

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: INVUE

Report Number: P139440

Luminaire Tested: **ENT-E01-LED-E1-BL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P139440  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33644)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-E01-LED-E1-BL2  
Description: ENTRI LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2738.1 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

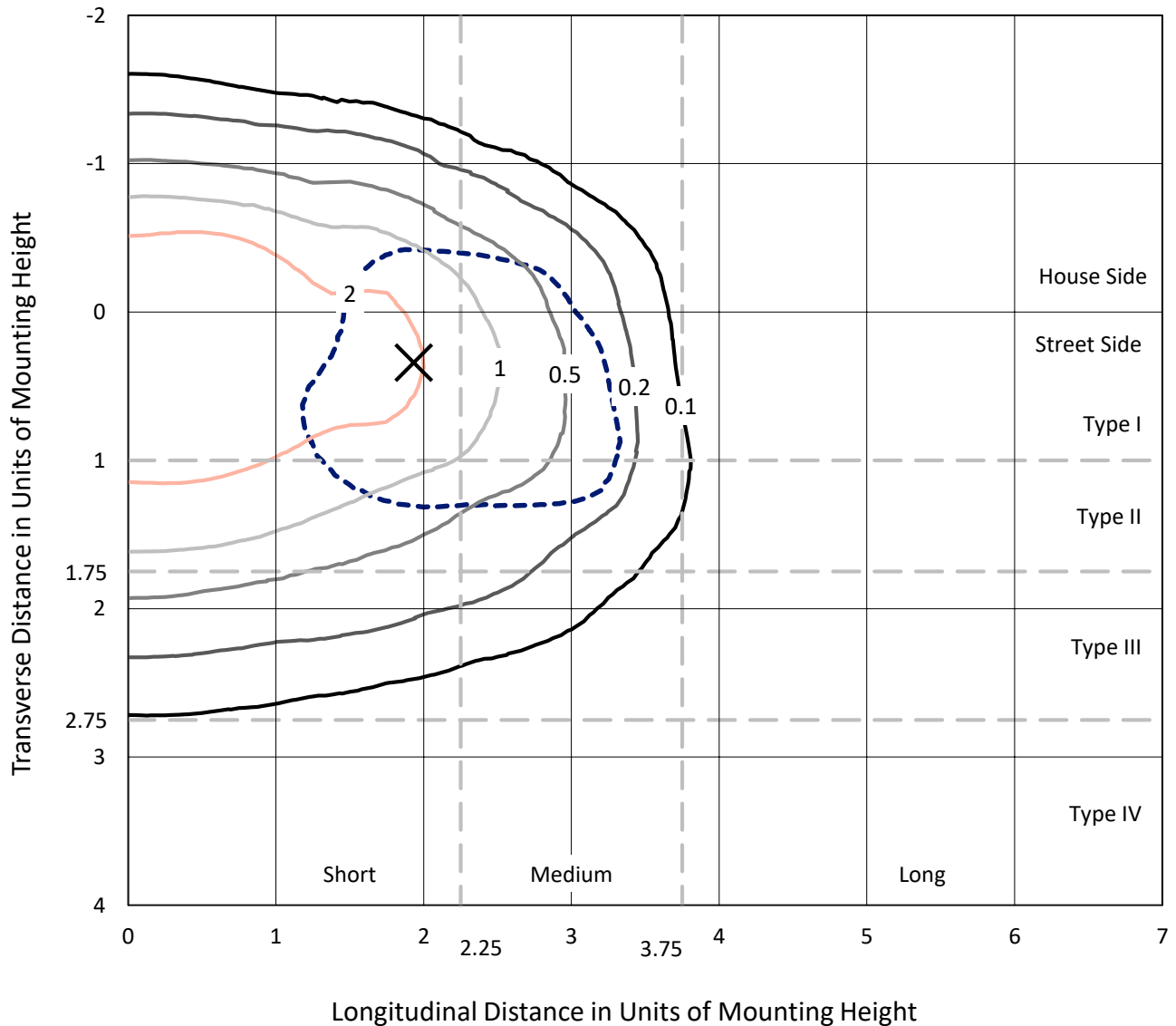
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

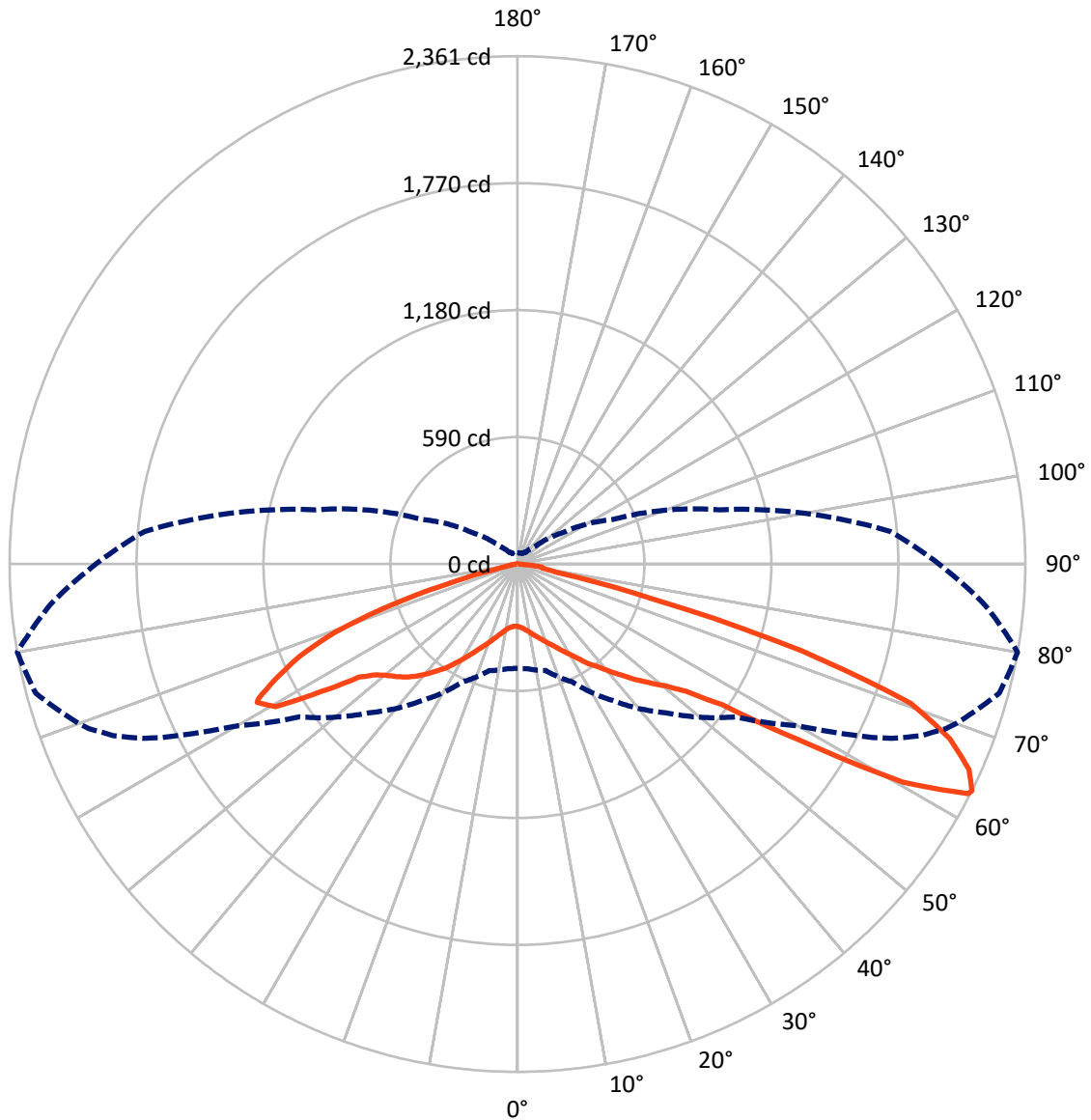
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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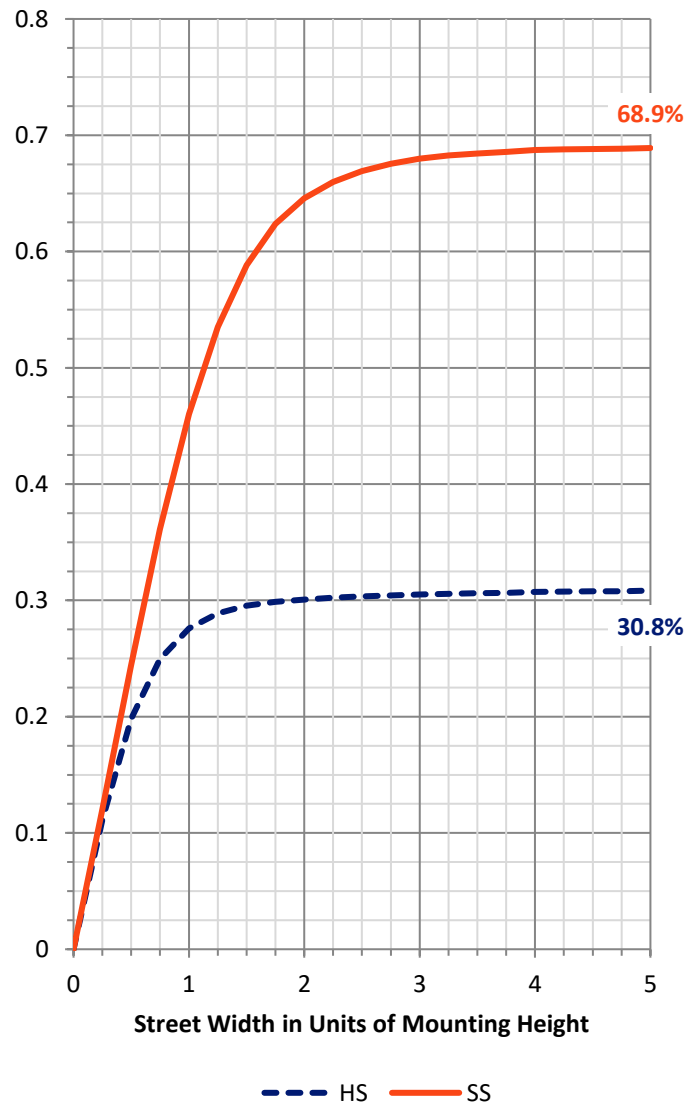
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 852.7    | 0.0    | 852.7  |
|                    | % Fixture | 31.1     | 0.0    | 31.1   |
| <b>Street Side</b> | Lumens    | 1885.4   | 0.0    | 1885.4 |
|                    | % Fixture | 68.9     | 0.0    | 68.9   |
| <b>Total</b>       | Lumens    | 2738.1   | 0.0    | 2738.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.1   | 1.1       |
| 10°-20°   | 99.7   | 3.6       |
| 20°-30°   | 187.3  | 6.8       |
| 30°-40°   | 297.3  | 10.9      |
| 40°-50°   | 448.8  | 16.4      |
| 50°-60°   | 630.8  | 23.0      |
| 60°-70°   | 736.0  | 26.9      |
| 70°-80°   | 284.5  | 10.4      |
| 80°-90°   | 24.8   | 0.9       |
| 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°    | 2738.1 | 100.0     |
| 0°-180°   | 2738.1 | 100.0     |



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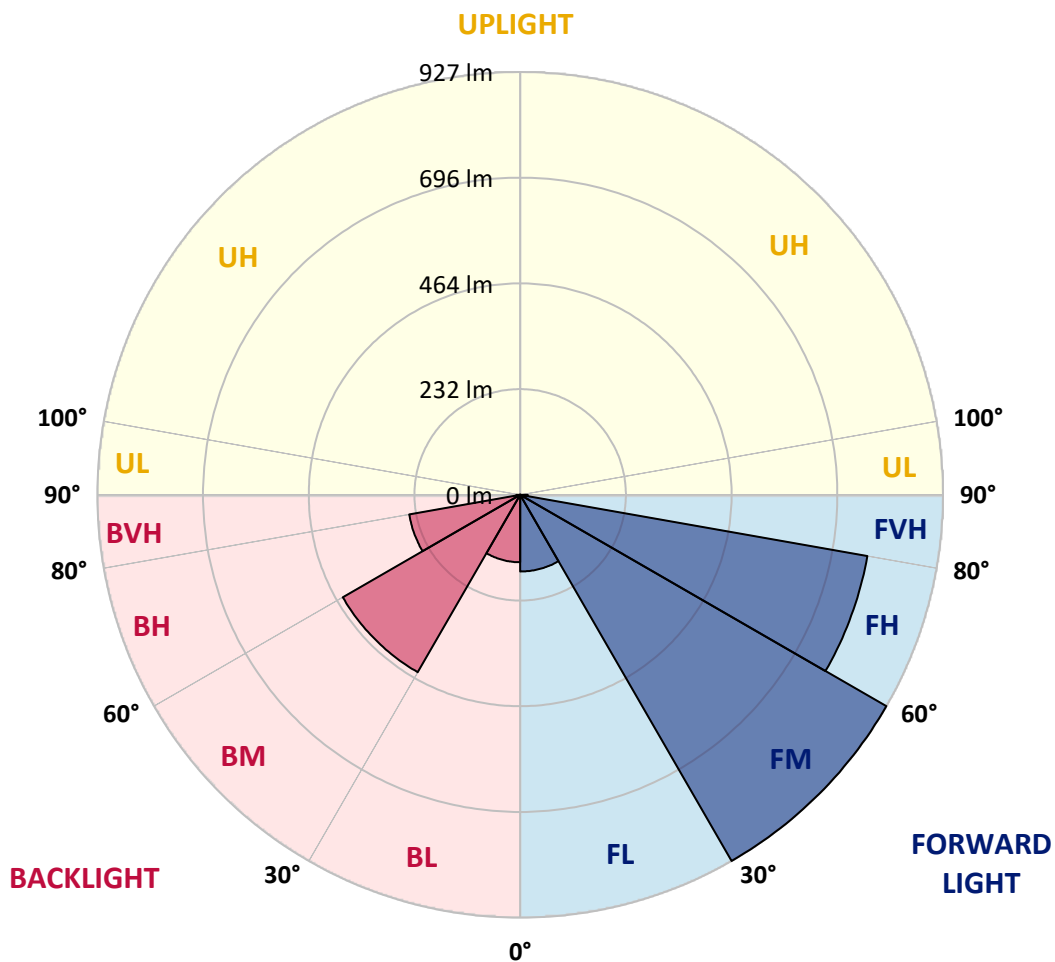
CATALOG NUMBER: ENT-E01-LED-E1-BL2

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 168.2  | 6.1       |                         |      |         |
| FM (30°-60°)   | 927.5  | 33.9      |                         |      |         |
| FH (60°-80°)   | 773.2  | 28.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.5   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 147.9  | 5.4       | B1/500                  |      |         |
| BM (30°-60°)   | 449.4  | 16.4      | B1/1000                 |      |         |
| BH (60°-80°)   | 247.2  | 9.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 8.3    | 0.3       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  |
| 2.5°  | 304.5 | 303.5 | 304.0 | 303.5 | 303.5 | 302.5  | 299.5  | 299.5  | 299.0  | 299.5  | 298.5  |
| 5°    | 321.0 | 320.5 | 320.0 | 319.0 | 319.0 | 317.0  | 312.0  | 311.0  | 311.5  | 310.5  | 308.5  |
| 7.5°  | 339.5 | 339.0 | 338.0 | 336.0 | 335.0 | 332.0  | 325.0  | 324.0  | 323.5  | 322.5  | 321.0  |
| 10°   | 358.0 | 357.5 | 356.0 | 353.5 | 351.0 | 346.5  | 339.5  | 337.0  | 336.5  | 336.0  | 334.5  |
| 12.5° | 377.0 | 375.5 | 376.0 | 371.5 | 367.5 | 362.0  | 354.0  | 351.5  | 351.0  | 350.5  | 350.0  |
| 15°   | 398.0 | 397.5 | 396.5 | 390.5 | 383.0 | 375.5  | 367.5  | 364.5  | 362.5  | 363.0  | 362.5  |
| 17.5° | 418.0 | 417.5 | 414.0 | 405.5 | 395.5 | 387.0  | 377.0  | 375.0  | 375.0  | 374.5  | 374.5  |
| 20°   | 432.5 | 432.0 | 428.5 | 418.0 | 405.0 | 395.5  | 387.5  | 387.5  | 387.0  | 387.5  | 388.0  |
| 22.5° | 439.0 | 439.0 | 434.5 | 423.0 | 409.0 | 402.0  | 399.5  | 401.0  | 401.5  | 402.0  | 403.0  |
| 25°   | 441.5 | 441.5 | 437.0 | 423.5 | 410.5 | 411.5  | 414.5  | 417.0  | 418.0  | 418.0  | 421.5  |
| 27.5° | 446.0 | 446.5 | 440.5 | 426.0 | 415.5 | 425.0  | 432.5  | 436.0  | 437.5  | 438.5  | 443.0  |
| 30°   | 459.5 | 459.0 | 454.0 | 438.5 | 430.5 | 444.0  | 457.5  | 461.0  | 464.5  | 464.5  | 469.5  |
| 32.5° | 479.5 | 479.0 | 476.0 | 464.0 | 460.5 | 477.5  | 489.5  | 497.0  | 496.5  | 497.5  | 501.0  |
| 35°   | 506.0 | 506.5 | 508.5 | 505.5 | 508.5 | 525.5  | 539.0  | 542.0  | 542.5  | 543.0  | 543.5  |
| 37.5° | 536.0 | 536.5 | 547.5 | 557.0 | 570.5 | 595.5  | 603.5  | 605.0  | 601.5  | 601.5  | 600.5  |
| 40°   | 558.5 | 561.0 | 585.5 | 610.5 | 639.0 | 673.0  | 685.0  | 682.0  | 679.5  | 677.5  | 671.5  |
| 42.5° | 604.5 | 606.0 | 632.0 | 668.0 | 708.0 | 755.0  | 776.0  | 766.0  | 765.5  | 756.5  | 752.0  |
| 45°   | 650.5 | 654.5 | 682.5 | 723.0 | 771.0 | 836.0  | 867.0  | 858.5  | 857.0  | 853.0  | 840.5  |
| 47.5° | 687.0 | 692.5 | 723.5 | 771.5 | 826.5 | 901.5  | 957.0  | 963.0  | 959.5  | 955.0  | 945.0  |
| 50°   | 718.0 | 722.5 | 754.0 | 806.5 | 869.5 | 951.5  | 1031.0 | 1052.5 | 1055.5 | 1053.5 | 1051.0 |
| 52.5° | 738.0 | 742.5 | 773.5 | 829.5 | 894.5 | 988.5  | 1086.0 | 1128.5 | 1137.5 | 1137.0 | 1147.5 |
| 55°   | 738.5 | 743.5 | 775.5 | 837.0 | 908.5 | 1014.0 | 1137.0 | 1204.0 | 1215.0 | 1228.5 | 1251.0 |
| 57.5° | 711.0 | 716.0 | 756.0 | 827.0 | 912.5 | 1034.0 | 1186.5 | 1304.5 | 1334.5 | 1361.0 | 1423.0 |
| 60°   | 634.5 | 636.5 | 680.5 | 775.5 | 893.5 | 1029.5 | 1224.0 | 1391.0 | 1433.5 | 1491.0 | 1591.0 |
| 62.5° | 517.0 | 521.0 | 548.0 | 640.5 | 805.0 | 990.0  | 1239.0 | 1487.5 | 1557.5 | 1641.5 | 1801.5 |
| 63°   | 484.5 | 488.0 | 513.0 | 604.5 | 775.0 | 977.5  | 1238.5 | 1503.0 | 1580.0 | 1666.5 | 1839.0 |
| 65°   | 374.0 | 375.0 | 393.5 | 462.5 | 636.0 | 886.5  | 1211.5 | 1481.0 | 1578.5 | 1679.5 | 1860.5 |
| 67.5° | 301.5 | 305.0 | 323.5 | 372.0 | 502.5 | 744.5  | 1090.5 | 1283.0 | 1349.5 | 1449.0 | 1664.5 |
| 70°   | 236.0 | 242.0 | 259.5 | 314.5 | 428.5 | 599.5  | 917.5  | 1071.0 | 1112.0 | 1159.5 | 1342.5 |
| 72.5° | 156.0 | 157.5 | 160.5 | 191.0 | 299.0 | 466.5  | 763.5  | 868.0  | 884.0  | 918.0  | 1007.5 |
| 75°   | 73.5  | 79.0  | 83.5  | 99.0  | 144.5 | 305.5  | 553.5  | 616.5  | 635.5  | 671.0  | 703.5  |
| 77.5° | 32.0  | 31.5  | 33.5  | 45.5  | 76.0  | 136.0  | 344.5  | 455.5  | 462.0  | 454.0  | 440.0  |
| 80°   | 10.0  | 10.5  | 11.0  | 12.0  | 24.0  | 65.0   | 149.0  | 306.0  | 338.0  | 359.5  | 353.5  |
| 82.5° | 1.0   | 0.5   | 1.5   | 3.0   | 5.0   | 9.5    | 56.0   | 143.5  | 180.5  | 221.5  | 274.0  |
| 85°   | 0.0   | 0.0   | 0.5   | 0.5   | 1.0   | 2.0    | 3.5    | 15.0   | 25.0   | 29.0   | 57.5   |
| 87.5° | 0.0   | 0.0   | 0.5   | 0.5   | 1.0   | 1.5    | 1.5    | 2.0    | 2.0    | 2.0    | 2.0    |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  | 290.0  |
| 2.5°  | 298.0  | 298.0  | 297.0  | 297.5  | 297.0  | 297.0  | 296.0  | 295.0  | 294.5  | 292.0  | 290.5  |
| 5°    | 308.5  | 308.5  | 308.0  | 307.0  | 307.0  | 306.5  | 304.0  | 301.5  | 300.0  | 297.0  | 294.0  |
| 7.5°  | 320.5  | 320.0  | 319.0  | 318.0  | 318.0  | 317.5  | 314.0  | 311.5  | 308.5  | 304.0  | 300.5  |
| 10°   | 334.5  | 334.0  | 333.0  | 331.5  | 331.5  | 331.0  | 327.5  | 323.5  | 321.0  | 315.5  | 311.0  |
| 12.5° | 349.5  | 348.0  | 347.5  | 346.5  | 345.5  | 345.5  | 342.5  | 338.5  | 336.5  | 330.5  | 326.0  |
| 15°   | 362.0  | 361.0  | 360.5  | 360.0  | 359.5  | 358.5  | 356.0  | 352.5  | 351.0  | 346.0  | 342.5  |
| 17.5° | 374.0  | 374.0  | 374.5  | 373.5  | 373.0  | 372.0  | 370.5  | 369.5  | 368.0  | 363.5  | 361.5  |
| 20°   | 388.0  | 388.0  | 389.0  | 388.5  | 388.0  | 389.5  | 389.0  | 388.5  | 388.5  | 384.5  | 383.0  |
| 22.5° | 404.5  | 404.0  | 405.5  | 405.0  | 405.5  | 407.0  | 409.0  | 408.0  | 410.0  | 407.5  | 406.5  |
| 25°   | 423.5  | 423.0  | 424.5  | 425.5  | 426.5  | 427.5  | 431.5  | 432.5  | 435.0  | 434.5  | 432.5  |
| 27.5° | 445.0  | 445.5  | 446.0  | 448.5  | 450.0  | 451.0  | 456.5  | 459.5  | 464.5  | 462.5  | 464.5  |
| 30°   | 470.0  | 472.5  | 474.5  | 477.0  | 477.5  | 478.5  | 487.5  | 490.5  | 493.0  | 494.5  | 497.5  |
| 32.5° | 504.5  | 506.0  | 506.5  | 509.5  | 510.5  | 512.0  | 521.5  | 525.5  | 529.0  | 529.5  | 535.0  |
| 35°   | 546.5  | 547.5  | 549.0  | 550.5  | 552.5  | 551.5  | 562.5  | 568.5  | 573.0  | 573.5  | 579.5  |
| 37.5° | 602.0  | 598.5  | 600.0  | 598.0  | 595.0  | 595.0  | 598.5  | 604.5  | 609.5  | 613.5  | 619.5  |
| 40°   | 668.5  | 666.0  | 665.5  | 661.0  | 656.0  | 651.5  | 649.5  | 653.0  | 657.0  | 660.5  | 668.0  |
| 42.5° | 744.5  | 742.0  | 733.5  | 730.5  | 722.0  | 717.0  | 703.5  | 705.0  | 712.0  | 714.0  | 718.5  |
| 45°   | 833.5  | 824.5  | 821.5  | 803.0  | 799.5  | 792.5  | 767.0  | 765.0  | 771.0  | 771.5  | 768.5  |
| 47.5° | 935.0  | 928.5  | 921.5  | 908.5  | 895.0  | 883.5  | 844.5  | 824.0  | 830.5  | 830.0  | 815.5  |
| 50°   | 1045.5 | 1044.5 | 1034.0 | 1025.5 | 1013.5 | 997.0  | 927.5  | 890.0  | 895.0  | 890.5  | 864.0  |
| 52.5° | 1151.0 | 1148.0 | 1147.5 | 1141.0 | 1136.5 | 1131.0 | 1046.5 | 982.0  | 970.5  | 961.0  | 927.0  |
| 55°   | 1262.0 | 1269.5 | 1264.5 | 1275.0 | 1283.0 | 1282.0 | 1247.0 | 1152.5 | 1094.0 | 1086.5 | 1034.5 |
| 57.5° | 1447.0 | 1465.0 | 1489.0 | 1490.0 | 1511.5 | 1542.5 | 1605.5 | 1537.5 | 1391.0 | 1362.0 | 1292.5 |
| 60°   | 1659.0 | 1705.5 | 1765.5 | 1795.0 | 1841.0 | 1889.0 | 2047.0 | 2057.5 | 1852.5 | 1740.5 | 1613.0 |
| 62.5° | 1872.0 | 1933.0 | 2004.0 | 2050.0 | 2107.0 | 2144.5 | 2311.5 | 2351.5 | 2164.5 | 1958.0 | 1748.0 |
| 63°   | 1917.0 | 1979.5 | 2041.0 | 2086.0 | 2134.0 | 2168.5 | 2318.5 | 2360.5 | 2181.5 | 1958.5 | 1739.5 |
| 65°   | 1940.5 | 1999.0 | 2047.0 | 2087.0 | 2119.0 | 2142.5 | 2261.0 | 2306.5 | 2159.0 | 1886.0 | 1644.0 |
| 67.5° | 1762.0 | 1856.0 | 1916.5 | 1965.0 | 1997.5 | 2030.0 | 2139.0 | 2167.5 | 2063.0 | 1745.0 | 1499.0 |
| 70°   | 1458.5 | 1567.0 | 1662.5 | 1738.0 | 1794.0 | 1843.5 | 1958.0 | 1938.5 | 1848.5 | 1516.5 | 1271.5 |
| 72.5° | 1073.0 | 1167.5 | 1260.5 | 1346.0 | 1419.0 | 1482.0 | 1557.5 | 1381.0 | 1244.0 | 1008.5 | 880.0  |
| 75°   | 721.5  | 742.0  | 784.5  | 827.0  | 853.5  | 871.5  | 825.0  | 657.5  | 534.0  | 479.0  | 419.0  |
| 77.5° | 426.0  | 412.0  | 413.5  | 403.0  | 396.0  | 394.5  | 331.0  | 184.0  | 97.0   | 99.0   | 104.0  |
| 80°   | 340.0  | 324.5  | 308.0  | 289.5  | 277.5  | 264.5  | 215.5  | 118.0  | 42.0   | 34.0   | 35.5   |
| 82.5° | 275.0  | 271.0  | 262.0  | 243.0  | 224.0  | 201.5  | 154.0  | 113.5  | 24.0   | 19.0   | 20.5   |
| 85°   | 53.5   | 60.0   | 54.0   | 59.0   | 44.0   | 41.5   | 24.5   | 26.5   | 9.5    | 8.5    | 10.5   |
| 87.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.0    |
| 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):**

|       | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 | 290.0 |
| 2.5°  | 288.0 | 286.0 | 284.5 | 282.5 | 281.5 | 280.0 | 279.5 | 278.0 | 278.5 |
| 5°    | 289.0 | 285.5 | 282.5 | 279.5 | 277.5 | 276.5 | 275.5 | 274.5 | 274.5 |
| 7.5°  | 294.0 | 289.5 | 286.0 | 282.5 | 281.0 | 279.0 | 278.5 | 277.0 | 277.0 |
| 10°   | 304.5 | 299.5 | 295.0 | 291.0 | 289.0 | 286.5 | 285.5 | 284.0 | 284.0 |
| 12.5° | 320.0 | 315.5 | 310.5 | 304.5 | 300.5 | 297.5 | 295.0 | 294.0 | 294.0 |
| 15°   | 337.5 | 334.0 | 330.0 | 322.0 | 315.5 | 310.0 | 305.0 | 303.0 | 302.5 |
| 17.5° | 358.5 | 355.5 | 351.5 | 342.5 | 332.0 | 320.5 | 312.0 | 308.0 | 307.5 |
| 20°   | 384.0 | 381.0 | 375.0 | 362.5 | 346.0 | 328.0 | 314.5 | 308.5 | 308.0 |
| 22.5° | 410.0 | 410.0 | 400.0 | 379.5 | 355.0 | 331.0 | 313.0 | 305.0 | 303.5 |
| 25°   | 438.5 | 440.0 | 425.0 | 393.0 | 360.0 | 329.5 | 306.5 | 296.5 | 294.5 |
| 27.5° | 473.0 | 471.5 | 446.5 | 403.5 | 360.5 | 323.5 | 296.0 | 284.0 | 282.0 |
| 30°   | 511.0 | 501.0 | 464.0 | 409.5 | 357.0 | 312.5 | 282.0 | 268.5 | 267.0 |
| 32.5° | 549.0 | 527.5 | 477.0 | 410.5 | 347.0 | 296.5 | 263.5 | 249.5 | 247.5 |
| 35°   | 589.5 | 551.0 | 485.0 | 405.0 | 330.5 | 275.0 | 240.5 | 227.0 | 225.0 |
| 37.5° | 623.5 | 569.0 | 487.5 | 390.5 | 305.5 | 250.0 | 219.5 | 205.5 | 202.0 |
| 40°   | 654.5 | 582.0 | 483.0 | 367.0 | 277.5 | 225.5 | 197.5 | 185.5 | 184.5 |
| 42.5° | 683.0 | 588.0 | 467.0 | 336.5 | 249.5 | 204.5 | 179.0 | 167.5 | 166.5 |
| 45°   | 705.0 | 584.0 | 440.0 | 303.0 | 226.5 | 186.5 | 162.5 | 152.0 | 150.0 |
| 47.5° | 719.0 | 569.5 | 403.0 | 275.0 | 207.5 | 168.0 | 144.5 | 133.5 | 131.5 |
| 50°   | 730.0 | 548.0 | 365.5 | 253.5 | 189.0 | 149.0 | 126.0 | 116.0 | 114.5 |
| 52.5° | 744.5 | 520.5 | 333.0 | 234.0 | 167.5 | 127.5 | 107.0 | 97.5  | 96.0  |
| 55°   | 776.5 | 497.0 | 310.0 | 212.5 | 144.5 | 105.0 | 88.0  | 82.0  | 80.0  |
| 57.5° | 885.0 | 505.0 | 295.5 | 186.5 | 118.0 | 84.5  | 73.0  | 69.5  | 69.0  |
| 60°   | 999.0 | 539.0 | 288.5 | 156.5 | 91.5  | 68.5  | 62.0  | 61.0  | 60.5  |
| 62.5° | 993.0 | 508.5 | 259.5 | 123.0 | 70.5  | 56.5  | 53.5  | 54.0  | 54.0  |
| 63°   | 973.0 | 490.0 | 250.0 | 115.5 | 67.0  | 55.0  | 52.0  | 52.0  | 52.0  |
| 65°   | 852.0 | 415.5 | 203.0 | 87.5  | 56.0  | 49.0  | 46.5  | 47.0  | 47.5  |
| 67.5° | 703.5 | 300.0 | 133.5 | 61.0  | 50.5  | 44.5  | 41.5  | 40.5  | 40.5  |
| 70°   | 538.0 | 202.0 | 79.0  | 53.0  | 50.0  | 41.5  | 36.5  | 35.5  | 35.5  |
| 72.5° | 353.0 | 123.5 | 53.5  | 53.0  | 49.5  | 39.5  | 34.0  | 32.0  | 32.0  |
| 75°   | 162.0 | 61.0  | 44.5  | 51.0  | 47.0  | 36.5  | 30.0  | 27.5  | 27.0  |
| 77.5° | 63.0  | 38.5  | 40.0  | 43.0  | 36.5  | 30.0  | 27.0  | 25.0  | 24.5  |
| 80°   | 36.5  | 31.0  | 35.0  | 31.0  | 26.5  | 23.0  | 23.0  | 21.5  | 21.0  |
| 82.5° | 26.5  | 26.5  | 27.0  | 22.5  | 20.0  | 19.0  | 19.0  | 17.5  | 17.0  |
| 85°   | 19.0  | 19.5  | 22.5  | 18.0  | 15.5  | 13.5  | 12.5  | 12.5  | 12.0  |
| 87.5° | 9.5   | 15.5  | 12.5  | 7.5   | 7.0   | 6.5   | 6.5   | 6.5   | 6.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)