

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: P151060

Luminaire Tested: **VWM-E01-LED-E1-SL3**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P151060  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-E01-LED-E1-SL3  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3036.2 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

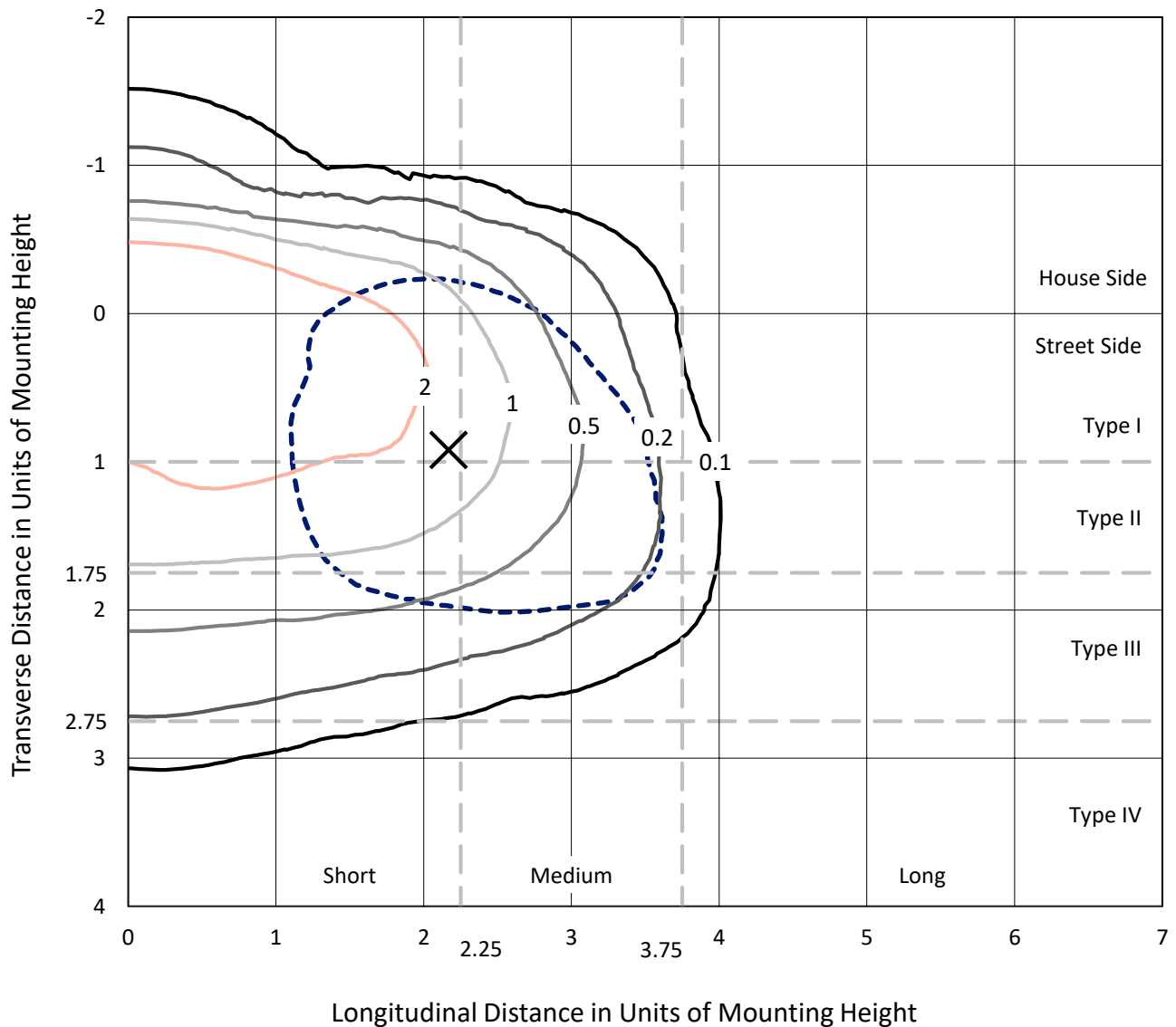
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

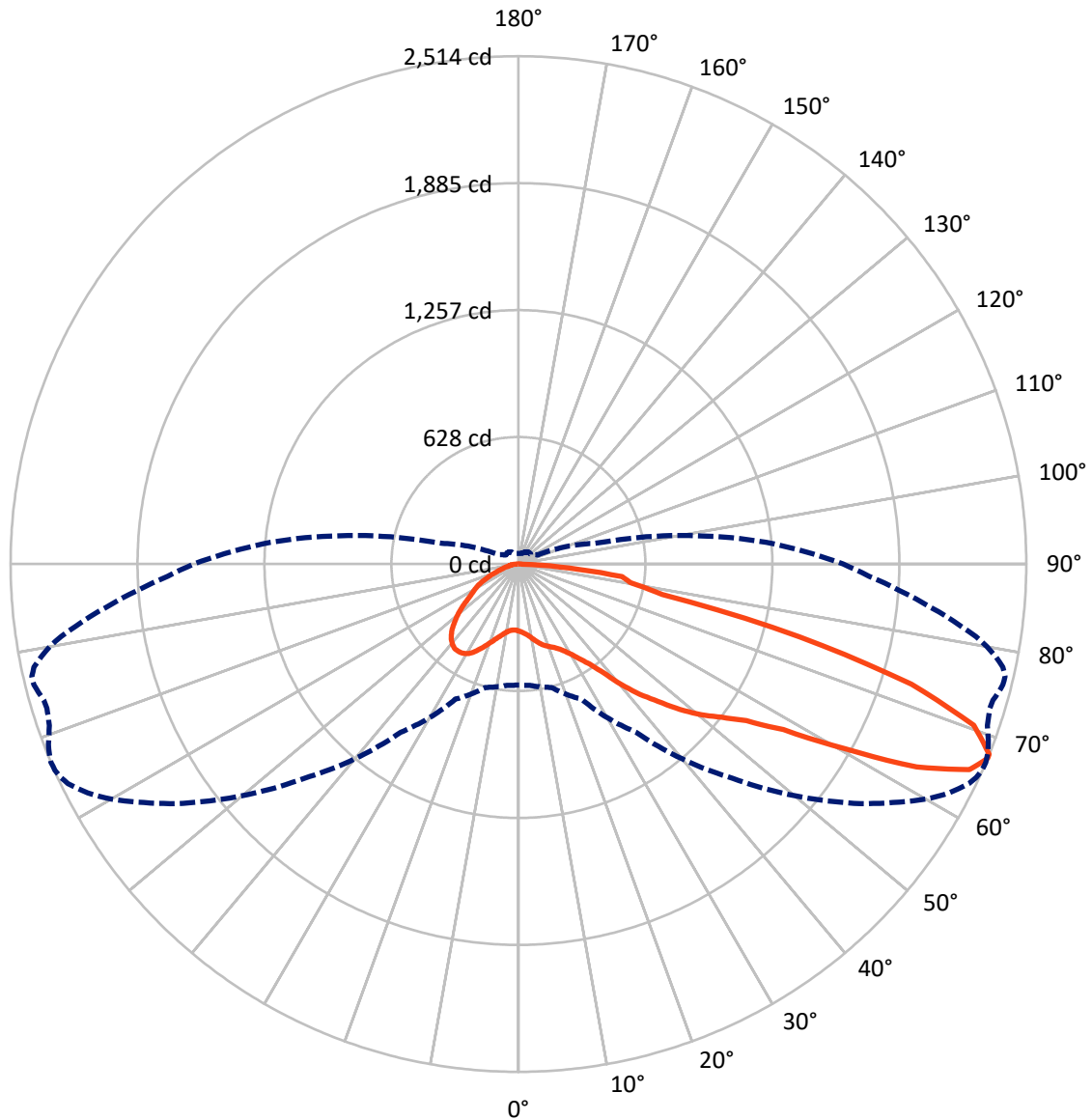
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 700.6    | 0.0    | 700.6  |
|                    | % Fixture | 23.1     | 0.0    | 23.1   |
| <b>Street Side</b> | Lumens    | 2335.5   | 0.0    | 2335.5 |
|                    | % Fixture | 76.9     | 0.0    | 76.9   |
| <b>Total</b>       | Lumens    | 3036.2   | 0.0    | 3036.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.0   | 1.1       |
| 10°-20°   | 113.2  | 3.7       |
| 20°-30°   | 199.9  | 6.6       |
| 30°-40°   | 287.0  | 9.5       |
| 40°-50°   | 435.8  | 14.4      |
| 50°-60°   | 641.7  | 21.1      |
| 60°-70°   | 852.8  | 28.1      |
| 70°-80°   | 417.2  | 13.7      |
| 80°-90°   | 55.4   | 1.8       |
| 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°    | 3036.2 | 100.0     |
| 0°-180°   | 3036.2 | 100.0     |



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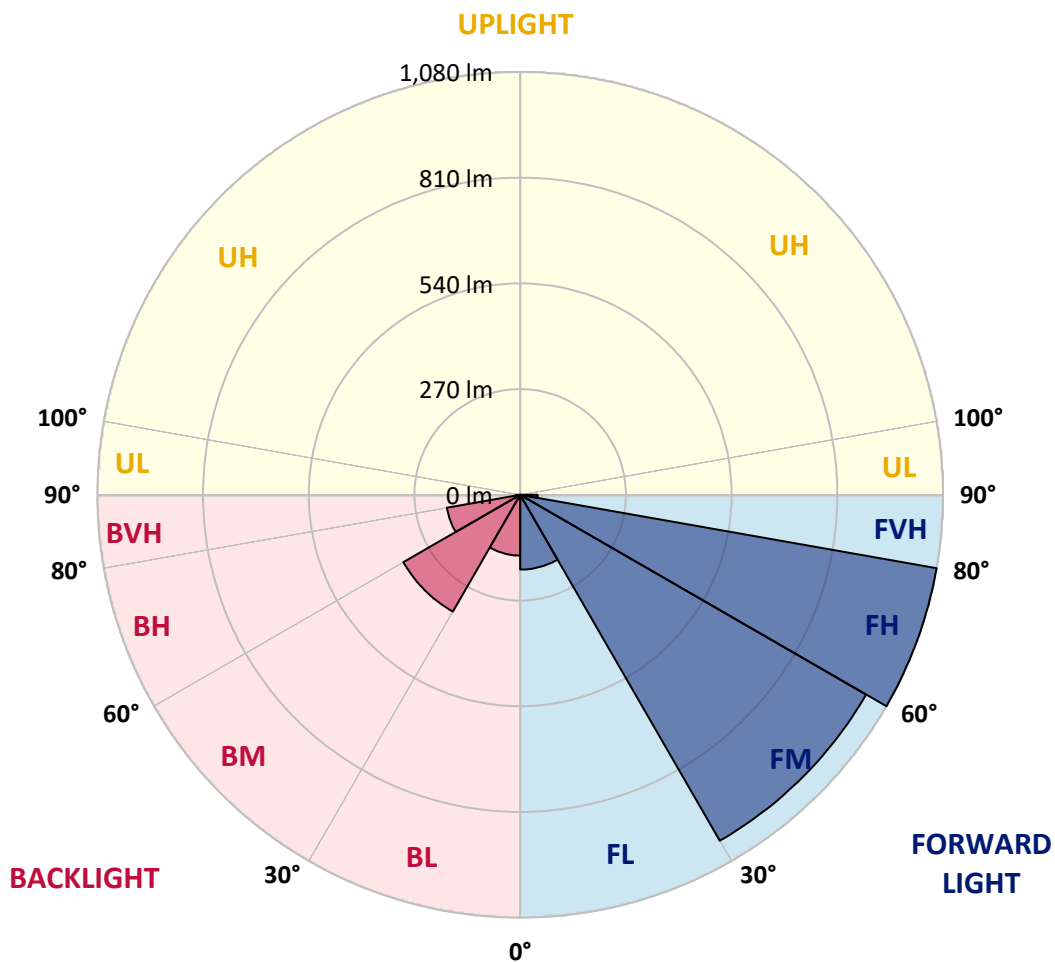
CATALOG NUMBER: VWM-E01-LED-E1-SL3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 191.0  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 1020.1 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 1079.9 | 35.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 44.5   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 155.2  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 344.5  | 11.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 190.1  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.9   | 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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 331.7 | 331.7 | 331.7 | 331.7 | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  |
| 2.5°  | 347.3 | 347.7 | 347.0 | 346.7 | 344.7  | 342.7  | 341.3  | 339.7  | 339.7  | 339.7  | 339.0  |
| 5°    | 367.0 | 365.7 | 366.7 | 364.3 | 360.3  | 356.7  | 353.0  | 350.0  | 349.3  | 349.3  | 348.0  |
| 7.5°  | 390.7 | 389.0 | 388.3 | 385.0 | 379.0  | 373.7  | 366.3  | 363.3  | 361.7  | 361.0  | 360.3  |
| 10°   | 419.3 | 419.3 | 415.0 | 409.3 | 401.3  | 392.0  | 384.0  | 378.7  | 378.3  | 378.3  | 375.3  |
| 12.5° | 448.7 | 449.3 | 443.7 | 438.0 | 425.0  | 412.7  | 403.3  | 397.3  | 397.0  | 395.7  | 394.0  |
| 15°   | 475.7 | 474.0 | 470.3 | 462.0 | 447.7  | 433.0  | 421.3  | 415.3  | 414.0  | 412.7  | 411.7  |
| 17.5° | 498.0 | 496.3 | 491.7 | 481.0 | 466.0  | 448.7  | 434.3  | 428.0  | 427.3  | 426.7  | 425.3  |
| 20°   | 512.0 | 510.7 | 504.0 | 491.7 | 476.0  | 458.3  | 443.0  | 438.7  | 437.3  | 437.3  | 436.7  |
| 22.5° | 520.0 | 518.0 | 508.3 | 492.0 | 476.7  | 463.7  | 451.0  | 448.3  | 447.3  | 447.7  | 447.7  |
| 25°   | 524.0 | 522.3 | 508.7 | 485.3 | 470.7  | 467.0  | 461.7  | 460.0  | 460.3  | 460.7  | 461.3  |
| 27.5° | 524.7 | 522.3 | 506.3 | 476.7 | 463.0  | 473.3  | 477.0  | 479.7  | 479.7  | 481.0  | 483.3  |
| 30°   | 519.7 | 517.0 | 501.7 | 470.0 | 459.7  | 486.0  | 500.7  | 507.7  | 510.3  | 509.7  | 515.0  |
| 32.5° | 511.0 | 509.3 | 497.0 | 470.0 | 469.0  | 511.0  | 537.0  | 547.0  | 548.3  | 549.0  | 555.0  |
| 35°   | 508.0 | 507.7 | 502.3 | 486.0 | 498.0  | 555.0  | 594.7  | 602.3  | 604.0  | 604.0  | 608.3  |
| 37.5° | 507.3 | 509.0 | 515.0 | 516.0 | 549.0  | 620.3  | 672.3  | 684.0  | 684.0  | 687.3  | 687.3  |
| 40°   | 507.3 | 511.0 | 533.7 | 560.7 | 611.3  | 705.3  | 777.3  | 790.7  | 790.7  | 794.3  | 792.3  |
| 42.5° | 527.0 | 532.3 | 569.7 | 621.0 | 690.0  | 793.0  | 875.7  | 890.7  | 891.7  | 890.7  | 893.7  |
| 45°   | 565.7 | 570.3 | 615.7 | 689.3 | 771.0  | 887.0  | 969.7  | 987.7  | 984.0  | 986.3  | 987.3  |
| 47.5° | 617.0 | 624.3 | 676.0 | 764.0 | 850.0  | 974.0  | 1075.0 | 1091.3 | 1090.0 | 1091.0 | 1086.7 |
| 50°   | 671.7 | 679.3 | 737.0 | 838.0 | 928.7  | 1044.0 | 1159.7 | 1184.0 | 1181.7 | 1183.3 | 1185.7 |
| 52.5° | 720.0 | 724.7 | 780.3 | 893.7 | 988.3  | 1109.3 | 1224.7 | 1255.0 | 1260.3 | 1261.0 | 1262.7 |
| 55°   | 748.7 | 754.3 | 805.3 | 921.3 | 1031.7 | 1173.3 | 1299.0 | 1345.0 | 1355.3 | 1358.0 | 1365.3 |
| 57.5° | 758.7 | 764.7 | 811.0 | 925.3 | 1055.3 | 1233.3 | 1402.7 | 1483.7 | 1492.3 | 1506.7 | 1530.0 |
| 60°   | 758.3 | 764.7 | 805.0 | 916.3 | 1079.3 | 1307.7 | 1564.0 | 1699.7 | 1743.7 | 1758.3 | 1791.7 |
| 62.5° | 727.3 | 734.7 | 775.7 | 889.0 | 1110.0 | 1402.7 | 1804.0 | 2012.7 | 2069.3 | 2096.0 | 2132.0 |
| 65°   | 659.3 | 664.7 | 703.0 | 819.7 | 1101.3 | 1496.3 | 2004.7 | 2265.0 | 2316.7 | 2355.7 | 2420.0 |
| 67°   | 599.0 | 602.3 | 632.3 | 737.7 | 1016.7 | 1499.7 | 2068.0 | 2327.7 | 2372.7 | 2414.0 | 2480.3 |
| 67.5° | 583.7 | 590.7 | 614.0 | 712.7 | 985.0  | 1480.7 | 2063.7 | 2318.0 | 2364.0 | 2407.0 | 2477.0 |
| 70°   | 475.0 | 485.0 | 496.7 | 563.0 | 774.3  | 1245.7 | 1910.7 | 2150.7 | 2191.0 | 2231.0 | 2328.7 |
| 72.5° | 293.0 | 311.0 | 313.3 | 355.3 | 504.0  | 861.0  | 1546.0 | 1813.7 | 1844.0 | 1872.7 | 1972.7 |
| 75°   | 172.7 | 175.3 | 183.7 | 217.7 | 295.7  | 514.7  | 1037.3 | 1347.3 | 1375.3 | 1389.3 | 1467.7 |
| 77.5° | 96.3  | 99.0  | 106.0 | 135.3 | 227.3  | 346.7  | 604.0  | 791.7  | 808.7  | 826.3  | 813.7  |
| 80°   | 40.0  | 43.7  | 47.0  | 54.7  | 106.3  | 273.7  | 415.3  | 503.3  | 514.3  | 524.7  | 537.7  |
| 82.5° | 19.3  | 20.7  | 25.3  | 29.0  | 38.7   | 112.3  | 325.7  | 436.3  | 449.3  | 464.3  | 494.7  |
| 85°   | 9.0   | 10.0  | 14.0  | 16.7  | 18.7   | 28.3   | 109.0  | 212.3  | 230.3  | 233.7  | 239.7  |
| 87.5° | 0.7   | 0.7   | 1.7   | 2.3   | 3.3    | 3.7    | 11.3   | 16.0   | 18.0   | 16.3   | 20.7   |
| 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°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  |
| 2.5°  | 338.7  | 338.3  | 337.7  | 337.7  | 337.3  | 337.3  | 337.3  | 336.7  | 336.7  | 336.7  | 336.3  |
| 5°    | 347.7  | 347.3  | 346.3  | 346.3  | 345.7  | 345.7  | 344.7  | 344.3  | 343.7  | 343.7  | 343.3  |
| 7.5°  | 359.3  | 359.0  | 357.7  | 357.7  | 356.7  | 356.3  | 355.7  | 354.7  | 354.7  | 354.0  | 353.3  |
| 10°   | 375.3  | 374.3  | 374.0  | 372.3  | 372.7  | 372.0  | 371.3  | 370.3  | 369.7  | 369.0  | 368.3  |
| 12.5° | 393.3  | 393.3  | 391.7  | 390.7  | 391.3  | 390.7  | 389.3  | 389.0  | 388.0  | 388.0  | 387.0  |
| 15°   | 410.3  | 410.3  | 409.7  | 408.3  | 408.7  | 407.7  | 407.3  | 406.7  | 405.3  | 405.7  | 405.3  |
| 17.5° | 425.0  | 425.0  | 424.0  | 423.3  | 423.3  | 422.3  | 422.7  | 422.0  | 421.3  | 421.0  | 420.0  |
| 20°   | 436.7  | 436.7  | 436.0  | 435.3  | 435.7  | 435.7  | 434.7  | 434.7  | 434.7  | 434.0  | 434.0  |
| 22.5° | 448.0  | 448.3  | 448.3  | 448.3  | 448.7  | 449.0  | 448.7  | 449.3  | 449.0  | 449.7  | 449.7  |
| 25°   | 463.0  | 464.0  | 464.7  | 464.7  | 466.3  | 466.7  | 467.0  | 468.0  | 468.0  | 469.0  | 469.3  |
| 27.5° | 485.3  | 486.0  | 488.7  | 489.3  | 489.7  | 492.3  | 492.7  | 494.0  | 495.3  | 495.7  | 496.0  |
| 30°   | 516.0  | 517.7  | 519.7  | 521.0  | 521.0  | 524.3  | 525.7  | 525.0  | 528.7  | 529.7  | 531.0  |
| 32.5° | 557.0  | 558.3  | 560.3  | 561.7  | 563.0  | 564.7  | 565.0  | 566.7  | 569.7  | 572.3  | 570.7  |
| 35°   | 608.7  | 612.0  | 608.7  | 612.3  | 613.3  | 615.7  | 615.0  | 617.0  | 618.3  | 619.3  | 619.0  |
| 37.5° | 683.7  | 682.0  | 681.3  | 680.0  | 677.7  | 685.7  | 681.7  | 681.3  | 679.3  | 685.0  | 681.3  |
| 40°   | 782.3  | 783.3  | 784.3  | 779.0  | 776.0  | 776.0  | 775.0  | 771.3  | 769.7  | 774.7  | 774.0  |
| 42.5° | 885.3  | 886.3  | 881.7  | 878.3  | 870.7  | 869.7  | 865.0  | 864.0  | 862.3  | 865.0  | 862.3  |
| 45°   | 979.0  | 979.7  | 969.3  | 971.0  | 965.0  | 966.0  | 958.7  | 961.7  | 957.7  | 960.3  | 965.3  |
| 47.5° | 1083.7 | 1085.0 | 1076.0 | 1079.7 | 1073.7 | 1070.0 | 1069.7 | 1071.7 | 1067.3 | 1070.0 | 1071.3 |
| 50°   | 1178.7 | 1177.0 | 1172.3 | 1173.3 | 1170.7 | 1171.3 | 1167.3 | 1171.0 | 1166.0 | 1171.3 | 1170.7 |
| 52.5° | 1263.0 | 1261.0 | 1260.0 | 1263.3 | 1261.0 | 1261.0 | 1258.7 | 1260.3 | 1261.0 | 1269.0 | 1270.7 |
| 55°   | 1365.3 | 1367.0 | 1368.7 | 1374.7 | 1377.3 | 1373.0 | 1377.3 | 1385.7 | 1386.0 | 1405.0 | 1415.3 |
| 57.5° | 1529.7 | 1541.3 | 1547.3 | 1551.0 | 1566.7 | 1565.0 | 1575.0 | 1595.0 | 1597.0 | 1641.0 | 1666.7 |
| 60°   | 1816.3 | 1837.0 | 1856.7 | 1846.0 | 1877.7 | 1887.3 | 1893.3 | 1930.7 | 1942.3 | 1984.0 | 2006.3 |
| 62.5° | 2178.3 | 2180.7 | 2211.3 | 2201.7 | 2219.7 | 2215.3 | 2222.7 | 2239.7 | 2255.0 | 2289.3 | 2310.3 |
| 65°   | 2431.0 | 2442.0 | 2454.0 | 2441.7 | 2441.3 | 2426.7 | 2417.3 | 2417.0 | 2426.3 | 2433.7 | 2457.0 |
| 67°   | 2499.7 | 2510.7 | 2513.7 | 2504.7 | 2491.7 | 2473.0 | 2455.7 | 2446.7 | 2440.7 | 2444.0 | 2458.7 |
| 67.5° | 2499.0 | 2509.3 | 2513.0 | 2504.3 | 2486.3 | 2470.7 | 2452.3 | 2442.0 | 2434.0 | 2435.7 | 2448.0 |
| 70°   | 2357.0 | 2379.3 | 2391.3 | 2394.0 | 2391.7 | 2364.3 | 2348.7 | 2339.3 | 2332.7 | 2316.3 | 2315.3 |
| 72.5° | 1997.0 | 2024.0 | 2033.3 | 2048.3 | 2055.0 | 2014.7 | 1997.7 | 2008.0 | 1984.7 | 1933.0 | 1935.3 |
| 75°   | 1466.3 | 1468.3 | 1437.0 | 1431.0 | 1408.7 | 1317.3 | 1290.0 | 1265.0 | 1225.0 | 1162.7 | 1104.0 |
| 77.5° | 764.3  | 764.0  | 728.0  | 709.7  | 683.0  | 628.0  | 625.3  | 580.7  | 549.3  | 492.3  | 471.7  |
| 80°   | 543.0  | 551.7  | 563.7  | 569.7  | 560.3  | 539.0  | 509.7  | 478.0  | 441.7  | 406.0  | 363.3  |
| 82.5° | 505.0  | 510.3  | 516.7  | 493.3  | 480.3  | 450.3  | 428.0  | 382.0  | 356.3  | 315.7  | 272.7  |
| 85°   | 245.7  | 262.0  | 249.3  | 234.7  | 229.7  | 179.7  | 173.7  | 145.0  | 131.7  | 108.3  | 101.0  |
| 87.5° | 15.7   | 19.3   | 17.3   | 15.7   | 13.7   | 7.7    | 10.3   | 7.3    | 7.7    | 5.7    | 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  |
| 2.5°  | 336.3  | 336.0  | 335.7  | 335.3  | 335.0  | 335.0  | 334.7  | 334.3  | 334.0  | 333.3  | 333.3  |
| 5°    | 342.7  | 342.7  | 342.3  | 341.7  | 341.7  | 341.0  | 340.0  | 339.7  | 339.7  | 339.0  | 338.3  |
| 7.5°  | 353.0  | 352.7  | 352.0  | 351.7  | 351.0  | 350.3  | 349.7  | 349.0  | 348.7  | 347.7  | 347.3  |
| 10°   | 368.7  | 368.0  | 366.3  | 365.7  | 365.3  | 364.7  | 364.0  | 363.3  | 362.3  | 361.7  | 361.3  |
| 12.5° | 386.3  | 386.0  | 384.7  | 385.3  | 383.7  | 383.0  | 382.3  | 380.7  | 381.3  | 380.0  | 379.3  |
| 15°   | 404.0  | 404.3  | 403.7  | 403.7  | 402.3  | 401.3  | 400.7  | 399.3  | 399.0  | 398.3  | 397.7  |
| 17.5° | 419.7  | 420.3  | 419.3  | 418.7  | 418.0  | 417.3  | 416.0  | 414.7  | 414.7  | 413.3  | 412.7  |
| 20°   | 434.0  | 434.7  | 434.3  | 433.7  | 432.7  | 432.3  | 431.7  | 430.7  | 430.7  | 430.0  | 429.0  |
| 22.5° | 450.3  | 450.7  | 450.7  | 450.3  | 449.3  | 449.7  | 449.0  | 448.0  | 448.3  | 447.0  | 447.0  |
| 25°   | 470.0  | 470.7  | 471.3  | 471.7  | 471.0  | 471.3  | 470.7  | 470.0  | 469.7  | 470.0  | 469.7  |
| 27.5° | 497.0  | 497.7  | 499.7  | 498.0  | 499.7  | 500.0  | 499.0  | 497.7  | 498.7  | 500.3  | 499.3  |
| 30°   | 532.7  | 532.0  | 534.7  | 535.0  | 534.7  | 535.0  | 534.3  | 533.3  | 534.0  | 537.0  | 535.3  |
| 32.5° | 572.7  | 574.0  | 574.7  | 575.3  | 576.3  | 577.7  | 576.7  | 575.7  | 577.3  | 576.3  | 578.7  |
| 35°   | 621.0  | 624.0  | 625.0  | 624.0  | 624.7  | 627.0  | 626.7  | 627.0  | 630.3  | 627.0  | 631.3  |
| 37.5° | 682.0  | 685.0  | 687.3  | 686.0  | 687.7  | 687.7  | 690.3  | 697.7  | 693.0  | 699.0  | 703.7  |
| 40°   | 770.7  | 775.3  | 775.7  | 775.3  | 777.0  | 779.0  | 781.7  | 789.7  | 784.3  | 790.7  | 795.0  |
| 42.5° | 862.0  | 867.7  | 869.7  | 866.3  | 870.0  | 874.3  | 874.7  | 881.7  | 882.0  | 883.0  | 885.3  |
| 45°   | 965.0  | 970.0  | 974.0  | 972.3  | 972.7  | 978.3  | 977.0  | 983.7  | 978.7  | 978.7  | 980.0  |
| 47.5° | 1074.7 | 1079.3 | 1082.0 | 1084.7 | 1081.3 | 1086.3 | 1088.7 | 1087.3 | 1081.3 | 1080.0 | 1072.0 |
| 50°   | 1174.7 | 1178.7 | 1182.7 | 1190.0 | 1189.7 | 1192.0 | 1193.7 | 1187.7 | 1186.3 | 1179.0 | 1170.0 |
| 52.5° | 1280.7 | 1291.0 | 1300.0 | 1315.3 | 1317.7 | 1325.7 | 1322.7 | 1312.7 | 1311.0 | 1299.0 | 1287.0 |
| 55°   | 1428.3 | 1458.0 | 1471.0 | 1494.7 | 1510.7 | 1510.3 | 1503.7 | 1502.0 | 1489.3 | 1465.3 | 1451.0 |
| 57.5° | 1685.3 | 1731.7 | 1754.0 | 1784.7 | 1789.7 | 1786.7 | 1778.0 | 1762.7 | 1740.7 | 1700.3 | 1674.3 |
| 60°   | 2056.3 | 2085.0 | 2111.0 | 2118.3 | 2122.0 | 2116.3 | 2086.0 | 2052.0 | 2009.0 | 1953.3 | 1907.0 |
| 62.5° | 2336.7 | 2366.0 | 2385.3 | 2382.3 | 2359.3 | 2330.3 | 2286.0 | 2229.0 | 2168.7 | 2106.3 | 2037.0 |
| 65°   | 2479.3 | 2491.7 | 2488.7 | 2465.3 | 2426.0 | 2375.3 | 2310.7 | 2240.3 | 2169.3 | 2095.7 | 2023.7 |
| 67°   | 2471.7 | 2472.0 | 2451.7 | 2406.3 | 2356.0 | 2292.3 | 2213.3 | 2136.7 | 2053.3 | 1976.0 | 1890.3 |
| 67.5° | 2458.0 | 2456.7 | 2428.3 | 2378.7 | 2324.3 | 2258.7 | 2176.7 | 2097.3 | 2011.0 | 1933.0 | 1844.3 |
| 70°   | 2303.3 | 2284.7 | 2220.7 | 2141.3 | 2065.7 | 1977.0 | 1891.0 | 1800.0 | 1702.7 | 1635.7 | 1533.7 |
| 72.5° | 1892.7 | 1829.7 | 1719.3 | 1636.3 | 1555.3 | 1439.3 | 1385.7 | 1272.7 | 1204.3 | 1161.7 | 1084.7 |
| 75°   | 1096.0 | 1043.3 | 958.0  | 880.3  | 841.0  | 772.3  | 739.7  | 656.7  | 639.3  | 638.7  | 612.0  |
| 77.5° | 418.3  | 365.0  | 310.0  | 249.7  | 212.3  | 168.7  | 148.7  | 133.0  | 121.0  | 129.3  | 117.3  |
| 80°   | 313.7  | 258.0  | 201.7  | 146.7  | 104.7  | 77.3   | 66.3   | 61.3   | 58.3   | 56.0   | 54.3   |
| 82.5° | 233.7  | 184.3  | 143.0  | 93.3   | 65.3   | 49.3   | 42.7   | 40.0   | 38.7   | 36.3   | 34.3   |
| 85°   | 79.0   | 63.3   | 50.0   | 34.7   | 27.3   | 22.3   | 20.7   | 20.0   | 19.0   | 17.3   | 16.3   |
| 87.5° | 4.3    | 4.0    | 4.3    | 3.3    | 4.0    | 3.3    | 3.7    | 3.7    | 3.7    | 3.3    | 3.3    |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 331.7  | 331.7  | 331.7  | 331.7  | 331.7  | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 |
| 2.5°  | 333.0  | 333.0  | 333.0  | 332.3  | 331.3  | 329.3 | 327.3 | 325.7 | 324.0 | 323.0 | 322.3 |
| 5°    | 338.0  | 337.3  | 337.0  | 336.7  | 334.3  | 330.3 | 326.7 | 323.3 | 320.0 | 317.3 | 316.3 |
| 7.5°  | 347.0  | 345.7  | 345.3  | 344.3  | 341.3  | 335.3 | 330.0 | 324.7 | 320.0 | 316.3 | 314.7 |
| 10°   | 360.7  | 360.7  | 358.7  | 357.3  | 354.0  | 346.0 | 338.3 | 331.3 | 325.0 | 321.0 | 320.0 |
| 12.5° | 378.0  | 378.0  | 376.3  | 375.3  | 371.3  | 361.0 | 351.7 | 343.3 | 337.3 | 333.3 | 333.0 |
| 15°   | 396.0  | 395.7  | 394.3  | 393.0  | 388.7  | 377.7 | 368.3 | 361.0 | 356.0 | 351.3 | 350.0 |
| 17.5° | 412.0  | 412.0  | 410.3  | 409.0  | 404.7  | 395.3 | 387.0 | 381.7 | 376.0 | 366.3 | 359.0 |
| 20°   | 428.0  | 428.3  | 427.0  | 425.7  | 422.0  | 414.0 | 410.3 | 405.0 | 392.3 | 371.3 | 354.0 |
| 22.5° | 445.7  | 447.0  | 445.3  | 444.0  | 441.0  | 437.7 | 436.3 | 423.7 | 397.0 | 363.3 | 338.0 |
| 25°   | 468.3  | 470.7  | 468.7  | 468.0  | 466.3  | 467.3 | 463.3 | 434.0 | 390.3 | 346.0 | 314.3 |
| 27.5° | 499.3  | 499.3  | 499.7  | 499.7  | 499.0  | 502.7 | 488.0 | 434.3 | 375.7 | 323.7 | 286.0 |
| 30°   | 535.7  | 537.7  | 537.0  | 537.0  | 539.7  | 542.0 | 501.7 | 427.0 | 357.0 | 296.0 | 251.3 |
| 32.5° | 579.3  | 581.0  | 581.7  | 578.7  | 589.3  | 577.3 | 506.7 | 413.7 | 334.0 | 261.7 | 210.0 |
| 35°   | 632.0  | 634.3  | 636.0  | 636.3  | 643.3  | 608.0 | 504.0 | 394.0 | 301.0 | 218.7 | 164.7 |
| 37.5° | 700.7  | 705.3  | 709.0  | 710.7  | 711.0  | 634.0 | 496.7 | 368.0 | 258.0 | 170.7 | 122.7 |
| 40°   | 792.0  | 797.0  | 796.0  | 799.3  | 780.3  | 649.3 | 480.0 | 330.3 | 204.7 | 125.3 | 94.7  |
| 42.5° | 880.0  | 880.7  | 882.0  | 879.0  | 840.3  | 657.3 | 456.7 | 284.3 | 153.3 | 93.7  | 81.0  |
| 45°   | 978.3  | 972.7  | 966.3  | 961.7  | 895.7  | 660.3 | 424.7 | 228.3 | 108.3 | 78.7  | 75.0  |
| 47.5° | 1070.7 | 1063.0 | 1050.0 | 1036.7 | 945.0  | 655.7 | 383.7 | 171.0 | 82.3  | 72.0  | 71.0  |
| 50°   | 1161.3 | 1147.0 | 1128.7 | 1113.3 | 992.3  | 648.7 | 338.3 | 123.3 | 72.0  | 68.7  | 67.7  |
| 52.5° | 1273.7 | 1249.7 | 1225.7 | 1205.7 | 1054.0 | 637.7 | 290.7 | 93.7  | 67.7  | 66.0  | 64.7  |
| 55°   | 1427.7 | 1394.3 | 1355.7 | 1327.7 | 1137.7 | 621.0 | 240.7 | 79.3  | 65.7  | 64.3  | 62.3  |
| 57.5° | 1641.0 | 1591.0 | 1547.3 | 1501.7 | 1252.0 | 604.0 | 197.7 | 73.7  | 65.3  | 63.3  | 60.7  |
| 60°   | 1859.0 | 1799.0 | 1743.3 | 1678.0 | 1368.7 | 587.0 | 167.7 | 73.0  | 66.3  | 63.3  | 59.3  |
| 62.5° | 1972.3 | 1910.3 | 1843.3 | 1777.0 | 1419.0 | 547.0 | 147.0 | 74.0  | 68.7  | 64.3  | 59.3  |
| 65°   | 1946.3 | 1870.7 | 1802.7 | 1735.0 | 1360.7 | 471.3 | 124.3 | 75.3  | 73.3  | 68.3  | 60.3  |
| 67°   | 1815.7 | 1736.7 | 1671.3 | 1606.7 | 1230.7 | 394.7 | 106.7 | 76.7  | 78.3  | 73.0  | 62.3  |
| 67.5° | 1769.7 | 1690.7 | 1626.3 | 1563.3 | 1192.3 | 378.7 | 102.3 | 77.3  | 79.3  | 74.3  | 63.0  |
| 70°   | 1467.3 | 1409.3 | 1341.0 | 1292.3 | 965.3  | 280.3 | 84.0  | 78.7  | 85.3  | 82.0  | 66.0  |
| 72.5° | 1056.0 | 1000.7 | 949.3  | 922.3  | 711.0  | 196.0 | 70.7  | 77.3  | 89.0  | 86.3  | 67.3  |
| 75°   | 561.3  | 558.0  | 539.3  | 552.7  | 440.0  | 128.0 | 62.3  | 72.3  | 85.0  | 79.0  | 62.7  |
| 77.5° | 113.3  | 116.7  | 137.0  | 135.0  | 142.0  | 71.3  | 53.3  | 62.0  | 65.7  | 58.0  | 51.0  |
| 80°   | 52.7   | 51.7   | 50.7   | 51.3   | 50.3   | 45.7  | 43.3  | 48.7  | 45.7  | 37.3  | 34.0  |
| 82.5° | 32.7   | 32.0   | 31.0   | 30.7   | 34.0   | 36.3  | 38.0  | 38.3  | 30.3  | 26.0  | 25.0  |
| 85°   | 15.7   | 15.7   | 15.3   | 16.0   | 20.0   | 29.7  | 32.0  | 28.3  | 20.3  | 18.7  | 17.7  |
| 87.5° | 3.0    | 3.0    | 3.3    | 3.0    | 4.0    | 7.0   | 8.0   | 9.3   | 7.7   | 8.0   | 9.0   |
| 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):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 331.7 | 331.7 | 331.7 |
| 2.5°  | 321.7 | 321.0 | 321.0 |
| 5°    | 315.0 | 314.7 | 314.7 |
| 7.5°  | 313.3 | 313.7 | 313.3 |
| 10°   | 319.7 | 319.3 | 320.7 |
| 12.5° | 333.7 | 334.7 | 334.3 |
| 15°   | 348.3 | 349.0 | 349.0 |
| 17.5° | 352.7 | 350.3 | 350.0 |
| 20°   | 341.3 | 337.0 | 336.0 |
| 22.5° | 320.0 | 312.0 | 312.3 |
| 25°   | 293.0 | 283.3 | 284.0 |
| 27.5° | 261.7 | 251.3 | 251.0 |
| 30°   | 224.0 | 212.7 | 207.0 |
| 32.5° | 178.7 | 165.0 | 165.0 |
| 35°   | 134.3 | 123.3 | 119.3 |
| 37.5° | 102.0 | 95.7  | 93.7  |
| 40°   | 85.0  | 82.0  | 81.3  |
| 42.5° | 77.3  | 76.3  | 76.0  |
| 45°   | 73.3  | 72.7  | 72.3  |
| 47.5° | 69.7  | 69.3  | 69.0  |
| 50°   | 67.0  | 66.7  | 66.3  |
| 52.5° | 64.7  | 64.0  | 63.7  |
| 55°   | 61.3  | 61.3  | 61.3  |
| 57.5° | 59.3  | 59.3  | 59.0  |
| 60°   | 57.3  | 57.0  | 57.0  |
| 62.5° | 55.7  | 55.0  | 55.3  |
| 65°   | 54.7  | 53.7  | 53.7  |
| 67°   | 54.0  | 52.0  | 52.0  |
| 67.5° | 54.0  | 51.3  | 51.3  |
| 70°   | 53.0  | 48.7  | 48.0  |
| 72.5° | 52.0  | 45.7  | 44.7  |
| 75°   | 49.3  | 43.3  | 42.3  |
| 77.5° | 42.3  | 38.7  | 38.0  |
| 80°   | 32.7  | 28.3  | 29.0  |
| 82.5° | 23.7  | 20.3  | 20.0  |
| 85°   | 17.0  | 14.7  | 14.7  |
| 87.5° | 9.0   | 7.7   | 8.0   |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)