

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: P1314545

Luminaire Tested: LDSQA3D09R609730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314545  
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: LDSQA3D09R609730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

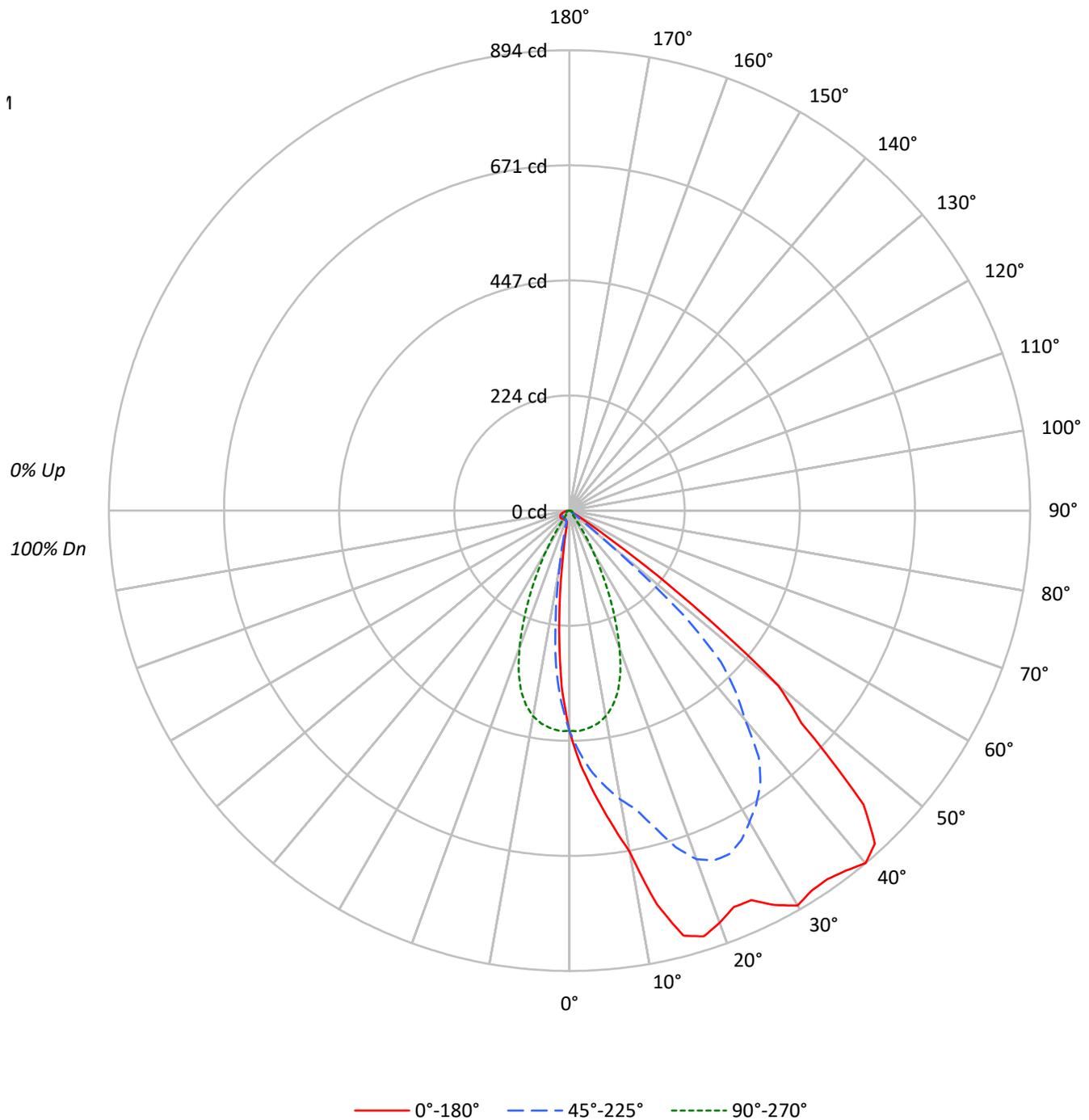
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 695.0 lumens  
Efficiency: N/A  
Efficacy: 62.6 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): 11.1  
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

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### Luminous Intensity Polar Plot





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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 80  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 52  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 41  | 38  | 36  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 73677  | 73677  | 73677 | 73677 | 73677 |
| 5°  | 95171  | 88377  | 73284 | 52175 | 39814 |
| 10° | 117624 | 99611  | 70914 | 19744 | 5858  |
| 15° | 152320 | 113362 | 64704 | 4333  | 3869  |
| 20° | 156096 | 132050 | 52069 | 3611  | 3720  |
| 25° | 158596 | 139784 | 34908 | 3496  | 3744  |
| 30° | 176036 | 138848 | 18017 | 3520  | 3918  |
| 35° | 183628 | 135755 | 4962  | 3721  | 4268  |
| 40° | 200922 | 119043 | 2361  | 3979  | 4721  |
| 45° | 196577 | 101175 | 2387  | 4311  | 5285  |
| 50° | 141709 | 24971  | 2626  | 4742  | 5814  |
| 55° | 27204  | 1561   | 2762  | 5134  | 6516  |
| 60° | 1343   | 1584   | 2721  | 5408  | 6992  |
| 65° | 1345   | 1589   | 2690  | 5624  | 7498  |
| 70° | 1309   | 1662   | 2618  | 5640  | 7604  |
| 75° | 1331   | 1730   | 2595  | 5656  | 7852  |
| 80° | 694    | 1984   | 2579  | 5852  | 7835  |
| 85° | 1383   | 1383   | 2569  | 5138  | 7707  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 196577 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 5.4       |
| 10°-20°   | 102.7  | 14.8      |
| 20°-30°   | 158.1  | 22.7      |
| 30°-40°   | 185.5  | 26.7      |
| 40°-50°   | 148.7  | 21.4      |
| 50°-60°   | 46.2   | 6.6       |
| 60°-70°   | 8.7    | 1.3       |
| 70°-80°   | 5.8    | 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°    | 298.0  | 42.9      |
| 0°-40°    | 483.5  | 69.6      |
| 0°-60°    | 678.4  | 97.6      |
| 0°-90°    | 695.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 695.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 428 | 428 | 428 | 428  | 428  |      |
| 5°  | 550 | 511 | 424 | 302  | 230  | 56   |
| 15° | 854 | 636 | 363 | 24   | 22   | 234  |
| 25° | 835 | 736 | 184 | 18   | 20   | 394  |
| 35° | 873 | 646 | 24  | 18   | 20   | 553  |
| 45° | 807 | 415 | 10  | 18   | 22   | 578  |
| 55° | 91  | 5   | 9   | 17   | 22   | 143  |
| 65° | 3   | 4   | 7   | 14   | 18   | 3    |
| 75° | 2   | 3   | 4   | 8    | 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°    | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 | 427.8 |
| 2.5°  | 493.4 | 488.2 | 488.2 | 486.2 | 484.3 | 484.9 | 479.7 | 481.6 | 476.4 | 472.4 | 469.2 |
| 5°    | 550.5 | 544.0 | 543.3 | 540.0 | 536.7 | 534.1 | 527.6 | 523.6 | 515.7 | 511.2 | 501.3 |
| 7.5°  | 609.6 | 604.3 | 601.0 | 597.1 | 591.2 | 584.6 | 573.5 | 566.3 | 553.8 | 541.3 | 528.9 |
| 10°   | 672.6 | 668.0 | 660.8 | 656.2 | 639.8 | 629.3 | 614.2 | 604.3 | 586.0 | 569.6 | 550.5 |
| 12.5° | 782.8 | 780.2 | 766.4 | 757.2 | 733.6 | 712.6 | 679.8 | 653.5 | 620.7 | 593.8 | 568.2 |
| 15°   | 854.3 | 851.0 | 843.8 | 835.3 | 820.2 | 796.6 | 767.1 | 730.3 | 684.4 | 635.8 | 592.5 |
| 17.5° | 866.8 | 867.5 | 862.9 | 860.9 | 851.0 | 836.0 | 812.3 | 784.8 | 738.8 | 685.0 | 626.0 |
| 20°   | 851.7 | 857.0 | 855.6 | 859.6 | 861.5 | 855.6 | 839.9 | 813.0 | 773.0 | 720.5 | 654.2 |
| 22.5° | 833.3 | 837.9 | 836.6 | 843.8 | 855.0 | 860.9 | 855.6 | 834.0 | 793.3 | 734.9 | 669.9 |
| 25°   | 834.6 | 837.9 | 828.1 | 832.7 | 847.1 | 861.5 | 862.2 | 843.2 | 799.2 | 735.6 | 668.6 |
| 27.5° | 863.5 | 853.7 | 831.4 | 829.4 | 847.1 | 865.5 | 866.8 | 843.2 | 790.7 | 721.8 | 655.5 |
| 30°   | 885.2 | 878.0 | 853.0 | 849.7 | 866.8 | 879.3 | 872.7 | 836.0 | 770.3 | 698.2 | 636.5 |
| 32.5° | 874.7 | 876.0 | 865.5 | 876.0 | 898.3 | 903.5 | 876.0 | 818.9 | 742.1 | 675.2 | 614.2 |
| 35°   | 873.4 | 878.6 | 884.5 | 900.9 | 916.0 | 903.5 | 859.6 | 786.7 | 711.9 | 645.7 | 579.4 |
| 37.5° | 881.2 | 889.8 | 898.3 | 912.7 | 912.7 | 880.6 | 816.3 | 746.1 | 675.9 | 603.7 | 507.2 |
| 40°   | 893.7 | 898.9 | 901.6 | 900.3 | 882.5 | 835.3 | 767.1 | 696.8 | 629.9 | 529.5 | 459.3 |
| 42.5° | 877.3 | 876.6 | 874.0 | 862.9 | 830.1 | 768.4 | 704.7 | 647.6 | 542.0 | 477.7 | 397.6 |
| 45°   | 807.1 | 807.1 | 799.9 | 782.2 | 752.0 | 700.8 | 644.4 | 561.0 | 494.1 | 415.4 | 295.3 |
| 47.5° | 610.9 | 606.3 | 614.2 | 624.7 | 624.7 | 620.1 | 568.9 | 496.7 | 428.5 | 299.9 | 94.5  |
| 50°   | 528.9 | 521.7 | 511.8 | 513.8 | 512.5 | 517.7 | 484.9 | 430.4 | 316.9 | 93.2  | 6.6   |
| 52.5° | 299.2 | 312.3 | 344.5 | 389.8 | 410.1 | 417.3 | 397.0 | 327.4 | 107.0 | 5.9   | 5.2   |
| 55°   | 90.6  | 93.2  | 105.6 | 129.9 | 176.5 | 225.7 | 229.0 | 106.3 | 7.2   | 5.2   | 5.2   |
| 57.5° | 3.9   | 3.9   | 5.2   | 7.9   | 18.4  | 27.6  | 29.5  | 6.6   | 4.6   | 5.2   | 5.2   |
| 60°   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 4.6   | 4.6   | 4.6   | 4.6   | 5.2   |
| 62.5° | 3.3   | 3.3   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 4.6   | 4.6   | 4.6   |
| 65°   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.9   | 3.9   | 3.9   | 3.9   | 4.6   |
| 67.5° | 2.6   | 2.6   | 2.6   | 3.3   | 3.3   | 3.3   | 3.3   | 3.3   | 3.9   | 3.9   | 3.9   |
| 70°   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.3   | 3.3   | 3.3   | 3.3   |
| 72.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.3   |
| 75°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.6   | 2.6   | 2.6   | 2.6   |
| 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°    | 427.8 | 427.8 | 427.8 | 427.8 | 427.8  | 427.8 | 427.8  | 427.8 |
| 2.5°  | 464.6 | 459.3 | 453.4 | 428.5 | 404.2  | 371.4 | 349.1  | 342.5 |
| 5°    | 492.8 | 484.3 | 471.1 | 423.9 | 366.8  | 301.8 | 249.3  | 230.3 |
| 7.5°  | 516.4 | 503.3 | 484.9 | 417.3 | 322.2  | 204.7 | 131.9  | 111.5 |
| 10°   | 533.5 | 517.1 | 493.4 | 405.5 | 263.1  | 112.9 | 44.6   | 33.5  |
| 12.5° | 547.9 | 526.2 | 498.0 | 387.8 | 191.6  | 45.9  | 23.0   | 23.0  |
| 15°   | 557.7 | 531.5 | 500.0 | 362.9 | 124.0  | 24.3  | 21.7   | 21.7  |
| 17.5° | 571.5 | 537.4 | 500.0 | 328.1 | 67.6   | 21.0  | 21.0   | 21.0  |
| 20°   | 593.8 | 543.3 | 492.8 | 284.1 | 37.4   | 19.7  | 20.3   | 20.3  |
| 22.5° | 605.6 | 551.8 | 483.6 | 232.9 | 23.6   | 19.0  | 19.7   | 19.7  |
| 25°   | 608.3 | 550.5 | 463.9 | 183.7 | 19.0   | 18.4  | 19.0   | 19.7  |
| 27.5° | 599.1 | 541.3 | 437.7 | 133.9 | 17.1   | 17.7  | 19.0   | 19.7  |
| 30°   | 582.7 | 519.0 | 395.7 | 90.6  | 15.7   | 17.7  | 19.0   | 19.7  |
| 32.5° | 551.8 | 465.2 | 346.5 | 54.5  | 15.1   | 17.7  | 19.0   | 20.3  |
| 35°   | 482.9 | 408.8 | 290.0 | 23.6  | 14.4   | 17.7  | 19.7   | 20.3  |
| 37.5° | 433.1 | 352.4 | 224.4 | 11.8  | 14.4   | 17.7  | 19.7   | 21.0  |
| 40°   | 378.0 | 283.5 | 103.7 | 10.5  | 14.4   | 17.7  | 19.7   | 21.0  |
| 42.5° | 288.1 | 131.2 | 12.5  | 10.5  | 13.8   | 17.7  | 20.3   | 21.0  |
| 45°   | 105.0 | 13.8  | 6.6   | 9.8   | 13.8   | 17.7  | 20.3   | 21.7  |
| 47.5° | 7.9   | 5.2   | 5.9   | 9.8   | 13.8   | 17.7  | 20.3   | 21.7  |
| 50°   | 5.2   | 5.2   | 5.9   | 9.8   | 13.8   | 17.7  | 20.3   | 21.7  |
| 52.5° | 5.2   | 5.9   | 5.9   | 9.2   | 13.1   | 17.7  | 20.3   | 21.7  |
| 55°   | 5.2   | 5.9   | 5.9   | 9.2   | 13.1   | 17.1  | 20.3   | 21.7  |
| 57.5° | 5.2   | 5.2   | 5.9   | 8.5   | 12.5   | 16.4  | 20.3   | 21.0  |
| 60°   | 5.2   | 5.2   | 5.9   | 7.9   | 11.8   | 15.7  | 19.0   | 20.3  |
| 62.5° | 5.2   | 5.2   | 5.2   | 7.2   | 11.2   | 15.1  | 18.4   | 19.7  |
| 65°   | 4.6   | 4.6   | 5.2   | 6.6   | 9.8    | 13.8  | 17.1   | 18.4  |
| 67.5° | 3.9   | 4.6   | 4.6   | 5.9   | 9.2    | 12.5  | 15.7   | 17.1  |
| 70°   | 3.9   | 3.9   | 3.9   | 5.2   | 7.9    | 11.2  | 14.4   | 15.1  |
| 72.5° | 3.3   | 3.3   | 3.9   | 4.6   | 7.2    | 9.8   | 13.1   | 13.8  |
| 75°   | 2.6   | 3.3   | 3.3   | 3.9   | 5.9    | 8.5   | 11.2   | 11.8  |
| 77.5° | 2.6   | 2.6   | 2.6   | 3.3   | 5.2    | 7.2   | 9.2    | 9.8   |
| 80°   | 2.0   | 2.0   | 2.0   | 2.6   | 3.9    | 5.9   | 7.2    | 7.9   |
| 82.5° | 1.3   | 2.0   | 2.0   | 2.0   | 3.3    | 3.9   | 5.2    | 5.9   |
| 85°   | 1.3   | 1.3   | 1.3   | 1.3   | 2.0    | 2.6   | 3.3    | 3.9   |
| 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)