

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: P1309605

Luminaire Tested: P3SQAS24R409035D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS24R409035D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

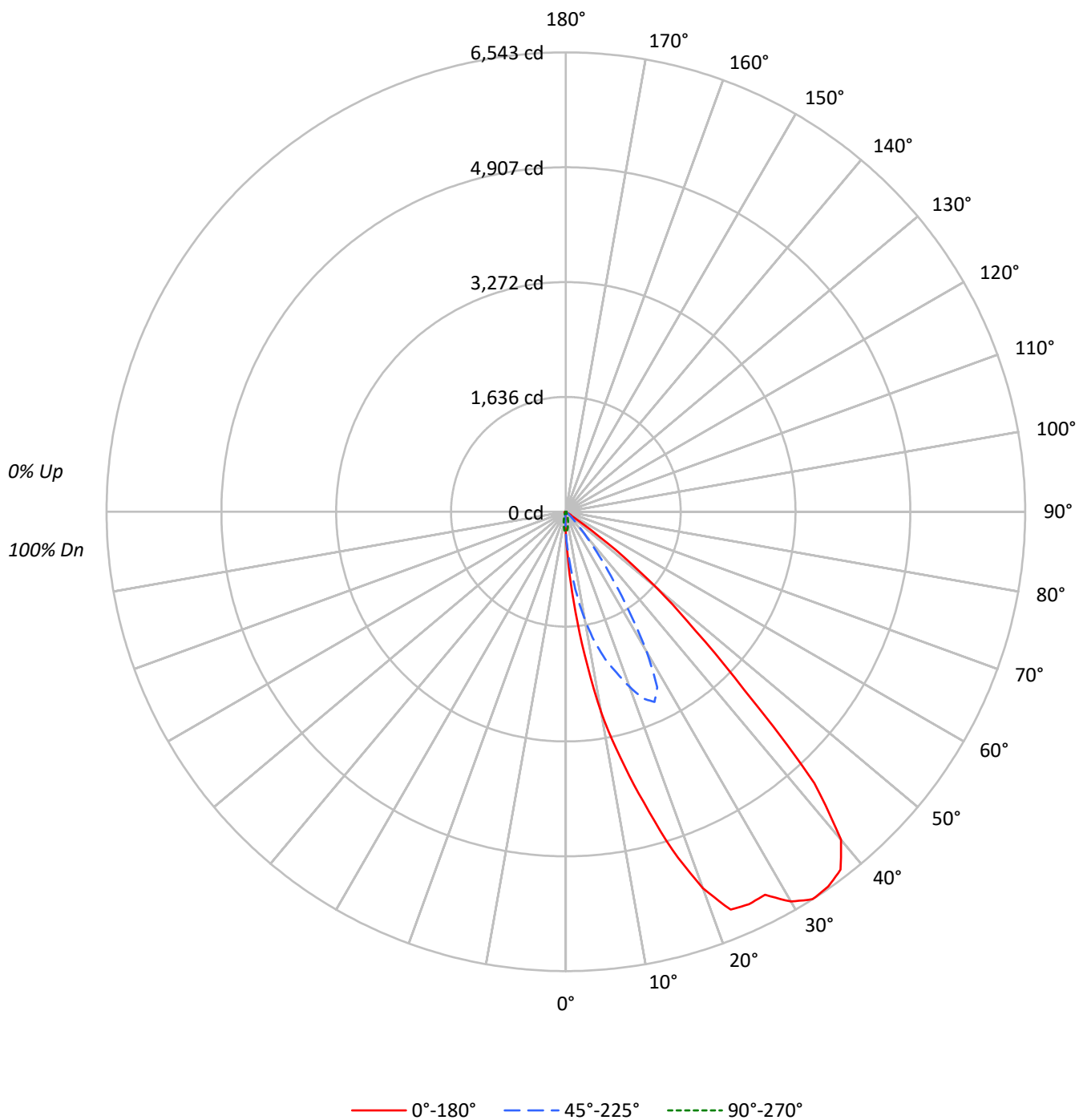
Lumens per Lamp: N/A  
Luminaire Lumens: 2414.0 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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: P1309605

CATALOG NUMBER: P3SQAS24R409035D010 E3SQCA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1309605

CATALOG NUMBER: P3SQAS24R409035D010 E3SQCA301MW

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

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

|     | 0°      | 45°    | 90°   | 135°  | 180°  |
|-----|---------|--------|-------|-------|-------|
| 0°  | 49187   | 49187  | 49187 | 49187 | 49187 |
| 5°  | 221858  | 141434 | 44085 | 16925 | 12344 |
| 10° | 508794  | 273302 | 31041 | 6068  | 4634  |
| 15° | 763561  | 387780 | 19274 | 3281  | 2906  |
| 20° | 1045513 | 486120 | 11216 | 1869  | 2236  |
| 25° | 1172027 | 567990 | 5815  | 1558  | 1938  |
| 30° | 1274828 | 458485 | 2426  | 1213  | 2028  |
| 35° | 1370083 | 234633 | 862   | 1724  | 2565  |
| 40° | 1370574 | 93570  | 450   | 1844  | 3215  |
| 45° | 875085  | 31297  | 999   | 2971  | 4481  |
| 50° | 454277  | 3831   | 1634  | 3831  | 5466  |
| 55° | 39214   | 601    | 1832  | 4894  | 6726  |
| 60° | 1412    | 689    | 2101  | 5614  | 7716  |
| 65° | 1671    | 815    | 3342  | 5827  | 8313  |
| 70° | 1007    | 1007   | 4129  | 6143  | 8208  |
| 75° | 1331    | 1331   | 4059  | 6787  | 9515  |
| 80° | 1984    | 1984   | 6050  | 6050  | 8133  |
| 85° | 0       | 3952   | 12054 | 8102  | 8102  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 875085 cd/sqm

TEST NUMBER: P1309605

CATALOG NUMBER: P3SQAS24R409035D010 E3SQCA301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.6   | 2.3       |
| 10°-20°   | 326.7  | 13.5      |
| 20°-30°   | 715.6  | 29.6      |
| 30°-40°   | 815.2  | 33.8      |
| 40°-50°   | 430.1  | 17.8      |
| 50°-60°   | 50.7   | 2.1       |
| 60°-70°   | 9.1    | 0.4       |
| 70°-80°   | 7.5    | 0.3       |
| 80°-90°   | 3.4    | 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°    | 1097.9 | 45.5      |
| 0°-40°    | 1913.1 | 79.3      |
| 0°-60°    | 2394.0 | 99.2      |
| 0°-90°    | 2414.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2414.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 286  | 286  | 286 | 286  | 286  |      |
| 5°  | 1283 | 818  | 255 | 98   | 71   | 173  |
| 15° | 4282 | 2175 | 108 | 18   | 16   | 1262 |
| 25° | 6168 | 2989 | 31  | 8    | 10   | 2842 |
| 35° | 6517 | 1116 | 4   | 8    | 12   | 4039 |
| 45° | 3593 | 128  | 4   | 12   | 18   | 2897 |
| 55° | 131  | 2    | 6   | 16   | 22   | 405  |
| 65° | 4    | 2    | 8   | 14   | 20   | 4    |
| 75° | 2    | 2    | 6   | 10   | 14   | 2    |
| 85° | 0    | 2    | 6   | 4    | 4    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1309605

CATALOG NUMBER: P3SQAS24R409035D010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  | 285.6  | 285.6 |
| 2.5°  | 636.6  | 636.6  | 634.5  | 616.2  | 614.1  | 612.1  | 579.4  | 571.3  | 532.5  | 506.0  | 385.6 |
| 5°    | 1283.3 | 1254.8 | 1252.7 | 1220.1 | 1165.0 | 1091.5 | 1044.6 | 969.1  | 895.7  | 818.1  | 475.4 |
| 7.5°  | 2044.4 | 2068.8 | 2001.5 | 1966.8 | 1844.4 | 1756.7 | 1622.0 | 1503.7 | 1338.4 | 1183.4 | 548.8 |
| 10°   | 2909.4 | 2866.6 | 2799.3 | 2731.9 | 2599.3 | 2442.2 | 2242.3 | 2032.1 | 1793.4 | 1562.8 | 589.6 |
| 12.5° | 3584.8 | 3529.7 | 3488.9 | 3397.0 | 3266.5 | 3064.5 | 2825.8 | 2544.2 | 2228.0 | 1895.4 | 587.6 |
| 15°   | 4282.5 | 4227.4 | 4135.6 | 4054.0 | 3860.2 | 3633.7 | 3374.6 | 3003.3 | 2615.6 | 2174.9 | 544.8 |
| 17.5° | 5049.7 | 4978.3 | 4876.2 | 4751.8 | 4564.1 | 4313.1 | 3984.6 | 3531.7 | 2982.9 | 2403.4 | 467.2 |
| 20°   | 5704.6 | 5661.7 | 5559.7 | 5412.8 | 5229.2 | 4984.4 | 4604.9 | 4103.0 | 3433.8 | 2652.4 | 371.3 |
| 22.5° | 6133.1 | 6094.3 | 6024.9 | 5896.4 | 5757.6 | 5496.5 | 5149.6 | 4598.8 | 3811.2 | 2878.8 | 281.6 |
| 25°   | 6167.7 | 6151.4 | 6133.1 | 6090.2 | 6006.6 | 5820.9 | 5482.2 | 4888.5 | 4045.9 | 2989.0 | 208.1 |
| 27.5° | 6149.4 | 6143.3 | 6139.2 | 6116.7 | 6061.6 | 5878.0 | 5531.2 | 4931.3 | 4015.3 | 2817.6 | 153.0 |
| 30°   | 6410.5 | 6392.2 | 6382.0 | 6308.5 | 6163.7 | 5880.1 | 5427.1 | 4700.8 | 3568.4 | 2305.5 | 110.2 |
| 32.5° | 6543.1 | 6539.1 | 6528.9 | 6457.5 | 6253.4 | 5884.1 | 5251.7 | 4143.8 | 2829.9 | 1664.9 | 75.5  |
| 35°   | 6516.6 | 6496.2 | 6459.5 | 6326.9 | 6043.3 | 5580.1 | 4684.5 | 3309.3 | 2042.3 | 1116.0 | 49.0  |
| 37.5° | 6426.8 | 6379.9 | 6308.5 | 6069.8 | 5692.4 | 5059.9 | 3799.0 | 2436.1 | 1389.4 | 722.3  | 28.6  |
| 40°   | 6096.3 | 6033.1 | 5920.9 | 5629.1 | 5133.3 | 4170.3 | 2809.5 | 1646.5 | 912.0  | 416.2  | 8.2   |
| 42.5° | 5241.5 | 5159.8 | 5078.2 | 4751.8 | 4184.6 | 3109.4 | 1848.5 | 1018.1 | 520.3  | 228.5  | 2.0   |
| 45°   | 3592.9 | 3490.9 | 3378.7 | 3142.0 | 2687.0 | 1883.2 | 1099.7 | 573.3  | 269.3  | 128.5  | 2.0   |
| 47.5° | 2495.2 | 2448.3 | 2252.5 | 1950.5 | 1495.5 | 997.7  | 569.2  | 281.6  | 142.8  | 59.2   | 2.0   |
| 50°   | 1695.5 | 1642.4 | 1413.9 | 1122.1 | 795.7  | 477.4  | 261.2  | 140.8  | 63.2   | 14.3   | 2.0   |
| 52.5° | 889.6  | 824.3  | 679.4  | 518.2  | 322.4  | 199.9  | 114.3  | 61.2   | 18.4   | 2.0    | 2.0   |
| 55°   | 130.6  | 120.4  | 97.9   | 79.6   | 71.4   | 55.1   | 32.6   | 14.3   | 2.0    | 2.0    | 4.1   |
| 57.5° | 4.1    | 4.1    | 4.1    | 4.1    | 6.1    | 6.1    | 4.1    | 2.0    | 2.0    | 2.0    | 4.1   |
| 60°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1   |
| 62.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1   |
| 65°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1   |
| 67.5° | 4.1    | 4.1    | 4.1    | 4.1    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1    | 6.1   |
| 70°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 6.1   |
| 72.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1    | 6.1   |
| 75°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 6.1   |
| 77.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1    | 6.1   |
| 80°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 6.1   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 2.0    | 4.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 4.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   |

TEST NUMBER: P1309605

CATALOG NUMBER: P3SQAS24R409035D010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 285.6 | 285.6  | 285.6 | 285.6  | 285.6 |
| 2.5°  | 281.6 | 208.1  | 161.2 | 138.7  | 136.7 |
| 5°    | 255.0 | 148.9  | 97.9  | 75.5   | 71.4  |
| 7.5°  | 216.3 | 104.1  | 57.1  | 40.8   | 38.8  |
| 10°   | 177.5 | 71.4   | 34.7  | 28.6   | 26.5  |
| 12.5° | 140.8 | 46.9   | 24.5  | 22.4   | 20.4  |
| 15°   | 108.1 | 30.6   | 18.4  | 16.3   | 16.3  |
| 17.5° | 81.6  | 20.4   | 14.3  | 14.3   | 14.3  |
| 20°   | 61.2  | 14.3   | 10.2  | 12.2   | 12.2  |
| 22.5° | 42.8  | 10.2   | 8.2   | 10.2   | 10.2  |
| 25°   | 30.6  | 8.2    | 8.2   | 10.2   | 10.2  |
| 27.5° | 20.4  | 6.1    | 6.1   | 8.2    | 10.2  |
| 30°   | 12.2  | 4.1    | 6.1   | 8.2    | 10.2  |
| 32.5° | 6.1   | 4.1    | 6.1   | 10.2   | 10.2  |
| 35°   | 4.1   | 6.1    | 8.2   | 10.2   | 12.2  |
| 37.5° | 2.0   | 6.1    | 8.2   | 12.2   | 12.2  |
| 40°   | 2.0   | 6.1    | 8.2   | 12.2   | 14.3  |
| 42.5° | 4.1   | 8.2    | 10.2  | 14.3   | 16.3  |
| 45°   | 4.1   | 8.2    | 12.2  | 16.3   | 18.4  |
| 47.5° | 4.1   | 8.2    | 14.3  | 18.4   | 18.4  |
| 50°   | 6.1   | 10.2   | 14.3  | 18.4   | 20.4  |
| 52.5° | 6.1   | 10.2   | 14.3  | 20.4   | 22.4  |
| 55°   | 6.1   | 10.2   | 16.3  | 20.4   | 22.4  |
| 57.5° | 6.1   | 12.2   | 16.3  | 20.4   | 22.4  |
| 60°   | 6.1   | 10.2   | 16.3  | 20.4   | 22.4  |
| 62.5° | 8.2   | 10.2   | 14.3  | 20.4   | 20.4  |
| 65°   | 8.2   | 10.2   | 14.3  | 20.4   | 20.4  |
| 67.5° | 8.2   | 10.2   | 14.3  | 18.4   | 18.4  |
| 70°   | 8.2   | 10.2   | 12.2  | 16.3   | 16.3  |
| 72.5° | 8.2   | 10.2   | 12.2  | 14.3   | 16.3  |
| 75°   | 6.1   | 8.2    | 10.2  | 12.2   | 14.3  |
| 77.5° | 6.1   | 8.2    | 8.2   | 12.2   | 12.2  |
| 80°   | 6.1   | 6.1    | 6.1   | 8.2    | 8.2   |
| 82.5° | 6.1   | 6.1    | 4.1   | 6.1    | 6.1   |
| 85°   | 6.1   | 4.1    | 4.1   | 4.1    | 4.1   |
| 87.5° | 4.1   | 4.1    | 2.0   | 2.0    | 2.0   |
| 90°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)