

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: P1327168

Luminaire Tested: LDSQA3D09R65W2N902765DE010 3LSQCA30R 1MW\_6500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R65W2N902765DE010 3LSQCA30R 1MW\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R65 optic, 6500K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

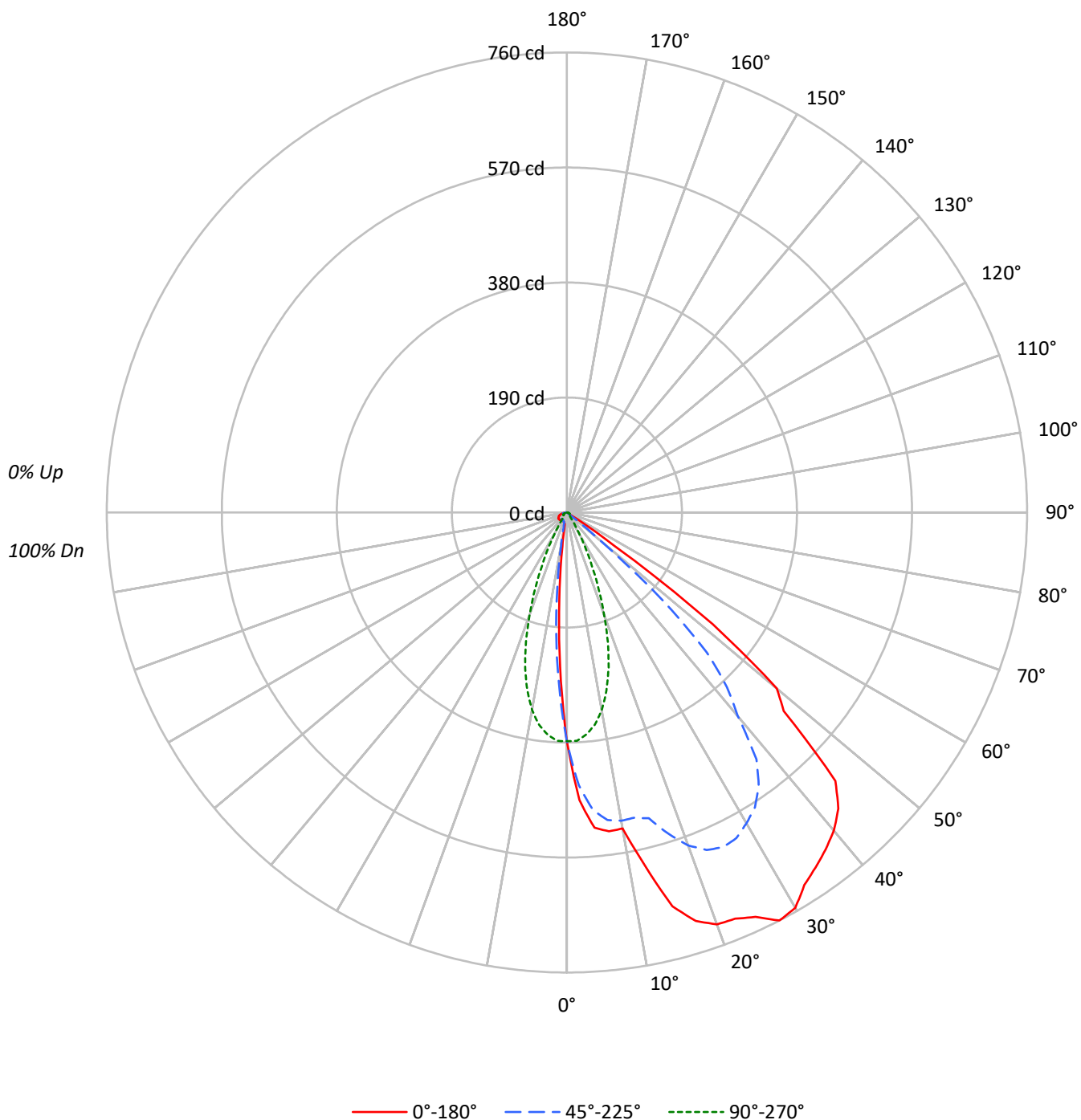
Lumens per Lamp: N/A  
Luminaire Lumens: 566.0 lumens  
Efficiency: N/A  
Efficacy: 62.9 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P1327168

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### Luminous Intensity Polar Plot



TEST NUMBER: P1327168

CATALOG NUMBER: LDSQA3D09R65W2N902765DE010 3LSQCA30R 1MW\_6500K

**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 | 10 |
| 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  | 90  | 102 | 97  | 92  | 88  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 81  | 77  | 74  | 72  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 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  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 65031  | 65031  | 65031 | 65031 | 65031 |
| 5°  | 90399  | 85317  | 63655 | 34974 | 24601 |
| 10° | 92686  | 90413  | 57920 | 9776  | 3603  |
| 15° | 120084 | 93232  | 47409 | 3138  | 3049  |
| 20° | 132710 | 107253 | 32990 | 2804  | 2914  |
| 25° | 140050 | 115916 | 18661 | 2679  | 2907  |
| 30° | 149965 | 117907 | 8412  | 2685  | 3043  |
| 35° | 150493 | 116118 | 2712  | 2838  | 3343  |
| 40° | 154182 | 98651  | 1844  | 3035  | 3710  |
| 45° | 152712 | 79498  | 1851  | 3288  | 4019  |
| 50° | 121185 | 18755  | 1902  | 3617  | 4582  |
| 55° | 28795  | 1051   | 1952  | 4054  | 5134  |
| 60° | 999    | 1206   | 2239  | 4271  | 5477  |
| 65° | 1182   | 1182   | 2160  | 4564  | 5990  |
| 70° | 906    | 1209   | 2065  | 4431  | 6244  |
| 75° | 799    | 1198   | 1930  | 4724  | 6255  |
| 80° | 595    | 1190   | 2380  | 4661  | 6447  |
| 85° | 1186   | 2371   | 2371  | 4742  | 5730  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 45°

Luminance: 153004 cd/sqm

TEST NUMBER: P1327168

CATALOG NUMBER: LDSQA3D09R65W2N902765DE010 3LSQCA30R 1MW\_6500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 31.5   | 5.6       |
| 10°-20°   | 83.0   | 14.7      |
| 20°-30°   | 130.4  | 23.0      |
| 30°-40°   | 149.1  | 26.3      |
| 40°-50°   | 119.9  | 21.2      |
| 50°-60°   | 39.0   | 6.9       |
| 60°-70°   | 6.9    | 1.2       |
| 70°-80°   | 4.6    | 0.8       |
| 80°-90°   | 1.7    | 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°    | 244.9  | 43.3      |
| 0°-40°    | 394.0  | 69.6      |
| 0°-60°    | 552.9  | 97.7      |
| 0°-90°    | 566.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 566.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 378 | 378 | 378 | 378  | 378  |      |
| 5°  | 523 | 494 | 368 | 202  | 142  | 49   |
| 15° | 674 | 523 | 266 | 18   | 17   | 188  |
| 25° | 737 | 610 | 98  | 14   | 15   | 343  |
| 35° | 716 | 552 | 13  | 14   | 16   | 450  |
| 45° | 627 | 326 | 8   | 14   | 16   | 451  |
| 55° | 96  | 4   | 6   | 14   | 17   | 137  |
| 65° | 3   | 3   | 5   | 11   | 15   | 3    |
| 75° | 1   | 2   | 3   | 7    | 9    | 1    |
| 85° | 1   | 1   | 1   | 2    | 3    | 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°    | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 | 377.6 |
| 2.5°  | 475.3 | 473.5 | 475.8 | 471.7 | 471.1 | 467.0 | 464.7 | 463.5 | 458.2 | 451.1 | 444.7 |
| 5°    | 522.9 | 515.8 | 517.6 | 517.0 | 514.1 | 512.3 | 510.0 | 507.0 | 500.0 | 493.5 | 485.3 |
| 7.5°  | 531.1 | 525.3 | 526.4 | 527.0 | 525.3 | 524.7 | 524.1 | 522.9 | 518.2 | 512.3 | 505.3 |
| 10°   | 530.0 | 524.1 | 523.5 | 521.7 | 520.0 | 520.5 | 520.5 | 520.5 | 519.4 | 517.0 | 514.7 |
| 12.5° | 598.2 | 590.0 | 588.2 | 575.8 | 564.7 | 545.3 | 532.9 | 521.1 | 515.8 | 516.4 | 514.7 |
| 15°   | 673.5 | 672.9 | 667.0 | 655.2 | 636.4 | 618.8 | 590.5 | 569.4 | 542.3 | 522.9 | 514.7 |
| 17.5° | 707.6 | 707.0 | 701.7 | 691.7 | 678.2 | 661.7 | 641.1 | 616.4 | 586.4 | 556.4 | 531.7 |
| 20°   | 724.1 | 728.2 | 722.3 | 714.1 | 701.1 | 685.8 | 666.4 | 644.1 | 615.8 | 585.2 | 555.8 |
| 22.5° | 726.4 | 731.7 | 726.4 | 720.5 | 711.1 | 701.1 | 684.7 | 661.7 | 632.9 | 603.5 | 574.7 |
| 25°   | 737.0 | 738.8 | 727.6 | 719.9 | 711.1 | 704.1 | 691.1 | 671.1 | 641.7 | 610.0 | 581.7 |
| 27.5° | 759.9 | 752.3 | 728.8 | 718.2 | 709.9 | 703.5 | 691.1 | 670.5 | 638.8 | 606.4 | 577.0 |
| 30°   | 754.1 | 751.1 | 730.5 | 720.5 | 713.5 | 707.0 | 691.7 | 665.2 | 627.0 | 592.9 | 562.3 |
| 32.5° | 729.9 | 735.8 | 728.8 | 725.2 | 721.7 | 713.5 | 691.1 | 655.2 | 612.3 | 577.6 | 536.4 |
| 35°   | 715.8 | 722.9 | 723.5 | 723.5 | 719.4 | 707.0 | 680.5 | 640.5 | 597.6 | 552.3 | 497.0 |
| 37.5° | 701.7 | 707.6 | 711.1 | 713.5 | 707.6 | 689.9 | 656.4 | 620.5 | 573.5 | 514.1 | 417.0 |
| 40°   | 685.8 | 689.9 | 692.9 | 694.1 | 685.2 | 662.3 | 631.7 | 591.1 | 538.2 | 438.8 | 372.3 |
| 42.5° | 663.5 | 665.8 | 665.2 | 664.7 | 655.2 | 630.0 | 601.1 | 558.8 | 454.1 | 391.1 | 310.6 |
| 45°   | 627.0 | 624.7 | 628.2 | 628.2 | 615.8 | 597.0 | 558.8 | 476.4 | 406.4 | 326.4 | 200.0 |
| 47.5° | 485.8 | 487.6 | 504.7 | 532.3 | 549.4 | 544.1 | 492.3 | 417.0 | 341.7 | 214.1 | 66.5  |
| 50°   | 452.3 | 450.6 | 451.1 | 454.1 | 455.8 | 441.1 | 404.1 | 352.3 | 225.9 | 70.0  | 4.7   |
| 52.5° | 303.5 | 305.3 | 318.8 | 350.0 | 360.0 | 349.4 | 314.1 | 235.3 | 82.3  | 4.7   | 4.1   |
| 55°   | 95.9  | 102.3 | 110.0 | 126.5 | 155.3 | 173.5 | 170.0 | 83.5  | 5.3   | 3.5   | 4.1   |
| 57.5° | 3.5   | 3.5   | 4.7   | 8.2   | 15.9  | 25.9  | 27.1  | 5.3   | 4.1   | 4.1   | 4.1   |
| 60°   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| 62.5° | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 3.5   | 3.5   | 3.5   | 3.5   |
| 65°   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 3.5   |
| 67.5° | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.9   | 2.9   | 2.9   | 2.9   |
| 70°   | 1.8   | 1.8   | 1.8   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.9   |
| 72.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.4   | 2.4   | 2.4   |
| 75°   | 1.2   | 1.2   | 1.2   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 77.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.8   | 1.8   | 1.8   |
| 80°   | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.8   |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   | 1.2   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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°    | 377.6 | 377.6 | 377.6 | 377.6 | 377.6  | 377.6 | 377.6  | 377.6 |
| 2.5°  | 441.1 | 434.1 | 420.0 | 377.6 | 333.5  | 289.4 | 261.7  | 254.7 |
| 5°    | 475.8 | 467.6 | 447.6 | 368.2 | 278.8  | 202.3 | 158.8  | 142.3 |
| 7.5°  | 497.0 | 487.0 | 463.5 | 353.5 | 217.0  | 117.6 | 70.6   | 56.5  |
| 10°   | 506.4 | 497.6 | 471.1 | 331.2 | 157.0  | 55.9  | 24.7   | 20.6  |
| 12.5° | 510.5 | 503.5 | 474.1 | 301.7 | 102.3  | 24.7  | 18.2   | 17.6  |
| 15°   | 512.3 | 504.7 | 472.9 | 265.9 | 58.2   | 17.6  | 17.1   | 17.1  |
| 17.5° | 514.1 | 505.3 | 465.8 | 224.7 | 32.4   | 16.5  | 15.9   | 16.5  |
| 20°   | 528.2 | 502.9 | 453.5 | 180.0 | 21.2   | 15.3  | 15.3   | 15.9  |
| 22.5° | 542.3 | 502.3 | 431.7 | 137.6 | 16.5   | 14.7  | 15.3   | 15.3  |
| 25°   | 547.0 | 496.4 | 404.1 | 98.2  | 14.1   | 14.1  | 14.7   | 15.3  |
| 27.5° | 538.2 | 479.4 | 367.0 | 66.5  | 12.4   | 14.1  | 14.7   | 15.3  |
| 30°   | 517.6 | 450.6 | 322.3 | 42.3  | 11.8   | 13.5  | 14.7   | 15.3  |
| 32.5° | 479.4 | 393.5 | 272.3 | 25.3  | 11.2   | 13.5  | 15.3   | 15.3  |
| 35°   | 402.9 | 330.0 | 215.9 | 12.9  | 11.2   | 13.5  | 15.3   | 15.9  |
| 37.5° | 352.3 | 275.3 | 150.6 | 8.8   | 11.2   | 13.5  | 15.3   | 15.9  |
| 40°   | 292.3 | 198.8 | 62.9  | 8.2   | 11.2   | 13.5  | 15.3   | 16.5  |
| 42.5° | 202.3 | 86.5  | 10.0  | 7.6   | 10.6   | 13.5  | 15.9   | 16.5  |
| 45°   | 72.9  | 11.2  | 4.7   | 7.6   | 10.6   | 13.5  | 15.9   | 16.5  |
| 47.5° | 6.5   | 4.1   | 4.7   | 7.6   | 10.6   | 13.5  | 15.9   | 17.1  |
| 50°   | 4.1   | 4.1   | 4.1   | 7.1   | 10.6   | 13.5  | 15.9   | 17.1  |
| 52.5° | 4.1   | 4.1   | 4.1   | 7.1   | 10.0   | 13.5  | 16.5   | 17.1  |
| 55°   | 4.1   | 4.1   | 4.1   | 6.5   | 10.0   | 13.5  | 15.9   | 17.1  |
| 57.5° | 4.1   | 4.1   | 4.7   | 6.5   | 10.0   | 12.9  | 15.9   | 16.5  |
| 60°   | 4.1   | 4.1   | 4.1   | 6.5   | 9.4    | 12.4  | 15.3   | 15.9  |
| 62.5° | 3.5   | 4.1   | 4.1   | 5.9   | 8.8    | 11.8  | 14.7   | 15.3  |
| 65°   | 3.5   | 3.5   | 4.1   | 5.3   | 8.2    | 11.2  | 13.5   | 14.7  |
| 67.5° | 2.9   | 3.5   | 3.5   | 4.7   | 7.1    | 10.0  | 12.4   | 13.5  |
| 70°   | 2.9   | 2.9   | 2.9   | 4.1   | 6.5    | 8.8   | 11.8   | 12.4  |
| 72.5° | 2.4   | 2.9   | 2.9   | 3.5   | 5.3    | 7.6   | 10.0   | 11.2  |
| 75°   | 2.4   | 2.4   | 2.4   | 2.9   | 4.7    | 7.1   | 8.8    | 9.4   |
| 77.5° | 1.8   | 1.8   | 2.4   | 2.4   | 4.1    | 5.3   | 7.6    | 8.2   |
| 80°   | 1.8   | 1.8   | 1.8   | 2.4   | 2.9    | 4.7   | 5.9    | 6.5   |
| 82.5° | 1.2   | 1.2   | 1.2   | 1.8   | 2.4    | 2.9   | 4.1    | 4.7   |
| 85°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.8    | 2.4   | 2.9    | 2.9   |
| 87.5° | 0.6   | 0.6   | 0.6   | 1.2   | 1.2    | 1.2   | 1.2    | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)