

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1320343

Luminaire Tested: LDSQA3D17R709840DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709840DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

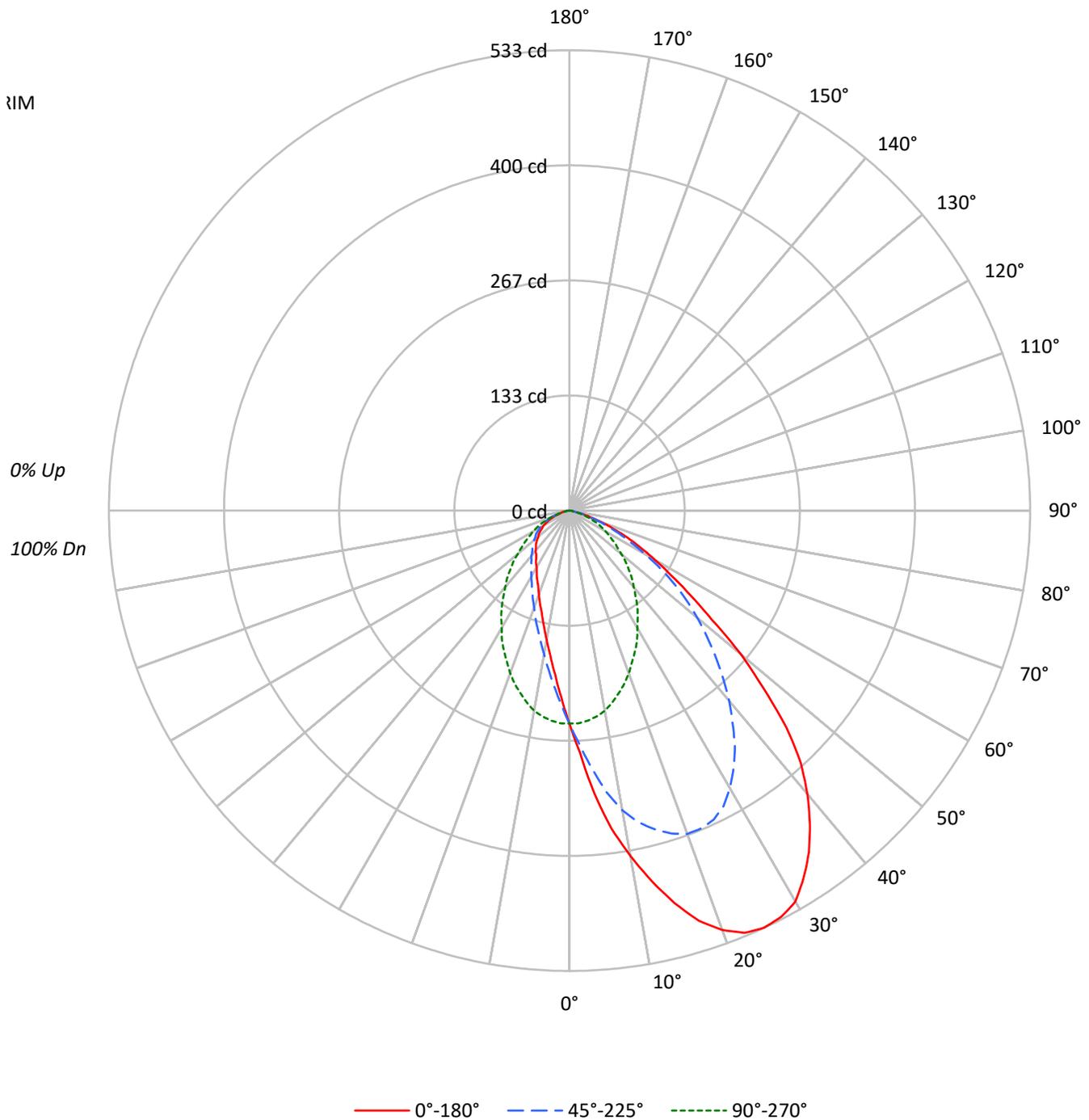
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 602.0 lumens  
Efficiency: N/A  
Efficacy: 29.5 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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: 24 FT

TEST NUMBER: P1320343  
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### Luminous Intensity Polar Plot





TEST NUMBER: P1320343

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     | 0  |    |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  | 88  |    |    |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |    |    |
| 5   | 80  | 69  | 61  | 55  | 78  | 68  | 60  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51  |    |    |
| 6   | 75  | 62  | 54  | 48  | 73  | 62  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |
| 7   | 69  | 57  | 49  | 43  | 68  | 56  | 48  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |
| 8   | 65  | 52  | 44  | 39  | 63  | 52  | 44  | 39  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 9   | 61  | 48  | 40  | 35  | 59  | 48  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  |    |    |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 41  | 36  | 32  | 30  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 42453  | 42453 | 42453 | 42453 | 42453 |
| 5°  | 56809  | 51864 | 42183 | 35302 | 32934 |
| 10° | 70966  | 61610 | 41149 | 29607 | 26564 |
| 15° | 83889  | 68145 | 39065 | 25300 | 21966 |
| 20° | 94680  | 72999 | 36728 | 21901 | 18932 |
| 25° | 101246 | 74985 | 34072 | 19402 | 16798 |
| 30° | 103967 | 73779 | 31182 | 17580 | 15094 |
| 35° | 101548 | 70138 | 28783 | 16231 | 14128 |
| 40° | 96268  | 64658 | 26034 | 15400 | 13714 |
| 45° | 86415  | 58211 | 23650 | 14857 | 13347 |
| 50° | 69367  | 51684 | 21006 | 14334 | 12673 |
| 55° | 51195  | 44469 | 18676 | 14202 | 12341 |
| 60° | 39439  | 34720 | 16706 | 13709 | 12021 |
| 65° | 29911  | 25877 | 14711 | 12674 | 10636 |
| 70° | 20041  | 18178 | 11279 | 11279 | 8762  |
| 75° | 10780  | 10780 | 7453  | 7453  | 6654  |
| 80° | 2479   | 4959  | 3670  | 4959  | 6149  |
| 85° | 0      | 2371  | 2371  | 4940  | 4940  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 86415 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.3   | 4.0       |
| 10°-20°   | 73.9   | 12.3      |
| 20°-30°   | 113.9  | 18.9      |
| 30°-40°   | 129.2  | 21.5      |
| 40°-50°   | 116.9  | 19.4      |
| 50°-60°   | 81.8   | 13.6      |
| 60°-70°   | 44.9   | 7.5       |
| 70°-80°   | 15.0   | 2.5       |
| 80°-90°   | 2.0    | 0.3       |
| 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°-30°    | 212.1  | 35.2      |
| 0°-40°    | 341.3  | 56.7      |
| 0°-60°    | 540.0  | 89.7      |
| 0°-90°    | 602.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 602.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 246 | 246 | 246 | 246  | 246  |      |
| 5°  | 329 | 300 | 244 | 204  | 190  | 34   |
| 15° | 470 | 382 | 219 | 142  | 123  | 134  |
| 25° | 533 | 395 | 179 | 102  | 88   | 244  |
| 35° | 483 | 334 | 137 | 77   | 67   | 300  |
| 45° | 355 | 239 | 97  | 61   | 55   | 269  |
| 55° | 170 | 148 | 62  | 47   | 41   | 157  |
| 65° | 73  | 64  | 36  | 31   | 26   | 73   |
| 75° | 16  | 16  | 11  | 11   | 10   | 19   |
| 85° | 0   | 1   | 1   | 2    | 2    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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°  | 281.3 | 283.8 | 285.1 | 282.6 | 281.3 | 280.1 | 277.6 | 276.4 | 273.9 | 271.4 | 270.1 |
| 5°    | 328.6 | 328.6 | 328.6 | 326.1 | 322.4 | 319.9 | 314.9 | 311.2 | 305.0 | 300.0 | 295.0 |
| 7.5°  | 371.0 | 371.0 | 369.7 | 366.0 | 363.5 | 357.3 | 351.0 | 346.1 | 336.1 | 328.6 | 318.7 |
| 10°   | 405.8 | 405.8 | 404.6 | 398.3 | 394.6 | 387.1 | 380.9 | 372.2 | 362.2 | 352.3 | 341.1 |
| 12.5° | 439.4 | 439.4 | 434.4 | 429.5 | 422.0 | 412.0 | 403.3 | 394.6 | 380.9 | 369.7 | 356.0 |
| 15°   | 470.5 | 470.5 | 468.1 | 459.3 | 449.4 | 438.2 | 425.7 | 413.3 | 397.1 | 382.2 | 367.2 |
| 17.5° | 497.9 | 496.7 | 493.0 | 483.0 | 473.0 | 459.3 | 444.4 | 429.5 | 409.5 | 392.1 | 373.4 |
| 20°   | 516.6 | 516.6 | 511.6 | 500.4 | 489.2 | 474.3 | 458.1 | 440.7 | 419.5 | 398.3 | 375.9 |
| 22.5° | 529.1 | 527.8 | 522.8 | 511.6 | 497.9 | 483.0 | 464.3 | 445.6 | 422.0 | 398.3 | 374.7 |
| 25°   | 532.8 | 531.5 | 526.6 | 514.1 | 500.4 | 484.2 | 464.3 | 444.4 | 419.5 | 394.6 | 368.5 |
| 27.5° | 530.3 | 529.1 | 524.1 | 510.4 | 496.7 | 478.0 | 458.1 | 436.9 | 412.0 | 385.9 | 359.8 |
| 30°   | 522.8 | 519.1 | 514.1 | 501.7 | 486.7 | 468.1 | 446.9 | 423.2 | 398.3 | 371.0 | 344.8 |
| 32.5° | 504.2 | 504.2 | 497.9 | 485.5 | 470.5 | 450.6 | 429.5 | 407.1 | 379.7 | 353.5 | 326.1 |
| 35°   | 483.0 | 481.7 | 476.8 | 463.1 | 449.4 | 430.7 | 409.5 | 385.9 | 359.8 | 333.6 | 307.5 |
| 37.5° | 456.9 | 455.6 | 450.6 | 438.2 | 423.2 | 405.8 | 383.4 | 361.0 | 336.1 | 310.0 | 286.3 |
| 40°   | 428.2 | 425.7 | 419.5 | 409.5 | 397.1 | 377.2 | 357.3 | 334.9 | 311.2 | 287.6 | 263.9 |
| 42.5° | 395.9 | 393.4 | 388.4 | 380.9 | 366.0 | 348.6 | 329.9 | 308.7 | 286.3 | 262.7 | 245.2 |
| 45°   | 354.8 | 354.8 | 352.3 | 344.8 | 333.6 | 319.9 | 300.0 | 281.3 | 260.2 | 239.0 | 220.3 |
| 47.5° | 303.7 | 306.2 | 305.0 | 301.2 | 296.3 | 283.8 | 270.1 | 253.9 | 234.0 | 215.4 | 197.9 |
| 50°   | 258.9 | 260.2 | 261.4 | 258.9 | 255.2 | 246.5 | 237.8 | 227.8 | 210.4 | 192.9 | 176.8 |
| 52.5° | 207.9 | 211.6 | 211.6 | 212.9 | 212.9 | 210.4 | 207.9 | 196.7 | 188.0 | 170.5 | 155.6 |
| 55°   | 170.5 | 170.5 | 170.5 | 173.0 | 174.3 | 175.5 | 173.0 | 170.5 | 160.6 | 148.1 | 134.4 |
| 57.5° | 139.4 | 139.4 | 141.9 | 140.7 | 140.7 | 143.2 | 143.2 | 141.9 | 135.7 | 124.5 | 112.0 |
| 60°   | 114.5 | 114.5 | 114.5 | 114.5 | 115.8 | 115.8 | 115.8 | 115.8 | 110.8 | 100.8 | 90.9  |
| 62.5° | 92.1  | 92.1  | 92.1  | 93.4  | 93.4  | 93.4  | 94.6  | 93.4  | 88.4  | 80.9  | 72.2  |
| 65°   | 73.4  | 72.2  | 73.4  | 73.4  | 74.7  | 74.7  | 74.7  | 73.4  | 68.5  | 63.5  | 57.3  |
| 67.5° | 54.8  | 56.0  | 56.0  | 56.0  | 57.3  | 58.5  | 57.3  | 56.0  | 52.3  | 47.3  | 44.8  |
| 70°   | 39.8  | 41.1  | 41.1  | 41.1  | 42.3  | 43.6  | 42.3  | 41.1  | 38.6  | 36.1  | 33.6  |
| 72.5° | 26.1  | 27.4  | 27.4  | 28.6  | 29.9  | 29.9  | 28.6  | 28.6  | 27.4  | 24.9  | 23.7  |
| 75°   | 16.2  | 16.2  | 17.4  | 17.4  | 18.7  | 18.7  | 18.7  | 17.4  | 17.4  | 16.2  | 16.2  |
| 77.5° | 7.5   | 7.5   | 8.7   | 8.7   | 8.7   | 10.0  | 10.0  | 10.0  | 10.0  | 10.0  | 8.7   |
| 80°   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 3.7   | 3.7   | 3.7   | 5.0   | 5.0   | 5.0   |
| 82.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 2.5   | 2.5   | 2.5   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.2   | 1.2   | 1.2   | 1.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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   |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 246.5 | 246.5 | 246.5 | 246.5 | 246.5  | 246.5 | 246.5  | 246.5 |
| 2.5°  | 267.6 | 263.9 | 258.9 | 246.5 | 234.0  | 224.1 | 217.8  | 216.6 |
| 5°    | 288.8 | 282.6 | 271.4 | 244.0 | 221.6  | 204.2 | 194.2  | 190.5 |
| 7.5°  | 310.0 | 298.8 | 282.6 | 240.3 | 206.6  | 185.5 | 174.3  | 169.3 |
| 10°   | 327.4 | 313.7 | 292.5 | 235.3 | 194.2  | 169.3 | 155.6  | 151.9 |
| 12.5° | 341.1 | 324.9 | 298.8 | 227.8 | 181.7  | 154.4 | 140.7  | 136.9 |
| 15°   | 349.8 | 332.4 | 302.5 | 219.1 | 169.3  | 141.9 | 128.2  | 123.2 |
| 17.5° | 353.5 | 332.4 | 301.2 | 210.4 | 158.1  | 130.7 | 117.0  | 113.3 |
| 20°   | 353.5 | 329.9 | 297.5 | 200.4 | 146.9  | 119.5 | 107.1  | 103.3 |
| 22.5° | 349.8 | 324.9 | 288.8 | 189.2 | 136.9  | 110.8 | 98.3   | 94.6  |
| 25°   | 342.3 | 314.9 | 278.8 | 179.3 | 127.0  | 102.1 | 90.9   | 88.4  |
| 27.5° | 331.1 | 303.7 | 266.4 | 169.3 | 118.3  | 94.6  | 84.6   | 82.2  |
| 30°   | 317.4 | 290.0 | 252.7 | 156.8 | 109.5  | 88.4  | 79.7   | 75.9  |
| 32.5° | 300.0 | 273.9 | 237.8 | 146.9 | 102.1  | 82.2  | 74.7   | 72.2  |
| 35°   | 281.3 | 257.7 | 221.6 | 136.9 | 94.6   | 77.2  | 69.7   | 67.2  |
| 37.5° | 262.7 | 237.8 | 207.9 | 125.7 | 88.4   | 72.2  | 66.0   | 63.5  |
| 40°   | 242.7 | 224.1 | 192.9 | 115.8 | 83.4   | 68.5  | 62.2   | 61.0  |
| 42.5° | 222.8 | 202.9 | 171.8 | 107.1 | 77.2   | 63.5  | 58.5   | 57.3  |
| 45°   | 199.2 | 180.5 | 155.6 | 97.1  | 72.2   | 61.0  | 56.0   | 54.8  |
| 47.5° | 179.3 | 161.8 | 139.4 | 88.4  | 67.2   | 57.3  | 52.3   | 51.0  |
| 50°   | 160.6 | 143.2 | 122.0 | 78.4  | 62.2   | 53.5  | 49.8   | 47.3  |
| 52.5° | 139.4 | 124.5 | 105.8 | 69.7  | 57.3   | 49.8  | 46.1   | 44.8  |
| 55°   | 120.7 | 105.8 | 88.4  | 62.2  | 52.3   | 47.3  | 42.3   | 41.1  |
| 57.5° | 99.6  | 87.1  | 74.7  | 54.8  | 47.3   | 42.3  | 39.8   | 37.3  |
| 60°   | 80.9  | 72.2  | 63.5  | 48.5  | 42.3   | 39.8  | 36.1   | 34.9  |
| 62.5° | 66.0  | 59.8  | 53.5  | 42.3  | 37.3   | 34.9  | 32.4   | 29.9  |
| 65°   | 52.3  | 48.5  | 43.6  | 36.1  | 32.4   | 31.1  | 28.6   | 26.1  |
| 67.5° | 41.1  | 38.6  | 34.9  | 28.6  | 27.4   | 26.1  | 23.7   | 21.2  |
| 70°   | 31.1  | 29.9  | 27.4  | 22.4  | 21.2   | 22.4  | 19.9   | 17.4  |
| 72.5° | 22.4  | 21.2  | 19.9  | 16.2  | 16.2   | 16.2  | 14.9   | 12.4  |
| 75°   | 14.9  | 13.7  | 12.4  | 11.2  | 11.2   | 11.2  | 11.2   | 10.0  |
| 77.5° | 8.7   | 8.7   | 7.5   | 6.2   | 7.5    | 7.5   | 8.7    | 8.7   |
| 80°   | 3.7   | 3.7   | 3.7   | 3.7   | 5.0    | 5.0   | 6.2    | 6.2   |
| 82.5° | 2.5   | 2.5   | 2.5   | 2.5   | 3.7    | 3.7   | 3.7    | 3.7   |
| 85°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 2.5   | 2.5    | 2.5   |
| 87.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2    | 1.2   | 1.2    | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)