

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: P#

Luminaire Tested: **LX6C120D010 EX6C1209050 6LBSQLI**

Issue Date: 3/23/2022

**Test Information**

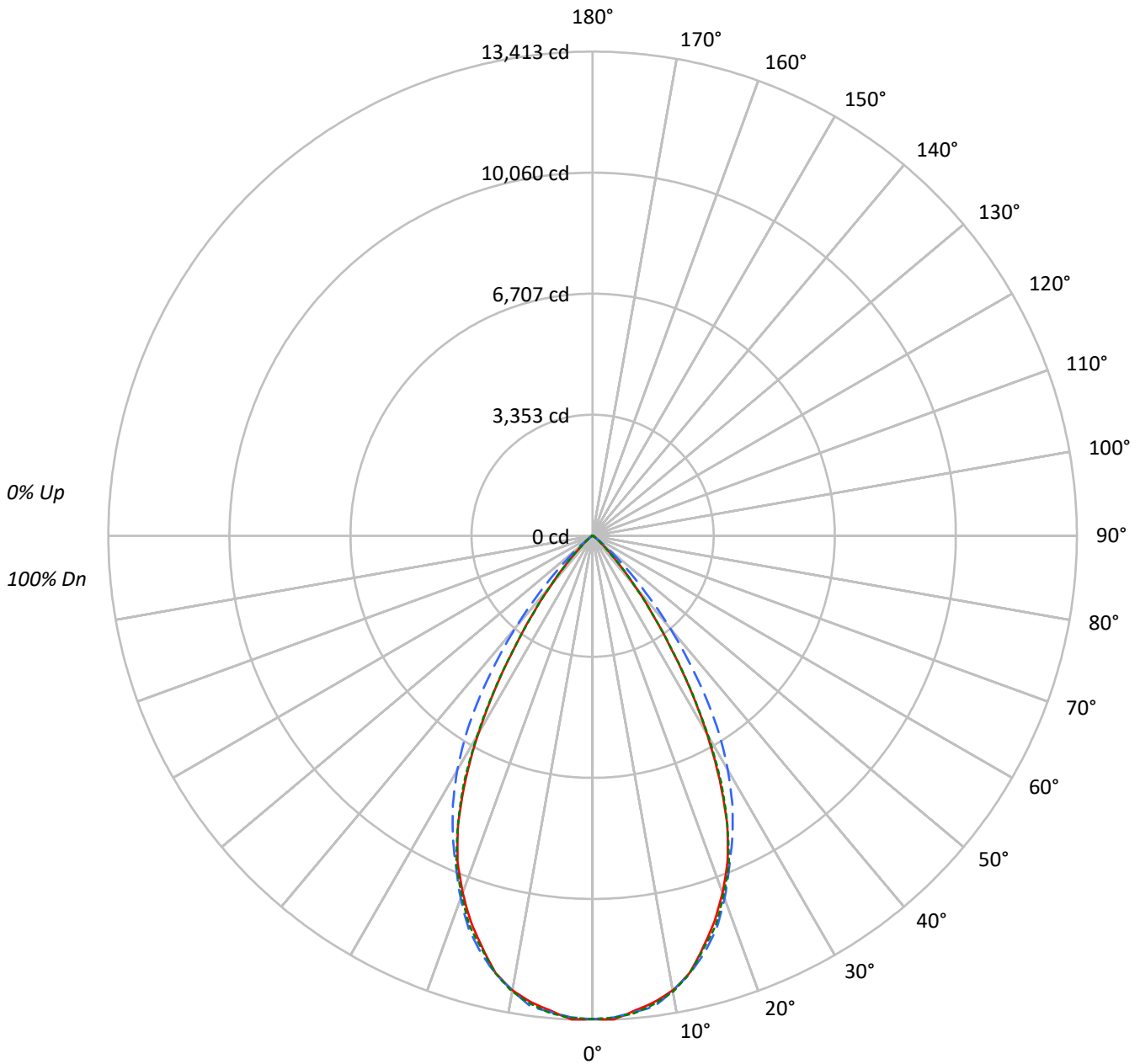
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/23/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX6C1209050 6LBSQLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBSQ TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12581.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 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): 142.3  
Input Voltage (V):  
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: 25 FT

TEST NUMBER: P#  
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### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLI

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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°  | 576429 | 576429 | 576429 |
| 5°  | 570985 | 572438 | 573890 |
| 10° | 559125 | 559125 | 560615 |
| 15° | 526443 | 533209 | 528315 |
| 20° | 481992 | 489740 | 485478 |
| 25° | 418809 | 435223 | 419208 |
| 30° | 314968 | 372440 | 317921 |
| 35° | 195549 | 286895 | 196432 |
| 40° | 102900 | 186820 | 102428 |
| 45° | 42629  | 93472  | 43652  |
| 50° | 16391  | 35039  | 16391  |
| 55° | 8873   | 10764  | 8242   |
| 60° | 5830   | 5063   | 5830   |
| 65° | 3423   | 3423   | 3423   |
| 70° | 2115   | 3172   | 2115   |
| 75° | 1397   | 1397   | 1397   |
| 80° | 2083   | 2083   | 2083   |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1253.4  | 10.0      |
| 10°-20°   | 3334.1  | 26.5      |
| 20°-30°   | 4091.9  | 32.5      |
| 30°-40°   | 2824.8  | 22.5      |
| 40°-50°   | 883.2   | 7.0       |
| 50°-60°   | 138.0   | 1.1       |
| 60°-70°   | 39.8    | 0.3       |
| 70°-80°   | 13.0    | 0.1       |
| 80°-90°   | 2.9     | 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°    | 8679.3  | 69.0      |
| 0°-40°    | 11504.1 | 91.4      |
| 0°-60°    | 12525.3 | 99.6      |
| 0°-90°    | 12581.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 12581.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 13388 | 13388 | 13388 | 13388 | 13388 |      |
| 5°  | 13211 | 13262 | 13245 | 13249 | 13278 | ###  |
| 15° | 11810 | 11979 | 11962 | 11945 | 11852 | 3303 |
| 25° | 8816  | 9043  | 9161  | 9102  | 8824  | 3950 |
| 35° | 3720  | 4400  | 5458  | 4442  | 3737  | 2377 |
| 45° | 700   | 958   | 1535  | 949   | 717   | 627  |
| 55° | 118   | 127   | 143   | 127   | 110   | 115  |
| 65° | 34    | 42    | 34    | 42    | 34    | 37   |
| 75° | 8     | 8     | 8     | 8     | 8     | 12   |
| 85° | 0     | 0     | 0     | 0     | 0     | 1    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 |
| 2.5°  | 13413.2 | 13227.9 | 13346.0 | 13320.3 | 13388.0 | 13430.1 | 13388.0 | 13463.7 | 13413.2 | 13354.4 | 13371.2 |
| 5°    | 13211.1 | 13236.3 | 13227.9 | 13244.7 | 13261.5 | 13261.5 | 13346.0 | 13354.4 | 13371.2 | 13244.7 | 13278.3 |
| 7.5°  | 13033.5 | 13033.5 | 13076.1 | 13058.7 | 13118.1 | 13101.3 | 13109.7 | 13176.9 | 13185.3 | 13151.7 | 13126.5 |
| 10°   | 12788.8 | 12755.2 | 12713.2 | 12713.2 | 12788.8 | 12797.2 | 12865.0 | 12873.4 | 12923.8 | 12788.8 | 12806.1 |
| 12.5° | 12409.6 | 12392.3 | 12325.1 | 12358.7 | 12418.0 | 12383.9 | 12493.6 | 12502.1 | 12485.2 | 12426.4 | 12460.0 |
| 15°   | 11810.4 | 11878.1 | 11860.8 | 11852.4 | 11987.4 | 11970.6 | 11962.2 | 11987.4 | 11995.8 | 11962.2 | 11937.0 |
| 17.5° | 11211.7 | 11270.5 | 11278.9 | 11295.7 | 11320.9 | 11346.6 | 11380.3 | 11473.2 | 11439.1 | 11413.9 | 11498.4 |
| 20°   | 10519.5 | 10494.3 | 10562.0 | 10629.2 | 10654.4 | 10654.4 | 10705.4 | 10772.6 | 10722.2 | 10688.6 | 10697.0 |
| 22.5° | 9769.0  | 9811.0  | 9777.4  | 9844.6  | 9878.7  | 9920.8  | 9971.2  | 10030.5 | 9988.0  | 9895.6  | 10005.3 |
| 25°   | 8815.8  | 8841.0  | 8950.7  | 8942.3  | 8992.8  | 9094.1  | 9169.7  | 9169.7  | 9169.7  | 9161.3  | 9161.3  |
| 27.5° | 7617.8  | 7601.0  | 7736.0  | 7828.4  | 7955.0  | 8115.7  | 8216.5  | 8376.7  | 8402.5  | 8376.7  | 8317.9  |
| 30°   | 6335.3  | 6318.5  | 6487.1  | 6605.3  | 6833.2  | 6909.3  | 7187.7  | 7339.5  | 7499.7  | 7491.3  | 7449.2  |
| 32.5° | 5002.4  | 5036.5  | 5171.5  | 5340.1  | 5525.5  | 5761.8  | 6023.4  | 6360.5  | 6504.4  | 6538.0  | 6461.9  |
| 35°   | 3720.4  | 3770.8  | 3897.4  | 4040.8  | 4268.7  | 4530.3  | 4892.6  | 5213.5  | 5458.3  | 5458.3  | 5398.9  |
| 37.5° | 2682.6  | 2699.5  | 2817.6  | 2910.6  | 3146.4  | 3382.7  | 3695.2  | 4133.7  | 4285.5  | 4344.3  | 4285.5  |
| 40°   | 1830.8  | 1830.8  | 1898.0  | 1999.4  | 2193.2  | 2395.9  | 2682.6  | 3011.4  | 3230.9  | 3323.9  | 3222.5  |
| 42.5° | 1164.3  | 1181.1  | 1231.6  | 1299.3  | 1442.7  | 1619.7  | 1839.2  | 2083.9  | 2244.1  | 2311.3  | 2218.9  |
| 45°   | 700.1   | 716.9   | 759.4   | 809.8   | 902.8   | 1012.6  | 1164.3  | 1341.3  | 1476.3  | 1535.1  | 1493.1  |
| 47.5° | 421.7   | 438.5   | 455.3   | 489.5   | 556.7   | 632.8   | 708.5   | 809.8   | 894.4   | 902.8   | 886.0   |
| 50°   | 244.7   | 244.7   | 261.5   | 286.8   | 320.4   | 362.9   | 404.9   | 463.7   | 489.5   | 523.1   | 489.5   |
| 52.5° | 160.2   | 160.2   | 160.2   | 168.6   | 185.4   | 202.7   | 219.5   | 253.1   | 269.9   | 269.9   | 261.5   |
| 55°   | 118.2   | 118.2   | 118.2   | 118.2   | 126.6   | 126.6   | 126.6   | 135.0   | 143.4   | 143.4   | 143.4   |
| 57.5° | 84.6    | 84.6    | 84.6    | 93.0    | 93.0    | 93.0    | 84.6    | 84.6    | 84.6    | 84.6    | 84.6    |
| 60°   | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 58.8    | 58.8    | 58.8    |
| 62.5° | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    |
| 65°   | 33.6    | 33.6    | 33.6    | 42.0    | 42.0    | 42.0    | 42.0    | 33.6    | 33.6    | 33.6    | 33.6    |
| 67.5° | 25.2    | 25.2    | 25.2    | 33.6    | 33.6    | 33.6    | 33.6    | 33.6    | 25.2    | 25.2    | 25.2    |
| 70°   | 16.8    | 16.8    | 25.2    | 25.2    | 25.2    | 25.2    | 25.2    | 25.2    | 25.2    | 25.2    | 25.2    |
| 72.5° | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    |
| 75°   | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 77.5° | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 80°   | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 82.5° | 0.0     | 0.0     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 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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CATALOG NUMBER: LX6C120D010 EX6C1209050 6LBSQLI

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 | 13388.0 |
| 2.5°  | 13421.7 | 13379.6 | 13379.6 | 13379.6 | 13362.8 | 13379.6 | 13404.8 | 13362.8 |
| 5°    | 13278.3 | 13295.1 | 13219.5 | 13278.3 | 13303.5 | 13261.5 | 13362.8 | 13278.3 |
| 7.5°  | 13151.7 | 13126.5 | 13008.3 | 13092.9 | 13143.3 | 13160.1 | 13151.7 | 13084.5 |
| 10°   | 12898.6 | 12839.7 | 12788.8 | 12788.8 | 12772.0 | 12763.6 | 12856.6 | 12822.9 |
| 12.5° | 12443.2 | 12485.2 | 12409.6 | 12451.6 | 12418.0 | 12426.4 | 12434.8 | 12418.0 |
| 15°   | 12055.1 | 12013.1 | 11911.7 | 11979.0 | 11937.0 | 11894.9 | 11979.0 | 11852.4 |
| 17.5° | 11447.5 | 11439.1 | 11380.3 | 11338.2 | 11355.0 | 11346.6 | 11388.7 | 11329.8 |
| 20°   | 10730.6 | 10747.4 | 10713.8 | 10697.0 | 10671.8 | 10612.4 | 10663.4 | 10595.6 |
| 22.5° | 9954.4  | 9971.2  | 10005.3 | 9937.6  | 9946.0  | 9861.9  | 9937.6  | 9861.9  |
| 25°   | 9169.7  | 9161.3  | 9119.3  | 9085.7  | 8992.8  | 8899.8  | 8883.0  | 8824.2  |
| 27.5° | 8309.5  | 8250.7  | 8149.3  | 8039.5  | 7896.2  | 7769.6  | 7761.2  | 7719.2  |
| 30°   | 7364.7  | 7238.1  | 7052.7  | 6875.2  | 6656.2  | 6461.9  | 6461.9  | 6394.7  |
| 32.5° | 6369.5  | 6082.2  | 5829.0  | 5610.0  | 5323.3  | 5213.5  | 5103.8  | 5044.9  |
| 35°   | 5179.9  | 4926.8  | 4622.7  | 4260.3  | 4125.3  | 3855.4  | 3872.2  | 3737.2  |
| 37.5° | 4057.6  | 3745.6  | 3458.9  | 3163.7  | 2927.4  | 2800.8  | 2733.1  | 2665.8  |
| 40°   | 3011.4  | 2707.9  | 2395.9  | 2201.6  | 1991.0  | 1881.2  | 1839.2  | 1822.4  |
| 42.5° | 2058.2  | 1805.1  | 1602.9  | 1442.7  | 1332.9  | 1214.8  | 1181.1  | 1164.3  |
| 45°   | 1341.3  | 1197.9  | 1012.6  | 886.0   | 809.8   | 742.6   | 742.6   | 716.9   |
| 47.5° | 801.4   | 708.5   | 616.0   | 531.5   | 481.1   | 438.5   | 421.7   | 413.3   |
| 50°   | 446.9   | 396.5   | 346.1   | 312.0   | 278.3   | 253.1   | 244.7   | 244.7   |
| 52.5° | 244.7   | 219.5   | 202.7   | 177.0   | 160.2   | 160.2   | 160.2   | 151.8   |
| 55°   | 126.6   | 126.6   | 126.6   | 126.6   | 118.2   | 118.2   | 118.2   | 109.8   |
| 57.5° | 84.6    | 84.6    | 93.0    | 93.0    | 93.0    | 84.6    | 84.6    | 84.6    |
| 60°   | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    | 67.7    |
| 62.5° | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    | 50.4    |
| 65°   | 33.6    | 42.0    | 42.0    | 42.0    | 42.0    | 33.6    | 33.6    | 33.6    |
| 67.5° | 25.2    | 33.6    | 33.6    | 33.6    | 25.2    | 25.2    | 25.2    | 25.2    |
| 70°   | 25.2    | 25.2    | 25.2    | 25.2    | 25.2    | 16.8    | 16.8    | 16.8    |
| 72.5° | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    | 16.8    |
| 75°   | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 77.5° | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 80°   | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 82.5° | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 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)