

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: P139567

Luminaire Tested: **ENV-F01-LED-E1-BL3-7060**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P139567  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33645)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-F01-LED-E1-BL3-7060  
Description: ENTRI LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (7) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2289.1 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9  
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



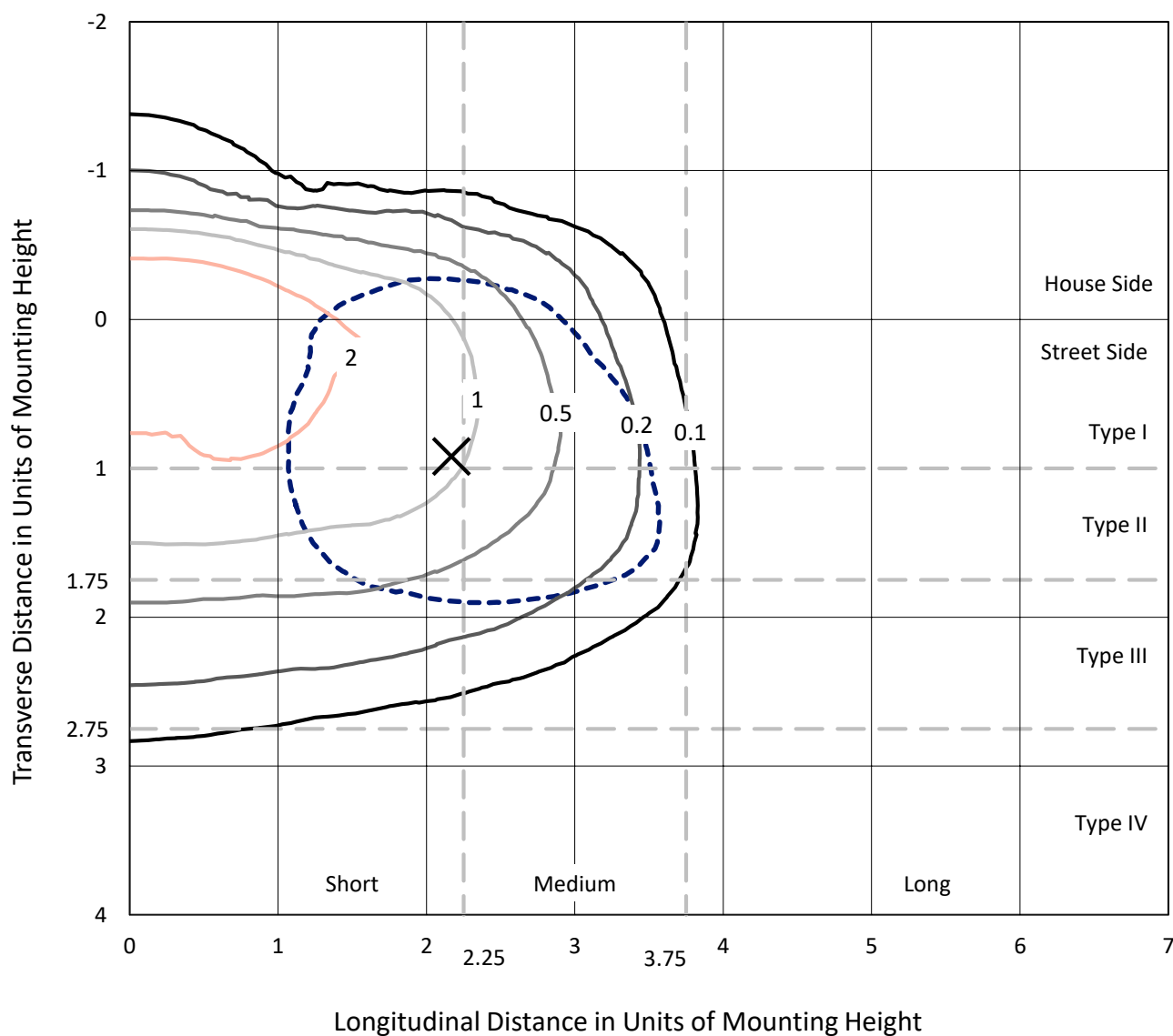
REPORT NUMBER: P139567

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

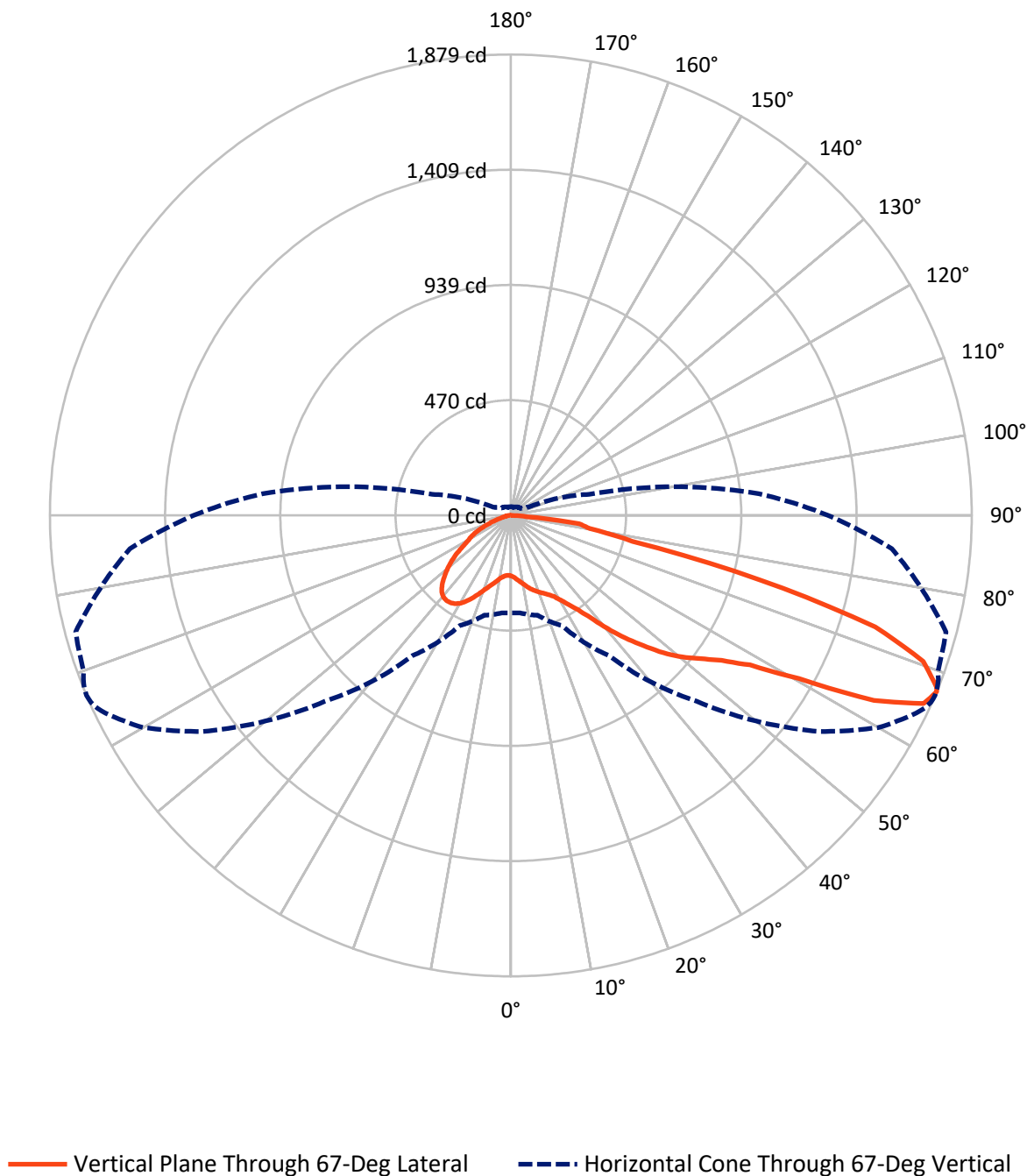


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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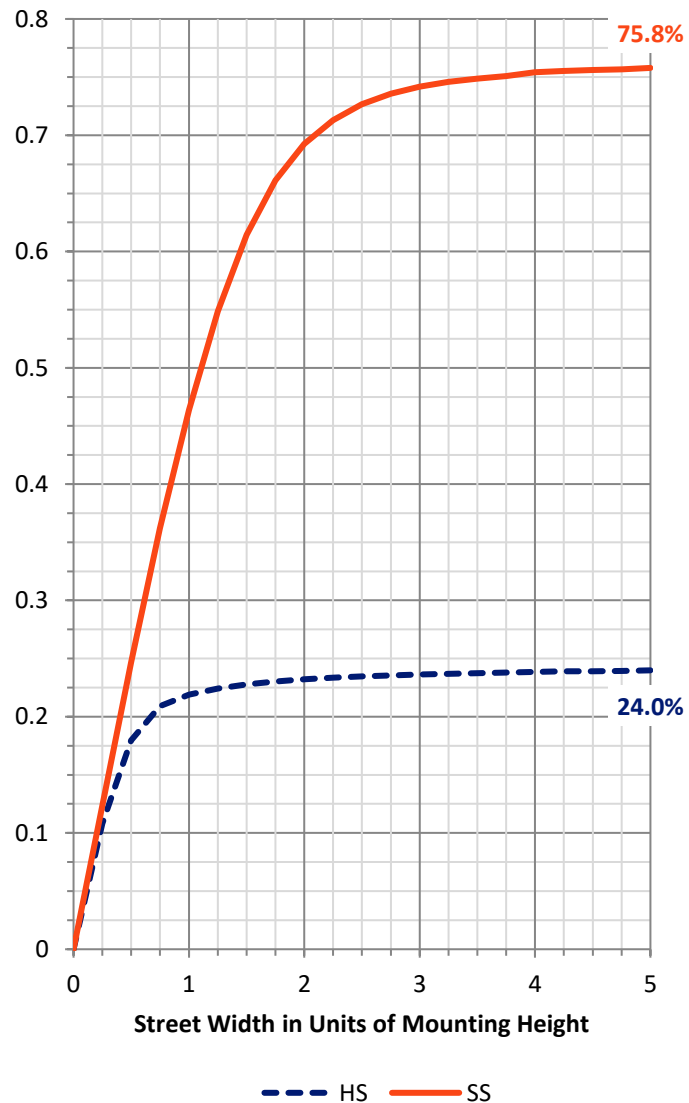
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 555.8    | 0.0    | 555.8  |
|                    | % Fixture | 24.3     | 0.0    | 24.3   |
| <b>Street Side</b> | Lumens    | 1733.3   | 0.0    | 1733.3 |
|                    | % Fixture | 75.7     | 0.0    | 75.7   |
| <b>Total</b>       | Lumens    | 2289.1   | 0.0    | 2289.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.8   | 1.1       |
| 10°-20°   | 85.9   | 3.8       |
| 20°-30°   | 155.8  | 6.8       |
| 30°-40°   | 227.7  | 9.9       |
| 40°-50°   | 345.0  | 15.1      |
| 50°-60°   | 494.8  | 21.6      |
| 60°-70°   | 632.3  | 27.6      |
| 70°-80°   | 295.2  | 12.9      |
| 80°-90°   | 27.6   | 1.2       |
| 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°    | 2289.1 | 100.0     |
| 0°-180°   | 2289.1 | 100.0     |

**Coefficient of Utilization**



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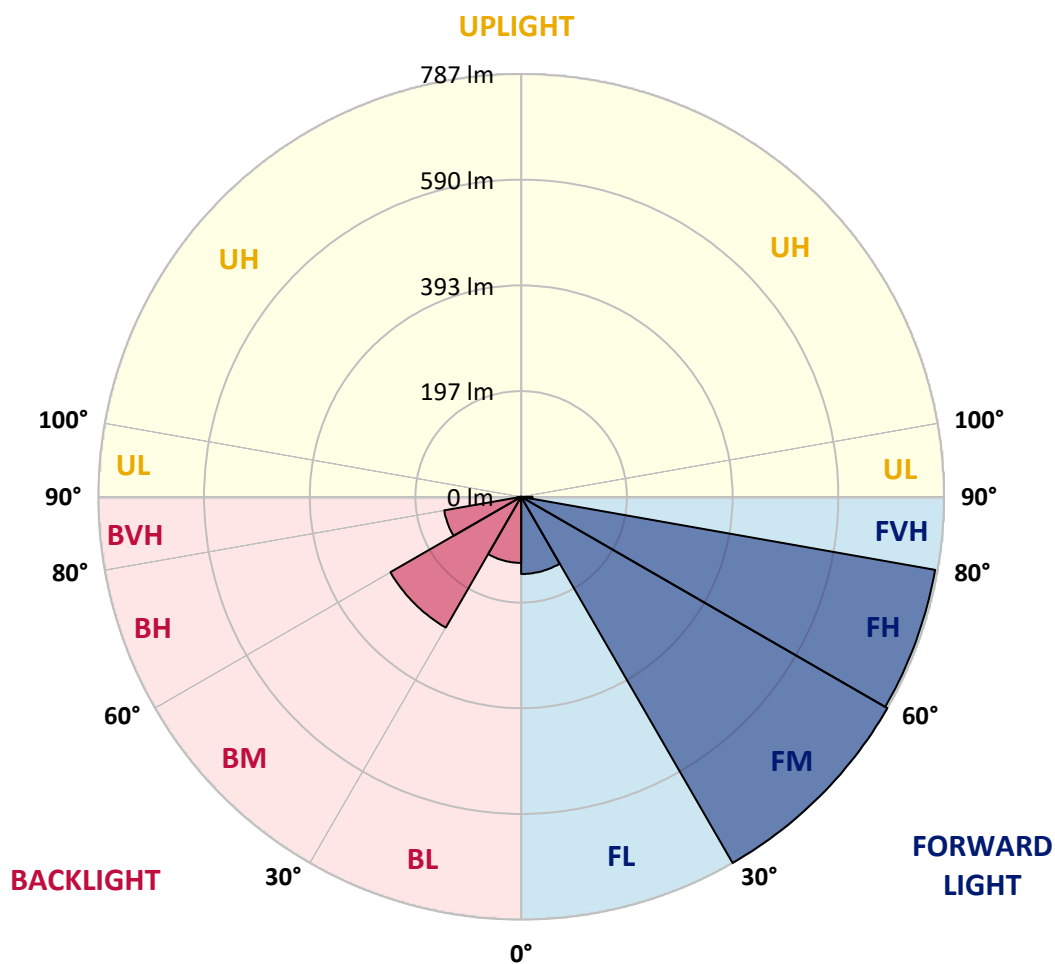
CATALOG NUMBER: ENV-F01-LED-E1-BL3-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 143.6  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 786.7  | 34.4      |                         |      |         |
| FH   | (60°-80°)   | 782.0  | 34.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 21.0   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 123.0  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 280.8  | 12.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 145.4  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 6.7    | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 246.5 | 246.5 | 246.5 | 246.5 | 246.5 | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  |
| 2.5°  | 256.2 | 256.2 | 256.7 | 256.7 | 256.2 | 256.2  | 253.7  | 253.7  | 253.7  | 253.3  | 253.3  |
| 5°    | 270.2 | 270.6 | 270.6 | 270.2 | 269.4 | 267.7  | 264.3  | 264.3  | 264.3  | 263.9  | 263.0  |
| 7.5°  | 286.3 | 285.9 | 286.3 | 285.0 | 283.3 | 281.2  | 276.6  | 276.1  | 275.3  | 275.3  | 274.5  |
| 10°   | 304.1 | 302.8 | 304.1 | 302.4 | 299.0 | 295.2  | 289.7  | 288.0  | 288.0  | 288.0  | 286.3  |
| 12.5° | 322.3 | 321.9 | 322.7 | 319.8 | 313.8 | 309.6  | 304.1  | 302.0  | 301.6  | 301.6  | 300.7  |
| 15°   | 342.2 | 341.8 | 339.3 | 334.6 | 327.0 | 323.2  | 316.8  | 314.3  | 313.8  | 313.8  | 312.6  |
| 17.5° | 363.0 | 363.0 | 356.6 | 346.9 | 336.3 | 330.8  | 326.1  | 324.4  | 324.0  | 324.0  | 323.6  |
| 20°   | 380.8 | 380.8 | 372.3 | 356.2 | 340.9 | 335.0  | 333.3  | 333.3  | 333.3  | 333.3  | 333.7  |
| 22.5° | 393.9 | 392.6 | 381.2 | 361.3 | 342.6 | 337.6  | 341.8  | 342.2  | 342.2  | 343.1  | 343.5  |
| 25°   | 399.8 | 399.4 | 385.8 | 362.1 | 342.2 | 341.4  | 350.7  | 352.0  | 352.8  | 353.7  | 354.9  |
| 27.5° | 400.2 | 400.2 | 386.7 | 361.7 | 341.8 | 348.1  | 361.7  | 365.5  | 366.4  | 368.1  | 370.2  |
| 30°   | 396.0 | 396.4 | 385.0 | 361.3 | 344.8 | 360.9  | 379.1  | 386.3  | 388.0  | 390.5  | 393.9  |
| 32.5° | 390.9 | 391.8 | 385.0 | 365.5 | 357.9 | 382.9  | 407.0  | 417.2  | 418.9  | 422.3  | 425.7  |
| 35°   | 391.8 | 393.0 | 394.3 | 382.5 | 387.1 | 420.6  | 455.3  | 461.2  | 460.8  | 466.3  | 468.0  |
| 37.5° | 397.3 | 400.2 | 409.6 | 411.7 | 429.5 | 476.1  | 512.5  | 525.2  | 525.2  | 530.3  | 528.6  |
| 40°   | 398.1 | 402.8 | 426.1 | 450.6 | 485.8 | 543.0  | 593.0  | 607.8  | 607.8  | 609.9  | 609.0  |
| 42.5° | 418.0 | 422.3 | 455.7 | 499.4 | 549.3 | 616.7  | 671.7  | 684.9  | 687.8  | 685.7  | 687.4  |
| 45°   | 454.0 | 457.0 | 498.1 | 553.1 | 610.7 | 687.4  | 748.8  | 761.5  | 764.5  | 762.4  | 759.8  |
| 47.5° | 499.8 | 504.0 | 547.6 | 612.9 | 672.2 | 752.6  | 827.6  | 842.4  | 845.4  | 842.0  | 843.3  |
| 50°   | 537.9 | 545.9 | 592.5 | 669.6 | 731.4 | 808.5  | 888.6  | 908.9  | 911.5  | 911.5  | 912.3  |
| 52.5° | 572.6 | 579.8 | 624.7 | 710.7 | 779.3 | 858.9  | 933.9  | 960.2  | 963.1  | 965.2  | 966.9  |
| 55°   | 587.0 | 594.2 | 639.1 | 728.5 | 808.5 | 905.9  | 986.4  | 1021.6 | 1023.3 | 1028.8 | 1036.0 |
| 57.5° | 587.4 | 593.4 | 637.4 | 728.1 | 823.8 | 948.3  | 1058.0 | 1112.6 | 1119.4 | 1126.6 | 1138.9 |
| 60°   | 547.6 | 554.8 | 598.9 | 706.9 | 836.5 | 995.7  | 1166.4 | 1266.8 | 1276.5 | 1297.3 | 1324.4 |
| 62.5° | 487.5 | 492.6 | 530.7 | 637.0 | 836.5 | 1061.4 | 1340.9 | 1506.9 | 1539.6 | 1573.4 | 1623.4 |
| 65°   | 431.6 | 435.4 | 459.5 | 551.4 | 777.2 | 1114.8 | 1523.5 | 1714.5 | 1749.6 | 1775.0 | 1817.4 |
| 67°   | 396.9 | 398.5 | 421.4 | 496.4 | 697.6 | 1072.0 | 1535.7 | 1728.9 | 1759.0 | 1785.2 | 1838.6 |
| 67.5° | 385.0 | 386.3 | 407.9 | 482.4 | 673.0 | 1046.1 | 1517.1 | 1717.0 | 1749.6 | 1776.3 | 1830.5 |
| 70°   | 296.1 | 292.2 | 310.9 | 379.5 | 543.8 | 834.8  | 1332.0 | 1562.4 | 1599.7 | 1635.3 | 1700.9 |
| 72.5° | 176.6 | 171.1 | 183.0 | 220.2 | 352.4 | 586.6  | 1010.1 | 1282.0 | 1329.5 | 1374.0 | 1459.9 |
| 75°   | 106.3 | 106.7 | 115.6 | 141.5 | 192.3 | 368.9  | 652.7  | 834.4  | 878.8  | 920.8  | 988.5  |
| 77.5° | 52.9  | 52.5  | 60.6  | 82.2  | 140.2 | 229.1  | 379.1  | 481.1  | 496.0  | 515.9  | 507.8  |
| 80°   | 16.9  | 16.5  | 17.8  | 22.4  | 50.4  | 153.7  | 238.5  | 302.0  | 308.8  | 312.6  | 317.2  |
| 82.5° | 2.5   | 3.0   | 3.4   | 5.5   | 9.3   | 36.8   | 148.2  | 210.1  | 219.4  | 230.4  | 251.6  |
| 85°   | 0.0   | 0.0   | 0.4   | 0.4   | 1.3   | 3.0    | 14.0   | 36.0   | 37.7   | 45.7   | 53.8   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.4   | 0.8   | 1.3    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 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°    | 85°    | 90°    | 95°    | 105°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5  | 246.5 |
| 2.5°  | 252.9  | 252.9  | 252.4  | 252.0  | 252.0  | 252.0  | 251.2  | 250.7  | 248.2  | 247.3  | 245.7 |
| 5°    | 263.0  | 263.0  | 262.2  | 261.7  | 261.3  | 261.3  | 260.1  | 257.5  | 254.1  | 252.0  | 248.6 |
| 7.5°  | 274.0  | 273.6  | 272.8  | 272.8  | 271.1  | 271.1  | 269.4  | 264.7  | 261.3  | 258.4  | 254.1 |
| 10°   | 286.7  | 286.3  | 285.0  | 284.6  | 283.8  | 282.9  | 281.2  | 275.7  | 272.3  | 268.5  | 263.4 |
| 12.5° | 300.7  | 299.9  | 299.0  | 298.6  | 297.7  | 296.9  | 295.2  | 290.1  | 286.7  | 282.9  | 277.0 |
| 15°   | 313.0  | 312.6  | 311.7  | 311.3  | 311.3  | 310.5  | 309.2  | 304.5  | 301.1  | 296.9  | 292.2 |
| 17.5° | 324.0  | 323.6  | 323.2  | 323.2  | 322.7  | 322.7  | 322.3  | 318.1  | 316.0  | 312.6  | 307.9 |
| 20°   | 333.3  | 333.7  | 333.7  | 333.7  | 334.2  | 334.6  | 335.4  | 333.3  | 331.2  | 328.2  | 325.7 |
| 22.5° | 343.5  | 343.9  | 345.2  | 345.2  | 346.0  | 346.5  | 349.4  | 349.0  | 348.1  | 346.0  | 343.9 |
| 25°   | 355.8  | 356.6  | 357.5  | 358.7  | 359.2  | 360.4  | 365.5  | 367.6  | 365.9  | 364.7  | 366.8 |
| 27.5° | 371.9  | 373.6  | 374.4  | 376.1  | 376.9  | 378.6  | 386.3  | 390.9  | 389.7  | 390.1  | 394.7 |
| 30°   | 396.0  | 397.7  | 400.2  | 401.1  | 404.1  | 404.9  | 413.8  | 421.0  | 421.0  | 420.1  | 428.6 |
| 32.5° | 428.2  | 429.5  | 432.4  | 434.5  | 436.2  | 437.9  | 446.4  | 454.0  | 454.9  | 457.4  | 460.8 |
| 35°   | 470.6  | 471.4  | 473.1  | 476.5  | 476.1  | 476.9  | 481.6  | 489.2  | 493.4  | 499.4  | 489.2 |
| 37.5° | 526.5  | 529.4  | 528.6  | 529.0  | 525.6  | 527.7  | 529.4  | 537.5  | 546.4  | 552.3  | 512.9 |
| 40°   | 606.1  | 608.2  | 606.1  | 603.1  | 600.6  | 599.3  | 596.8  | 605.7  | 613.3  | 609.0  | 531.5 |
| 42.5° | 683.6  | 684.4  | 682.7  | 677.7  | 675.5  | 671.3  | 664.5  | 675.5  | 679.8  | 659.9  | 541.3 |
| 45°   | 760.3  | 759.0  | 756.0  | 755.2  | 750.9  | 746.7  | 742.9  | 750.1  | 748.4  | 709.4  | 545.5 |
| 47.5° | 840.7  | 839.5  | 837.3  | 833.9  | 829.3  | 828.4  | 825.1  | 824.2  | 811.9  | 751.8  | 543.4 |
| 50°   | 911.0  | 911.9  | 907.2  | 908.9  | 906.8  | 902.6  | 899.6  | 901.3  | 872.1  | 789.1  | 539.2 |
| 52.5° | 971.6  | 971.6  | 969.5  | 971.6  | 970.7  | 968.6  | 971.2  | 998.7  | 938.1  | 841.6  | 532.8 |
| 55°   | 1041.9 | 1044.4 | 1042.8 | 1044.9 | 1046.1 | 1050.8 | 1061.4 | 1125.8 | 1036.8 | 905.9  | 518.4 |
| 57.5° | 1144.8 | 1151.2 | 1149.5 | 1158.0 | 1165.6 | 1177.9 | 1216.4 | 1284.2 | 1159.2 | 976.7  | 490.0 |
| 60°   | 1329.5 | 1350.2 | 1349.4 | 1364.2 | 1379.5 | 1393.4 | 1460.8 | 1473.9 | 1297.7 | 1069.0 | 468.9 |
| 62.5° | 1637.0 | 1653.9 | 1661.1 | 1677.2 | 1687.0 | 1689.5 | 1743.7 | 1647.6 | 1421.4 | 1152.9 | 457.0 |
| 65°   | 1836.0 | 1842.8 | 1849.2 | 1847.0 | 1841.1 | 1831.4 | 1834.8 | 1631.5 | 1380.3 | 1099.1 | 392.2 |
| 67°   | 1859.8 | 1873.7 | 1878.8 | 1875.4 | 1866.5 | 1853.0 | 1836.5 | 1558.6 | 1293.1 | 1015.2 | 331.6 |
| 67.5° | 1853.0 | 1867.4 | 1872.0 | 1869.1 | 1861.4 | 1851.3 | 1831.8 | 1531.1 | 1263.4 | 988.1  | 316.0 |
| 70°   | 1744.1 | 1764.9 | 1783.9 | 1790.3 | 1790.7 | 1789.0 | 1769.5 | 1336.7 | 1075.4 | 829.7  | 239.7 |
| 72.5° | 1487.0 | 1513.7 | 1553.5 | 1540.8 | 1561.2 | 1548.0 | 1503.6 | 913.6  | 737.0  | 593.0  | 168.1 |
| 75°   | 1003.4 | 1015.2 | 1047.4 | 1010.6 | 1013.9 | 990.7  | 817.9  | 530.7  | 457.0  | 385.8  | 101.2 |
| 77.5° | 504.9  | 512.5  | 507.4  | 485.4  | 476.9  | 457.8  | 354.1  | 115.2  | 115.2  | 137.2  | 52.9  |
| 80°   | 320.2  | 323.2  | 326.5  | 331.6  | 338.0  | 338.8  | 245.7  | 33.9   | 30.5   | 31.8   | 28.8  |
| 82.5° | 262.6  | 270.6  | 281.2  | 283.3  | 285.9  | 288.0  | 169.4  | 18.6   | 15.2   | 16.9   | 20.3  |
| 85°   | 61.0   | 66.1   | 63.1   | 55.9   | 59.7   | 46.2   | 23.7   | 7.6    | 6.8    | 8.5    | 14.0  |
| 87.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 1.7    | 3.0    | 7.2   |
| 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):**

|       | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 246.5 | 246.5 | 246.5 | 246.5 | 246.5 | 246.5 | 246.5 | 246.5 |
| 2.5°  | 244.0 | 242.7 | 241.0 | 240.6 | 240.1 | 239.3 | 238.9 | 238.5 |
| 5°    | 245.2 | 242.7 | 240.1 | 238.5 | 237.6 | 236.8 | 235.9 | 235.9 |
| 7.5°  | 250.3 | 247.3 | 243.5 | 241.8 | 240.1 | 238.9 | 238.0 | 238.0 |
| 10°   | 258.8 | 255.4 | 250.7 | 248.6 | 246.5 | 245.2 | 244.4 | 243.5 |
| 12.5° | 271.5 | 267.3 | 261.7 | 258.4 | 256.2 | 255.8 | 255.0 | 254.5 |
| 15°   | 287.2 | 282.5 | 276.6 | 273.2 | 269.8 | 268.9 | 268.1 | 267.7 |
| 17.5° | 302.8 | 299.0 | 294.4 | 288.4 | 281.7 | 276.1 | 273.6 | 273.2 |
| 20°   | 320.6 | 318.9 | 311.7 | 298.6 | 283.8 | 272.3 | 267.7 | 267.7 |
| 22.5° | 343.1 | 338.4 | 321.0 | 297.7 | 275.7 | 259.6 | 253.3 | 253.3 |
| 25°   | 367.6 | 352.0 | 319.8 | 288.4 | 261.3 | 241.4 | 232.9 | 232.9 |
| 27.5° | 389.2 | 355.8 | 312.1 | 272.8 | 239.7 | 218.1 | 208.4 | 208.0 |
| 30°   | 406.2 | 353.7 | 298.6 | 250.7 | 214.3 | 189.7 | 178.7 | 178.7 |
| 32.5° | 415.5 | 346.5 | 280.0 | 224.9 | 183.4 | 155.4 | 141.9 | 142.3 |
| 35°   | 418.0 | 334.2 | 255.4 | 190.6 | 146.1 | 118.6 | 106.3 | 106.3 |
| 37.5° | 415.5 | 314.7 | 224.9 | 152.9 | 109.3 | 89.8  | 80.5  | 79.6  |
| 40°   | 407.0 | 285.5 | 184.2 | 111.8 | 81.3  | 69.9  | 66.1  | 65.2  |
| 42.5° | 390.1 | 250.3 | 138.5 | 80.0  | 65.2  | 60.6  | 59.7  | 59.3  |
| 45°   | 363.4 | 202.9 | 96.1  | 62.7  | 58.4  | 57.2  | 57.2  | 56.8  |
| 47.5° | 329.9 | 155.0 | 68.6  | 55.5  | 55.1  | 55.1  | 55.1  | 55.1  |
| 50°   | 292.7 | 109.7 | 55.9  | 52.5  | 52.1  | 52.9  | 53.4  | 53.4  |
| 52.5° | 254.1 | 76.7  | 51.2  | 50.4  | 49.6  | 50.8  | 51.2  | 51.2  |
| 55°   | 212.2 | 60.1  | 49.1  | 48.3  | 47.0  | 47.4  | 48.3  | 48.3  |
| 57.5° | 169.0 | 53.4  | 48.3  | 47.0  | 44.5  | 44.5  | 45.3  | 45.3  |
| 60°   | 134.3 | 51.2  | 47.9  | 44.9  | 41.5  | 41.5  | 42.4  | 42.8  |
| 62.5° | 112.2 | 50.8  | 47.9  | 42.8  | 40.2  | 39.0  | 39.8  | 39.8  |
| 65°   | 93.6  | 50.8  | 46.6  | 42.8  | 38.1  | 36.4  | 37.3  | 37.3  |
| 67°   | 78.4  | 50.0  | 45.7  | 42.8  | 37.3  | 35.2  | 35.2  | 35.2  |
| 67.5° | 74.1  | 49.6  | 46.2  | 42.8  | 36.8  | 34.7  | 34.3  | 34.3  |
| 70°   | 55.5  | 44.9  | 46.2  | 43.2  | 36.0  | 31.8  | 30.9  | 30.9  |
| 72.5° | 43.2  | 41.1  | 44.9  | 44.5  | 35.2  | 29.2  | 27.5  | 27.1  |
| 75°   | 35.2  | 37.3  | 45.3  | 43.2  | 33.0  | 26.7  | 24.1  | 23.7  |
| 77.5° | 30.1  | 31.8  | 38.1  | 34.7  | 27.5  | 23.7  | 21.2  | 20.8  |
| 80°   | 23.7  | 27.1  | 27.1  | 23.7  | 20.3  | 19.1  | 17.8  | 17.8  |
| 82.5° | 19.1  | 20.8  | 17.8  | 16.1  | 15.2  | 14.8  | 14.0  | 14.0  |
| 85°   | 15.7  | 16.9  | 13.1  | 11.9  | 11.4  | 11.0  | 10.2  | 10.2  |
| 87.5° | 12.3  | 10.6  | 6.8   | 6.4   | 6.4   | 5.9   | 5.9   | 6.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)