

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: P959979

Luminaire Tested: **NVN-SB1B-830-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

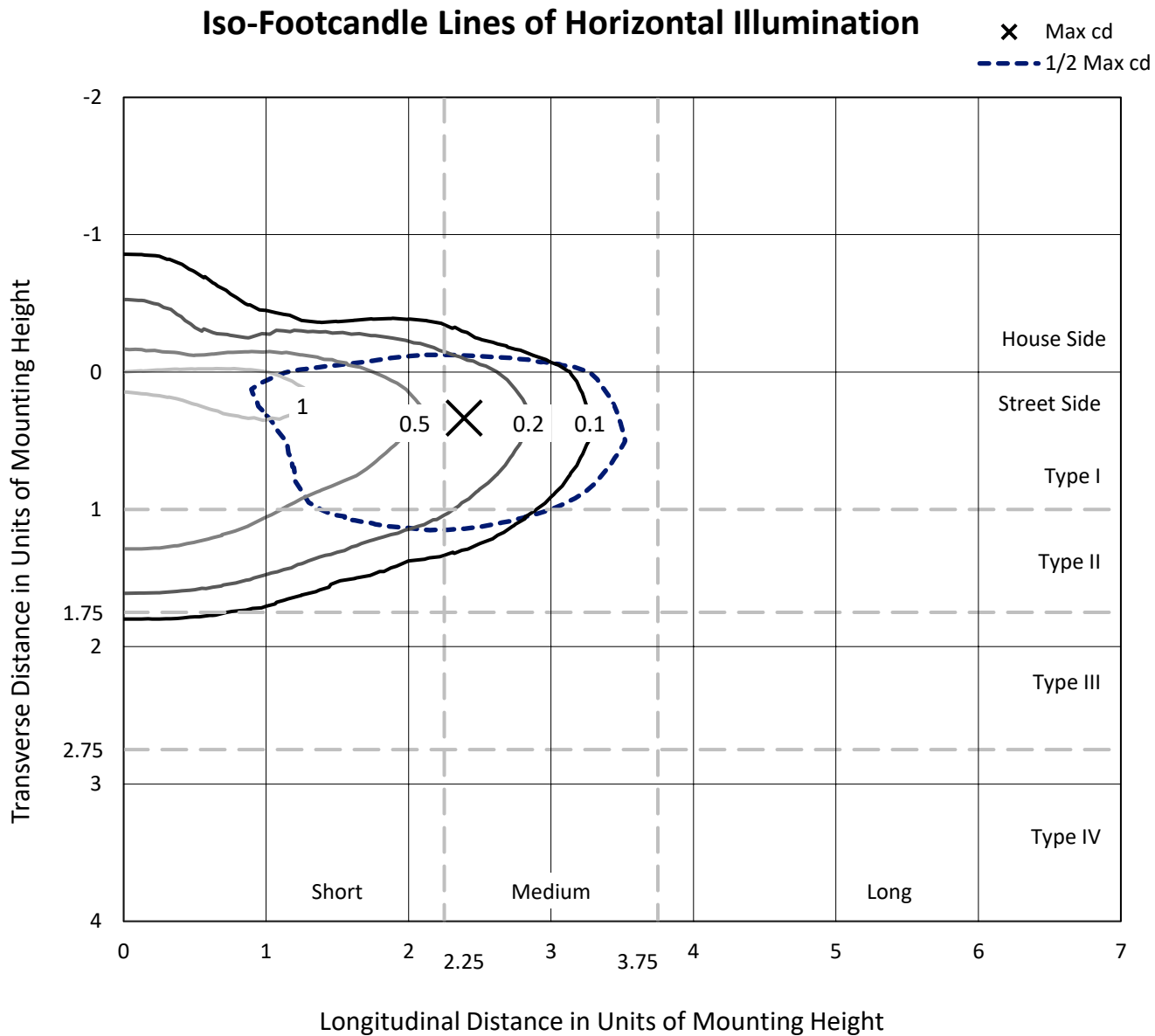
Test Method: LM-79-08  
Report Number: P959979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1B-830-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3788.4 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
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

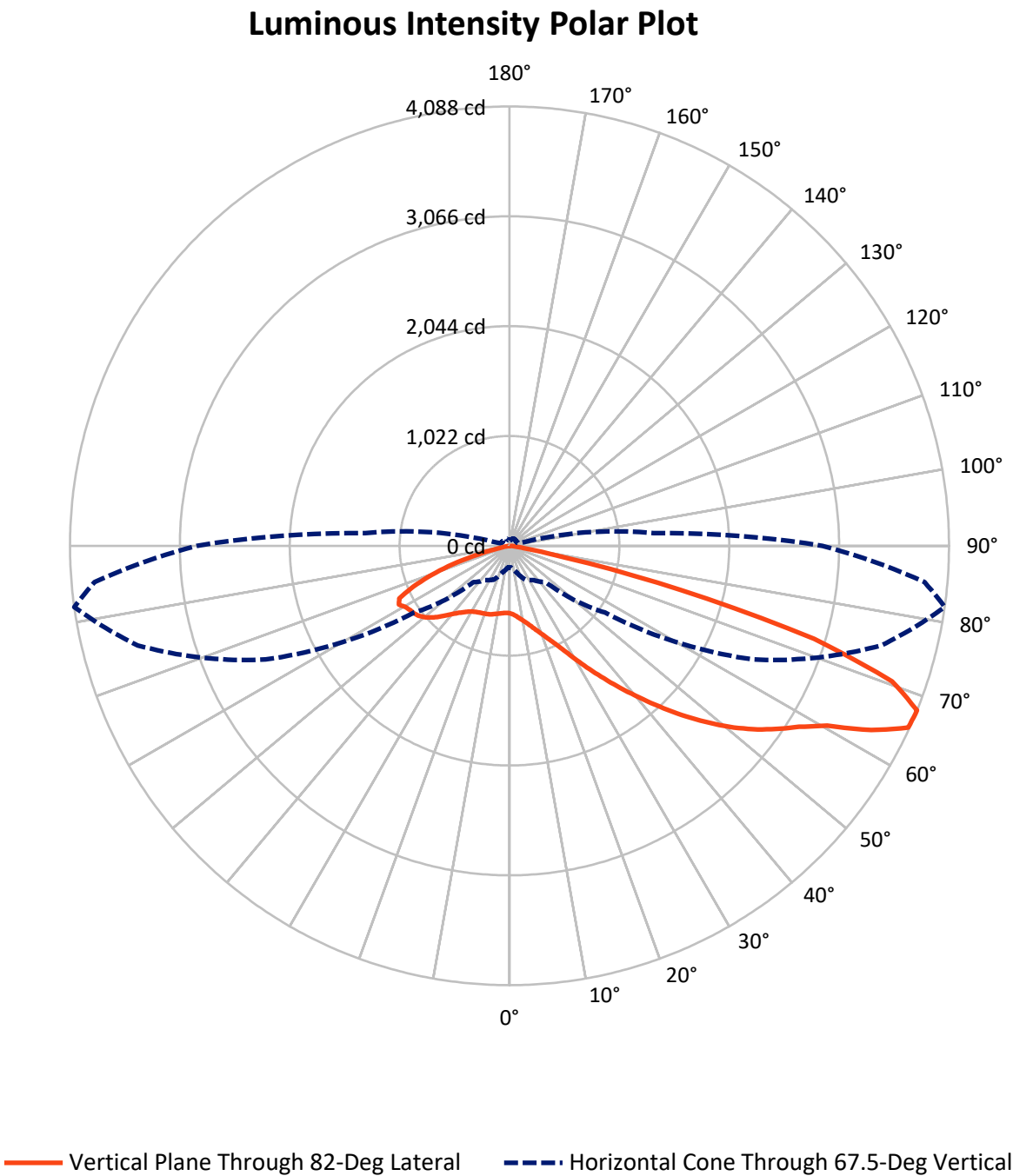


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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
Type II - Medium - N/A

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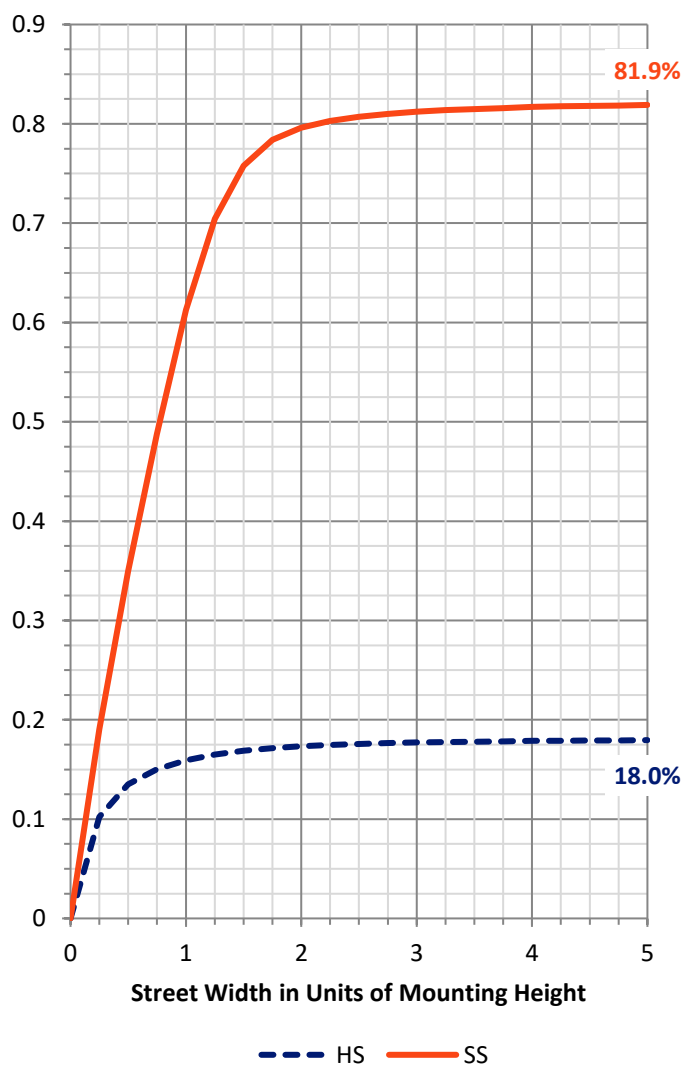
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 686.2    | 0.0    | 686.2  |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 3102.2   | 0.0    | 3102.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 3788.4   | 0.0    | 3788.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.9   | 1.5       |
| 10°-20°   | 145.3  | 3.8       |
| 20°-30°   | 232.7  | 6.1       |
| 30°-40°   | 411.5  | 10.9      |
| 40°-50°   | 721.0  | 19.0      |
| 50°-60°   | 961.7  | 25.4      |
| 60°-70°   | 895.3  | 23.6      |
| 70°-80°   | 343.6  | 9.1       |
| 80°-90°   | 21.3   | 0.6       |
| 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°    | 3788.4 | 100.0     |
| 0°-180°   | 3788.4 | 100.0     |

**Coefficient of Utilization**



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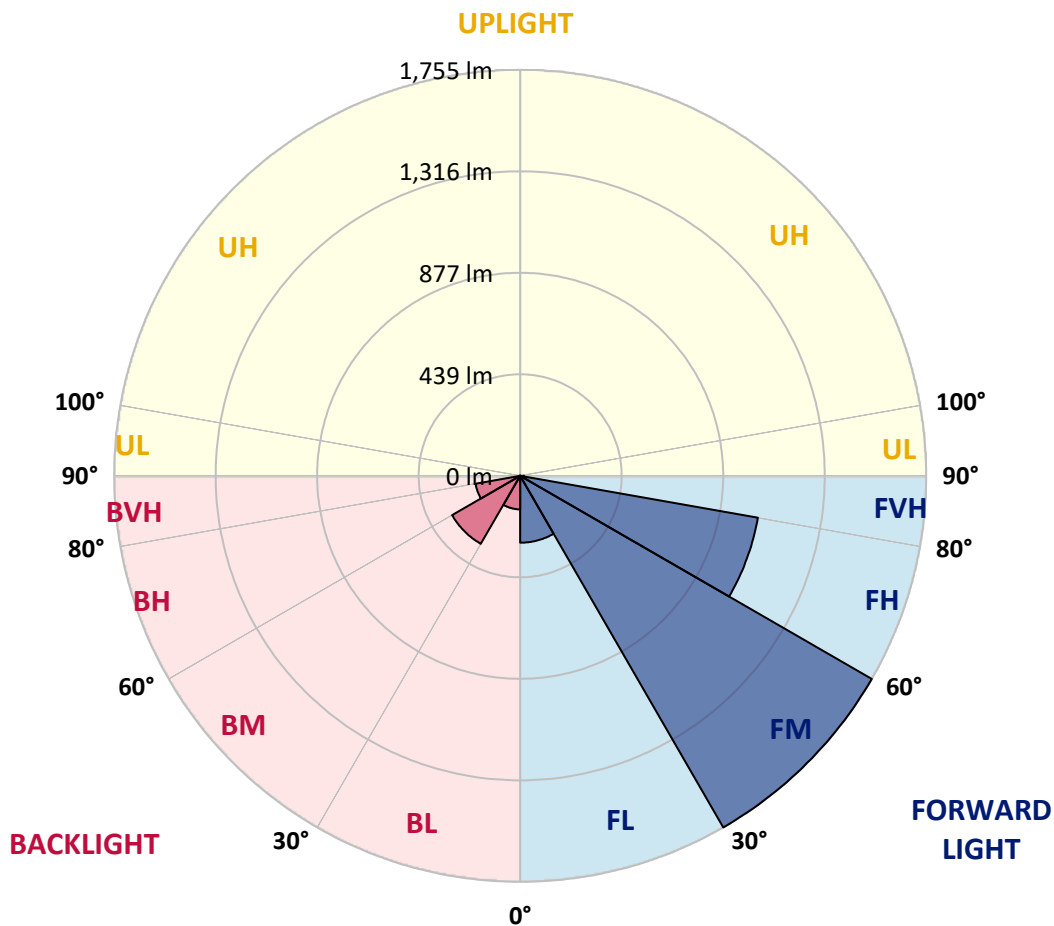
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 289.0  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 1754.6 | 46.3      |                         |      |         |
| FH   | (60°-80°)   | 1043.0 | 27.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.5   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 144.9  | 3.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 339.6  | 9.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 195.9  | 5.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.8    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  | 627.6  |
| 2.5°  | 663.4  | 667.2  | 665.0  | 663.9  | 661.9  | 659.3  | 657.0  | 650.3  | 643.2  | 638.5  | 636.8  |
| 5°    | 676.7  | 680.5  | 680.3  | 681.3  | 682.8  | 683.6  | 683.0  | 675.4  | 665.2  | 657.3  | 652.7  |
| 7.5°  | 665.2  | 669.6  | 673.1  | 678.7  | 688.2  | 698.2  | 703.2  | 701.5  | 691.2  | 680.3  | 674.6  |
| 10°   | 632.8  | 637.4  | 645.9  | 658.7  | 678.9  | 700.7  | 718.9  | 727.4  | 720.9  | 708.9  | 701.0  |
| 12.5° | 573.3  | 578.0  | 594.6  | 622.4  | 656.2  | 694.1  | 729.1  | 751.7  | 753.4  | 741.4  | 732.1  |
| 15°   | 506.6  | 511.2  | 528.9  | 563.8  | 615.3  | 676.2  | 734.5  | 777.4  | 791.8  | 781.5  | 770.3  |
| 17.5° | 465.0  | 469.1  | 482.5  | 510.6  | 564.4  | 640.1  | 732.7  | 804.6  | 837.6  | 829.4  | 816.1  |
| 20°   | 452.5  | 456.0  | 462.3  | 482.0  | 526.6  | 602.8  | 720.1  | 830.2  | 887.0  | 882.3  | 867.4  |
| 22.5° | 465.9  | 469.1  | 471.1  | 479.8  | 507.9  | 578.2  | 704.3  | 856.5  | 944.2  | 944.8  | 926.6  |
| 25°   | 496.7  | 500.0  | 497.7  | 503.3  | 515.5  | 570.6  | 698.2  | 887.2  | 1016.3 | 1022.3 | 1001.5 |
| 27.5° | 547.5  | 547.7  | 542.5  | 542.2  | 544.2  | 582.1  | 704.5  | 920.2  | 1107.1 | 1118.3 | 1092.6 |
| 30°   | 649.1  | 645.0  | 625.1  | 603.6  | 593.8  | 616.4  | 722.0  | 959.3  | 1214.3 | 1234.2 | 1202.0 |
| 32.5° | 806.0  | 800.0  | 763.4  | 711.9  | 660.1  | 671.8  | 753.4  | 1003.8 | 1331.1 | 1367.0 | 1327.8 |
| 35°   | 976.2  | 974.6  | 936.3  | 859.8  | 769.2  | 750.6  | 804.3  | 1062.1 | 1458.5 | 1515.7 | 1469.0 |
| 37.5° | 1134.4 | 1133.5 | 1111.7 | 1021.5 | 911.2  | 860.6  | 886.2  | 1138.5 | 1594.8 | 1677.7 | 1622.6 |
| 40°   | 1279.0 | 1281.5 | 1259.6 | 1178.9 | 1067.8 | 1001.5 | 997.4  | 1232.9 | 1746.5 | 1854.2 | 1788.7 |
| 42.5° | 1403.8 | 1406.6 | 1384.5 | 1324.8 | 1222.5 | 1157.5 | 1134.2 | 1348.5 | 1894.5 | 2043.7 | 1966.3 |
| 45°   | 1488.7 | 1505.6 | 1502.3 | 1454.6 | 1381.2 | 1313.8 | 1298.3 | 1493.6 | 2063.4 | 2244.8 | 2153.9 |
| 47.5° | 1512.7 | 1528.3 | 1552.8 | 1559.3 | 1514.6 | 1448.3 | 1466.9 | 1668.4 | 2234.1 | 2446.1 | 2342.7 |
| 50°   | 1453.6 | 1468.0 | 1518.9 | 1586.9 | 1618.0 | 1597.6 | 1630.8 | 1855.9 | 2409.0 | 2646.9 | 2527.9 |
| 52.5° | 1336.8 | 1351.5 | 1415.8 | 1523.4 | 1650.1 | 1714.5 | 1795.3 | 2040.5 | 2578.4 | 2836.9 | 2703.2 |
| 55°   | 1168.0 | 1183.5 | 1266.1 | 1387.7 | 1588.7 | 1762.8 | 1932.4 | 2224.9 | 2733.6 | 3008.0 | 2861.5 |
| 57.5° | 938.3  | 949.8  | 1035.7 | 1205.8 | 1434.4 | 1714.8 | 2033.7 | 2426.2 | 2879.7 | 3176.0 | 3018.3 |
| 60°   | 611.5  | 621.6  | 721.4  | 911.2  | 1178.5 | 1554.4 | 2053.9 | 2650.6 | 3074.0 | 3394.4 | 3229.7 |
| 62.5° | 406.7  | 413.5  | 472.7  | 612.0  | 830.0  | 1246.5 | 1935.7 | 2829.8 | 3358.7 | 3774.7 | 3592.2 |
| 65°   | 279.0  | 285.9  | 345.0  | 442.2  | 536.3  | 824.5  | 1596.1 | 2806.1 | 3616.7 | 4076.6 | 3860.9 |
| 67.5° | 199.2  | 204.8  | 255.0  | 346.7  | 388.2  | 479.0  | 1082.0 | 2502.8 | 3579.6 | 4088.0 | 3875.3 |
| 70°   | 142.7  | 146.0  | 187.4  | 270.0  | 308.5  | 287.7  | 601.7  | 1914.2 | 3134.2 | 3775.0 | 3580.2 |
| 72.5° | 99.8   | 101.0  | 130.1  | 205.6  | 248.5  | 210.0  | 286.4  | 1276.2 | 2370.5 | 2963.0 | 2775.6 |
| 75°   | 67.6   | 69.0   | 87.5   | 150.9  | 199.4  | 160.4  | 151.7  | 684.4  | 1391.6 | 1640.1 | 1470.2 |
| 77.5° | 41.4   | 42.0   | 56.5   | 103.1  | 149.2  | 122.2  | 97.7   | 290.0  | 538.4  | 528.6  | 450.6  |
| 80°   | 23.5   | 23.5   | 36.0   | 64.1   | 101.8  | 78.8   | 68.5   | 123.3  | 170.5  | 149.8  | 132.0  |
| 82.5° | 13.1   | 13.3   | 26.1   | 39.9   | 67.3   | 46.6   | 37.6   | 57.0   | 73.6   | 65.2   | 56.7   |
| 85°   | 5.4    | 6.0    | 16.1   | 18.9   | 32.2   | 23.2   | 15.3   | 24.0   | 27.3   | 24.3   | 17.7   |
| 87.5° | 0.5    | 0.8    | 4.9    | 3.6    | 3.8    | 4.6    | 2.2    | 4.6    | 3.8    | 3.8    | 2.8    |
| 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°    | 627.6  | 627.6  | 627.6 | 627.6 | 627.6 | 627.6 | 627.6 | 627.6 | 627.6 | 627.6 | 627.6 |
| 2.5°  | 631.7  | 627.6  | 617.3 | 605.3 | 589.4 | 581.8 | 571.4 | 564.4 | 558.3 | 558.8 | 553.4 |
| 5°    | 644.0  | 633.7  | 610.4 | 581.5 | 545.5 | 519.9 | 492.6 | 473.8 | 458.5 | 455.2 | 447.8 |
| 7.5°  | 660.9  | 644.5  | 603.9 | 551.8 | 491.0 | 444.8 | 403.6 | 377.2 | 358.4 | 352.4 | 346.4 |
| 10°   | 682.8  | 659.0  | 595.4 | 514.4 | 426.9 | 368.2 | 324.0 | 303.3 | 290.5 | 286.1 | 282.8 |
| 12.5° | 708.1  | 675.6  | 584.2 | 468.8 | 360.9 | 304.4 | 276.3 | 266.0 | 261.9 | 260.5 | 259.6 |
| 15°   | 739.9  | 696.4  | 567.3 | 414.8 | 304.9 | 265.4 | 253.4 | 252.0 | 252.6 | 252.0 | 251.7 |
| 17.5° | 777.9  | 718.9  | 539.8 | 359.3 | 267.3 | 245.5 | 241.1 | 242.2 | 243.5 | 243.3 | 242.7 |
| 20°   | 819.4  | 741.4  | 504.6 | 309.9 | 241.7 | 231.3 | 228.9 | 229.9 | 231.0 | 230.5 | 230.2 |
| 22.5° | 866.5  | 765.4  | 465.6 | 271.4 | 224.5 | 218.2 | 215.5 | 215.8 | 215.8 | 214.6 | 214.1 |
| 25°   | 923.0  | 791.8  | 424.7 | 244.2 | 211.4 | 206.4 | 203.2 | 202.1 | 200.5 | 197.2 | 196.7 |
| 27.5° | 990.4  | 819.9  | 385.4 | 225.0 | 201.0 | 196.4 | 192.6 | 189.8 | 185.7 | 180.3 | 179.8 |
| 30°   | 1066.2 | 854.0  | 352.1 | 213.0 | 192.8 | 188.2 | 183.9 | 179.8 | 173.7 | 167.0 | 166.4 |
| 32.5° | 1155.4 | 890.5  | 327.9 | 205.1 | 185.4 | 180.6 | 175.4 | 170.5 | 163.9 | 157.1 | 157.3 |
| 35°   | 1261.8 | 934.7  | 313.6 | 199.7 | 179.8 | 173.2 | 167.5 | 162.1 | 157.1 | 151.1 | 150.6 |
| 37.5° | 1377.2 | 981.6  | 309.3 | 196.9 | 175.9 | 165.8 | 159.3 | 155.5 | 154.9 | 151.4 | 151.1 |
| 40°   | 1503.5 | 1037.3 | 312.6 | 195.3 | 171.8 | 158.8 | 151.7 | 150.9 | 152.2 | 146.0 | 146.2 |
| 42.5° | 1637.0 | 1103.3 | 318.1 | 193.4 | 166.2 | 151.7 | 144.8 | 144.8 | 143.7 | 135.0 | 135.0 |
| 45°   | 1781.7 | 1179.4 | 323.5 | 188.7 | 159.3 | 144.5 | 139.4 | 137.5 | 132.8 | 124.3 | 124.1 |
| 47.5° | 1927.3 | 1256.9 | 327.6 | 180.3 | 151.1 | 138.6 | 134.0 | 129.6 | 122.7 | 115.1 | 114.8 |
| 50°   | 2065.6 | 1326.5 | 323.2 | 167.8 | 141.9 | 132.8 | 127.9 | 121.9 | 114.6 | 109.4 | 108.5 |
| 52.5° | 2189.1 | 1386.7 | 304.6 | 153.0 | 132.0 | 126.8 | 122.5 | 116.2 | 110.2 | 104.8 | 104.2 |
| 55°   | 2296.6 | 1435.5 | 271.9 | 139.1 | 123.3 | 121.7 | 117.3 | 109.4 | 101.2 | 96.6  | 96.0  |
| 57.5° | 2399.7 | 1472.6 | 231.0 | 127.6 | 115.4 | 115.9 | 109.4 | 102.3 | 94.6  | 89.7  | 89.2  |
| 60°   | 2536.9 | 1522.2 | 189.5 | 117.1 | 106.9 | 108.5 | 101.5 | 96.2  | 86.7  | 80.5  | 79.6  |
| 62.5° | 2756.2 | 1599.4 | 150.6 | 103.9 | 97.1  | 97.7  | 94.6  | 88.4  | 76.9  | 69.6  | 69.0  |
| 65°   | 2930.2 | 1571.1 | 118.7 | 89.7  | 85.9  | 86.7  | 86.7  | 79.9  | 67.6  | 59.1  | 58.3  |
| 67.5° | 2910.6 | 1345.2 | 94.6  | 75.8  | 75.2  | 75.8  | 77.7  | 72.1  | 60.0  | 53.2  | 52.1  |
| 70°   | 2681.2 | 1070.0 | 75.8  | 63.0  | 65.5  | 64.1  | 69.6  | 65.7  | 54.0  | 47.2  | 46.3  |
| 72.5° | 2187.8 | 770.8  | 57.8  | 52.1  | 50.2  | 52.4  | 62.7  | 59.1  | 45.0  | 37.4  | 36.6  |
| 75°   | 1278.4 | 411.3  | 43.0  | 41.2  | 36.3  | 43.7  | 55.7  | 50.4  | 34.3  | 27.6  | 26.8  |
| 77.5° | 416.3  | 143.5  | 31.7  | 30.2  | 27.0  | 35.2  | 47.5  | 42.5  | 28.1  | 21.8  | 21.0  |
| 80°   | 111.5  | 43.4   | 21.5  | 19.9  | 17.4  | 26.1  | 37.6  | 33.8  | 20.2  | 14.1  | 13.9  |
| 82.5° | 44.7   | 18.2   | 12.5  | 11.2  | 9.5   | 18.0  | 29.7  | 27.3  | 15.0  | 9.0   | 9.0   |
| 85°   | 14.5   | 6.0    | 4.6   | 3.6   | 4.4   | 11.2  | 17.7  | 18.6  | 10.7  | 4.6   | 3.6   |
| 87.5° | 1.9    | 0.8    | 0.8   | 1.1   | 0.8   | 1.9   | 5.4   | 5.2   | 3.0   | 0.5   | 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)