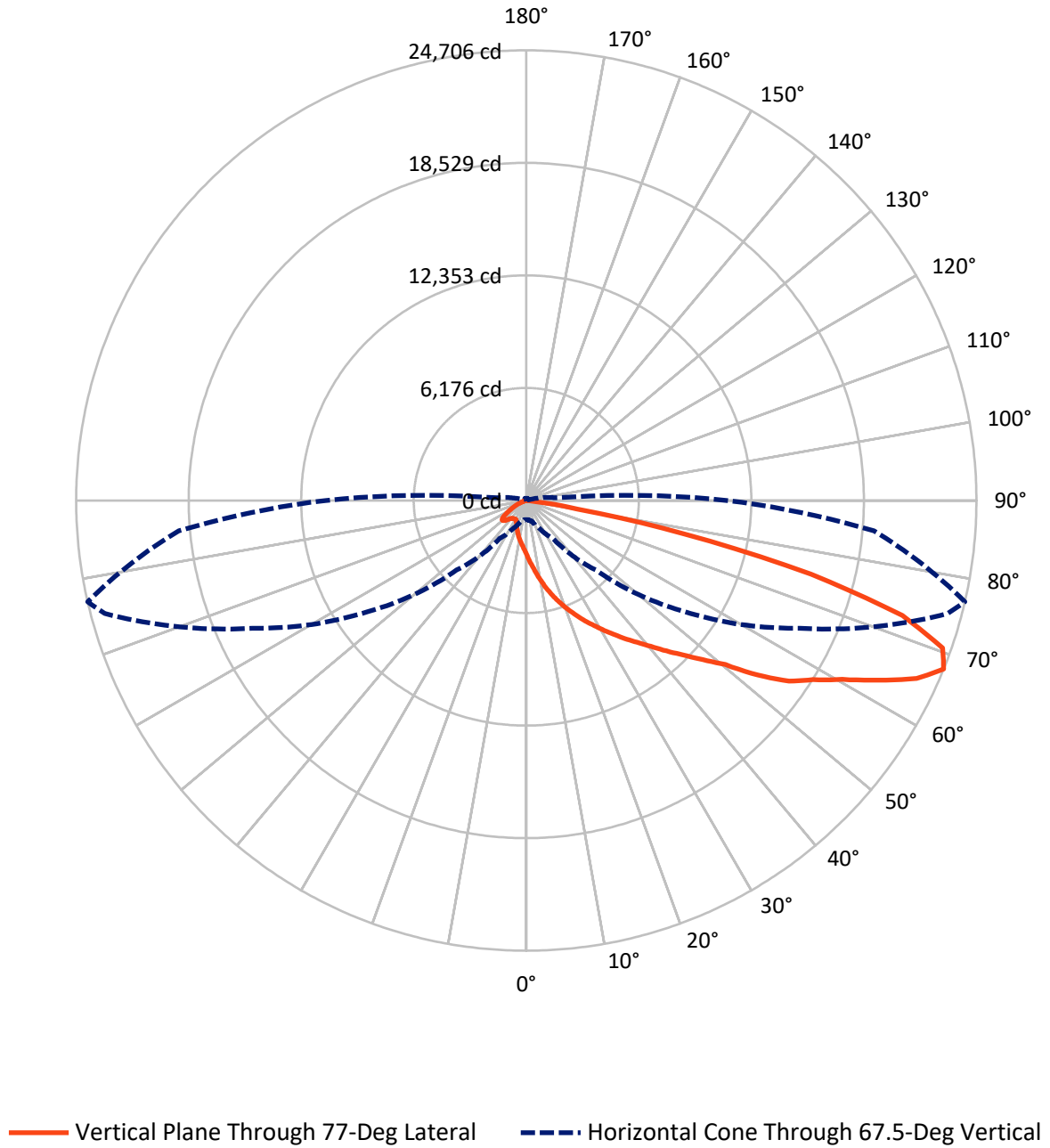
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1895.9 | 0.0 | 1895.9 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 23873.7 | 0.0 | 23873.7 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 25769.5 | 0.0 | 25769.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.3 | 1.2 |
| 10°-20° | 1062.1 | 4.1 |
| 20°-30° | 2049.6 | 8.0 |
| 30°-40° | 3558.2 | 13.8 |
| 40°-50° | 5166.4 | 20.0 |
| 50°-60° | 5932.9 | 23.0 |
| 60°-70° | 5150.9 | 20.0 |
| 70°-80° | 2426.1 | 9.4 |
| 80°-90° | 120.0 | 0.5 |
| 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° | 25769.5 | 100.0 |
| 0°-180° | 25769.5 | 100.0 |

Coefficient of Utilization



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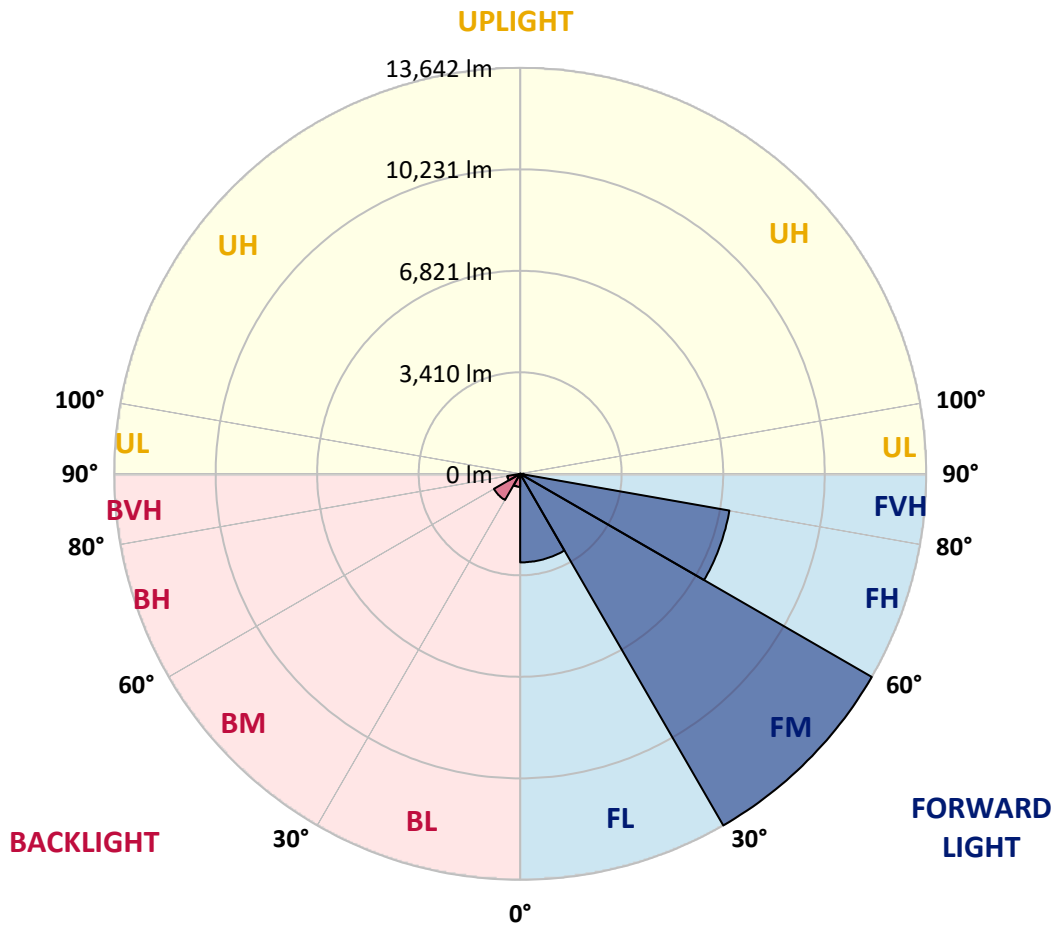
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2976.1 | 11.5 | | | |
| FM (30°-60°) | 13641.7 | 52.9 | | | |
| FH (60°-80°) | 7138.1 | 27.7 | | | G3/7500 |
| FVH (80°-90°) | 117.8 | 0.5 | | | G2/225 |
| BL (0°-30°) | 438.9 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1015.8 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 438.9 | 1.7 | 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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 |
| 2.5° | 4114.1 | 4139.8 | 4103.0 | 4032.6 | 3927.0 | 3858.1 | 3690.1 | 3531.6 | 3355.6 | 3299.7 | 3123.6 |
| 5° | 5015.1 | 5037.5 | 4995.8 | 4919.1 | 4778.2 | 4643.9 | 4423.0 | 4091.8 | 3747.7 | 3637.3 | 3325.2 |
| 7.5° | 5682.4 | 5695.2 | 5679.2 | 5608.8 | 5474.3 | 5322.3 | 5075.9 | 4683.8 | 4173.4 | 4051.7 | 3573.3 |
| 10° | 6162.4 | 6204.0 | 6199.2 | 6172.0 | 6082.5 | 5959.2 | 5696.7 | 5250.4 | 4650.2 | 4493.4 | 3853.3 |
| 12.5° | 6480.9 | 6527.3 | 6554.5 | 6615.4 | 6610.5 | 6532.1 | 6301.7 | 5829.6 | 5125.5 | 4941.4 | 4168.6 |
| 15° | 6573.7 | 6623.3 | 6727.3 | 6868.1 | 6993.0 | 7032.9 | 6871.3 | 6397.6 | 5648.8 | 5413.5 | 4491.9 |
| 17.5° | 6520.8 | 6597.7 | 6722.6 | 6945.0 | 7218.6 | 7399.4 | 7381.8 | 6946.5 | 6124.1 | 5855.2 | 4808.7 |
| 20° | 6637.7 | 6711.3 | 6809.0 | 6996.1 | 7314.6 | 7642.6 | 7773.9 | 7471.4 | 6596.1 | 6314.4 | 5141.5 |
| 22.5° | 7284.2 | 7271.4 | 7281.0 | 7311.4 | 7501.9 | 7826.7 | 8097.1 | 7948.3 | 7063.4 | 6775.4 | 5493.6 |
| 25° | 8308.3 | 8250.7 | 8153.2 | 7988.3 | 7940.3 | 8097.1 | 8378.8 | 8370.8 | 7556.2 | 7247.4 | 5853.6 |
| 27.5° | 9482.9 | 9473.3 | 9244.5 | 8847.6 | 8623.5 | 8562.7 | 8697.2 | 8782.0 | 8044.3 | 7714.7 | 6215.3 |
| 30° | 10607.8 | 10633.5 | 10324.6 | 9882.9 | 9471.7 | 9233.3 | 9111.6 | 9172.4 | 8540.4 | 8218.8 | 6588.1 |
| 32.5° | 11587.2 | 11614.4 | 11278.4 | 10761.5 | 10252.6 | 9964.5 | 9708.5 | 9558.1 | 9081.2 | 8730.7 | 6997.8 |
| 35° | 12414.5 | 12441.7 | 12056.0 | 11484.7 | 10942.3 | 10681.4 | 10391.9 | 9980.5 | 9625.3 | 9298.9 | 7453.8 |
| 37.5° | 13153.8 | 13145.8 | 12628.9 | 12052.9 | 11520.0 | 11313.5 | 11161.5 | 10500.6 | 10185.4 | 9870.1 | 7959.5 |
| 40° | 13590.7 | 13624.3 | 13182.6 | 12547.3 | 12030.4 | 11880.1 | 11870.4 | 11145.5 | 10831.9 | 10526.2 | 8513.1 |
| 42.5° | 13718.7 | 13777.8 | 13457.8 | 12936.1 | 12467.3 | 12304.1 | 12555.3 | 11843.3 | 11583.9 | 11286.4 | 9138.8 |
| 45° | 13488.3 | 13545.9 | 13400.2 | 13038.6 | 12764.9 | 12659.4 | 13144.2 | 12566.5 | 12387.3 | 12092.8 | 9844.5 |
| 47.5° | 12816.2 | 12888.1 | 12923.4 | 12846.5 | 12843.4 | 12950.6 | 13672.3 | 13328.2 | 13341.0 | 13040.2 | 10662.3 |
| 50° | 11515.2 | 11636.8 | 11960.0 | 12232.0 | 12652.9 | 13181.0 | 14185.9 | 14153.9 | 14416.3 | 14157.1 | 11727.9 |
| 52.5° | 9150.1 | 9322.9 | 10436.7 | 11180.7 | 12126.5 | 13137.8 | 14750.8 | 15478.9 | 16303.0 | 15923.8 | 13230.6 |
| 55° | 7353.0 | 7353.0 | 8258.7 | 9650.9 | 11099.1 | 12853.0 | 14997.3 | 16339.8 | 17588.0 | 17498.4 | 14288.4 |
| 57.5° | 5994.4 | 6066.5 | 6644.2 | 7874.7 | 9612.6 | 12174.4 | 15149.3 | 16880.7 | 18623.3 | 18557.7 | 15322.1 |
| 60° | 3699.7 | 3854.9 | 4946.2 | 6160.9 | 7921.1 | 10966.3 | 15053.3 | 17428.0 | 19879.5 | 19932.4 | 16567.1 |
| 62.5° | 2083.5 | 2141.1 | 2627.6 | 4432.6 | 6159.2 | 9342.1 | 14318.7 | 17733.6 | 21486.2 | 21710.1 | 17850.5 |
| 65° | 1438.6 | 1467.4 | 1654.7 | 2758.8 | 4269.4 | 7437.8 | 12883.3 | 17543.2 | 23095.9 | 23548.8 | 18938.6 |
| 67.5° | 1045.0 | 1059.3 | 1176.2 | 1685.0 | 2533.2 | 5392.7 | 10633.5 | 16583.1 | 23948.8 | 24705.8 | 19146.6 |
| 70° | 803.3 | 812.9 | 897.7 | 1107.3 | 1496.2 | 3328.5 | 7722.7 | 14674.0 | 23331.2 | 24235.3 | 18080.9 |
| 72.5° | 652.9 | 662.5 | 728.1 | 819.3 | 992.1 | 1968.3 | 4680.7 | 11916.9 | 20604.4 | 21580.6 | 15392.5 |
| 75° | 550.4 | 563.2 | 622.5 | 681.7 | 777.7 | 1264.1 | 2195.5 | 8298.7 | 15494.9 | 16135.0 | 10703.9 |
| 77.5° | 305.7 | 281.7 | 505.6 | 564.9 | 656.1 | 800.1 | 1027.4 | 4883.8 | 8678.0 | 8855.6 | 4749.4 |
| 80° | 190.4 | 196.8 | 401.7 | 454.5 | 504.1 | 403.2 | 470.5 | 1880.3 | 3008.4 | 2858.0 | 920.1 |
| 82.5° | 11.2 | 25.6 | 308.8 | 328.0 | 345.6 | 172.8 | 177.6 | 638.5 | 724.9 | 665.7 | 163.2 |
| 85° | 0.0 | 0.0 | 140.8 | 113.6 | 120.0 | 49.6 | 51.2 | 148.8 | 97.6 | 105.6 | 32.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 4.8 | 9.6 | 12.8 | 4.8 | 6.4 | 11.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 | 2971.6 |
| 2.5° | 3011.7 | 2899.6 | 2672.4 | 2450.0 | 2269.1 | 2101.0 | 1981.1 | 1867.4 | 1809.8 | 1806.7 | 1803.5 |
| 5° | 3102.8 | 2867.5 | 2413.2 | 2011.5 | 1688.3 | 1429.0 | 1261.0 | 1140.9 | 1080.1 | 1059.3 | 1056.2 |
| 7.5° | 3230.8 | 2877.2 | 2185.9 | 1627.4 | 1246.6 | 1024.2 | 928.1 | 889.7 | 876.9 | 862.5 | 859.4 |
| 10° | 3392.4 | 2899.6 | 1982.7 | 1310.6 | 982.6 | 870.5 | 832.1 | 816.1 | 806.5 | 796.9 | 793.7 |
| 12.5° | 3573.3 | 2920.4 | 1781.0 | 1088.1 | 864.1 | 806.5 | 779.3 | 760.1 | 747.3 | 736.1 | 732.9 |
| 15° | 3749.3 | 2933.2 | 1571.4 | 933.0 | 803.3 | 756.9 | 728.1 | 707.2 | 689.7 | 676.9 | 675.3 |
| 17.5° | 3923.7 | 2950.8 | 1374.6 | 840.1 | 753.7 | 707.2 | 678.4 | 652.9 | 638.5 | 624.1 | 622.5 |
| 20° | 4117.3 | 2947.6 | 1189.0 | 774.5 | 704.1 | 657.6 | 627.3 | 603.3 | 588.9 | 572.9 | 571.2 |
| 22.5° | 4296.6 | 2931.6 | 1025.7 | 718.5 | 652.9 | 608.1 | 574.5 | 550.4 | 536.1 | 523.3 | 521.6 |
| 25° | 4503.0 | 2918.8 | 889.7 | 667.3 | 604.9 | 560.1 | 523.3 | 500.9 | 484.8 | 473.7 | 472.1 |
| 27.5° | 4701.5 | 2899.6 | 790.5 | 620.8 | 558.5 | 515.3 | 480.1 | 454.5 | 440.0 | 432.0 | 432.0 |
| 30° | 4896.6 | 2894.8 | 753.7 | 576.0 | 516.9 | 473.7 | 438.5 | 414.4 | 403.2 | 400.1 | 398.4 |
| 32.5° | 5131.9 | 2907.6 | 769.7 | 560.1 | 478.5 | 435.2 | 401.7 | 384.1 | 372.9 | 372.9 | 372.9 |
| 35° | 5383.1 | 2904.4 | 793.7 | 574.5 | 452.8 | 396.9 | 371.3 | 360.1 | 348.8 | 348.8 | 348.8 |
| 37.5° | 5698.4 | 2909.2 | 812.9 | 598.5 | 443.2 | 364.9 | 350.4 | 336.0 | 329.6 | 329.6 | 329.6 |
| 40° | 6168.9 | 3067.6 | 803.3 | 619.3 | 440.0 | 342.5 | 313.6 | 308.8 | 304.0 | 304.0 | 304.0 |
| 42.5° | 6744.9 | 3411.7 | 816.1 | 620.8 | 438.5 | 326.5 | 288.0 | 297.7 | 286.5 | 284.8 | 283.2 |
| 45° | 7375.4 | 3787.7 | 897.7 | 587.3 | 436.9 | 318.5 | 275.2 | 286.5 | 268.9 | 268.9 | 268.9 |
| 47.5° | 8001.0 | 4160.6 | 980.9 | 539.3 | 432.0 | 316.8 | 264.0 | 257.7 | 252.9 | 254.4 | 254.4 |
| 50° | 8863.6 | 4464.6 | 1012.9 | 473.7 | 420.9 | 313.6 | 243.2 | 244.9 | 241.6 | 244.9 | 244.9 |
| 52.5° | 9802.9 | 4528.7 | 974.6 | 400.1 | 388.9 | 304.0 | 228.8 | 235.2 | 233.6 | 236.9 | 236.9 |
| 55° | 10388.6 | 4459.8 | 804.9 | 332.8 | 339.3 | 265.7 | 214.4 | 227.2 | 227.2 | 227.2 | 227.2 |
| 57.5° | 10993.5 | 4166.9 | 571.2 | 270.4 | 281.7 | 217.6 | 201.6 | 219.2 | 217.6 | 216.1 | 216.1 |
| 60° | 11428.7 | 3693.3 | 376.1 | 222.4 | 224.1 | 179.3 | 187.3 | 206.4 | 204.8 | 196.8 | 196.8 |
| 62.5° | 11753.6 | 3170.0 | 241.6 | 188.8 | 171.2 | 161.6 | 171.2 | 187.3 | 180.8 | 163.2 | 160.0 |
| 65° | 11716.8 | 2445.1 | 185.6 | 161.6 | 140.8 | 140.8 | 148.8 | 163.2 | 144.0 | 115.2 | 112.0 |
| 67.5° | 11033.5 | 1654.7 | 153.6 | 136.0 | 118.4 | 116.8 | 123.2 | 136.0 | 123.2 | 97.6 | 94.4 |
| 70° | 9812.5 | 1081.8 | 123.2 | 105.6 | 94.4 | 86.4 | 99.2 | 116.8 | 104.0 | 78.4 | 75.2 |
| 72.5° | 7964.2 | 659.3 | 92.8 | 76.8 | 68.8 | 56.0 | 78.4 | 96.0 | 83.2 | 57.6 | 54.4 |
| 75° | 5152.7 | 336.0 | 64.0 | 49.6 | 36.8 | 33.6 | 57.6 | 72.1 | 57.6 | 35.2 | 30.4 |
| 77.5° | 1971.5 | 140.8 | 35.2 | 22.4 | 19.2 | 16.0 | 32.0 | 43.3 | 24.0 | 8.0 | 6.4 |
| 80° | 379.2 | 59.2 | 17.6 | 11.2 | 9.6 | 6.4 | 4.8 | 3.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 65.6 | 19.2 | 6.4 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 22.4 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.0 | 0.0 | 0.0 | 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 | 0.0 |

(END OF REPORT)