

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: P233558

Luminaire Tested: **VERD-C015-D-U-T4-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C015-D-U-T4-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 750mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3422 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 30  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

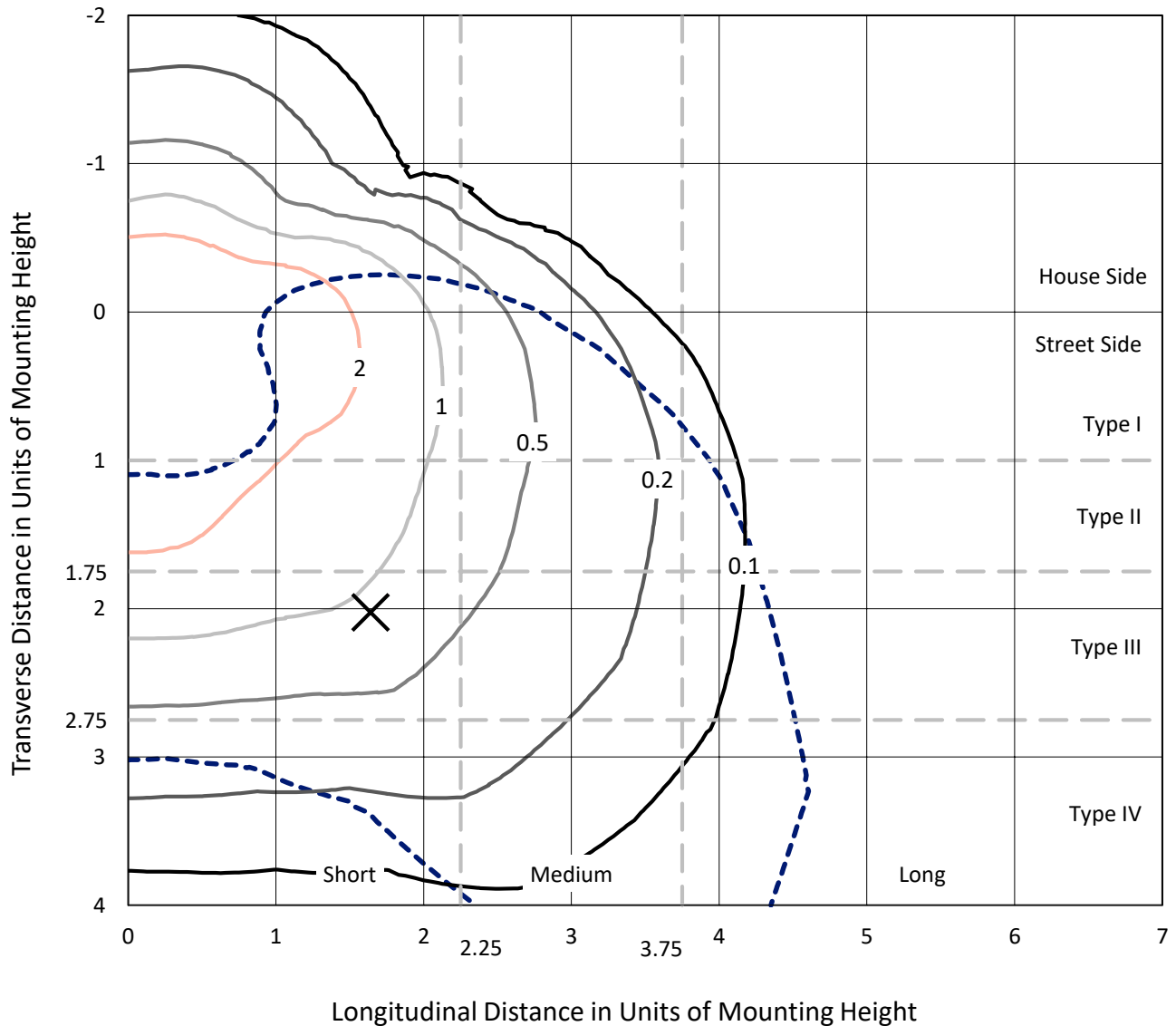


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

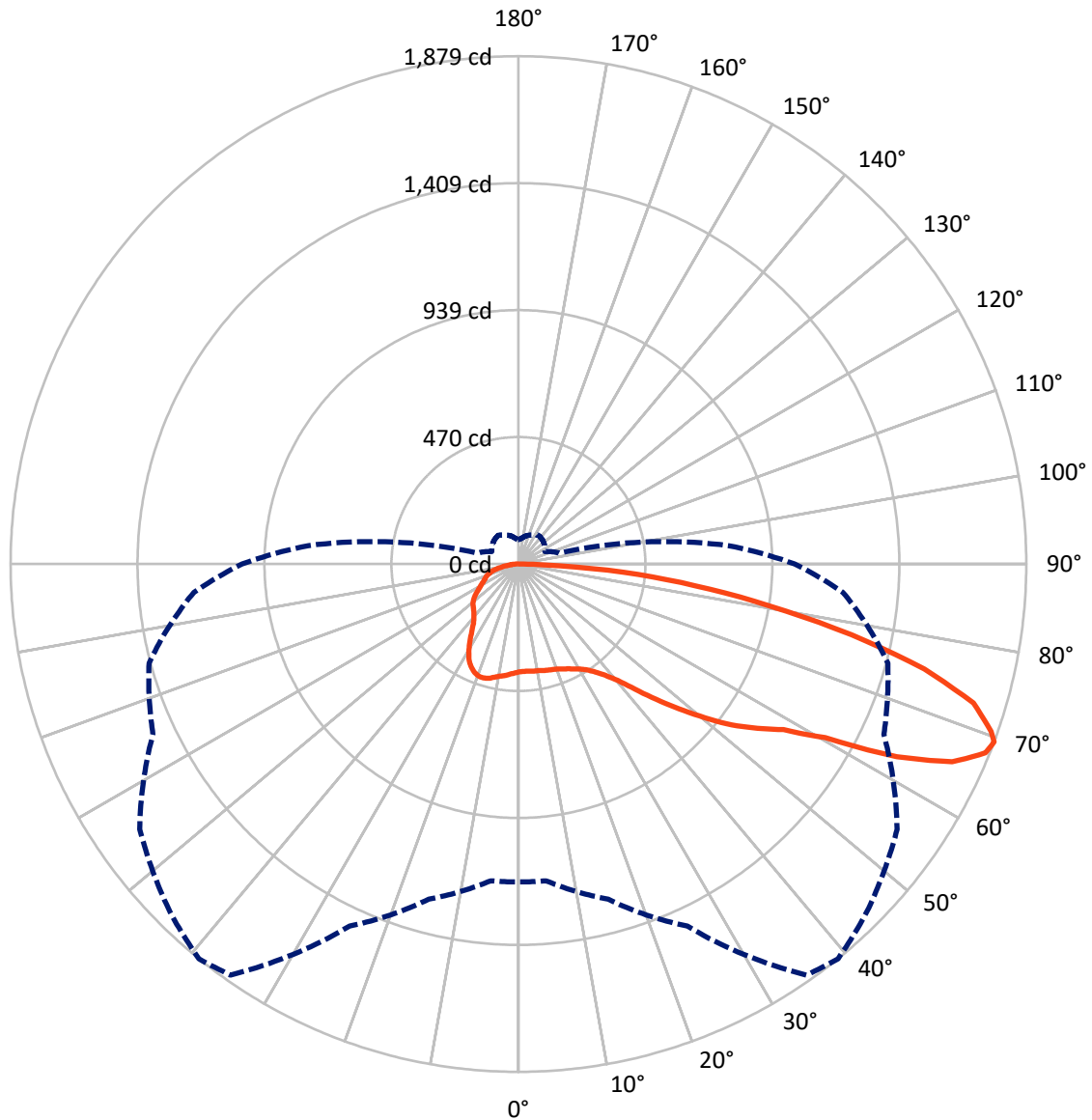


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 802.2    | 0.0    | 802.2  |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 2619.8   | 0.0    | 2619.8 |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 3422.0   | 0.0    | 3422.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.7   | 1.1       |
| 10°-20°   | 119.7  | 3.5       |
| 20°-30°   | 201.5  | 5.9       |
| 30°-40°   | 292.0  | 8.5       |
| 40°-50°   | 472.0  | 13.8      |
| 50°-60°   | 691.0  | 20.2      |
| 60°-70°   | 864.8  | 25.3      |
| 70°-80°   | 618.3  | 18.1      |
| 80°-90°   | 124.0  | 3.6       |
| 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°    | 3422.0 | 100.0     |
| 0°-180°   | 3422.0 | 100.0     |



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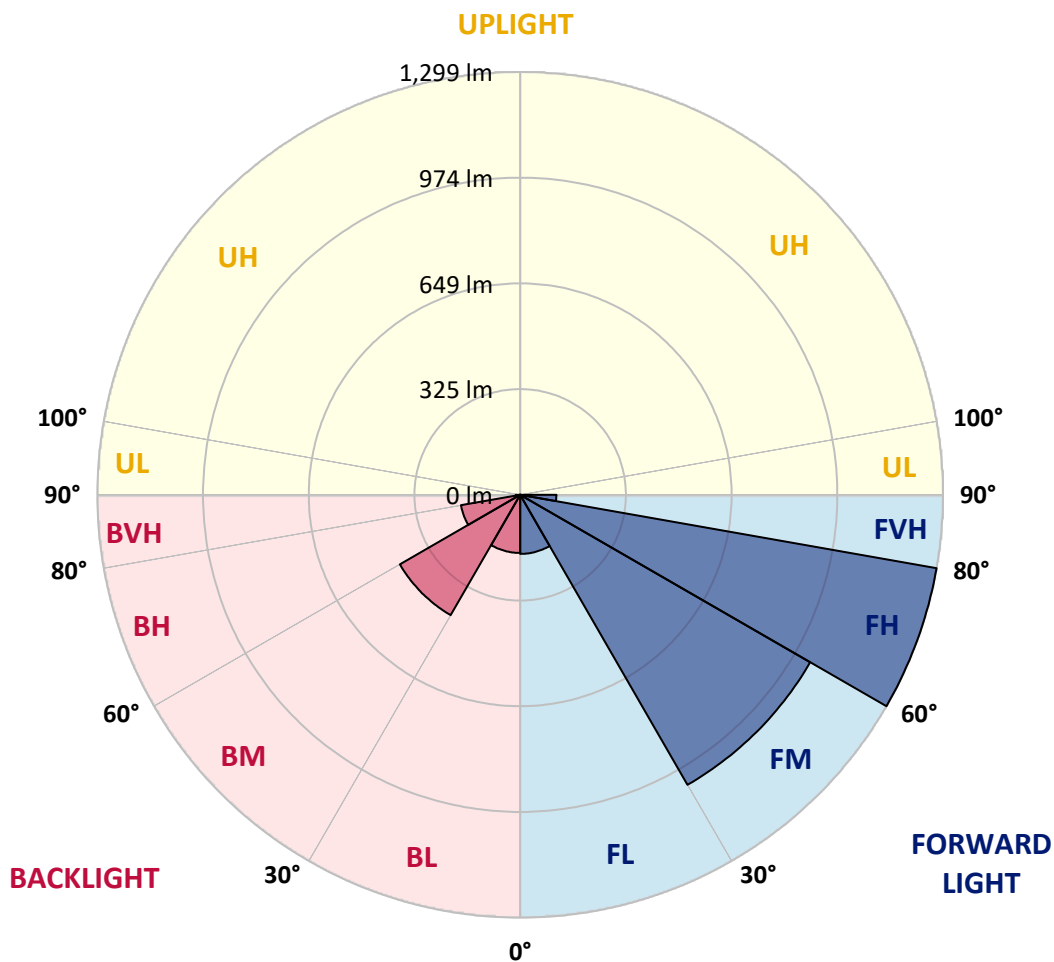
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 181.5  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 1028.4 | 30.1      |                         |      |         |
| FH   | (60°-80°)   | 1298.6 | 37.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 111.3  | 3.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 178.5  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 426.6  | 12.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 184.5  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.7   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  | 398.6  |
| 2.5°  | 405.5  | 404.9  | 403.6  | 398.6  | 398.0  | 397.7  | 398.3  | 396.4  | 396.1  | 396.7  | 396.1  |
| 5°    | 405.8  | 405.2  | 403.6  | 399.2  | 398.6  | 398.0  | 398.3  | 396.7  | 397.0  | 398.6  | 398.6  |
| 7.5°  | 406.5  | 405.8  | 404.3  | 399.5  | 400.8  | 400.2  | 401.4  | 399.2  | 399.2  | 400.5  | 400.8  |
| 10°   | 404.9  | 404.6  | 403.6  | 400.2  | 402.1  | 400.8  | 402.1  | 402.4  | 403.6  | 404.6  | 404.3  |
| 12.5° | 400.8  | 400.8  | 400.8  | 399.2  | 404.6  | 404.3  | 406.5  | 408.7  | 411.8  | 413.4  | 414.4  |
| 15°   | 398.3  | 398.0  | 400.2  | 399.9  | 406.5  | 407.4  | 411.2  | 416.9  | 421.6  | 425.7  | 427.0  |
| 17.5° | 400.8  | 400.8  | 403.6  | 403.0  | 409.6  | 410.3  | 414.4  | 422.6  | 430.4  | 438.3  | 441.8  |
| 20°   | 403.6  | 404.0  | 407.4  | 408.4  | 414.7  | 414.4  | 418.5  | 428.6  | 439.3  | 450.9  | 456.9  |
| 22.5° | 412.5  | 412.2  | 415.0  | 413.1  | 420.4  | 421.6  | 425.1  | 433.9  | 449.1  | 463.9  | 473.6  |
| 25°   | 419.1  | 420.0  | 422.9  | 421.6  | 427.6  | 429.2  | 434.9  | 443.4  | 461.4  | 479.0  | 496.4  |
| 27.5° | 425.4  | 427.3  | 429.5  | 429.2  | 437.4  | 439.3  | 443.7  | 456.9  | 477.7  | 498.9  | 523.2  |
| 30°   | 434.9  | 434.2  | 435.8  | 438.6  | 449.4  | 450.6  | 456.0  | 472.1  | 497.3  | 524.7  | 557.2  |
| 32.5° | 447.5  | 446.8  | 448.4  | 450.9  | 463.9  | 467.0  | 474.3  | 491.6  | 523.5  | 556.6  | 596.3  |
| 35°   | 467.3  | 468.9  | 470.2  | 473.3  | 485.9  | 490.4  | 500.1  | 522.2  | 559.1  | 612.1  | 668.8  |
| 37.5° | 536.4  | 532.9  | 526.0  | 513.4  | 516.9  | 521.9  | 535.8  | 567.3  | 620.9  | 710.8  | 762.8  |
| 40°   | 644.3  | 640.2  | 618.4  | 581.5  | 564.8  | 566.0  | 579.6  | 622.5  | 695.7  | 826.8  | 874.8  |
| 42.5° | 745.8  | 740.7  | 714.9  | 668.8  | 635.7  | 632.0  | 633.2  | 682.7  | 777.6  | 942.9  | 968.4  |
| 45°   | 841.7  | 844.2  | 804.8  | 769.4  | 731.6  | 714.3  | 708.9  | 745.8  | 868.8  | 1043.5 | 1051.4 |
| 47.5° | 933.4  | 935.3  | 890.9  | 856.8  | 820.2  | 800.0  | 789.6  | 818.3  | 952.7  | 1124.8 | 1117.6 |
| 50°   | 1027.1 | 1032.1 | 971.3  | 942.3  | 908.5  | 894.0  | 883.9  | 902.8  | 1045.4 | 1202.7 | 1180.3 |
| 52.5° | 1159.2 | 1138.1 | 1058.3 | 1017.3 | 993.3  | 988.9  | 978.5  | 994.0  | 1143.8 | 1271.5 | 1224.8 |
| 55°   | 1306.2 | 1261.1 | 1177.2 | 1105.6 | 1072.5 | 1072.5 | 1063.3 | 1081.3 | 1245.3 | 1322.9 | 1261.1 |
| 57.5° | 1353.8 | 1358.2 | 1329.2 | 1251.3 | 1162.4 | 1155.4 | 1146.6 | 1171.2 | 1332.3 | 1368.9 | 1274.6 |
| 60°   | 1437.0 | 1449.3 | 1471.7 | 1406.8 | 1362.9 | 1304.0 | 1250.3 | 1263.6 | 1407.4 | 1406.8 | 1289.1 |
| 62.5° | 1478.3 | 1490.0 | 1560.0 | 1525.0 | 1566.3 | 1570.4 | 1470.1 | 1368.0 | 1462.9 | 1425.7 | 1296.1 |
| 65°   | 1439.2 | 1447.4 | 1540.8 | 1586.8 | 1706.6 | 1763.7 | 1714.2 | 1508.3 | 1492.2 | 1417.8 | 1270.2 |
| 67.5° | 1310.9 | 1326.3 | 1403.6 | 1543.9 | 1831.8 | 1863.7 | 1817.3 | 1701.0 | 1504.8 | 1420.3 | 1249.4 |
| 69°   | 1175.9 | 1176.2 | 1283.5 | 1478.0 | 1856.4 | 1878.5 | 1821.8 | 1710.1 | 1491.6 | 1414.3 | 1204.9 |
| 70°   | 1099.9 | 1107.8 | 1187.3 | 1420.9 | 1847.3 | 1854.5 | 1811.0 | 1709.8 | 1482.4 | 1412.4 | 1162.7 |
| 72.5° | 858.4  | 854.3  | 933.4  | 1188.2 | 1743.9 | 1759.9 | 1712.0 | 1661.6 | 1474.9 | 1331.1 | 983.6  |
| 75°   | 600.1  | 612.7  | 690.3  | 900.3  | 1502.6 | 1550.9 | 1550.9 | 1596.3 | 1357.6 | 1137.5 | 711.1  |
| 77.5° | 446.5  | 448.4  | 510.5  | 687.8  | 1209.0 | 1259.2 | 1305.2 | 1343.4 | 1061.1 | 779.2  | 317.9  |
| 80°   | 302.4  | 305.3  | 362.0  | 507.4  | 895.9  | 941.9  | 1014.8 | 924.3  | 631.3  | 269.6  | 36.3   |
| 82.5° | 190.5  | 194.3  | 239.3  | 356.3  | 638.6  | 659.4  | 681.8  | 521.9  | 210.3  | 31.2   | 23.0   |
| 85°   | 113.2  | 113.8  | 144.4  | 227.7  | 389.5  | 390.7  | 366.7  | 240.3  | 56.4   | 18.6   | 14.5   |
| 87.5° | 47.3   | 49.8   | 63.1   | 100.9  | 114.2  | 90.2   | 56.1   | 19.2   | 8.5    | 7.6    | 5.0    |
| 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°    | 398.6  | 398.6  | 398.6 | 398.6 | 398.6 | 398.6 | 398.6 | 398.6 | 398.6 | 398.6 | 398.6 |
| 2.5°  | 394.2  | 397.7  | 397.0 | 398.0 | 399.2 | 401.7 | 404.6 | 403.3 | 404.9 | 408.4 | 408.4 |
| 5°    | 397.7  | 400.5  | 401.4 | 403.3 | 404.9 | 407.4 | 409.3 | 408.7 | 412.2 | 417.2 | 417.2 |
| 7.5°  | 400.5  | 402.7  | 405.8 | 408.1 | 409.6 | 414.7 | 416.6 | 415.3 | 417.8 | 423.8 | 424.1 |
| 10°   | 404.6  | 406.8  | 411.5 | 413.7 | 416.9 | 419.4 | 421.9 | 421.6 | 424.1 | 429.5 | 430.4 |
| 12.5° | 414.7  | 416.3  | 422.9 | 426.0 | 426.0 | 429.2 | 427.3 | 424.1 | 425.4 | 428.6 | 429.2 |
| 15°   | 427.9  | 430.1  | 438.6 | 440.2 | 438.6 | 439.3 | 434.9 | 424.8 | 419.7 | 420.7 | 421.0 |
| 17.5° | 443.1  | 446.8  | 456.6 | 454.4 | 452.5 | 447.8 | 436.4 | 421.3 | 406.2 | 400.5 | 401.4 |
| 20°   | 459.1  | 463.9  | 475.2 | 470.5 | 463.6 | 451.3 | 433.0 | 407.1 | 383.8 | 370.2 | 369.6 |
| 22.5° | 477.7  | 483.7  | 494.5 | 486.3 | 470.8 | 449.4 | 421.3 | 389.8 | 360.1 | 339.0 | 337.7 |
| 25°   | 503.3  | 509.9  | 513.7 | 497.3 | 472.1 | 442.4 | 404.6 | 366.1 | 328.9 | 303.7 | 301.8 |
| 27.5° | 532.3  | 535.8  | 528.2 | 503.6 | 466.1 | 427.6 | 383.8 | 336.2 | 295.2 | 274.4 | 271.5 |
| 30°   | 564.5  | 561.6  | 538.0 | 500.5 | 450.6 | 404.3 | 351.3 | 298.0 | 265.2 | 248.5 | 246.0 |
| 32.5° | 601.7  | 592.8  | 545.5 | 491.6 | 430.1 | 373.7 | 316.0 | 273.7 | 247.5 | 230.8 | 229.6 |
| 35°   | 662.9  | 637.6  | 557.8 | 478.1 | 403.0 | 337.7 | 283.5 | 252.9 | 232.4 | 211.6 | 208.4 |
| 37.5° | 751.5  | 703.9  | 575.8 | 465.4 | 373.7 | 303.0 | 258.9 | 236.2 | 218.2 | 194.9 | 190.5 |
| 40°   | 843.5  | 781.7  | 605.5 | 451.6 | 346.2 | 277.5 | 245.3 | 229.3 | 211.6 | 189.5 | 183.5 |
| 42.5° | 927.7  | 855.8  | 640.2 | 434.2 | 317.6 | 257.0 | 238.7 | 227.4 | 209.7 | 188.9 | 184.2 |
| 45°   | 1004.1 | 925.5  | 675.8 | 414.4 | 286.0 | 240.6 | 233.4 | 223.9 | 205.9 | 186.1 | 182.3 |
| 47.5° | 1068.4 | 984.8  | 711.7 | 391.3 | 255.7 | 230.5 | 227.7 | 217.6 | 200.9 | 181.6 | 178.5 |
| 50°   | 1121.7 | 1027.4 | 732.2 | 367.1 | 230.8 | 222.9 | 219.5 | 206.9 | 189.8 | 171.9 | 170.0 |
| 52.5° | 1161.1 | 1053.9 | 750.8 | 354.1 | 211.3 | 210.7 | 208.4 | 196.1 | 179.7 | 161.1 | 157.4 |
| 55°   | 1188.5 | 1075.6 | 742.6 | 344.0 | 190.5 | 195.2 | 193.9 | 186.4 | 172.5 | 150.7 | 147.6 |
| 57.5° | 1190.1 | 1077.5 | 725.0 | 284.1 | 170.0 | 176.6 | 178.8 | 180.1 | 164.6 | 145.4 | 141.6 |
| 60°   | 1188.5 | 1063.7 | 692.2 | 208.4 | 150.1 | 158.0 | 166.2 | 166.2 | 155.5 | 136.5 | 133.7 |
| 62.5° | 1181.3 | 1036.2 | 615.9 | 148.5 | 134.3 | 144.7 | 155.5 | 150.7 | 141.6 | 126.5 | 123.6 |
| 65°   | 1148.2 | 990.5  | 481.8 | 121.1 | 127.7 | 137.2 | 142.2 | 135.6 | 123.9 | 108.2 | 106.9 |
| 67.5° | 1087.9 | 885.8  | 278.8 | 111.0 | 122.0 | 130.6 | 134.7 | 124.6 | 113.5 | 98.4  | 97.8  |
| 69°   | 1021.7 | 779.8  | 157.0 | 108.5 | 118.6 | 126.1 | 129.6 | 118.6 | 107.8 | 93.3  | 90.5  |
| 70°   | 962.4  | 685.2  | 102.2 | 106.3 | 115.1 | 123.3 | 125.8 | 114.5 | 104.4 | 89.6  | 87.7  |
| 72.5° | 729.1  | 412.8  | 68.7  | 97.1  | 105.6 | 111.9 | 115.7 | 105.0 | 93.7  | 78.8  | 75.1  |
| 75°   | 398.3  | 112.3  | 60.5  | 83.3  | 94.0  | 102.5 | 103.4 | 89.9  | 73.5  | 58.3  | 56.8  |
| 77.5° | 77.6   | 38.5   | 52.0  | 68.7  | 74.7  | 84.8  | 84.2  | 75.1  | 63.7  | 49.5  | 47.6  |
| 80°   | 29.3   | 27.8   | 43.5  | 49.2  | 52.7  | 63.4  | 67.2  | 60.5  | 53.0  | 33.7  | 29.0  |
| 82.5° | 19.9   | 20.5   | 32.5  | 29.0  | 32.2  | 37.5  | 47.3  | 46.0  | 41.9  | 23.0  | 20.5  |
| 85°   | 13.9   | 16.1   | 18.0  | 12.3  | 15.8  | 23.7  | 31.2  | 30.3  | 25.9  | 16.1  | 14.5  |
| 87.5° | 4.1    | 4.4    | 5.0   | 6.3   | 9.8   | 17.7  | 25.5  | 21.1  | 14.2  | 12.0  | 10.4  |
| 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)