

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: P1325146

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MMS\_2700K

Issue Date: 1/29/2026

**Test Information**

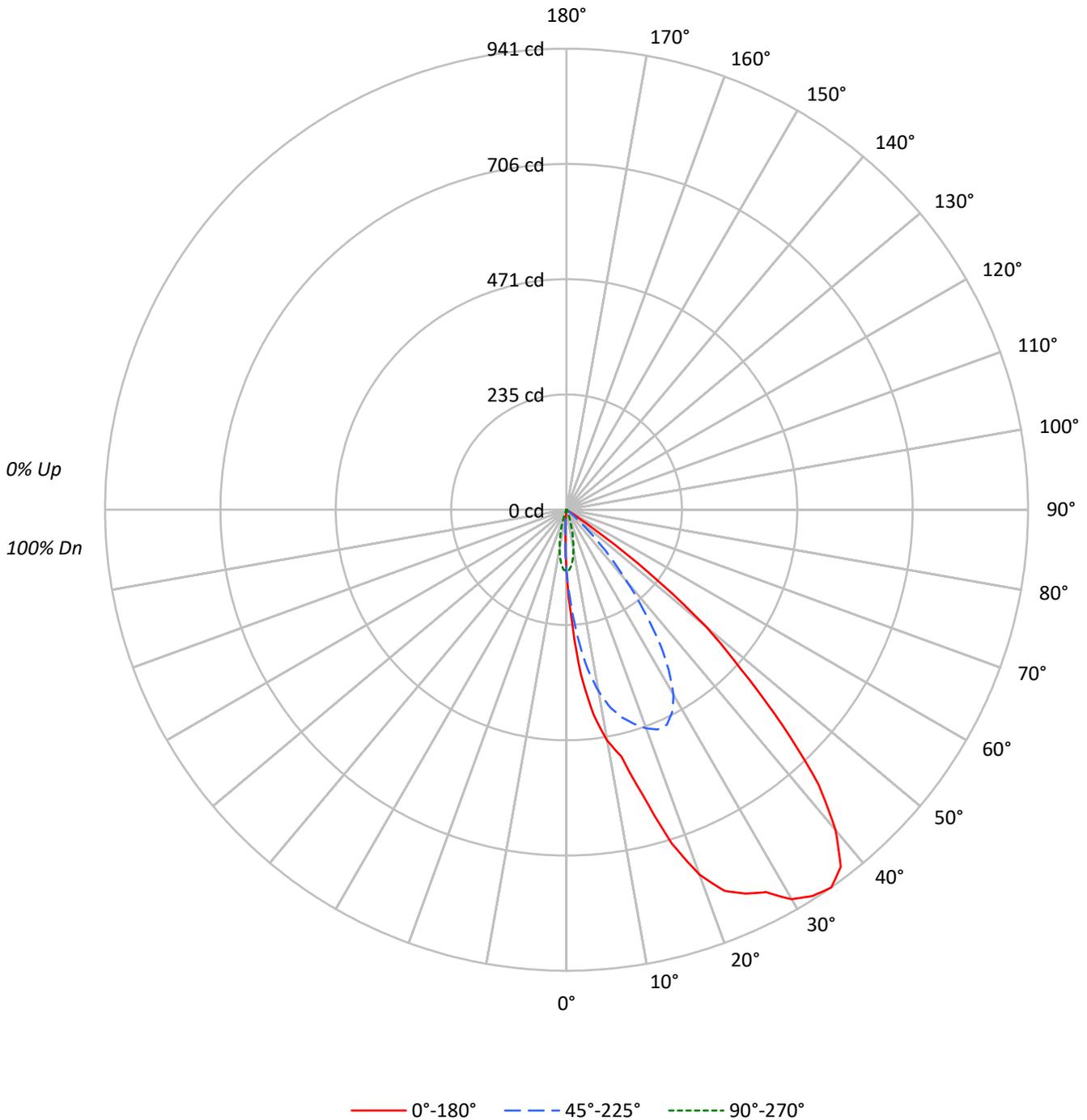
Test Method: LM-79-2019  
Report Number: P1325146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MMS\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 399.0 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
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

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### Luminous Intensity Polar Plot





TEST NUMBER: P1325146

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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 | 100 | 100 | 100 | 100 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  | 91  | 91  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  | 82  | 82  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  | 74  | 74  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  | 67  | 67  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  | 60  | 60  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  | 54  | 54  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  | 49  | 49  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  | 44  | 44  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  | 40  | 40  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  | 37  | 37  | 37  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 21338  | 21338 | 21338 | 21338 | 21338 |
| 5°  | 58261  | 44828 | 19743 | 3959  | 1487  |
| 10° | 83680  | 65772 | 14288 | 367   | 315   |
| 15° | 107728 | 78219 | 7595  | 125   | 0     |
| 20° | 145191 | 87038 | 2896  | 0     | 0     |
| 25° | 164221 | 91954 | 741   | 0     | 0     |
| 30° | 182539 | 86686 | 80    | 0     | 0     |
| 35° | 197883 | 69129 | 0     | 0     | 0     |
| 40° | 191795 | 43390 | 0     | 0     | 0     |
| 45° | 152030 | 20678 | 0     | 0     | 0     |
| 50° | 99510  | 2599  | 0     | 0     | 0     |
| 55° | 17085  | 0     | 0     | 0     | 0     |
| 60° | 0      | 0     | 138   | 0     | 0     |
| 65° | 0      | 163   | 163   | 0     | 0     |
| 70° | 0      | 201   | 352   | 0     | 0     |
| 75° | 0      | 266   | 466   | 0     | 0     |
| 80° | 0      | 397   | 694   | 397   | 0     |
| 85° | 0      | 790   | 1383  | 790   | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 152030 cd/sqm



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**ZONAL LUMENS:**

| Zone            | Lumens       | % Fixture    |
|-----------------|--------------|--------------|
| 0°-10°          | 14.8         | 3.7          |
| 10°-20°         | 56.8         | 14.2         |
| 20°-30°         | 106.4        | 26.7         |
| 30°-40°         | 124.2        | 31.1         |
| 40°-50°         | 81.0         | 20.3         |
| 50°-60°         | 15.0         | 3.8          |
| 60°-70°         | 0.2          | 0.0          |
| 70°-80°         | 0.3          | 0.1          |
| 80°-90°         | 0.3          | 0.1          |
| 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          |
| <b>0°-30°</b>   | <b>178.0</b> | <b>44.6</b>  |
| <b>0°-40°</b>   | <b>302.2</b> | <b>75.7</b>  |
| <b>0°-60°</b>   | <b>398.2</b> | <b>99.8</b>  |
| <b>0°-90°</b>   | <b>399.0</b> | <b>100.0</b> |
| 90°-120°        | 0.0          | 0.0          |
| 90°-150°        | 0.0          | 0.0          |
| <b>90°-180°</b> | <b>0.0</b>   | <b>0.0</b>   |
| <b>0°-180°</b>  | <b>399.0</b> | <b>100.0</b> |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 124 | 124 | 124 | 124  | 124  |      |
| 5°  | 337 | 259 | 114 | 23   | 9    | 36   |
| 15° | 604 | 439 | 43  | 1    | 0    | 180  |
| 25° | 864 | 484 | 4   | 0    | 0    | 400  |
| 35° | 941 | 329 | 0   | 0    | 0    | 577  |
| 45° | 624 | 85  | 0   | 0    | 0    | 475  |
| 55° | 57  | 0   | 0   | 0    | 0    | 99   |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 1   | 0    | 0    | 0    |
| 85° | 0   | 0   | 1   | 0    | 0    | 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°    | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 |
| 2.5°  | 218.5 | 220.3 | 216.7 | 215.2 | 210.6 | 211.7 | 203.8 | 200.6 | 195.5 | 187.3 | 183.4 |
| 5°    | 337.0 | 333.8 | 330.9 | 324.8 | 321.3 | 311.6 | 300.8 | 288.7 | 274.0 | 259.3 | 242.5 |
| 7.5°  | 421.5 | 419.0 | 418.0 | 412.9 | 405.8 | 395.8 | 381.8 | 366.4 | 347.4 | 327.7 | 302.3 |
| 10°   | 478.5 | 476.0 | 471.7 | 466.7 | 460.9 | 452.7 | 439.1 | 422.3 | 401.5 | 376.1 | 346.3 |
| 12.5° | 515.7 | 515.4 | 508.2 | 502.5 | 495.3 | 488.2 | 474.2 | 460.6 | 440.2 | 414.0 | 380.4 |
| 15°   | 604.2 | 598.5 | 589.2 | 573.0 | 553.0 | 534.4 | 511.8 | 490.3 | 468.1 | 438.7 | 401.1 |
| 17.5° | 714.5 | 708.1 | 692.3 | 671.9 | 639.7 | 604.2 | 565.5 | 531.5 | 498.2 | 458.4 | 414.0 |
| 20°   | 792.2 | 789.7 | 776.5 | 752.8 | 718.4 | 671.5 | 620.7 | 572.7 | 525.8 | 474.9 | 420.1 |
| 22.5° | 842.0 | 840.6 | 835.2 | 819.1 | 784.0 | 731.3 | 665.8 | 601.3 | 544.7 | 485.3 | 418.3 |
| 25°   | 864.2 | 866.0 | 866.7 | 858.8 | 830.5 | 776.8 | 699.1 | 623.2 | 555.5 | 483.9 | 404.7 |
| 27.5° | 880.0 | 880.0 | 882.8 | 879.3 | 850.6 | 794.0 | 712.0 | 630.7 | 551.9 | 466.3 | 376.1 |
| 30°   | 917.9 | 917.2 | 919.0 | 909.3 | 869.6 | 799.4 | 706.3 | 618.5 | 531.5 | 435.9 | 334.9 |
| 32.5° | 934.4 | 935.1 | 934.8 | 919.4 | 873.2 | 795.8 | 692.3 | 595.2 | 493.9 | 388.2 | 280.4 |
| 35°   | 941.2 | 938.0 | 924.7 | 889.6 | 831.3 | 748.2 | 652.9 | 555.8 | 441.2 | 328.8 | 221.3 |
| 37.5° | 918.6 | 909.3 | 880.0 | 832.0 | 760.7 | 680.8 | 587.7 | 485.3 | 371.4 | 257.9 | 166.5 |
| 40°   | 853.1 | 840.9 | 804.0 | 746.0 | 680.8 | 608.8 | 510.7 | 402.6 | 290.5 | 193.0 | 116.8 |
| 42.5° | 760.3 | 746.4 | 706.6 | 656.1 | 596.7 | 521.1 | 423.3 | 315.2 | 212.7 | 133.2 | 74.1  |
| 45°   | 624.2 | 616.4 | 593.4 | 550.8 | 492.5 | 414.0 | 324.5 | 229.9 | 147.2 | 84.9  | 38.0  |
| 47.5° | 482.8 | 472.8 | 456.3 | 426.9 | 378.2 | 303.7 | 227.1 | 156.2 | 94.6  | 41.9  | 7.9   |
| 50°   | 371.4 | 359.6 | 339.5 | 306.9 | 256.1 | 202.7 | 147.2 | 97.4  | 48.0  | 9.7   | 0.4   |
| 52.5° | 213.8 | 216.3 | 206.7 | 185.9 | 157.6 | 121.4 | 85.2  | 49.1  | 10.7  | 0.4   | 0.0   |
| 55°   | 56.9  | 61.6  | 60.2  | 64.8  | 56.9  | 48.0  | 35.5  | 9.3   | 0.7   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.4   | 0.7   | 2.1   | 3.2   | 1.1   | 0.4   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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°    | 123.9 | 123.9 | 123.9 | 123.9 | 123.9  | 123.9 | 123.9  | 123.9 |
| 2.5°  | 174.4 | 166.9 | 157.6 | 123.2 | 92.8   | 66.6  | 51.9   | 48.0  |
| 5°    | 226.3 | 208.1 | 184.4 | 114.2 | 57.3   | 22.9  | 10.4   | 8.6   |
| 7.5°  | 275.4 | 248.6 | 205.9 | 99.9  | 29.0   | 5.7   | 2.9    | 2.5   |
| 10°   | 313.4 | 277.2 | 221.7 | 81.7  | 10.7   | 2.1   | 1.8    | 1.8   |
| 12.5° | 339.5 | 295.5 | 227.4 | 62.0  | 3.9    | 1.1   | 1.1    | 0.7   |
| 15°   | 354.6 | 302.6 | 222.1 | 42.6  | 1.4    | 0.7   | 0.0    | 0.0   |
| 17.5° | 359.2 | 299.8 | 207.7 | 26.9  | 0.4    | 0.0   | 0.0    | 0.0   |
| 20°   | 355.3 | 285.8 | 185.2 | 15.8  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 342.4 | 264.0 | 157.9 | 8.6   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 318.4 | 233.2 | 126.1 | 3.9   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 279.4 | 193.4 | 94.9  | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 234.9 | 150.8 | 67.3  | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 183.4 | 111.0 | 43.3  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 137.9 | 77.7  | 25.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 96.0  | 49.1  | 13.6  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 59.8  | 26.5  | 4.7   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 33.3  | 9.3   | 0.4   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 7.9   | 0.7   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.4   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0   | 0.4   | 0.4   | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.4   | 0.4   | 0.4   | 0.7   | 0.4    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.4   | 0.4   | 0.7   | 0.7   | 0.4    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.4   | 0.4   | 0.7   | 0.7   | 0.4    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.4   | 0.7   | 0.7   | 0.7   | 0.4    | 0.4   | 0.0    | 0.0   |
| 80°   | 0.4   | 0.7   | 0.7   | 0.7   | 0.7    | 0.4   | 0.0    | 0.0   |
| 82.5° | 0.4   | 0.7   | 0.7   | 0.7   | 0.7    | 0.4   | 0.0    | 0.0   |
| 85°   | 0.4   | 0.7   | 0.7   | 0.7   | 0.4    | 0.4   | 0.0    | 0.0   |
| 87.5° | 0.4   | 0.7   | 0.7   | 0.7   | 0.7    | 0.4   | 0.0    | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)