

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: P1316345

Luminaire Tested: LDSQA3D05R709740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

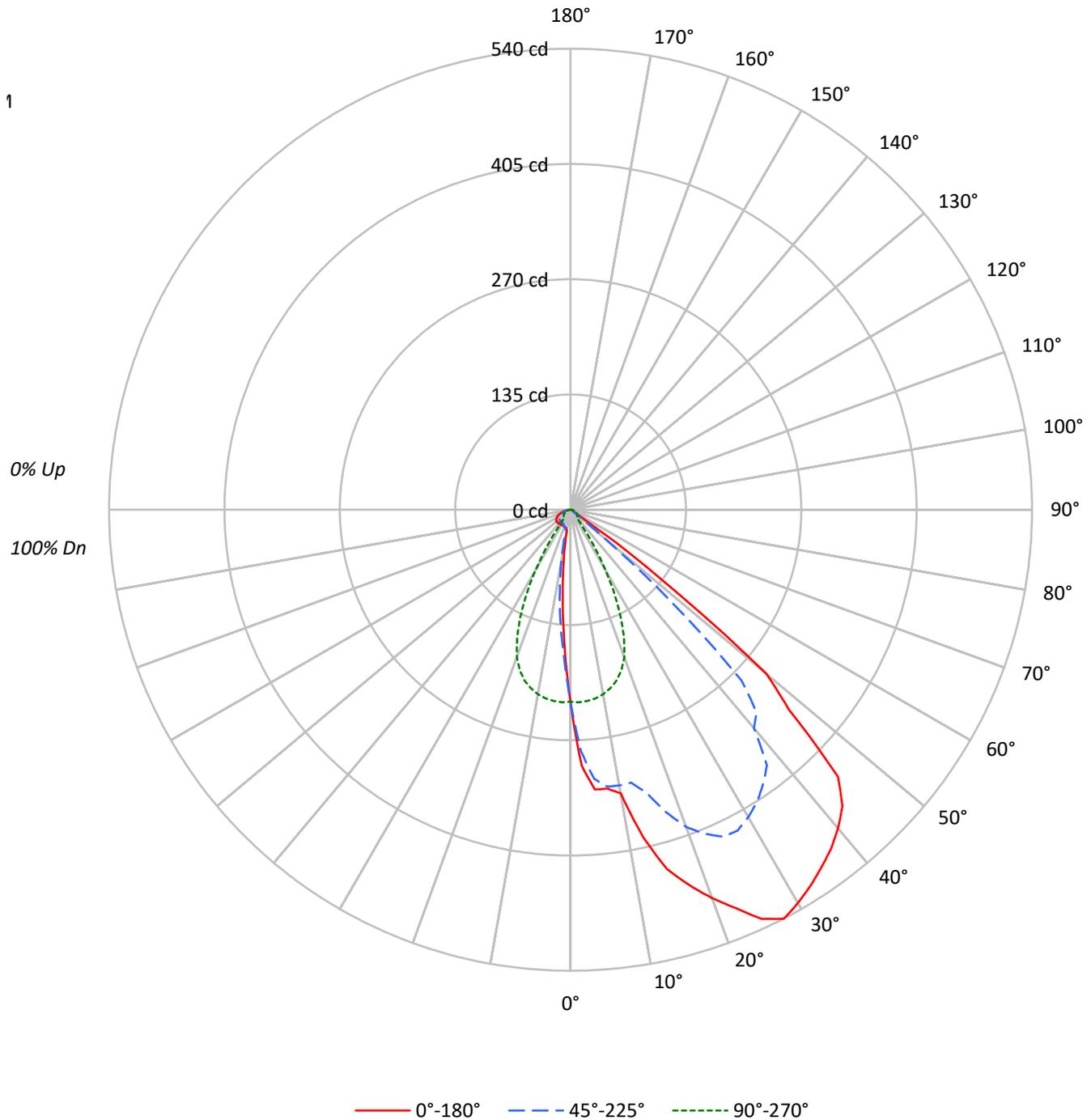
Test Method: LM-79-2019  
Report Number: P1316345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 427.0 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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





TEST NUMBER: P1316345

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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 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 92  | 92  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 82  | 82  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 87  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  | 73  | 73  | 73  | 71  |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 65  | 65  | 65  | 64  |
| 5   | 84  | 74  | 66  | 61  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 59  | 59  | 59  | 59  | 57  |
| 6   | 79  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 58  | 53  | 62  | 57  | 53  | 53  | 53  | 53  | 51  |
| 7   | 73  | 62  | 54  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 48  | 48  | 48  | 46  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  | 43  | 43  | 43  | 42  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 40  | 40  | 40  | 38  |
| 10  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 36  | 45  | 40  | 36  | 36  | 36  | 36  | 35  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 38716  | 38716 | 38716 | 38716 | 38716 |
| 5°  | 56878  | 54699 | 38864 | 23201 | 18170 |
| 10° | 58969  | 57360 | 38386 | 11105 | 4494  |
| 15° | 77667  | 61156 | 36979 | 3976  | 3887  |
| 20° | 88705  | 72467 | 33649 | 3812  | 3904  |
| 25° | 100448 | 80286 | 26433 | 3687  | 3858  |
| 30° | 105796 | 82668 | 16387 | 3659  | 4136  |
| 35° | 107561 | 82521 | 5403  | 3763  | 4373  |
| 40° | 109465 | 75045 | 2608  | 4024  | 4789  |
| 45° | 107751 | 68927 | 2704  | 4238  | 5188  |
| 50° | 80085  | 12727 | 2733  | 4662  | 5707  |
| 55° | 6396   | 1742  | 2913  | 4954  | 6095  |
| 60° | 1343   | 1826  | 2824  | 4994  | 6338  |
| 65° | 1386   | 1793  | 2771  | 4931  | 6520  |
| 70° | 1209   | 1712  | 2669  | 4633  | 6345  |
| 75° | 998    | 1597  | 2262  | 4525  | 6122  |
| 80° | 992    | 1488  | 2380  | 4364  | 5752  |
| 85° | 988    | 1976  | 2964  | 3754  | 4742  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 109042 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.5   | 4.8       |
| 10°-20°   | 57.5   | 13.5      |
| 20°-30°   | 96.6   | 22.6      |
| 30°-40°   | 116.2  | 27.2      |
| 40°-50°   | 92.1   | 21.6      |
| 50°-60°   | 29.5   | 6.9       |
| 60°-70°   | 8.2    | 1.9       |
| 70°-80°   | 4.9    | 1.1       |
| 80°-90°   | 1.6    | 0.4       |
| 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°    | 174.6  | 40.9      |
| 0°-40°    | 290.8  | 68.1      |
| 0°-60°    | 412.3  | 96.6      |
| 0°-90°    | 427.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 427.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 225 | 225 | 225 | 225  | 225  |      |
| 5°  | 329 | 316 | 225 | 134  | 105  | 31   |
| 15° | 436 | 343 | 207 | 22   | 22   | 123  |
| 25° | 529 | 422 | 139 | 19   | 20   | 242  |
| 35° | 512 | 392 | 26  | 18   | 21   | 320  |
| 45° | 442 | 283 | 11  | 17   | 21   | 318  |
| 55° | 21  | 6   | 10  | 16   | 20   | 67   |
| 65° | 3   | 4   | 7   | 12   | 16   | 3    |
| 75° | 2   | 2   | 3   | 7    | 9    | 2    |
| 85° | 0   | 1   | 2   | 2    | 2    | 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°    | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 | 224.8 |
| 2.5°  | 299.9 | 301.9 | 301.9 | 299.4 | 300.4 | 296.5 | 293.6 | 289.3 | 288.3 | 283.0 | 276.2 |
| 5°    | 329.0 | 328.0 | 328.0 | 326.1 | 327.0 | 325.6 | 324.1 | 323.2 | 320.3 | 316.4 | 312.5 |
| 7.5°  | 329.5 | 330.4 | 330.9 | 330.4 | 332.4 | 330.9 | 330.9 | 330.9 | 329.0 | 327.0 | 323.2 |
| 10°   | 337.2 | 335.8 | 334.3 | 330.9 | 329.0 | 327.5 | 327.5 | 328.0 | 329.0 | 328.0 | 325.6 |
| 12.5° | 392.9 | 387.6 | 385.2 | 377.0 | 370.7 | 360.0 | 347.9 | 338.7 | 330.4 | 327.5 | 325.6 |
| 15°   | 435.6 | 434.6 | 429.8 | 422.0 | 414.3 | 401.7 | 387.6 | 373.6 | 358.5 | 343.0 | 331.9 |
| 17.5° | 460.8 | 458.8 | 454.0 | 445.8 | 436.5 | 424.9 | 413.8 | 403.1 | 388.6 | 371.1 | 353.2 |
| 20°   | 484.0 | 479.7 | 473.4 | 463.7 | 454.5 | 443.3 | 431.2 | 421.0 | 408.9 | 395.4 | 374.5 |
| 22.5° | 504.9 | 501.0 | 490.8 | 477.7 | 468.5 | 457.9 | 447.2 | 437.5 | 426.4 | 410.9 | 392.0 |
| 25°   | 528.6 | 519.9 | 503.4 | 486.5 | 475.3 | 466.6 | 458.8 | 451.1 | 439.5 | 422.5 | 400.2 |
| 27.5° | 540.2 | 528.1 | 510.2 | 493.2 | 482.6 | 473.4 | 465.1 | 457.4 | 444.3 | 423.5 | 397.8 |
| 30°   | 532.0 | 525.2 | 512.6 | 499.5 | 490.8 | 482.1 | 472.4 | 460.8 | 439.9 | 415.7 | 392.0 |
| 32.5° | 522.3 | 518.9 | 513.1 | 505.3 | 500.0 | 491.3 | 477.7 | 458.8 | 429.8 | 406.0 | 380.3 |
| 35°   | 511.6 | 510.2 | 508.3 | 504.9 | 501.5 | 493.2 | 476.3 | 448.7 | 419.6 | 392.5 | 367.7 |
| 37.5° | 500.5 | 499.0 | 500.5 | 500.0 | 497.1 | 486.5 | 460.8 | 435.1 | 405.1 | 377.4 | 329.5 |
| 40°   | 486.9 | 486.0 | 488.4 | 490.8 | 487.4 | 473.4 | 445.8 | 414.7 | 388.1 | 333.8 | 317.4 |
| 42.5° | 470.9 | 470.5 | 474.8 | 476.8 | 471.9 | 451.1 | 418.6 | 395.8 | 339.6 | 322.2 | 283.4 |
| 45°   | 442.4 | 443.3 | 445.3 | 447.7 | 444.8 | 422.0 | 392.5 | 350.8 | 326.1 | 283.0 | 161.3 |
| 47.5° | 346.4 | 347.4 | 357.1 | 377.4 | 391.5 | 383.7 | 358.5 | 327.5 | 291.7 | 161.8 | 50.9  |
| 50°   | 298.9 | 298.0 | 298.5 | 303.3 | 314.4 | 325.1 | 317.4 | 300.4 | 173.9 | 47.5  | 6.3   |
| 52.5° | 131.3 | 145.8 | 161.3 | 204.9 | 233.1 | 262.6 | 268.4 | 188.0 | 56.7  | 6.3   | 6.3   |
| 55°   | 21.3  | 22.3  | 28.1  | 41.2  | 74.1  | 111.9 | 135.7 | 63.0  | 5.8   | 5.8   | 5.8   |
| 57.5° | 4.4   | 4.4   | 4.4   | 4.8   | 7.3   | 15.5  | 17.9  | 5.3   | 5.3   | 5.3   | 5.8   |
| 60°   | 3.9   | 3.9   | 3.9   | 3.9   | 4.4   | 4.4   | 4.4   | 4.8   | 4.8   | 5.3   | 5.3   |
| 62.5° | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 4.4   | 4.4   | 4.8   | 4.8   | 5.3   |
| 65°   | 3.4   | 3.4   | 3.4   | 3.4   | 3.9   | 3.9   | 3.9   | 3.9   | 4.4   | 4.4   | 4.8   |
| 67.5° | 2.9   | 2.9   | 2.9   | 2.9   | 3.4   | 3.4   | 3.4   | 3.9   | 3.9   | 3.9   | 4.4   |
| 70°   | 2.4   | 2.4   | 2.4   | 2.4   | 2.9   | 2.9   | 2.9   | 2.9   | 3.4   | 3.4   | 3.4   |
| 72.5° | 1.9   | 1.9   | 1.9   | 1.9   | 2.4   | 2.4   | 2.4   | 2.4   | 2.9   | 2.9   | 2.9   |
| 75°   | 1.5   | 1.5   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.4   | 2.4   | 2.4   |
| 77.5° | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.9   | 1.9   | 1.9   | 1.9   |
| 80°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 82.5° | 0.5   | 0.5   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   | 1.0   | 1.0   | 1.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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°    | 224.8 | 224.8 | 224.8 | 224.8 | 224.8  | 224.8 | 224.8  | 224.8 |
| 2.5°  | 271.8 | 265.0 | 255.8 | 225.8 | 198.2  | 173.0 | 160.4  | 158.9 |
| 5°    | 306.2 | 299.9 | 284.4 | 224.8 | 172.0  | 134.2 | 111.4  | 105.1 |
| 7.5°  | 319.3 | 314.0 | 300.4 | 222.9 | 147.3  | 96.4  | 70.7   | 61.0  |
| 10°   | 322.7 | 319.3 | 307.7 | 219.5 | 121.6  | 63.5  | 33.4   | 25.7  |
| 12.5° | 324.1 | 321.7 | 310.6 | 214.2 | 95.9   | 32.9  | 22.8   | 22.8  |
| 15°   | 326.6 | 324.1 | 313.5 | 207.4 | 70.7   | 22.3  | 21.8   | 21.8  |
| 17.5° | 337.2 | 329.5 | 317.4 | 197.2 | 46.5   | 21.3  | 21.3   | 21.3  |
| 20°   | 354.7 | 337.7 | 319.3 | 183.6 | 29.1   | 20.8  | 20.8   | 21.3  |
| 22.5° | 369.2 | 346.4 | 318.8 | 163.3 | 21.3   | 19.9  | 20.3   | 20.8  |
| 25°   | 375.5 | 350.3 | 314.4 | 139.1 | 18.4   | 19.4  | 20.3   | 20.3  |
| 27.5° | 374.5 | 351.8 | 310.6 | 111.4 | 17.4   | 18.9  | 19.9   | 20.8  |
| 30°   | 369.2 | 347.9 | 301.9 | 82.4  | 16.5   | 18.4  | 19.9   | 20.8  |
| 32.5° | 360.0 | 332.9 | 284.4 | 53.3  | 16.0   | 18.4  | 19.9   | 20.8  |
| 35°   | 330.0 | 308.6 | 259.2 | 25.7  | 15.5   | 17.9  | 20.3   | 20.8  |
| 37.5° | 312.5 | 283.0 | 197.7 | 12.6  | 15.0   | 17.9  | 20.3   | 20.8  |
| 40°   | 284.4 | 211.2 | 89.2  | 11.6  | 15.0   | 17.9  | 20.3   | 21.3  |
| 42.5° | 178.8 | 86.7  | 14.5  | 11.1  | 14.5   | 17.9  | 20.3   | 21.3  |
| 45°   | 65.4  | 11.6  | 7.8   | 11.1  | 14.5   | 17.4  | 20.3   | 21.3  |
| 47.5° | 6.8   | 6.8   | 7.3   | 10.7  | 14.1   | 17.4  | 20.3   | 21.3  |
| 50°   | 6.3   | 6.8   | 7.3   | 10.2  | 13.6   | 17.4  | 19.9   | 21.3  |
| 52.5° | 6.3   | 6.8   | 7.3   | 10.2  | 13.1   | 17.0  | 19.9   | 21.3  |
| 55°   | 6.3   | 6.8   | 6.8   | 9.7   | 12.6   | 16.5  | 19.4   | 20.3  |
| 57.5° | 5.8   | 6.3   | 6.8   | 9.2   | 12.1   | 15.5  | 18.9   | 19.9  |
| 60°   | 5.8   | 6.3   | 6.8   | 8.2   | 11.6   | 14.5  | 17.9   | 18.4  |
| 62.5° | 5.3   | 5.8   | 6.3   | 7.8   | 10.7   | 13.6  | 16.5   | 17.4  |
| 65°   | 5.3   | 5.3   | 5.8   | 6.8   | 9.7    | 12.1  | 15.0   | 16.0  |
| 67.5° | 4.4   | 4.8   | 4.8   | 5.8   | 8.2    | 10.7  | 13.6   | 14.5  |
| 70°   | 3.9   | 3.9   | 4.4   | 5.3   | 7.3    | 9.2   | 11.6   | 12.6  |
| 72.5° | 3.4   | 3.4   | 3.4   | 4.4   | 6.3    | 8.2   | 10.2   | 11.1  |
| 75°   | 2.9   | 2.9   | 2.9   | 3.4   | 5.3    | 6.8   | 8.7    | 9.2   |
| 77.5° | 2.4   | 2.4   | 2.4   | 2.9   | 4.4    | 5.8   | 6.8    | 7.8   |
| 80°   | 1.9   | 1.9   | 1.9   | 2.4   | 3.4    | 4.4   | 5.3    | 5.8   |
| 82.5° | 1.5   | 1.5   | 1.5   | 1.9   | 2.4    | 2.9   | 3.9    | 3.9   |
| 85°   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5    | 1.9   | 2.4    | 2.4   |
| 87.5° | 0.5   | 0.5   | 0.5   | 1.0   | 1.0    | 1.0   | 1.0    | 1.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)