

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: P1316774

Luminaire Tested: LDSQA3D17R459740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

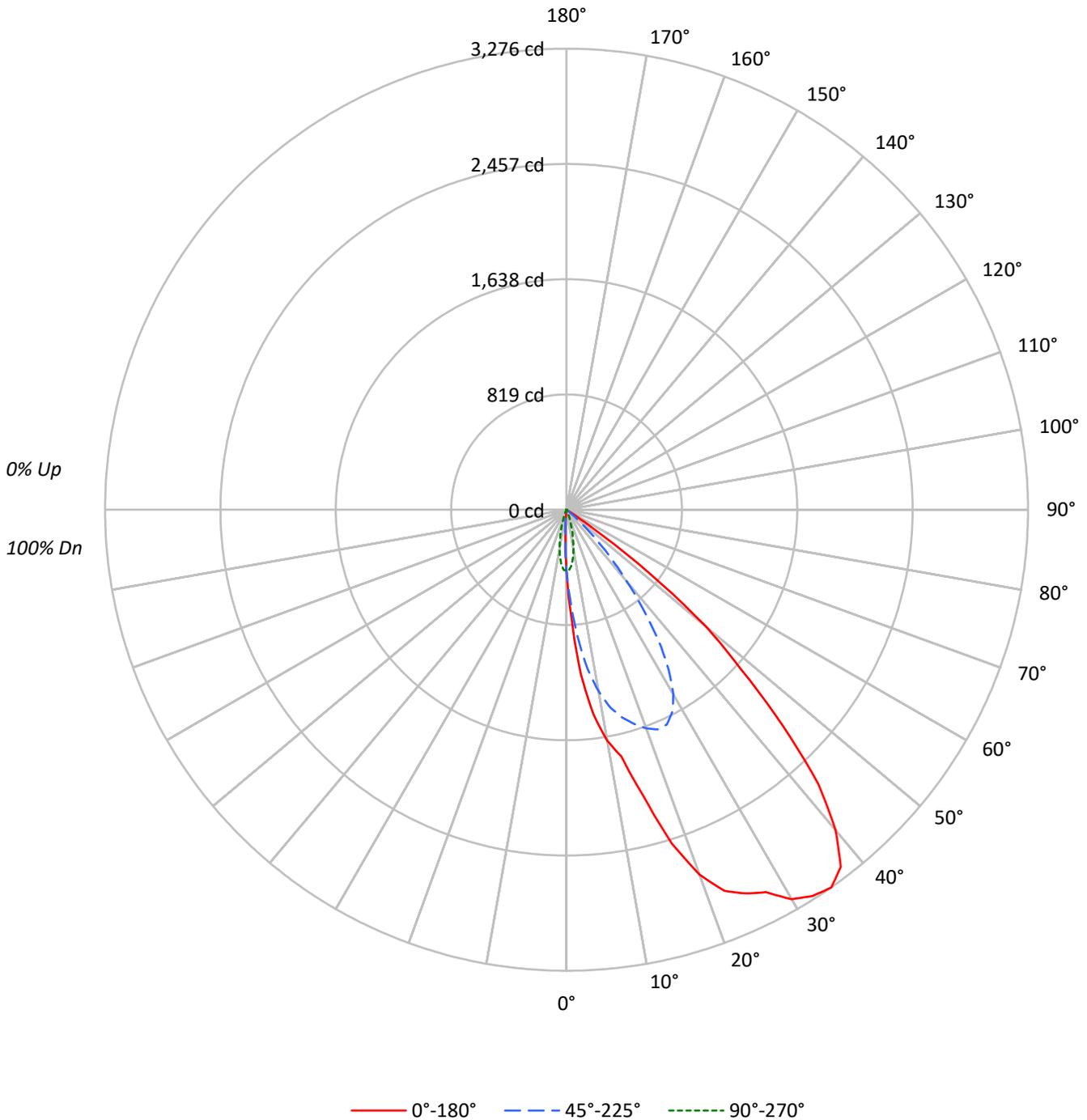
Test Method: LM-79-2019  
Report Number: P1316774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1389.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 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): 21.2  
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





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 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 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 96  | 94  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 89  | 86  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 82  | 79  | 76  | 74  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 76  | 72  | 68  | 67  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 70  | 65  | 62  | 60  |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 64  | 59  | 56  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 59  | 54  | 51  | 49  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 55  | 50  | 46  | 44  |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 46  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 47  | 42  | 38  | 37  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 74297  | 74297  | 74297 | 74297 | 74297 |
| 5°  | 202823 | 156059 | 68755 | 13796 | 5169  |
| 10° | 291297 | 228935 | 49718 | 1312  | 1084  |
| 15° | 375014 | 272315 | 26459 | 446   | 0     |
| 20° | 505456 | 302991 | 10062 | 0     | 0     |
| 25° | 571695 | 320081 | 2603  | 0     | 0     |
| 30° | 635475 | 301739 | 239   | 0     | 0     |
| 35° | 688868 | 240625 | 0     | 0     | 0     |
| 40° | 667672 | 151080 | 0     | 0     | 0     |
| 45° | 529279 | 71972  | 0     | 0     | 0     |
| 50° | 346408 | 9029   | 0     | 0     | 0     |
| 55° | 59512  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 413   | 0     | 0     |
| 65° | 0      | 489    | 489   | 0     | 0     |
| 70° | 0      | 604    | 1259  | 0     | 0     |
| 75° | 0      | 799    | 1664  | 0     | 0     |
| 80° | 0      | 1190   | 2479  | 1190  | 0     |
| 85° | 0      | 2371   | 4940  | 2371  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 529279 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.4   | 3.7       |
| 10°-20°   | 197.9  | 14.2      |
| 20°-30°   | 370.4  | 26.7      |
| 30°-40°   | 432.4  | 31.1      |
| 40°-50°   | 282.0  | 20.3      |
| 50°-60°   | 52.3   | 3.8       |
| 60°-70°   | 0.5    | 0.0       |
| 70°-80°   | 1.0    | 0.1       |
| 80°-90°   | 1.1    | 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       |
| 0°-30°    | 619.7  | 44.6      |
| 0°-40°    | 1052.0 | 75.7      |
| 0°-60°    | 1386.3 | 99.8      |
| 0°-90°    | 1389.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1389.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 431  | 431  | 431 | 431  | 431  |      |
| 5°  | 1173 | 903  | 398 | 80   | 30   | 126  |
| 15° | 2103 | 1527 | 148 | 2    | 0    | 627  |
| 25° | 3008 | 1684 | 14  | 0    | 0    | 1391 |
| 35° | 3276 | 1144 | 0   | 0    | 0    | 2010 |
| 45° | 2173 | 296  | 0   | 0    | 0    | 1652 |
| 55° | 198  | 0    | 0   | 0    | 0    | 345  |
| 65° | 0    | 1    | 1   | 0    | 0    | 0    |
| 75° | 0    | 1    | 2   | 0    | 0    | 0    |
| 85° | 0    | 1    | 2   | 1    | 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°    | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  | 431.4  |
| 2.5°  | 760.5  | 766.8  | 754.3  | 749.3  | 733.1  | 736.8  | 709.4  | 698.2  | 680.7  | 652.1  | 638.4  |
| 5°    | 1173.2 | 1162.0 | 1152.0 | 1130.8 | 1118.4 | 1084.7 | 1047.3 | 1004.9 | 953.8  | 902.7  | 844.1  |
| 7.5°  | 1467.5 | 1458.7 | 1455.0 | 1437.5 | 1412.6 | 1377.7 | 1329.1 | 1275.5 | 1209.4 | 1140.8 | 1052.3 |
| 10°   | 1665.7 | 1657.0 | 1642.0 | 1624.6 | 1604.6 | 1575.9 | 1528.6 | 1470.0 | 1397.6 | 1309.1 | 1205.6 |
| 12.5° | 1795.4 | 1794.1 | 1769.2 | 1749.2 | 1724.3 | 1699.4 | 1650.7 | 1603.4 | 1532.3 | 1441.3 | 1324.1 |
| 15°   | 2103.3 | 2083.4 | 2051.0 | 1994.9 | 1925.0 | 1860.2 | 1781.7 | 1706.8 | 1629.5 | 1527.3 | 1396.4 |
| 17.5° | 2487.3 | 2464.9 | 2410.0 | 2339.0 | 2226.8 | 2103.3 | 1968.7 | 1850.2 | 1734.3 | 1595.9 | 1441.3 |
| 20°   | 2757.9 | 2749.2 | 2703.0 | 2620.7 | 2501.0 | 2337.7 | 2160.7 | 1993.6 | 1830.3 | 1653.2 | 1462.5 |
| 22.5° | 2931.2 | 2926.2 | 2907.5 | 2851.4 | 2729.2 | 2545.9 | 2317.8 | 2093.3 | 1896.4 | 1689.4 | 1456.2 |
| 25°   | 3008.5 | 3014.7 | 3017.2 | 2989.8 | 2891.3 | 2704.3 | 2433.7 | 2169.4 | 1933.8 | 1684.4 | 1408.9 |
| 27.5° | 3063.3 | 3063.3 | 3073.3 | 3060.8 | 2961.1 | 2764.1 | 2478.6 | 2195.6 | 1921.3 | 1623.3 | 1309.1 |
| 30°   | 3195.5 | 3193.0 | 3199.2 | 3165.6 | 3027.2 | 2782.8 | 2458.7 | 2153.2 | 1850.2 | 1517.3 | 1165.7 |
| 32.5° | 3252.9 | 3255.3 | 3254.1 | 3200.5 | 3039.7 | 2770.3 | 2410.0 | 2072.2 | 1719.3 | 1351.5 | 976.2  |
| 35°   | 3276.5 | 3265.3 | 3219.2 | 3097.0 | 2893.8 | 2604.5 | 2272.9 | 1935.0 | 1536.0 | 1144.5 | 770.5  |
| 37.5° | 3198.0 | 3165.6 | 3063.3 | 2896.3 | 2648.2 | 2370.1 | 2046.0 | 1689.4 | 1292.9 | 897.7  | 579.8  |
| 40°   | 2969.8 | 2927.4 | 2799.0 | 2597.0 | 2370.1 | 2119.5 | 1777.9 | 1401.4 | 1011.1 | 672.0  | 406.5  |
| 42.5° | 2646.9 | 2598.3 | 2459.9 | 2284.1 | 2077.1 | 1814.1 | 1473.7 | 1097.2 | 740.6  | 463.8  | 258.1  |
| 45°   | 2173.1 | 2145.7 | 2065.9 | 1917.6 | 1714.3 | 1441.3 | 1129.6 | 800.4  | 512.4  | 295.5  | 132.2  |
| 47.5° | 1680.7 | 1645.8 | 1588.4 | 1486.2 | 1316.6 | 1057.3 | 790.5  | 543.6  | 329.2  | 145.9  | 27.4   |
| 50°   | 1292.9 | 1251.8 | 1181.9 | 1068.5 | 891.4  | 705.7  | 512.4  | 339.1  | 167.1  | 33.7   | 1.2    |
| 52.5° | 744.3  | 753.1  | 719.4  | 647.1  | 548.6  | 422.7  | 296.7  | 170.8  | 37.4   | 1.2    | 0.0    |
| 55°   | 198.2  | 214.4  | 209.5  | 225.7  | 198.2  | 167.1  | 123.4  | 32.4   | 2.5    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 1.2    | 2.5    | 7.5    | 11.2   | 3.7    | 1.2    | 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    | 1.2    | 1.2    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 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°    | 431.4  | 431.4  | 431.4 | 431.4 | 431.4  | 431.4 | 431.4  | 431.4 |
| 2.5°  | 607.2  | 581.0  | 548.6 | 428.9 | 322.9  | 231.9 | 180.8  | 167.1 |
| 5°    | 788.0  | 724.4  | 642.1 | 397.7 | 199.5  | 79.8  | 36.2   | 29.9  |
| 7.5°  | 958.8  | 865.3  | 716.9 | 347.9 | 101.0  | 19.9  | 10.0   | 8.7   |
| 10°   | 1090.9 | 965.0  | 771.8 | 284.3 | 37.4   | 7.5   | 6.2    | 6.2   |
| 12.5° | 1181.9 | 1028.6 | 791.7 | 215.7 | 13.7   | 3.7   | 3.7    | 2.5   |
| 15°   | 1234.3 | 1053.5 | 773.0 | 148.4 | 5.0    | 2.5   | 0.0    | 0.0   |
| 17.5° | 1250.5 | 1043.6 | 723.1 | 93.5  | 1.2    | 0.0   | 0.0    | 0.0   |
| 20°   | 1236.8 | 994.9  | 644.6 | 54.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 22.5° | 1191.9 | 918.9  | 549.8 | 29.9  | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 1108.4 | 811.7  | 438.9 | 13.7  | 0.0    | 0.0   | 0.0    | 0.0   |
| 27.5° | 972.5  | 673.3  | 330.4 | 5.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 817.9  | 524.9  | 234.4 | 1.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32.5° | 638.4  | 386.5  | 150.9 | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 480.0  | 270.6  | 89.8  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37.5° | 334.1  | 170.8  | 47.4  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 208.2  | 92.3   | 16.2  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 116.0  | 32.4   | 1.2   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 27.4   | 2.5    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 1.2    | 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   | 1.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 1.2    | 1.2   | 1.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 1.2    | 1.2    | 1.2   | 1.2   | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 1.2    | 1.2    | 1.2   | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.2    | 1.2    | 1.2   | 1.2   | 1.2    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.2    | 1.2    | 1.2   | 2.5   | 1.2    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.2    | 1.2    | 2.5   | 2.5   | 1.2    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.2    | 1.2    | 2.5   | 2.5   | 1.2    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.2    | 2.5    | 2.5   | 2.5   | 1.2    | 1.2   | 0.0    | 0.0   |
| 80°   | 1.2    | 2.5    | 2.5   | 2.5   | 2.5    | 1.2   | 0.0    | 0.0   |
| 82.5° | 1.2    | 2.5    | 2.5   | 2.5   | 2.5    | 1.2   | 0.0    | 0.0   |
| 85°   | 1.2    | 2.5    | 2.5   | 2.5   | 1.2    | 1.2   | 0.0    | 0.0   |
| 87.5° | 1.2    | 2.5    | 2.5   | 2.5   | 2.5    | 1.2   | 0.0    | 0.0   |
| 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)