

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: P1323822

Luminaire Tested: LDSQA3D09R609030D2WDE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

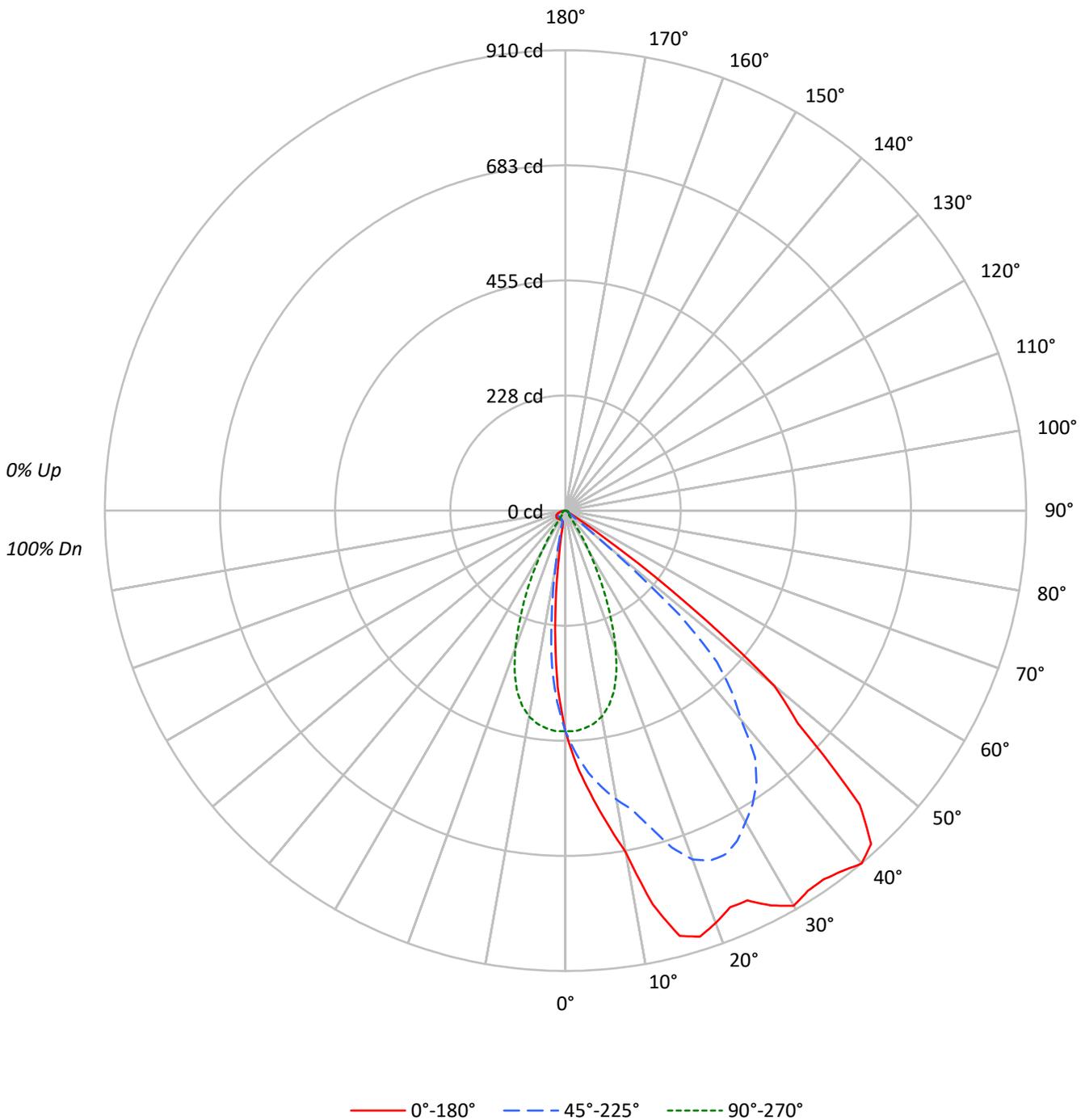
Test Method: LM-79-2019  
Report Number: P1323822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R609030D2WDE010 3LSQCA30R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 708.0 lumens  
Efficiency: N/A  
Efficacy: 48.2 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
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: 24 FT

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### Luminous Intensity Polar Plot





TEST NUMBER: P1323822

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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   | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 95  | 94  | 92  | 90  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 81  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 68  | 64  | 60  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 63  | 58  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 58  | 53  | 49  | 47  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 49  | 45  | 43  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 41  | 38  | 47  | 41  | 38  | 36  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 75055  | 75055  | 75055 | 75055 | 75055 |
| 5°  | 96951  | 90019  | 74650 | 53161 | 40558 |
| 10° | 119827 | 101465 | 72243 | 20111 | 5963  |
| 15° | 155173 | 115484 | 65899 | 4404  | 3940  |
| 20° | 159010 | 134506 | 53040 | 3684  | 3794  |
| 25° | 161580 | 142387 | 35573 | 3553  | 3820  |
| 30° | 179317 | 141433 | 18335 | 3580  | 3997  |
| 35° | 187055 | 138278 | 5067  | 3784  | 4352  |
| 40° | 204677 | 121268 | 2406  | 4047  | 4811  |
| 45° | 200255 | 103050 | 2436  | 4384  | 5383  |
| 50° | 144361 | 25427  | 2679  | 4823  | 5921  |
| 55° | 27684  | 1591   | 2822  | 5225  | 6636  |
| 60° | 1378   | 1619   | 2756  | 5511  | 7130  |
| 65° | 1345   | 1630   | 2730  | 5705  | 7621  |
| 70° | 1360   | 1662   | 2669  | 5740  | 7755  |
| 75° | 1331   | 1797   | 2662  | 5789  | 7985  |
| 80° | 694    | 1984   | 2678  | 5951  | 7934  |
| 85° | 1383   | 1383   | 2569  | 5335  | 7904  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 200255 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.9   | 5.4       |
| 10°-20°   | 104.6  | 14.8      |
| 20°-30°   | 161.1  | 22.7      |
| 30°-40°   | 189.0  | 26.7      |
| 40°-50°   | 151.5  | 21.4      |
| 50°-60°   | 47.0   | 6.6       |
| 60°-70°   | 8.9    | 1.3       |
| 70°-80°   | 5.9    | 0.8       |
| 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°    | 303.6  | 42.9      |
| 0°-40°    | 492.6  | 69.6      |
| 0°-60°    | 691.1  | 97.6      |
| 0°-90°    | 708.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 708.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 436 | 436 | 436 | 436  | 436  |      |
| 5°  | 561 | 521 | 432 | 308  | 235  | 57   |
| 15° | 870 | 648 | 370 | 25   | 22   | 238  |
| 25° | 850 | 749 | 187 | 19   | 20   | 401  |
| 35° | 890 | 658 | 24  | 18   | 21   | 563  |
| 45° | 822 | 423 | 10  | 18   | 22   | 588  |
| 55° | 92  | 5   | 9   | 17   | 22   | 146  |
| 65° | 3   | 4   | 7   | 14   | 19   | 3    |
| 75° | 2   | 3   | 4   | 9    | 12   | 2    |
| 85° | 1   | 1   | 1   | 3    | 4    | 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°    | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 | 435.8 |
| 2.5°  | 502.7 | 497.3 | 497.3 | 495.3 | 493.3 | 494.0 | 488.6 | 490.6 | 485.3 | 481.3 | 477.9 |
| 5°    | 560.8 | 554.1 | 553.5 | 550.1 | 546.8 | 544.1 | 537.4 | 533.4 | 525.4 | 520.7 | 510.7 |
| 7.5°  | 621.0 | 615.6 | 612.3 | 608.3 | 602.3 | 595.6 | 584.2 | 576.9 | 564.2 | 551.5 | 538.8 |
| 10°   | 685.2 | 680.5 | 673.1 | 668.4 | 651.7 | 641.0 | 625.7 | 615.6 | 596.9 | 580.2 | 560.8 |
| 12.5° | 797.4 | 794.8 | 780.7 | 771.4 | 747.3 | 725.9 | 692.5 | 665.8 | 632.3 | 604.9 | 578.9 |
| 15°   | 870.3 | 867.0 | 859.6 | 850.9 | 835.6 | 811.5 | 781.4 | 744.0 | 697.2 | 647.7 | 603.6 |
| 17.5° | 883.0 | 883.7 | 879.0 | 877.0 | 867.0 | 851.6 | 827.5 | 799.5 | 752.7 | 697.9 | 637.7 |
| 20°   | 867.6 | 873.0 | 871.6 | 875.7 | 877.7 | 871.6 | 855.6 | 828.2 | 787.4 | 733.9 | 666.4 |
| 22.5° | 848.9 | 853.6 | 852.3 | 859.6 | 871.0 | 877.0 | 871.6 | 849.6 | 808.1 | 748.7 | 682.5 |
| 25°   | 850.3 | 853.6 | 843.6 | 848.3 | 863.0 | 877.7 | 878.3 | 858.9 | 814.2 | 749.3 | 681.1 |
| 27.5° | 879.7 | 869.6 | 846.9 | 844.9 | 863.0 | 881.7 | 883.0 | 858.9 | 805.5 | 735.3 | 667.8 |
| 30°   | 901.7 | 894.4 | 869.0 | 865.6 | 883.0 | 895.7 | 889.0 | 851.6 | 784.7 | 711.2 | 648.4 |
| 32.5° | 891.0 | 892.4 | 881.7 | 892.4 | 915.1 | 920.4 | 892.4 | 834.2 | 756.0 | 687.8 | 625.7 |
| 35°   | 889.7 | 895.0 | 901.1 | 917.8 | 933.1 | 920.4 | 875.7 | 801.5 | 725.3 | 657.7 | 590.2 |
| 37.5° | 897.7 | 906.4 | 915.1 | 929.8 | 929.8 | 897.0 | 831.5 | 760.0 | 688.5 | 615.0 | 516.7 |
| 40°   | 910.4 | 915.8 | 918.4 | 917.1 | 899.1 | 850.9 | 781.4 | 709.9 | 641.7 | 539.4 | 467.9 |
| 42.5° | 893.7 | 893.0 | 890.4 | 879.0 | 845.6 | 782.7 | 717.9 | 659.8 | 552.1 | 486.6 | 405.1 |
| 45°   | 822.2 | 822.2 | 814.8 | 796.8 | 766.0 | 713.9 | 656.4 | 571.5 | 503.3 | 423.1 | 300.8 |
| 47.5° | 622.3 | 617.6 | 625.7 | 636.4 | 636.4 | 631.7 | 579.5 | 506.0 | 436.5 | 305.5 | 96.3  |
| 50°   | 538.8 | 531.4 | 521.4 | 523.4 | 522.1 | 527.4 | 494.0 | 438.5 | 322.9 | 94.9  | 6.7   |
| 52.5° | 304.8 | 318.2 | 350.9 | 397.1 | 417.8 | 425.1 | 404.4 | 333.6 | 109.0 | 6.0   | 5.3   |
| 55°   | 92.2  | 94.9  | 107.6 | 132.4 | 179.8 | 229.9 | 233.3 | 108.3 | 7.4   | 5.3   | 5.3   |
| 57.5° | 4.0   | 4.0   | 5.3   | 8.0   | 18.7  | 28.1  | 30.1  | 6.7   | 4.7   | 5.3   | 5.3   |
| 60°   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.7   | 4.7   | 4.7   | 4.7   | 5.3   |
| 62.5° | 3.3   | 3.3   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.7   | 4.7   | 4.7   |
| 65°   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 4.0   | 4.0   | 4.0   | 4.0   | 4.7   |
| 67.5° | 2.7   | 2.7   | 2.7   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 4.0   | 4.0   | 4.0   |
| 70°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.3   | 3.3   | 3.3   | 3.3   |
| 72.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.3   |
| 75°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.7   | 2.7   | 2.7   | 2.7   |
| 77.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 80°   | 0.7   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 2.0   | 2.0   |
| 82.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.3   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 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):**

|       | 55°   | 60°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 435.8 | 435.8 | 435.8 | 435.8 | 435.8  | 435.8 | 435.8  | 435.8 |
| 2.5°  | 473.3 | 467.9 | 461.9 | 436.5 | 411.8  | 378.3 | 355.6  | 348.9 |
| 5°    | 502.0 | 493.3 | 479.9 | 431.8 | 373.7  | 307.5 | 254.0  | 234.6 |
| 7.5°  | 526.1 | 512.7 | 494.0 | 425.1 | 328.2  | 208.6 | 134.4  | 113.6 |
| 10°   | 543.4 | 526.7 | 502.7 | 413.1 | 268.0  | 115.0 | 45.5   | 34.1  |
| 12.5° | 558.1 | 536.1 | 507.3 | 395.0 | 195.2  | 46.8  | 23.4   | 23.4  |
| 15°   | 568.2 | 541.4 | 509.4 | 369.6 | 126.3  | 24.7  | 22.1   | 22.1  |
| 17.5° | 582.2 | 547.5 | 509.4 | 334.2 | 68.8   | 21.4  | 21.4   | 21.4  |
| 20°   | 604.9 | 553.5 | 502.0 | 289.4 | 38.1   | 20.1  | 20.7   | 20.7  |
| 22.5° | 617.0 | 562.2 | 492.6 | 237.3 | 24.1   | 19.4  | 20.1   | 20.1  |
| 25°   | 619.6 | 560.8 | 472.6 | 187.2 | 19.4   | 18.7  | 19.4   | 20.1  |
| 27.5° | 610.3 | 551.5 | 445.8 | 136.4 | 17.4   | 18.0  | 19.4   | 20.1  |
| 30°   | 593.6 | 528.7 | 403.1 | 92.2  | 16.0   | 18.0  | 19.4   | 20.1  |
| 32.5° | 562.2 | 473.9 | 352.9 | 55.5  | 15.4   | 18.0  | 19.4   | 20.7  |
| 35°   | 492.0 | 416.4 | 295.5 | 24.1  | 14.7   | 18.0  | 20.1   | 20.7  |
| 37.5° | 441.2 | 359.0 | 228.6 | 12.0  | 14.7   | 18.0  | 20.1   | 21.4  |
| 40°   | 385.0 | 288.8 | 105.6 | 10.7  | 14.7   | 18.0  | 20.1   | 21.4  |
| 42.5° | 293.4 | 133.7 | 12.7  | 10.7  | 14.0   | 18.0  | 20.7   | 21.4  |
| 45°   | 107.0 | 14.0  | 6.7   | 10.0  | 14.0   | 18.0  | 20.7   | 22.1  |
| 47.5° | 8.0   | 5.3   | 6.0   | 10.0  | 14.0   | 18.0  | 20.7   | 22.1  |
| 50°   | 5.3   | 5.3   | 6.0   | 10.0  | 14.0   | 18.0  | 20.7   | 22.1  |
| 52.5° | 5.3   | 6.0   | 6.0   | 9.4   | 13.4   | 18.0  | 20.7   | 22.1  |
| 55°   | 5.3   | 6.0   | 6.0   | 9.4   | 13.4   | 17.4  | 20.7   | 22.1  |
| 57.5° | 5.3   | 5.3   | 6.0   | 8.7   | 12.7   | 16.7  | 20.7   | 21.4  |
| 60°   | 5.3   | 5.3   | 6.0   | 8.0   | 12.0   | 16.0  | 19.4   | 20.7  |
| 62.5° | 5.3   | 5.3   | 5.3   | 7.4   | 11.4   | 15.4  | 18.7   | 20.1  |
| 65°   | 4.7   | 4.7   | 5.3   | 6.7   | 10.0   | 14.0  | 17.4   | 18.7  |
| 67.5° | 4.0   | 4.7   | 4.7   | 6.0   | 9.4    | 12.7  | 16.0   | 17.4  |
| 70°   | 4.0   | 4.0   | 4.0   | 5.3   | 8.0    | 11.4  | 14.7   | 15.4  |
| 72.5° | 3.3   | 3.3   | 4.0   | 4.7   | 7.4    | 10.0  | 13.4   | 14.0  |
| 75°   | 2.7   | 3.3   | 3.3   | 4.0   | 6.0    | 8.7   | 11.4   | 12.0  |
| 77.5° | 2.7   | 2.7   | 2.7   | 3.3   | 5.3    | 7.4   | 9.4    | 10.0  |
| 80°   | 2.0   | 2.0   | 2.0   | 2.7   | 4.0    | 6.0   | 7.4    | 8.0   |
| 82.5° | 1.3   | 2.0   | 2.0   | 2.0   | 3.3    | 4.0   | 5.3    | 6.0   |
| 85°   | 1.3   | 1.3   | 1.3   | 1.3   | 2.0    | 2.7   | 3.3    | 4.0   |
| 87.5° | 0.7   | 0.7   | 1.3   | 1.3   | 1.3    | 1.3   | 1.3    | 2.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)