

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: P1311852

Luminaire Tested: LDSQA3D20R609040D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R609040D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

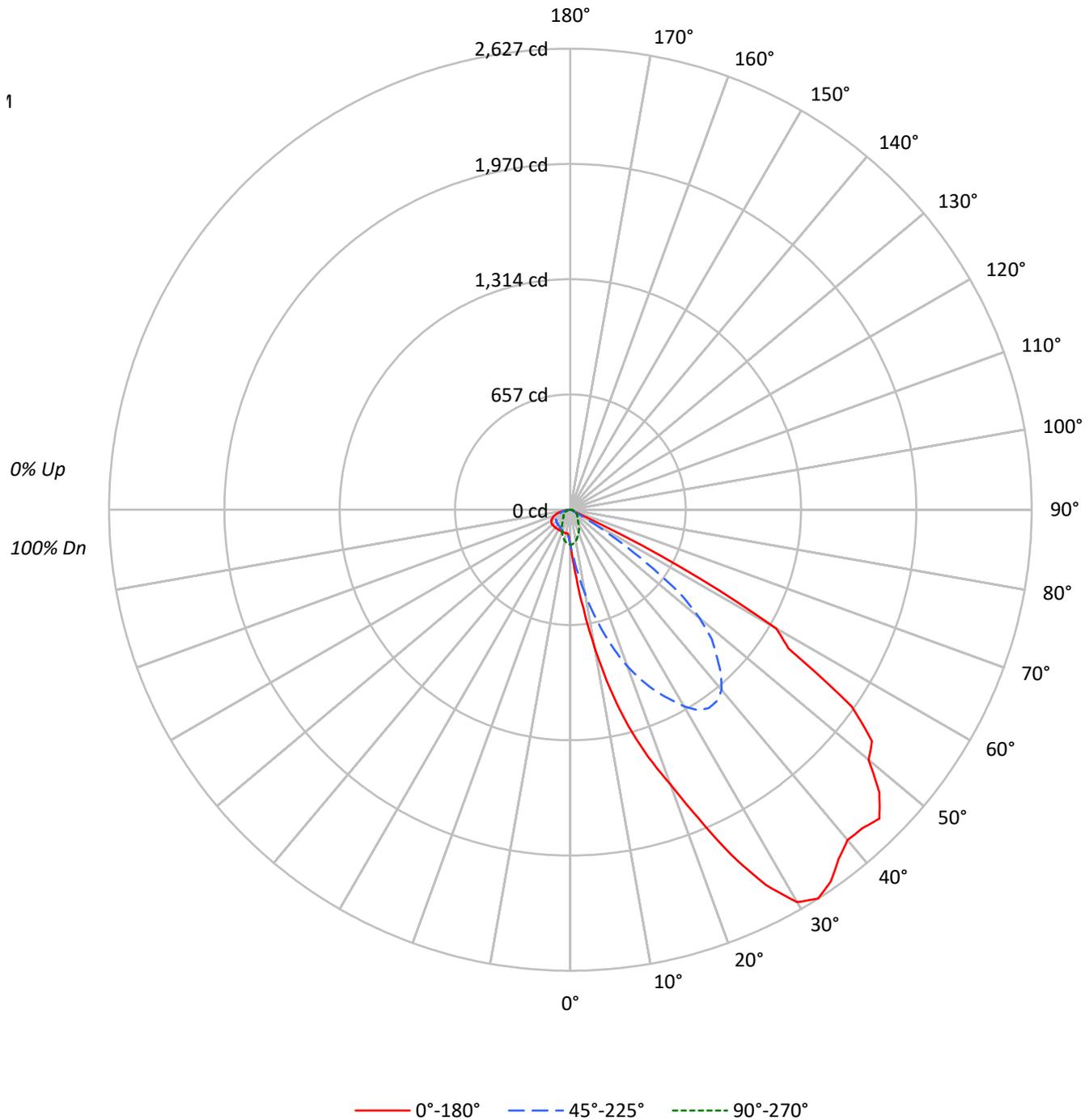
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2000.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
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 (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





TEST NUMBER: P1311852

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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 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 89  | 87  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 76  | 76  | 76  | 74  |
| 3   | 92  | 82  | 74  | 68  | 90  | 81  | 73  | 68  | 78  | 72  | 67  | 75  | 70  | 65  | 72  | 68  | 64  | 64  | 64  | 64  | 62  |
| 4   | 84  | 72  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 55  | 55  | 55  | 53  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 47  | 47  | 47  | 45  |
| 6   | 70  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 41  | 41  | 41  | 39  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 35  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 31  | 29  |
| 9   | 55  | 42  | 33  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 27  | 27  | 27  | 25  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 29  | 24  | 24  | 24  | 24  | 22  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 34135  | 34135  | 34135 | 34135 | 34135 |
| 5°  | 67268  | 52487  | 33625 | 25465 | 24203 |
| 10° | 138942 | 85516  | 31478 | 23207 | 23521 |
| 15° | 227223 | 128357 | 28207 | 23339 | 23981 |
| 20° | 304879 | 173928 | 25329 | 23331 | 24321 |
| 25° | 412491 | 215927 | 22119 | 23145 | 25217 |
| 30° | 513391 | 257054 | 18435 | 23148 | 26389 |
| 35° | 543525 | 289739 | 15663 | 23695 | 27521 |
| 40° | 552205 | 301237 | 14299 | 24528 | 29834 |
| 45° | 606195 | 286938 | 13737 | 26134 | 32320 |
| 50° | 594271 | 257187 | 13638 | 27758 | 35554 |
| 55° | 587371 | 157757 | 13662 | 30026 | 39304 |
| 60° | 465897 | 37579  | 14398 | 31930 | 42573 |
| 65° | 29626  | 6683   | 14059 | 32601 | 45927 |
| 70° | 6395   | 7301   | 13747 | 33889 | 48542 |
| 75° | 6055   | 7253   | 12111 | 32672 | 49574 |
| 80° | 5455   | 7240   | 12596 | 32432 | 46912 |
| 85° | 3557   | 7114   | 14425 | 28652 | 46634 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 639822 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.7   | 1.2       |
| 10°-20°   | 124.7  | 6.2       |
| 20°-30°   | 289.2  | 14.5      |
| 30°-40°   | 449.6  | 22.5      |
| 40°-50°   | 512.3  | 25.6      |
| 50°-60°   | 431.4  | 21.6      |
| 60°-70°   | 125.2  | 6.3       |
| 70°-80°   | 32.1   | 1.6       |
| 80°-90°   | 10.8   | 0.5       |
| 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°    | 438.6  | 21.9      |
| 0°-40°    | 888.2  | 44.4      |
| 0°-60°    | 1831.9 | 91.6      |
| 0°-90°    | 2000.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2000.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 198  | 198  | 198 | 198  | 198  |      |
| 5°  | 389  | 304  | 194 | 147  | 140  | 50   |
| 15° | 1274 | 720  | 158 | 131  | 134  | 369  |
| 25° | 2171 | 1136 | 116 | 122  | 133  | 1008 |
| 35° | 2585 | 1378 | 74  | 113  | 131  | 1606 |
| 45° | 2489 | 1178 | 56  | 107  | 133  | 1871 |
| 55° | 1956 | 525  | 46  | 100  | 131  | 1646 |
| 65° | 73   | 16   | 34  | 80   | 113  | 360  |
| 75° | 9    | 11   | 18  | 49   | 74   | 10   |
| 85° | 2    | 4    | 7   | 14   | 24   | 3    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P1311852

CATALOG NUMBER: LDSQA3D20R609040D010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 198.2  | 198.2  | 198.2  | 198.2  | 198.2  | 198.2  | 198.2  | 198.2  | 198.2  | 198.2 | 198.2 |
| 2.5°  | 267.2  | 265.4  | 265.4  | 263.6  | 261.8  | 260.0  | 254.5  | 252.7  | 241.8  | 220.0 | 198.2 |
| 5°    | 389.1  | 387.2  | 381.8  | 380.0  | 370.9  | 358.2  | 345.4  | 332.7  | 303.6  | 241.8 | 194.5 |
| 7.5°  | 563.6  | 567.2  | 563.6  | 543.6  | 530.9  | 510.9  | 472.7  | 445.4  | 387.2  | 263.6 | 187.3 |
| 10°   | 794.5  | 794.5  | 789.0  | 758.1  | 730.8  | 692.7  | 643.6  | 596.3  | 489.0  | 283.6 | 180.0 |
| 12.5° | 1045.4 | 1050.8 | 1023.5 | 998.1  | 949.0  | 901.7  | 834.5  | 763.6  | 605.4  | 300.0 | 170.9 |
| 15°   | 1274.4 | 1270.8 | 1243.5 | 1210.8 | 1159.9 | 1094.5 | 1023.5 | 932.6  | 719.9  | 310.9 | 158.2 |
| 17.5° | 1478.1 | 1470.8 | 1447.1 | 1410.8 | 1349.0 | 1276.3 | 1185.4 | 1087.2 | 838.1  | 320.0 | 149.1 |
| 20°   | 1663.5 | 1638.0 | 1610.8 | 1572.6 | 1512.6 | 1436.2 | 1341.7 | 1230.8 | 949.0  | 320.0 | 138.2 |
| 22.5° | 1898.0 | 1872.6 | 1834.4 | 1776.2 | 1696.2 | 1601.7 | 1490.8 | 1365.3 | 1047.2 | 312.7 | 127.3 |
| 25°   | 2170.7 | 2150.7 | 2085.3 | 2010.7 | 1907.1 | 1794.4 | 1665.3 | 1496.2 | 1136.3 | 301.8 | 116.4 |
| 27.5° | 2408.9 | 2387.1 | 2321.6 | 2212.5 | 2087.1 | 1952.6 | 1816.2 | 1643.5 | 1214.4 | 281.8 | 103.6 |
| 30°   | 2581.6 | 2554.3 | 2503.4 | 2399.8 | 2247.1 | 2083.5 | 1921.7 | 1756.2 | 1292.6 | 258.2 | 92.7  |
| 32.5° | 2627.0 | 2623.4 | 2585.2 | 2508.9 | 2372.5 | 2192.5 | 1999.8 | 1819.8 | 1354.4 | 227.3 | 83.6  |
| 35°   | 2585.2 | 2590.7 | 2583.4 | 2545.2 | 2445.2 | 2268.9 | 2050.7 | 1854.4 | 1378.1 | 196.3 | 74.5  |
| 37.5° | 2508.9 | 2516.1 | 2528.9 | 2534.3 | 2470.7 | 2314.3 | 2079.8 | 1868.9 | 1372.6 | 165.4 | 69.1  |
| 40°   | 2456.2 | 2452.5 | 2452.5 | 2488.9 | 2476.2 | 2334.3 | 2083.5 | 1858.0 | 1339.9 | 132.7 | 63.6  |
| 42.5° | 2461.6 | 2421.6 | 2394.3 | 2452.5 | 2470.7 | 2325.3 | 2059.8 | 1828.9 | 1269.0 | 101.8 | 58.2  |
| 45°   | 2488.9 | 2403.4 | 2356.2 | 2430.7 | 2459.8 | 2294.3 | 2016.2 | 1785.3 | 1178.1 | 70.9  | 56.4  |
| 47.5° | 2387.1 | 2330.7 | 2323.4 | 2428.9 | 2439.8 | 2241.6 | 1948.9 | 1716.2 | 1090.8 | 49.1  | 52.7  |
| 50°   | 2218.0 | 2208.9 | 2247.1 | 2356.2 | 2358.0 | 2154.4 | 1872.6 | 1590.8 | 959.9  | 34.5  | 50.9  |
| 52.5° | 2165.3 | 2170.7 | 2205.3 | 2261.6 | 2208.9 | 2007.1 | 1734.4 | 1485.3 | 794.5  | 27.3  | 49.1  |
| 55°   | 1956.2 | 1965.3 | 1998.0 | 2032.6 | 1994.4 | 1827.1 | 1567.1 | 1358.1 | 525.4  | 25.5  | 45.5  |
| 57.5° | 1472.6 | 1496.2 | 1556.2 | 1587.1 | 1590.8 | 1489.0 | 1419.9 | 1170.8 | 296.3  | 25.5  | 43.6  |
| 60°   | 1352.6 | 1321.7 | 1294.4 | 1230.8 | 1172.6 | 1159.9 | 1167.2 | 878.1  | 109.1  | 23.6  | 41.8  |
| 62.5° | 707.2  | 692.7  | 734.5  | 761.8  | 769.0  | 809.0  | 756.3  | 463.6  | 23.6   | 23.6  | 38.2  |
| 65°   | 72.7   | 72.7   | 89.1   | 118.2  | 196.3  | 261.8  | 249.1  | 134.5  | 16.4   | 21.8  | 34.5  |
| 67.5° | 21.8   | 21.8   | 21.8   | 25.5   | 32.7   | 32.7   | 27.3   | 20.0   | 16.4   | 20.0  | 30.9  |
| 70°   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 14.5   | 12.7   | 14.5   | 18.2  | 27.3  |
| 72.5° | 10.9   | 10.9   | 10.9   | 10.9   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   | 16.4  | 23.6  |
| 75°   | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 9.1    | 10.9   | 10.9   | 12.7  | 18.2  |
| 77.5° | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 9.1    | 9.1    | 9.1    | 10.9  | 14.5  |
| 80°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 7.3    | 7.3    | 7.3    | 7.3    | 9.1   | 12.7  |
| 82.5° | 3.6    | 3.6    | 3.6    | 3.6    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 7.3   | 9.1   |
| 85°   | 1.8    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 5.5   | 7.3   |
| 87.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 3.6    | 3.6   | 5.5   |
| 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):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 198.2  | 198.2 | 198.2  | 198.2 |
| 2.5°  | 180.0  | 167.3 | 160.0  | 156.4 |
| 5°    | 163.6  | 147.3 | 141.8  | 140.0 |
| 7.5°  | 149.1  | 138.2 | 136.4  | 136.4 |
| 10°   | 140.0  | 132.7 | 134.5  | 134.5 |
| 12.5° | 134.5  | 132.7 | 134.5  | 136.4 |
| 15°   | 129.1  | 130.9 | 134.5  | 134.5 |
| 17.5° | 125.4  | 129.1 | 132.7  | 134.5 |
| 20°   | 120.0  | 127.3 | 132.7  | 132.7 |
| 22.5° | 116.4  | 125.4 | 130.9  | 132.7 |
| 25°   | 112.7  | 121.8 | 129.1  | 132.7 |
| 27.5° | 107.3  | 120.0 | 129.1  | 130.9 |
| 30°   | 101.8  | 116.4 | 127.3  | 132.7 |
| 32.5° | 96.4   | 114.5 | 127.3  | 130.9 |
| 35°   | 92.7   | 112.7 | 127.3  | 130.9 |
| 37.5° | 89.1   | 110.9 | 127.3  | 132.7 |
| 40°   | 87.3   | 109.1 | 125.4  | 132.7 |
| 42.5° | 83.6   | 109.1 | 125.4  | 132.7 |
| 45°   | 81.8   | 107.3 | 125.4  | 132.7 |
| 47.5° | 80.0   | 105.4 | 125.4  | 132.7 |
| 50°   | 76.4   | 103.6 | 123.6  | 132.7 |
| 52.5° | 74.5   | 101.8 | 123.6  | 132.7 |
| 55°   | 70.9   | 100.0 | 121.8  | 130.9 |
| 57.5° | 69.1   | 96.4  | 120.0  | 127.3 |
| 60°   | 65.4   | 92.7  | 116.4  | 123.6 |
| 62.5° | 60.0   | 87.3  | 110.9  | 120.0 |
| 65°   | 54.5   | 80.0  | 105.4  | 112.7 |
| 67.5° | 49.1   | 74.5  | 98.2   | 105.4 |
| 70°   | 43.6   | 67.3  | 89.1   | 96.4  |
| 72.5° | 38.2   | 58.2  | 80.0   | 85.4  |
| 75°   | 32.7   | 49.1  | 67.3   | 74.5  |
| 77.5° | 25.5   | 40.0  | 56.4   | 61.8  |
| 80°   | 20.0   | 32.7  | 43.6   | 47.3  |
| 82.5° | 16.4   | 23.6  | 32.7   | 34.5  |
| 85°   | 10.9   | 14.5  | 20.0   | 23.6  |
| 87.5° | 5.5    | 7.3   | 9.1    | 10.9  |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   |

(END OF REPORT)