

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: P1325450

Luminaire Tested: LDSQA3D05R60W2N902750DE010 3LSQCA30R 1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325450  
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: LDSQA3D05R60W2N902750DE010 3LSQCA30R 1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 3500K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

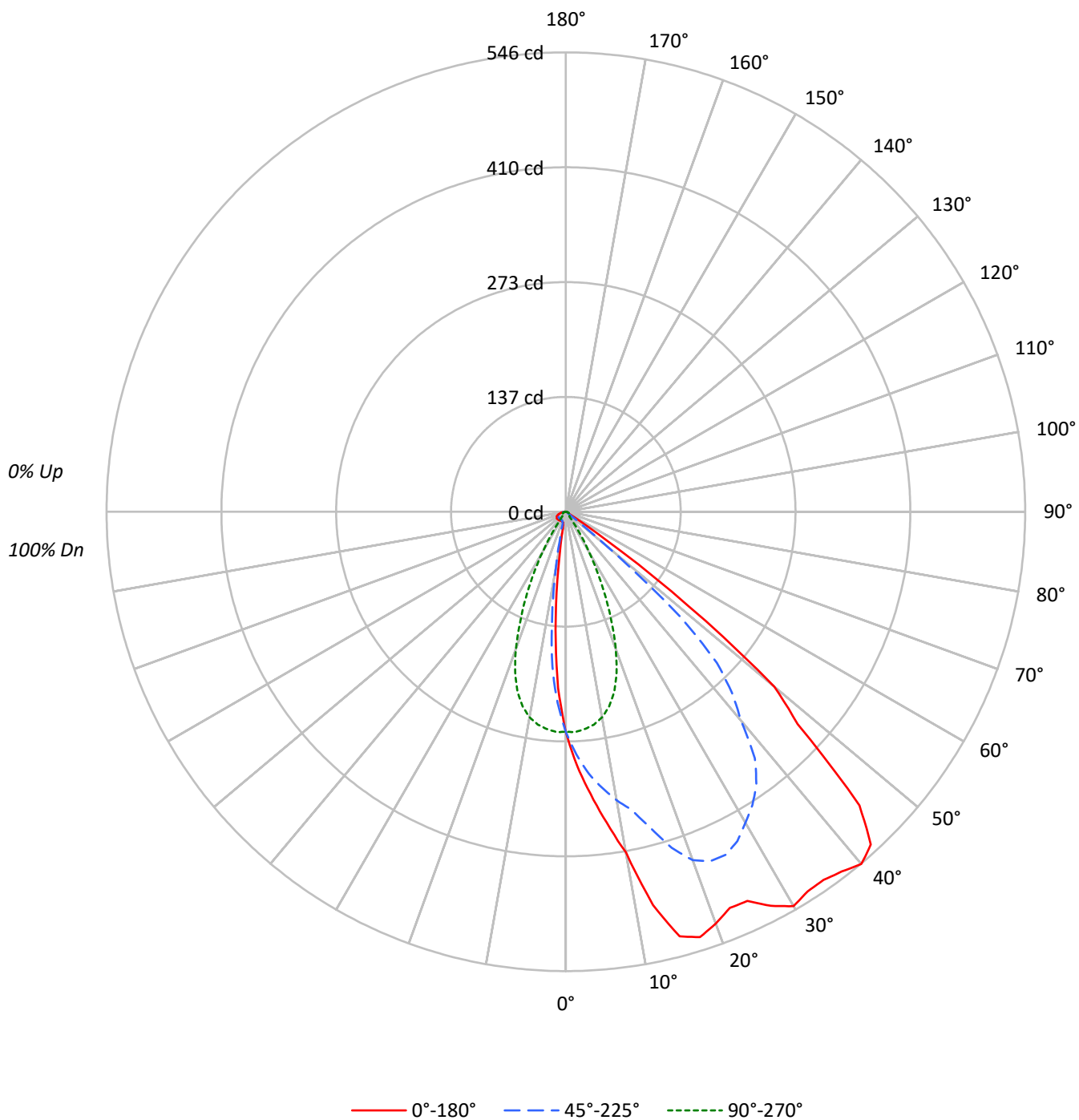
Lumens per Lamp: N/A  
Luminaire Lumens: 424.9 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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

TEST NUMBER: P1325450

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### Luminous Intensity Polar Plot



TEST NUMBER: P1325450

CATALOG NUMBER: LDSQA3D05R60W2N902750DE010 3LSQCA30R 1MW\_3500K

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 92  | 90  | 90  |
| 2   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 88  | 94  | 90  | 86  | 90  | 87  | 85  | 88  | 85  | 83  | 81  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  | 65  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  | 58  |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 52  | 52  |
| 7   | 74  | 63  | 55  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 49  | 58  | 53  | 49  | 47  | 47  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  | 43  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 41  | 38  | 36  | 36  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 45053  | 45053 | 45053 | 45053 | 45053 |
| 5°  | 58209  | 54042 | 44811 | 31914 | 24342 |
| 10° | 71928  | 60911 | 43370 | 12067 | 3585  |
| 15° | 93143  | 69322 | 39564 | 2639  | 2354  |
| 20° | 95450  | 80751 | 31835 | 2199  | 2273  |
| 25° | 96990  | 85474 | 21359 | 2128  | 2280  |
| 30° | 107646 | 84896 | 11017 | 2148  | 2386  |
| 35° | 112292 | 83005 | 3028  | 2271  | 2607  |
| 40° | 122865 | 72797 | 1439  | 2428  | 2878  |
| 45° | 120197 | 61864 | 1461  | 2630  | 3215  |
| 50° | 86649  | 15272 | 1608  | 2894  | 3537  |
| 55° | 16634  | 961   | 1681  | 3123  | 3963  |
| 60° | 827    | 964   | 1653  | 3307  | 4271  |
| 65° | 815    | 978   | 1630  | 3423  | 4564  |
| 70° | 806    | 1007  | 1611  | 3424  | 4633  |
| 75° | 799    | 1065  | 1597  | 3460  | 4791  |
| 80° | 397    | 1190  | 1587  | 3570  | 4761  |
| 85° | 790    | 790   | 1581  | 3162  | 4742  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 120197 cd/sqm

TEST NUMBER: P1325450

CATALOG NUMBER: LDSQA3D05R60W2N902750DE010 3LSQCA30R 1MW\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 22.7   | 5.4       |
| 10°-20°   | 62.8   | 14.8      |
| 20°-30°   | 96.7   | 22.8      |
| 30°-40°   | 113.4  | 26.7      |
| 40°-50°   | 90.9   | 21.4      |
| 50°-60°   | 28.2   | 6.6       |
| 60°-70°   | 5.3    | 1.3       |
| 70°-80°   | 3.5    | 0.8       |
| 80°-90°   | 1.2    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 182.2  | 42.9      |
| 0°-40°    | 295.7  | 69.6      |
| 0°-60°    | 414.8  | 97.6      |
| 0°-90°    | 424.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 424.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 262 | 262 | 262 | 262  | 262  |      |
| 5°  | 337 | 313 | 259 | 185  | 141  | 34   |
| 15° | 522 | 389 | 222 | 15   | 13   | 143  |
| 25° | 510 | 450 | 112 | 11   | 12   | 241  |
| 35° | 534 | 395 | 14  | 11   | 12   | 338  |
| 45° | 494 | 254 | 6   | 11   | 13   | 353  |
| 55° | 55  | 3   | 6   | 10   | 13   | 88   |
| 65° | 2   | 2   | 4   | 8    | 11   | 2    |
| 75° | 1   | 2   | 2   | 5    | 7    | 1    |
| 85° | 0   | 0   | 1   | 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°    | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 | 261.6 |
| 2.5°  | 301.7 | 298.5 | 298.5 | 297.3 | 296.1 | 296.5 | 293.3 | 294.5 | 291.3 | 288.9 | 286.9 |
| 5°    | 336.7 | 332.6 | 332.2 | 330.2 | 328.2 | 326.6 | 322.6 | 320.2 | 315.4 | 312.6 | 306.6 |
| 7.5°  | 372.8 | 369.6 | 367.5 | 365.1 | 361.5 | 357.5 | 350.7 | 346.3 | 338.7 | 331.0 | 323.4 |
| 10°   | 411.3 | 408.5 | 404.1 | 401.3 | 391.2 | 384.8 | 375.6 | 369.6 | 358.3 | 348.3 | 336.7 |
| 12.5° | 478.7 | 477.1 | 468.7 | 463.0 | 448.6 | 435.8 | 415.7 | 399.6 | 379.6 | 363.1 | 347.5 |
| 15°   | 522.4 | 520.4 | 516.0 | 510.8 | 501.6 | 487.1 | 469.1 | 446.6 | 418.5 | 388.8 | 362.3 |
| 17.5° | 530.1 | 530.5 | 527.6 | 526.4 | 520.4 | 511.2 | 496.8 | 479.9 | 451.8 | 418.9 | 382.8 |
| 20°   | 520.8 | 524.0 | 523.2 | 525.6 | 526.8 | 523.2 | 513.6 | 497.2 | 472.7 | 440.6 | 400.0 |
| 22.5° | 509.6 | 512.4 | 511.6 | 516.0 | 522.8 | 526.4 | 523.2 | 510.0 | 485.1 | 449.4 | 409.7 |
| 25°   | 510.4 | 512.4 | 506.4 | 509.2 | 518.0 | 526.8 | 527.2 | 515.6 | 488.7 | 449.8 | 408.9 |
| 27.5° | 528.0 | 522.0 | 508.4 | 507.2 | 518.0 | 529.3 | 530.1 | 515.6 | 483.5 | 441.4 | 400.9 |
| 30°   | 541.3 | 536.9 | 521.6 | 519.6 | 530.1 | 537.7 | 533.7 | 511.2 | 471.1 | 426.9 | 389.2 |
| 32.5° | 534.9 | 535.7 | 529.3 | 535.7 | 549.3 | 552.5 | 535.7 | 500.8 | 453.8 | 412.9 | 375.6 |
| 35°   | 534.1 | 537.3 | 540.9 | 550.9 | 560.1 | 552.5 | 525.6 | 481.1 | 435.4 | 394.8 | 354.3 |
| 37.5° | 538.9 | 544.1 | 549.3 | 558.1 | 558.1 | 538.5 | 499.2 | 456.2 | 413.3 | 369.2 | 310.2 |
| 40°   | 546.5 | 549.7 | 551.3 | 550.5 | 539.7 | 510.8 | 469.1 | 426.1 | 385.2 | 323.8 | 280.9 |
| 42.5° | 536.5 | 536.1 | 534.5 | 527.6 | 507.6 | 469.9 | 430.9 | 396.0 | 331.4 | 292.1 | 243.2 |
| 45°   | 493.5 | 493.5 | 489.1 | 478.3 | 459.8 | 428.5 | 394.0 | 343.1 | 302.1 | 254.0 | 180.6 |
| 47.5° | 373.6 | 370.8 | 375.6 | 382.0 | 382.0 | 379.2 | 347.9 | 303.7 | 262.0 | 183.4 | 57.8  |
| 50°   | 323.4 | 319.0 | 313.0 | 314.2 | 313.4 | 316.6 | 296.5 | 263.2 | 193.8 | 57.0  | 4.0   |
| 52.5° | 183.0 | 191.0 | 210.7 | 238.3 | 250.8 | 255.2 | 242.8 | 200.2 | 65.4  | 3.6   | 3.2   |
| 55°   | 55.4  | 57.0  | 64.6  | 79.4  | 107.9 | 138.0 | 140.0 | 65.0  | 4.4   | 3.2   | 3.2   |
| 57.5° | 2.4   | 2.4   | 3.2   | 4.8   | 11.2  | 16.9  | 18.1  | 4.0   | 2.8   | 3.2   | 3.2   |
| 60°   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.8   | 2.8   | 2.8   | 2.8   | 3.2   |
| 62.5° | 2.0   | 2.0   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.8   | 2.8   | 2.8   |
| 65°   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.4   | 2.4   | 2.4   | 2.4   | 2.8   |
| 67.5° | 1.6   | 1.6   | 1.6   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.4   | 2.4   | 2.4   |
| 70°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.0   | 2.0   | 2.0   | 2.0   |
| 72.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 2.0   |
| 75°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.6   | 1.6   | 1.6   | 1.6   |
| 77.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 80°   | 0.4   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 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°    | 261.6 | 261.6 | 261.6 | 261.6 | 261.6  | 261.6 | 261.6  | 261.6 |
| 2.5°  | 284.1 | 280.9 | 277.3 | 262.0 | 247.2  | 227.1 | 213.5  | 209.5 |
| 5°    | 301.3 | 296.1 | 288.1 | 259.2 | 224.3  | 184.6 | 152.5  | 140.8 |
| 7.5°  | 315.8 | 307.8 | 296.5 | 255.2 | 197.0  | 125.2 | 80.7   | 68.2  |
| 10°   | 326.2 | 316.2 | 301.7 | 248.0 | 160.9  | 69.0  | 27.3   | 20.5  |
| 12.5° | 335.0 | 321.8 | 304.6 | 237.1 | 117.2  | 28.1  | 14.0   | 14.0  |
| 15°   | 341.1 | 325.0 | 305.8 | 221.9 | 75.8   | 14.8  | 13.2   | 13.2  |
| 17.5° | 349.5 | 328.6 | 305.8 | 200.6 | 41.3   | 12.8  | 12.8   | 12.8  |
| 20°   | 363.1 | 332.2 | 301.3 | 173.7 | 22.9   | 12.0  | 12.4   | 12.4  |
| 22.5° | 370.4 | 337.5 | 295.7 | 142.4 | 14.4   | 11.6  | 12.0   | 12.0  |
| 25°   | 372.0 | 336.7 | 283.7 | 112.4 | 11.6   | 11.2  | 11.6   | 12.0  |
| 27.5° | 366.3 | 331.0 | 267.6 | 81.9  | 10.4   | 10.8  | 11.6   | 12.0  |
| 30°   | 356.3 | 317.4 | 242.0 | 55.4  | 9.6    | 10.8  | 11.6   | 12.0  |
| 32.5° | 337.5 | 284.5 | 211.9 | 33.3  | 9.2    | 10.8  | 11.6   | 12.4  |
| 35°   | 295.3 | 250.0 | 177.4 | 14.4  | 8.8    | 10.8  | 12.0   | 12.4  |
| 37.5° | 264.8 | 215.5 | 137.2 | 7.2   | 8.8    | 10.8  | 12.0   | 12.8  |
| 40°   | 231.1 | 173.3 | 63.4  | 6.4   | 8.8    | 10.8  | 12.0   | 12.8  |
| 42.5° | 176.2 | 80.3  | 7.6   | 6.4   | 8.4    | 10.8  | 12.4   | 12.8  |
| 45°   | 64.2  | 8.4   | 4.0   | 6.0   | 8.4    | 10.8  | 12.4   | 13.2  |
| 47.5° | 4.8   | 3.2   | 3.6   | 6.0   | 8.4    | 10.8  | 12.4   | 13.2  |
| 50°   | 3.2   | 3.2   | 3.6   | 6.0   | 8.4    | 10.8  | 12.4   | 13.2  |
| 52.5° | 3.2   | 3.6   | 3.6   | 5.6   | 8.0    | 10.8  | 12.4   | 13.2  |
| 55°   | 3.2   | 3.6   | 3.6   | 5.6   | 8.0    | 10.4  | 12.4   | 13.2  |
| 57.5° | 3.2   | 3.2   | 3.6   | 5.2   | 7.6    | 10.0  | 12.4   | 12.8  |
| 60°   | 3.2   | 3.2   | 3.6   | 4.8   | 7.2    | 9.6   | 11.6   | 12.4  |
| 62.5° | 3.2   | 3.2   | 3.2   | 4.4   | 6.8    | 9.2   | 11.2   | 12.0  |
| 65°   | 2.8   | 2.8   | 3.2   | 4.0   | 6.0    | 8.4   | 10.4   | 11.2  |
| 67.5° | 2.4   | 2.8   | 2.8   | 3.6   | 5.6    | 7.6   | 9.6    | 10.4  |
| 70°   | 2.4   | 2.4   | 2.4   | 3.2   | 4.8    | 6.8   | 8.8    | 9.2   |
| 72.5° | 2.0   | 2.0   | 2.4   | 2.8   | 4.4    | 6.0   | 8.0    | 8.4   |
| 75°   | 1.6   | 2.0   | 2.0   | 2.4   | 3.6    | 5.2   | 6.8    | 7.2   |
| 77.5° | 1.6   | 1.6   | 1.6   | 2.0   | 3.2    | 4.4   | 5.6    | 6.0   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.6   | 2.4    | 3.6   | 4.4    | 4.8   |
| 82.5° | 0.8   | 1.2   | 1.2   | 1.2   | 2.0    | 2.4   | 3.2    | 3.6   |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 1.2    | 1.6   | 2.0    | 2.4   |
| 87.5° | 0.4   | 0.4   | 0.8   | 0.8   | 0.8    | 0.8   | 0.8    | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)