

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: P1316011

Luminaire Tested: LDSQA3D20R709735D010 3LSQCLSWWR 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709735D010 3LSQCLSWWR 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCLSWWR 1MB TRI  
Light Source: -  
Ballast/Driver: -

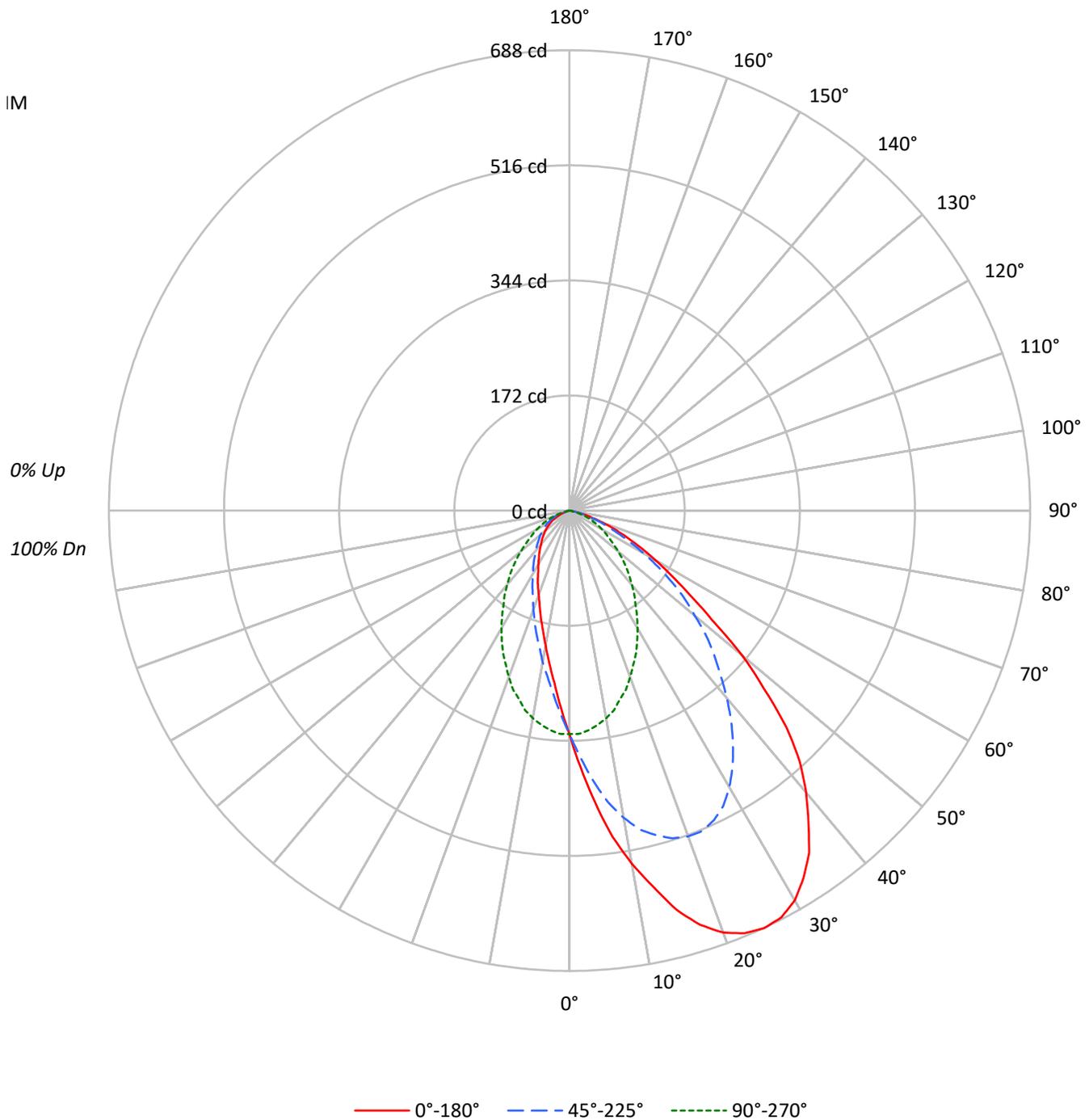
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 749.0 lumens  
Efficiency: N/A  
Efficacy: 26.0 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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: 24 FT

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### Luminous Intensity Polar Plot





TEST NUMBER: P1316011

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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 90  | 90  | 90  | 89  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 79  | 79  | 79  | 77  |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 69  | 69  | 69  | 67  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 61  | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 54  | 54  | 54  | 52  |
| 6   | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 48  | 48  | 48  | 46  |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 43  | 43  | 43  | 42  |
| 8   | 66  | 53  | 45  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 39  | 39  | 39  | 38  |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 36  | 36  | 36  | 34  |
| 10  | 58  | 45  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 33  | 33  | 33  | 31  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 57505  | 57505 | 57505 | 57505 | 57505 |
| 5°  | 75704  | 69982 | 56912 | 47646 | 44655 |
| 10° | 93648  | 81529 | 55087 | 40222 | 35815 |
| 15° | 110099 | 89595 | 51956 | 33984 | 29490 |
| 20° | 122978 | 94973 | 48495 | 28866 | 24541 |
| 25° | 130795 | 96971 | 44599 | 24836 | 21245 |
| 30° | 133757 | 94919 | 40409 | 21617 | 18475 |
| 35° | 131151 | 89417 | 36099 | 19532 | 16567 |
| 40° | 123584 | 82149 | 32577 | 17716 | 14883 |
| 45° | 111648 | 74432 | 29154 | 16124 | 13810 |
| 50° | 90319  | 65402 | 25319 | 15192 | 12673 |
| 55° | 65727  | 56269 | 21769 | 14202 | 11350 |
| 60° | 51012  | 44502 | 19530 | 13020 | 10299 |
| 65° | 38510  | 32112 | 16056 | 11573 | 7702  |
| 70° | 26990  | 23012 | 11884 | 8711  | 4784  |
| 75° | 15704  | 13641 | 6321  | 4192  | 1065  |
| 80° | 3174   | 4661  | 1587  | 0     | 0     |
| 85° | 0      | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 111648 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.6   | 4.4       |
| 10°-20°   | 97.4   | 13.0      |
| 20°-30°   | 146.7  | 19.6      |
| 30°-40°   | 163.1  | 21.8      |
| 40°-50°   | 144.6  | 19.3      |
| 50°-60°   | 98.1   | 13.1      |
| 60°-70°   | 51.5   | 6.9       |
| 70°-80°   | 14.6   | 2.0       |
| 80°-90°   | 0.4    | 0.1       |
| 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°    | 276.7  | 36.9      |
| 0°-40°    | 439.8  | 58.7      |
| 0°-60°    | 682.5  | 91.1      |
| 0°-90°    | 749.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 749.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 334 | 334 | 334 | 334  | 334  |      |
| 5°  | 438 | 405 | 329 | 276  | 258  | 45   |
| 15° | 618 | 502 | 291 | 191  | 165  | 175  |
| 25° | 688 | 510 | 235 | 131  | 112  | 316  |
| 35° | 624 | 425 | 172 | 93   | 79   | 387  |
| 45° | 458 | 306 | 120 | 66   | 57   | 347  |
| 55° | 219 | 187 | 72  | 47   | 38   | 202  |
| 65° | 94  | 79  | 39  | 28   | 19   | 96   |
| 75° | 24  | 20  | 10  | 6    | 2    | 26   |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 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°    | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 | 333.9 |
| 2.5°  | 384.3 | 382.8 | 381.2 | 381.2 | 379.6 | 378.0 | 374.9 | 374.9 | 371.7 | 368.6 | 365.4 |
| 5°    | 437.9 | 437.9 | 437.9 | 433.2 | 433.2 | 426.9 | 423.7 | 417.4 | 411.1 | 404.8 | 396.9 |
| 7.5°  | 491.4 | 491.4 | 486.7 | 485.1 | 480.4 | 474.1 | 469.4 | 459.9 | 448.9 | 439.5 | 426.9 |
| 10°   | 535.5 | 535.5 | 530.8 | 527.7 | 518.2 | 511.9 | 502.5 | 491.4 | 480.4 | 466.2 | 450.5 |
| 12.5° | 574.9 | 576.5 | 570.2 | 563.9 | 554.4 | 545.0 | 532.4 | 518.2 | 504.0 | 488.3 | 467.8 |
| 15°   | 617.5 | 615.9 | 608.0 | 600.1 | 589.1 | 574.9 | 559.2 | 540.3 | 521.4 | 502.5 | 480.4 |
| 17.5° | 649.0 | 647.4 | 639.5 | 630.1 | 615.9 | 598.6 | 581.2 | 559.2 | 537.1 | 513.5 | 486.7 |
| 20°   | 671.0 | 669.4 | 661.6 | 649.0 | 634.8 | 615.9 | 595.4 | 570.2 | 546.6 | 518.2 | 488.3 |
| 22.5° | 683.6 | 682.0 | 672.6 | 661.6 | 644.2 | 623.8 | 601.7 | 574.9 | 548.1 | 518.2 | 485.1 |
| 25°   | 688.3 | 685.2 | 675.7 | 663.1 | 645.8 | 623.8 | 598.6 | 570.2 | 541.8 | 510.3 | 475.7 |
| 27.5° | 685.2 | 682.0 | 671.0 | 656.8 | 637.9 | 612.7 | 587.5 | 559.2 | 529.2 | 497.7 | 461.5 |
| 30°   | 672.6 | 667.9 | 658.4 | 644.2 | 623.8 | 598.6 | 571.8 | 541.8 | 510.3 | 477.3 | 441.0 |
| 32.5° | 650.5 | 647.4 | 637.9 | 622.2 | 601.7 | 576.5 | 549.7 | 518.2 | 486.7 | 453.6 | 417.4 |
| 35°   | 623.8 | 617.5 | 608.0 | 593.8 | 573.3 | 548.1 | 521.4 | 488.3 | 458.4 | 425.3 | 390.6 |
| 37.5° | 586.0 | 584.4 | 573.3 | 562.3 | 541.8 | 515.1 | 489.9 | 458.4 | 428.4 | 396.9 | 362.3 |
| 40°   | 549.7 | 546.6 | 537.1 | 524.5 | 504.0 | 480.4 | 453.6 | 425.3 | 395.4 | 365.4 | 333.9 |
| 42.5° | 508.8 | 504.0 | 497.7 | 485.1 | 466.2 | 442.6 | 417.4 | 389.1 | 362.3 | 333.9 | 305.6 |
| 45°   | 458.4 | 456.8 | 448.9 | 442.6 | 425.3 | 404.8 | 379.6 | 354.4 | 327.6 | 305.6 | 283.5 |
| 47.5° | 393.8 | 392.2 | 390.6 | 385.9 | 376.5 | 362.3 | 343.4 | 319.8 | 299.3 | 277.2 | 247.3 |
| 50°   | 337.1 | 335.5 | 332.4 | 330.8 | 322.9 | 315.0 | 300.9 | 286.7 | 269.3 | 244.1 | 220.5 |
| 52.5° | 267.8 | 269.3 | 274.1 | 275.6 | 274.1 | 267.8 | 261.5 | 256.7 | 233.1 | 217.4 | 195.3 |
| 55°   | 218.9 | 218.9 | 217.4 | 218.9 | 220.5 | 223.7 | 223.7 | 217.4 | 201.6 | 187.4 | 168.5 |
| 57.5° | 179.6 | 179.6 | 179.6 | 179.6 | 179.6 | 181.1 | 181.1 | 179.6 | 171.7 | 157.5 | 140.2 |
| 60°   | 148.1 | 146.5 | 146.5 | 148.1 | 146.5 | 146.5 | 148.1 | 148.1 | 140.2 | 129.2 | 113.4 |
| 62.5° | 119.7 | 119.7 | 119.7 | 118.1 | 118.1 | 119.7 | 119.7 | 118.1 | 111.8 | 100.8 | 89.8  |
| 65°   | 94.5  | 94.5  | 94.5  | 94.5  | 94.5  | 96.1  | 94.5  | 92.9  | 86.6  | 78.8  | 70.9  |
| 67.5° | 72.5  | 72.5  | 74.0  | 72.5  | 74.0  | 74.0  | 74.0  | 70.9  | 66.2  | 59.9  | 55.1  |
| 70°   | 53.6  | 53.6  | 53.6  | 55.1  | 56.7  | 56.7  | 55.1  | 52.0  | 48.8  | 45.7  | 41.0  |
| 72.5° | 36.2  | 37.8  | 37.8  | 37.8  | 39.4  | 39.4  | 37.8  | 36.2  | 34.7  | 31.5  | 29.9  |
| 75°   | 23.6  | 22.1  | 23.6  | 23.6  | 25.2  | 25.2  | 23.6  | 23.6  | 22.1  | 20.5  | 18.9  |
| 77.5° | 11.0  | 11.0  | 12.6  | 12.6  | 12.6  | 12.6  | 12.6  | 12.6  | 12.6  | 11.0  | 11.0  |
| 80°   | 3.2   | 3.2   | 3.2   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 82.5° | 0.0   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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°    | 333.9 | 333.9 | 333.9 | 333.9 | 333.9  | 333.9 | 333.9  | 333.9 |
| 2.5°  | 362.3 | 357.6 | 351.3 | 333.9 | 318.2  | 304.0 | 296.1  | 294.6 |
| 5°    | 387.5 | 381.2 | 365.4 | 329.2 | 299.3  | 275.6 | 261.5  | 258.3 |
| 7.5°  | 414.3 | 401.7 | 379.6 | 322.9 | 280.4  | 250.4 | 234.7  | 230.0 |
| 10°   | 434.7 | 419.0 | 389.1 | 315.0 | 261.5  | 230.0 | 211.1  | 204.8 |
| 12.5° | 448.9 | 430.0 | 396.9 | 305.6 | 245.7  | 207.9 | 189.0  | 182.7 |
| 15°   | 456.8 | 436.3 | 398.5 | 291.4 | 226.8  | 190.6 | 170.1  | 165.4 |
| 17.5° | 459.9 | 436.3 | 395.4 | 280.4 | 209.5  | 173.3 | 154.4  | 148.1 |
| 20°   | 458.4 | 430.0 | 387.5 | 264.6 | 193.7  | 157.5 | 138.6  | 133.9 |
| 22.5° | 452.1 | 420.6 | 374.9 | 248.9 | 178.0  | 141.8 | 126.0  | 122.9 |
| 25°   | 442.6 | 408.0 | 360.7 | 234.7 | 163.8  | 130.7 | 115.0  | 111.8 |
| 27.5° | 426.9 | 392.2 | 341.8 | 218.9 | 151.2  | 119.7 | 105.5  | 100.8 |
| 30°   | 406.4 | 373.3 | 322.9 | 203.2 | 138.6  | 108.7 | 96.1   | 92.9  |
| 32.5° | 384.3 | 351.3 | 304.0 | 187.4 | 127.6  | 100.8 | 88.2   | 85.1  |
| 35°   | 359.1 | 327.6 | 280.4 | 171.7 | 116.6  | 92.9  | 80.3   | 78.8  |
| 37.5° | 333.9 | 302.4 | 259.9 | 159.1 | 107.1  | 85.1  | 74.0   | 72.5  |
| 40°   | 305.6 | 280.4 | 248.9 | 144.9 | 99.2   | 78.8  | 69.3   | 66.2  |
| 42.5° | 288.3 | 253.6 | 214.2 | 132.3 | 91.4   | 72.5  | 63.0   | 61.4  |
| 45°   | 250.4 | 225.2 | 193.7 | 119.7 | 83.5   | 66.2  | 58.3   | 56.7  |
| 47.5° | 225.2 | 203.2 | 173.3 | 107.1 | 77.2   | 61.4  | 53.6   | 52.0  |
| 50°   | 200.0 | 179.6 | 151.2 | 94.5  | 70.9   | 56.7  | 48.8   | 47.3  |
| 52.5° | 174.8 | 154.4 | 129.2 | 83.5  | 63.0   | 52.0  | 44.1   | 42.5  |
| 55°   | 149.6 | 130.7 | 107.1 | 72.5  | 56.7   | 47.3  | 41.0   | 37.8  |
| 57.5° | 122.9 | 107.1 | 91.4  | 64.6  | 50.4   | 42.5  | 36.2   | 33.1  |
| 60°   | 99.2  | 89.8  | 77.2  | 56.7  | 44.1   | 37.8  | 31.5   | 29.9  |
| 62.5° | 80.3  | 72.5  | 64.6  | 48.8  | 39.4   | 33.1  | 28.4   | 23.6  |
| 65°   | 64.6  | 59.9  | 53.6  | 39.4  | 33.1   | 28.4  | 23.6   | 18.9  |
| 67.5° | 50.4  | 47.3  | 42.5  | 33.1  | 26.8   | 23.6  | 17.3   | 14.2  |
| 70°   | 39.4  | 36.2  | 33.1  | 23.6  | 20.5   | 17.3  | 12.6   | 9.5   |
| 72.5° | 28.4  | 25.2  | 23.6  | 17.3  | 14.2   | 12.6  | 7.9    | 4.7   |
| 75°   | 17.3  | 17.3  | 14.2  | 9.5   | 7.9    | 6.3   | 3.2    | 1.6   |
| 77.5° | 9.5   | 9.5   | 7.9   | 4.7   | 4.7    | 1.6   | 0.0    | 0.0   |
| 80°   | 4.7   | 3.2   | 3.2   | 1.6   | 1.6    | 0.0   | 0.0    | 0.0   |
| 82.5° | 1.6   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 87.5° | 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   |

(END OF REPORT)