

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: IRiS

Report Number: P1305816

Luminaire Tested: P3SQASS09R609024DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305816  
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: IRiS  
Catalog Number: P3SQASS09R609024DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

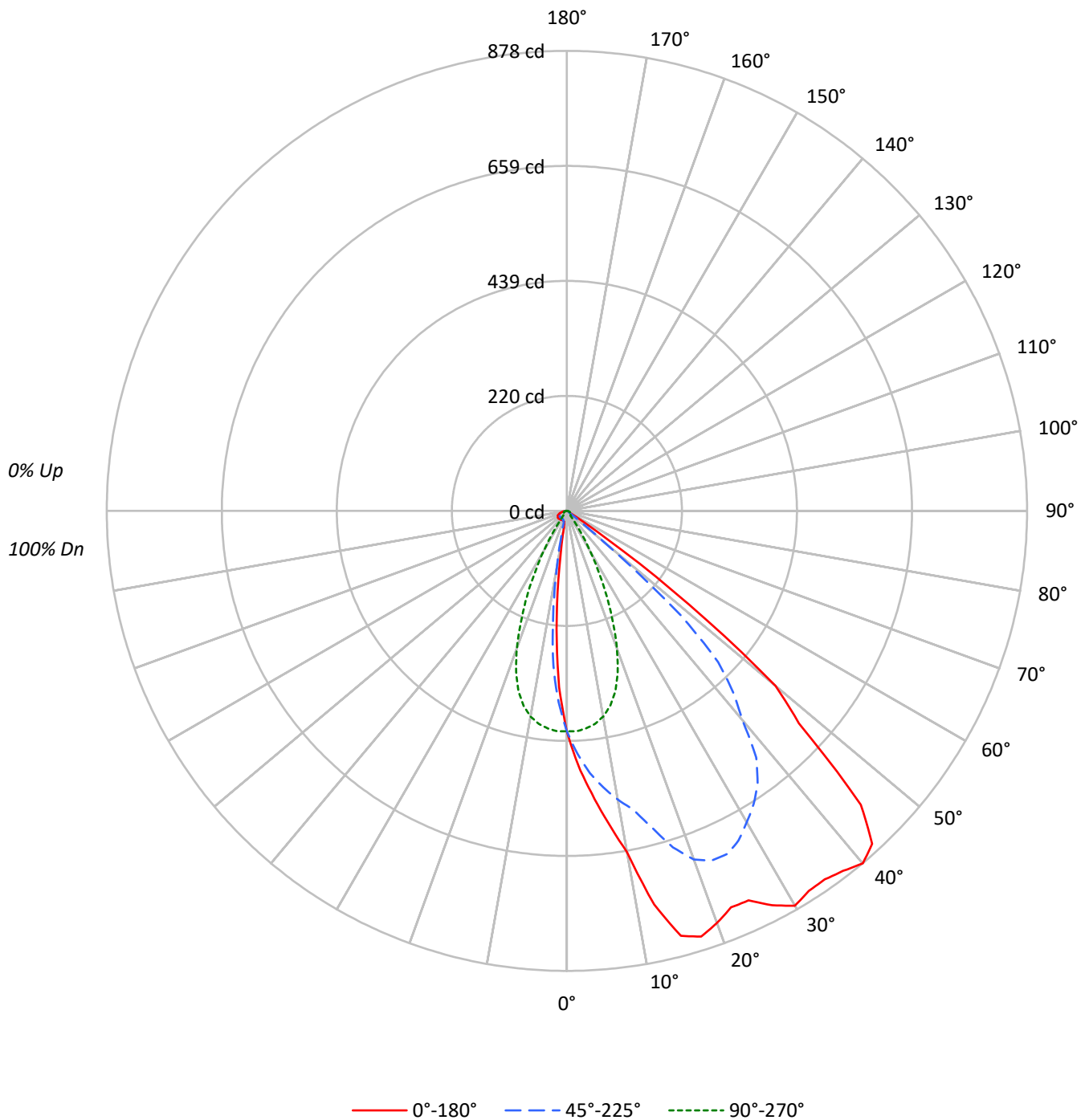
Lumens per Lamp: N/A  
Luminaire Lumens: 683.0 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (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: P1305816

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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 |
| 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  | 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°  | 72402  | 72402  | 72402 | 72402 | 72402 |
| 5°  | 93528  | 86838  | 72022 | 51276 | 39123 |
| 10° | 115595 | 97880  | 69689 | 19394 | 5754  |
| 15° | 149699 | 111401 | 63581 | 4261  | 3798  |
| 20° | 153402 | 129759 | 51171 | 3537  | 3666  |
| 25° | 155860 | 137370 | 34319 | 3439  | 3668  |
| 30° | 172993 | 136442 | 17699 | 3460  | 3838  |
| 35° | 180453 | 133400 | 4878  | 3658  | 4205  |
| 40° | 197460 | 116997 | 2316  | 3912  | 4631  |
| 45° | 193167 | 99421  | 2363  | 4238  | 5188  |
| 50° | 139244 | 24542  | 2599  | 4662  | 5707  |
| 55° | 26723  | 1561   | 2702  | 5044  | 6396  |
| 60° | 1343   | 1550   | 2652  | 5339  | 6889  |
| 65° | 1304   | 1589   | 2608  | 5501  | 7376  |
| 70° | 1309   | 1611   | 2618  | 5539  | 7452  |
| 75° | 1264   | 1730   | 2595  | 5590  | 7719  |
| 80° | 595    | 1884   | 2579  | 5752  | 7637  |
| 85° | 1186   | 1186   | 2569  | 5138  | 7707  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 193167 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.6   | 5.4       |
| 10°-20°   | 100.9  | 14.8      |
| 20°-30°   | 155.4  | 22.7      |
| 30°-40°   | 182.3  | 26.7      |
| 40°-50°   | 146.2  | 21.4      |
| 50°-60°   | 45.4   | 6.6       |
| 60°-70°   | 8.6    | 1.3       |
| 70°-80°   | 5.7    | 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°    | 292.9  | 42.9      |
| 0°-40°    | 475.2  | 69.6      |
| 0°-60°    | 666.7  | 97.6      |
| 0°-90°    | 683.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 683.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 420 | 420 | 420 | 420  | 420  |      |
| 5°  | 541 | 502 | 417 | 297  | 226  | 55   |
| 15° | 840 | 625 | 357 | 24   | 21   | 230  |
| 25° | 820 | 723 | 181 | 18   | 19   | 387  |
| 35° | 858 | 634 | 23  | 17   | 20   | 543  |
| 45° | 793 | 408 | 10  | 17   | 21   | 568  |
| 55° | 89  | 5   | 9   | 17   | 21   | 141  |
| 65° | 3   | 4   | 6   | 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°    | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 | 420.4 |
| 2.5°  | 484.9 | 479.8 | 479.8 | 477.8 | 475.9 | 476.5 | 471.4 | 473.3 | 468.2 | 464.3 | 461.1 |
| 5°    | 541.0 | 534.6 | 533.9 | 530.7 | 527.5 | 524.9 | 518.4 | 514.6 | 506.8 | 502.3 | 492.7 |
| 7.5°  | 599.1 | 593.9 | 590.7 | 586.8 | 581.0 | 574.5 | 563.6 | 556.5 | 544.2 | 532.0 | 519.7 |
| 10°   | 661.0 | 656.4 | 649.4 | 644.8 | 628.7 | 618.4 | 603.6 | 593.9 | 575.8 | 559.7 | 541.0 |
| 12.5° | 769.3 | 766.7 | 753.2 | 744.1 | 720.9 | 700.3 | 668.1 | 642.3 | 610.0 | 583.6 | 558.4 |
| 15°   | 839.6 | 836.4 | 829.3 | 820.9 | 806.0 | 782.8 | 753.8 | 717.7 | 672.6 | 624.8 | 582.3 |
| 17.5° | 851.8 | 852.5 | 848.0 | 846.0 | 836.4 | 821.5 | 798.3 | 771.2 | 726.1 | 673.2 | 615.2 |
| 20°   | 837.0 | 842.2 | 840.9 | 844.7 | 846.7 | 840.9 | 825.4 | 799.0 | 759.6 | 708.0 | 642.9 |
| 22.5° | 818.9 | 823.5 | 822.2 | 829.3 | 840.2 | 846.0 | 840.9 | 819.6 | 779.6 | 722.2 | 658.4 |
| 25°   | 820.2 | 823.5 | 813.8 | 818.3 | 832.5 | 846.7 | 847.3 | 828.6 | 785.4 | 722.9 | 657.1 |
| 27.5° | 848.6 | 838.9 | 817.0 | 815.1 | 832.5 | 850.5 | 851.8 | 828.6 | 777.0 | 709.3 | 644.2 |
| 30°   | 869.9 | 862.8 | 838.3 | 835.1 | 851.8 | 864.1 | 857.6 | 821.5 | 757.0 | 686.1 | 625.5 |
| 32.5° | 859.6 | 860.9 | 850.5 | 860.9 | 882.8 | 887.9 | 860.9 | 804.8 | 729.3 | 663.5 | 603.6 |
| 35°   | 858.3 | 863.4 | 869.2 | 885.4 | 900.2 | 887.9 | 844.7 | 773.2 | 699.6 | 634.5 | 569.4 |
| 37.5° | 866.0 | 874.4 | 882.8 | 897.0 | 897.0 | 865.4 | 802.2 | 733.2 | 664.2 | 593.3 | 498.5 |
| 40°   | 878.3 | 883.4 | 886.0 | 884.7 | 867.3 | 820.9 | 753.8 | 684.8 | 619.0 | 520.4 | 451.4 |
| 42.5° | 862.1 | 861.5 | 858.9 | 848.0 | 815.7 | 755.1 | 692.6 | 636.5 | 532.6 | 469.4 | 390.8 |
| 45°   | 793.1 | 793.1 | 786.1 | 768.6 | 739.0 | 688.7 | 633.2 | 551.3 | 485.6 | 408.2 | 290.2 |
| 47.5° | 600.3 | 595.8 | 603.6 | 613.9 | 613.9 | 609.4 | 559.1 | 488.1 | 421.1 | 294.7 | 92.9  |
| 50°   | 519.7 | 512.6 | 503.0 | 504.9 | 503.6 | 508.8 | 476.5 | 423.0 | 311.5 | 91.6  | 6.4   |
| 52.5° | 294.0 | 306.9 | 338.5 | 383.0 | 403.0 | 410.1 | 390.1 | 321.8 | 105.1 | 5.8   | 5.2   |
| 55°   | 89.0  | 91.6  | 103.8 | 127.7 | 173.5 | 221.8 | 225.0 | 104.5 | 7.1   | 5.2   | 5.2   |
| 57.5° | 3.9   | 3.9   | 5.2   | 7.7   | 18.1  | 27.1  | 29.0  | 6.4   | 4.5   | 5.2   | 5.2   |
| 60°   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 4.5   | 4.5   | 4.5   | 4.5   | 5.2   |
| 62.5° | 3.2   | 3.2   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 4.5   | 4.5   | 4.5   |
| 65°   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.9   | 3.9   | 3.9   | 3.9   | 4.5   |
| 67.5° | 2.6   | 2.6   | 2.6   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.9   | 3.9   | 3.9   |
| 70°   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.2   | 3.2   | 3.2   | 3.2   |
| 72.5° | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.2   |
| 75°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.6   | 2.6   | 2.6   | 2.6   |
| 77.5° | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 80°   | 0.6   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.9   | 1.9   |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 1.3   |
| 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°    | 420.4 | 420.4 | 420.4 | 420.4 | 420.4  | 420.4 | 420.4  | 420.4 |
| 2.5°  | 456.5 | 451.4 | 445.6 | 421.1 | 397.2  | 365.0 | 343.1  | 336.6 |
| 5°    | 484.3 | 475.9 | 463.0 | 416.6 | 360.5  | 296.6 | 245.0  | 226.3 |
| 7.5°  | 507.5 | 494.6 | 476.5 | 410.1 | 316.6  | 201.2 | 129.6  | 109.6 |
| 10°   | 524.3 | 508.1 | 484.9 | 398.5 | 258.6  | 110.9 | 43.8   | 32.9  |
| 12.5° | 538.4 | 517.2 | 489.4 | 381.1 | 188.3  | 45.1  | 22.6   | 22.6  |
| 15°   | 548.1 | 522.3 | 491.4 | 356.6 | 121.9  | 23.9  | 21.3   | 21.3  |
| 17.5° | 561.7 | 528.1 | 491.4 | 322.4 | 66.4   | 20.6  | 20.6   | 20.6  |
| 20°   | 583.6 | 533.9 | 484.3 | 279.2 | 36.8   | 19.3  | 20.0   | 20.0  |
| 22.5° | 595.2 | 542.3 | 475.2 | 228.9 | 23.2   | 18.7  | 19.3   | 19.3  |
| 25°   | 597.8 | 541.0 | 455.9 | 180.6 | 18.7   | 18.1  | 18.7   | 19.3  |
| 27.5° | 588.7 | 532.0 | 430.1 | 131.5 | 16.8   | 17.4  | 18.7   | 19.3  |
| 30°   | 572.6 | 510.1 | 388.8 | 89.0  | 15.5   | 17.4  | 18.7   | 19.3  |
| 32.5° | 542.3 | 457.2 | 340.5 | 53.5  | 14.8   | 17.4  | 18.7   | 20.0  |
| 35°   | 474.6 | 401.7 | 285.0 | 23.2  | 14.2   | 17.4  | 19.3   | 20.0  |
| 37.5° | 425.6 | 346.3 | 220.5 | 11.6  | 14.2   | 17.4  | 19.3   | 20.6  |
| 40°   | 371.4 | 278.6 | 101.9 | 10.3  | 14.2   | 17.4  | 19.3   | 20.6  |
| 42.5° | 283.1 | 129.0 | 12.3  | 10.3  | 13.5   | 17.4  | 20.0   | 20.6  |
| 45°   | 103.2 | 13.5  | 6.4   | 9.7   | 13.5   | 17.4  | 20.0   | 21.3  |
| 47.5° | 7.7   | 5.2   | 5.8   | 9.7   | 13.5   | 17.4  | 20.0   | 21.3  |
| 50°   | 5.2   | 5.2   | 5.8   | 9.7   | 13.5   | 17.4  | 20.0   | 21.3  |
| 52.5° | 5.2   | 5.8   | 5.8   | 9.0   | 12.9   | 17.4  | 20.0   | 21.3  |
| 55°   | 5.2   | 5.8   | 5.8   | 9.0   | 12.9   | 16.8  | 20.0   | 21.3  |
| 57.5° | 5.2   | 5.2   | 5.8   | 8.4   | 12.3   | 16.1  | 20.0   | 20.6  |
| 60°   | 5.2   | 5.2   | 5.8   | 7.7   | 11.6   | 15.5  | 18.7   | 20.0  |
| 62.5° | 5.2   | 5.2   | 5.2   | 7.1   | 11.0   | 14.8  | 18.1   | 19.3  |
| 65°   | 4.5   | 4.5   | 5.2   | 6.4   | 9.7    | 13.5  | 16.8   | 18.1  |
| 67.5° | 3.9   | 4.5   | 4.5   | 5.8   | 9.0    | 12.3  | 15.5   | 16.8  |
| 70°   | 3.9   | 3.9   | 3.9   | 5.2   | 7.7    | 11.0  | 14.2   | 14.8  |
| 72.5° | 3.2   | 3.2   | 3.9   | 4.5   | 7.1    | 9.7   | 12.9   | 13.5  |
| 75°   | 2.6   | 3.2   | 3.2   | 3.9   | 5.8    | 8.4   | 11.0   | 11.6  |
| 77.5° | 2.6   | 2.6   | 2.6   | 3.2   | 5.2    | 7.1   | 9.0    | 9.7   |
| 80°   | 1.9   | 1.9   | 1.9   | 2.6   | 3.9    | 5.8   | 7.1    | 7.7   |
| 82.5° | 1.3   | 1.9   | 1.9   | 1.9   | 3.2    | 3.9   | 5.2    | 5.8   |
| 85°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.9    | 2.6   | 3.2    | 3.9   |
| 87.5° | 0.6   | 0.6   | 1.3   | 1.3   | 1.3    | 1.3   | 1.3    | 1.9   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)