

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P844501

Luminaire Tested: **LD6C40DE010B2750 EU6C40B40 6LBSQLI**

Issue Date: 5/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P844501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C40DE010B2750 EU6C40B40 6LBSQLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

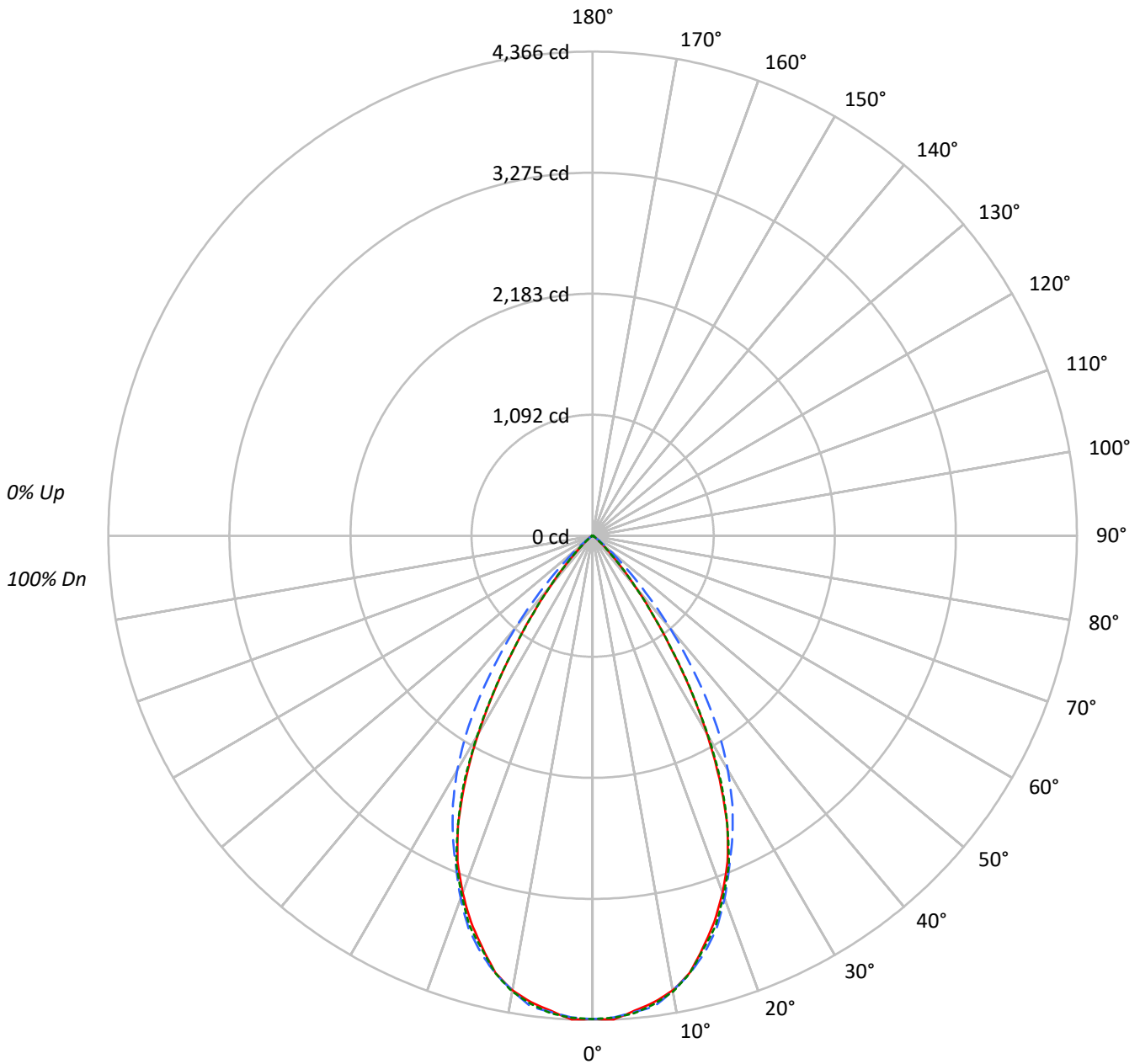
Lumens per Lamp: N/A  
Luminaire Lumens: 4095.1 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.8  
Input Voltage (V):  
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: 25 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  |     |    |    |   |
| 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 |    |    |   |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |   |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 87  |    |    |   |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |   |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |    |    |   |
| 5   | 92  | 83  | 78  | 73  | 90  | 82  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 72  | 77  | 74  | 71  | 69  |    |    |   |
| 6   | 87  | 78  | 72  | 68  | 86  | 77  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 65  |    |    |   |
| 7   | 83  | 73  | 67  | 63  | 81  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 66  | 62  | 69  | 65  | 62  | 60  |    |    |   |
| 8   | 79  | 69  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 58  | 66  | 62  | 58  | 65  | 61  | 58  | 56  |    |    |   |
| 9   | 75  | 65  | 59  | 55  | 74  | 64  | 59  | 55  | 64  | 58  | 55  | 63  | 58  | 54  | 62  | 57  | 54  | 53  |    |    |   |
| 10  | 71  | 61  | 55  | 52  | 70  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 55  | 51  | 59  | 54  | 51  | 50  |    |    |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 187632 | 187632 | 187632 |
| 5°  | 185855 | 186331 | 186802 |
| 10° | 181997 | 181997 | 182487 |
| 15° | 171358 | 173560 | 171968 |
| 20° | 156888 | 159413 | 158025 |
| 25° | 136325 | 141665 | 136453 |
| 30° | 102525 | 121233 | 103485 |
| 35° | 63652  | 93386  | 63941  |
| 40° | 33498  | 60814  | 33341  |
| 45° | 13877  | 30427  | 14206  |
| 50° | 5332   | 11407  | 5332   |
| 55° | 2890   | 3498   | 2680   |
| 60° | 1903   | 1645   | 1903   |
| 65° | 1110   | 1110   | 1110   |
| 70° | 692    | 1032   | 692    |
| 75° | 449    | 449    | 449    |
| 80° | 669    | 669    | 669    |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 408.0  | 10.0      |
| 10°-20°   | 1085.3 | 26.5      |
| 20°-30°   | 1331.9 | 32.5      |
| 30°-40°   | 919.5  | 22.5      |
| 40°-50°   | 287.5  | 7.0       |
| 50°-60°   | 44.9   | 1.1       |
| 60°-70°   | 12.9   | 0.3       |
| 70°-80°   | 4.2    | 0.1       |
| 80°-90°   | 0.9    | 0.0       |
| 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°    | 2825.1 | 69.0      |
| 0°-40°    | 3744.6 | 91.4      |
| 0°-60°    | 4077.0 | 99.6      |
| 0°-90°    | 4095.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4095.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4358 | 4358  | 4358 | 4358  | 4358 |      |
| 5°  | 4300 | 4317  | 4311 | 4313  | 4322 | 407  |
| 15° | 3844 | 3899  | 3894 | 3888  | 3858 | 1075 |
| 25° | 2870 | 2944  | 2982 | 2963  | 2872 | 1286 |
| 35° | 1211 | 1432  | 1777 | 1446  | 1216 | 774  |
| 45° | 228  | 312   | 500  | 309   | 233  | 204  |
| 55° | 38   | 41    | 47   | 41    | 36   | 37   |
| 65° | 11   | 14    | 11   | 14    | 11   | 12   |
| 75° | 3    | 3     | 3    | 3     | 3    | 4    |
| 85° | 0    | 0     | 0    | 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°    | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 |
| 2.5°  | 4366.0 | 4305.7 | 4344.1 | 4335.8 | 4357.9 | 4371.5 | 4357.9 | 4382.5 | 4366.0 | 4346.9 | 4352.4 |
| 5°    | 4300.2 | 4308.5 | 4305.7 | 4311.2 | 4316.6 | 4316.6 | 4344.1 | 4346.9 | 4352.4 | 4311.2 | 4322.1 |
| 7.5°  | 4242.5 | 4242.5 | 4256.3 | 4250.6 | 4270.0 | 4264.5 | 4267.2 | 4289.1 | 4291.9 | 4280.9 | 4272.7 |
| 10°   | 4162.8 | 4151.8 | 4138.2 | 4138.2 | 4162.8 | 4165.5 | 4187.6 | 4190.3 | 4206.7 | 4162.8 | 4168.5 |
| 12.5° | 4039.4 | 4033.7 | 4011.8 | 4022.8 | 4042.1 | 4031.0 | 4066.7 | 4069.5 | 4064.0 | 4044.8 | 4055.8 |
| 15°   | 3844.3 | 3866.4 | 3860.7 | 3858.0 | 3901.9 | 3896.4 | 3893.7 | 3901.9 | 3904.7 | 3893.7 | 3885.5 |
| 17.5° | 3649.5 | 3668.6 | 3671.4 | 3676.8 | 3685.0 | 3693.4 | 3704.4 | 3734.6 | 3723.5 | 3715.3 | 3742.8 |
| 20°   | 3424.1 | 3415.9 | 3437.9 | 3459.8 | 3468.1 | 3468.1 | 3484.7 | 3506.5 | 3490.1 | 3479.2 | 3481.9 |
| 22.5° | 3179.9 | 3193.5 | 3182.5 | 3204.4 | 3215.5 | 3229.3 | 3245.7 | 3265.0 | 3251.2 | 3221.0 | 3256.8 |
| 25°   | 2869.6 | 2877.8 | 2913.5 | 2910.7 | 2927.2 | 2960.2 | 2984.7 | 2984.7 | 2984.7 | 2982.0 | 2982.0 |
| 27.5° | 2479.6 | 2474.1 | 2518.1 | 2548.2 | 2589.4 | 2641.7 | 2674.5 | 2726.7 | 2735.0 | 2726.7 | 2707.5 |
| 30°   | 2062.2 | 2056.7 | 2111.6 | 2150.1 | 2224.2 | 2249.1 | 2339.6 | 2389.0 | 2441.1 | 2438.5 | 2424.7 |
| 32.5° | 1628.3 | 1639.4 | 1683.3 | 1738.2 | 1798.6 | 1875.5 | 1960.6 | 2070.4 | 2117.2 | 2128.2 | 2103.3 |
| 35°   | 1211.0 | 1227.4 | 1268.6 | 1315.3 | 1389.5 | 1474.7 | 1592.6 | 1697.0 | 1776.7 | 1776.7 | 1757.4 |
| 37.5° | 873.2  | 878.7  | 917.2  | 947.4  | 1024.2 | 1101.1 | 1202.8 | 1345.5 | 1394.9 | 1414.1 | 1394.9 |
| 40°   | 596.0  | 596.0  | 617.8  | 650.8  | 713.9  | 779.9  | 873.2  | 980.2  | 1051.7 | 1082.0 | 1049.0 |
| 42.5° | 379.0  | 384.4  | 400.8  | 422.9  | 469.6  | 527.2  | 598.6  | 678.4  | 730.5  | 752.4  | 722.3  |
| 45°   | 227.9  | 233.3  | 247.2  | 263.6  | 293.8  | 329.6  | 379.0  | 436.6  | 480.6  | 499.7  | 486.0  |
| 47.5° | 137.3  | 142.8  | 148.2  | 159.3  | 181.2  | 206.0  | 230.6  | 263.6  | 291.2  | 293.8  | 288.4  |
| 50°   | 79.6   | 79.6   | 85.1   | 93.4   | 104.3  | 118.1  | 131.8  | 150.9  | 159.3  | 170.3  | 159.3  |
| 52.5° | 52.1   | 52.1   | 52.1   | 54.9   | 60.4   | 66.0   | 71.5   | 82.4   | 87.9   | 87.9   | 85.1   |
| 55°   | 38.5   | 38.5   | 38.5   | 38.5   | 41.2   | 41.2   | 41.2   | 43.9   | 46.6   | 46.6   | 46.6   |
| 57.5° | 27.5   | 27.5   | 27.5   | 30.2   | 30.2   | 30.2   | 27.5   | 27.5   | 27.5   | 27.5   | 27.5   |
| 60°   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 19.1   | 19.1   | 19.1   |
| 62.5° | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 65°   | 10.9   | 10.9   | 10.9   | 13.6   | 13.6   | 13.6   | 13.6   | 10.9   | 10.9   | 10.9   | 10.9   |
| 67.5° | 8.2    | 8.2    | 8.2    | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 8.2    | 8.2    | 8.2    |
| 70°   | 5.5    | 5.5    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    |
| 72.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 75°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 77.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 82.5° | 0.0    | 0.0    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 | 4357.9 |
| 2.5°  | 4368.8 | 4355.1 | 4355.1 | 4355.1 | 4349.6 | 4355.1 | 4363.4 | 4349.6 |
| 5°    | 4322.1 | 4327.6 | 4303.0 | 4322.1 | 4330.4 | 4316.6 | 4349.6 | 4322.1 |
| 7.5°  | 4280.9 | 4272.7 | 4234.2 | 4261.7 | 4278.2 | 4283.6 | 4280.9 | 4259.1 |
| 10°   | 4198.5 | 4179.3 | 4162.8 | 4162.8 | 4157.3 | 4154.6 | 4184.8 | 4174.0 |
| 12.5° | 4050.3 | 4064.0 | 4039.4 | 4053.1 | 4042.1 | 4044.8 | 4047.6 | 4042.1 |
| 15°   | 3924.0 | 3910.3 | 3877.3 | 3899.2 | 3885.5 | 3871.9 | 3899.2 | 3858.0 |
| 17.5° | 3726.1 | 3723.5 | 3704.4 | 3690.6 | 3696.1 | 3693.4 | 3707.0 | 3687.9 |
| 20°   | 3492.8 | 3498.3 | 3487.3 | 3481.9 | 3473.7 | 3454.3 | 3470.9 | 3448.9 |
| 22.5° | 3240.2 | 3245.7 | 3256.8 | 3234.7 | 3237.4 | 3210.1 | 3234.7 | 3210.1 |
| 25°   | 2984.7 | 2982.0 | 2968.4 | 2957.5 | 2927.2 | 2897.0 | 2891.5 | 2872.3 |
| 27.5° | 2704.8 | 2685.6 | 2652.7 | 2616.9 | 2570.3 | 2529.0 | 2526.3 | 2512.6 |
| 30°   | 2397.2 | 2356.0 | 2295.7 | 2238.0 | 2166.7 | 2103.3 | 2103.3 | 2081.5 |
| 32.5° | 2073.3 | 1979.8 | 1897.4 | 1826.1 | 1732.7 | 1697.0 | 1661.3 | 1642.2 |
| 35°   | 1686.1 | 1603.7 | 1504.7 | 1386.8 | 1342.8 | 1255.0 | 1260.4 | 1216.5 |
| 37.5° | 1320.8 | 1219.2 | 1125.9 | 1029.8 | 952.8  | 911.7  | 889.6  | 867.8  |
| 40°   | 980.2  | 881.4  | 779.9  | 716.7  | 648.1  | 612.4  | 598.6  | 593.2  |
| 42.5° | 669.9  | 587.5  | 521.7  | 469.6  | 433.8  | 395.4  | 384.4  | 379.0  |
| 45°   | 436.6  | 389.9  | 329.6  | 288.4  | 263.6  | 241.8  | 241.8  | 233.3  |
| 47.5° | 260.9  | 230.6  | 200.5  | 173.0  | 156.6  | 142.8  | 137.3  | 134.5  |
| 50°   | 145.5  | 129.0  | 112.6  | 101.5  | 90.6   | 82.4   | 79.6   | 79.6   |
| 52.5° | 79.6   | 71.5   | 66.0   | 57.6   | 52.1   | 52.1   | 52.1   | 49.4   |
| 55°   | 41.2   | 41.2   | 41.2   | 41.2   | 38.5   | 38.5   | 38.5   | 35.7   |
| 57.5° | 27.5   | 27.5   | 30.2   | 30.2   | 30.2   | 27.5   | 27.5   | 27.5   |
| 60°   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   | 22.1   |
| 62.5° | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   |
| 65°   | 10.9   | 13.6   | 13.6   | 13.6   | 13.6   | 10.9   | 10.9   | 10.9   |
| 67.5° | 8.2    | 10.9   | 10.9   | 10.9   | 8.2    | 8.2    | 8.2    | 8.2    |
| 70°   | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 5.5    | 5.5    | 5.5    |
| 72.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 75°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 77.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 82.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°









(END OF REPORT)