

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P147368

Luminaire Tested: **TLM-E06-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147368  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TLM-E06-LED-E1-5MQ-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (126) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

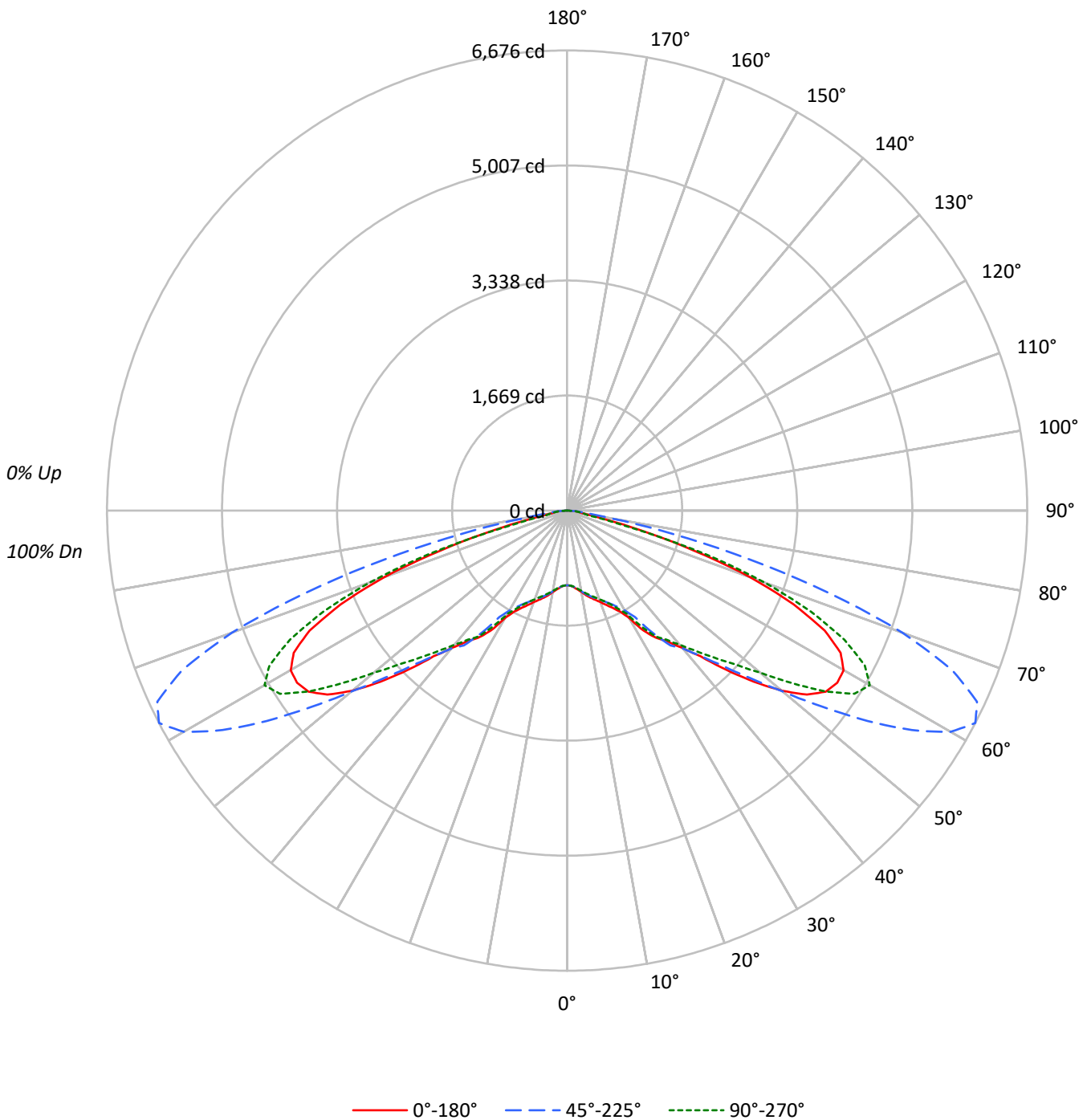
Lumens per Lamp: N/A  
Luminaire Lumens: 16325.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 150.5  
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: 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 106 | 100 | 94  | 90  | 103 | 97  | 93  | 88  | 93  | 89  | 85  | 89  | 86  | 83  | 85  | 83  | 80  | 78  |
| 2   | 93  | 82  | 73  | 66  | 90  | 80  | 72  | 65  | 76  | 70  | 64  | 73  | 67  | 62  | 70  | 65  | 61  | 58  |
| 3   | 82  | 68  | 58  | 50  | 79  | 67  | 57  | 49  | 63  | 55  | 48  | 60  | 53  | 47  | 57  | 51  | 46  | 44  |
| 4   | 73  | 57  | 46  | 38  | 70  | 56  | 46  | 38  | 53  | 44  | 37  | 51  | 43  | 36  | 48  | 41  | 36  | 33  |
| 5   | 65  | 49  | 38  | 30  | 63  | 48  | 37  | 30  | 46  | 36  | 29  | 43  | 35  | 29  | 41  | 34  | 28  | 26  |
| 6   | 59  | 43  | 32  | 24  | 57  | 42  | 31  | 24  | 40  | 30  | 23  | 38  | 29  | 23  | 36  | 29  | 23  | 20  |
| 7   | 54  | 37  | 27  | 20  | 52  | 37  | 27  | 19  | 35  | 26  | 19  | 33  | 25  | 19  | 32  | 24  | 19  | 16  |
| 8   | 49  | 33  | 23  | 16  | 47  | 33  | 23  | 16  | 31  | 22  | 16  | 30  | 22  | 16  | 28  | 21  | 16  | 13  |
| 9   | 46  | 30  | 20  | 14  | 44  | 29  | 20  | 14  | 28  | 20  | 14  | 27  | 19  | 14  | 26  | 19  | 13  | 11  |
| 10  | 42  | 27  | 18  | 12  | 41  | 27  | 18  | 12  | 25  | 17  | 12  | 24  | 17  | 12  | 23  | 17  | 12  | 10  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 11665  | 11665  | 11665  |
| 5°  | 12056  | 11991  | 11964  |
| 10° | 13118  | 12979  | 12915  |
| 15° | 14559  | 14286  | 14146  |
| 20° | 16183  | 15797  | 15662  |
| 25° | 18474  | 17722  | 17863  |
| 30° | 22313  | 20811  | 21526  |
| 35° | 29622  | 28536  | 29256  |
| 40° | 36526  | 36633  | 35696  |
| 45° | 49759  | 48347  | 45917  |
| 50° | 68051  | 68406  | 61309  |
| 55° | 85957  | 99863  | 85845  |
| 60° | 99695  | 138232 | 109125 |
| 65° | 104986 | 167111 | 113070 |
| 70° | 89061  | 162903 | 95727  |
| 75° | 45174  | 114356 | 39243  |
| 80° | 14331  | 39709  | 14437  |
| 85° | 15537  | 20637  | 15845  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 108.6   | 0.7       |
| 10°-20°   | 367.1   | 2.2       |
| 20°-30°   | 709.8   | 4.3       |
| 30°-40°   | 1374.3  | 8.4       |
| 40°-50°   | 2481.4  | 15.2      |
| 50°-60°   | 4314.9  | 26.4      |
| 60°-70°   | 4898.5  | 30.0      |
| 70°-80°   | 1899.1  | 11.6      |
| 80°-90°   | 171.3   | 1.0       |
| 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°    | 1185.5  | 7.3       |
| 0°-40°    | 2559.8  | 15.7      |
| 0°-60°    | 9356.1  | 57.3      |
| 0°-90°    | 16325.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 16325.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1084 | 1084  | 1084 | 1084  | 1084 |      |
| 5°  | 1116 | 1114  | 1110 | 1109  | 1107 | 109  |
| 15° | 1306 | 1297  | 1282 | 1273  | 1269 | 373  |
| 25° | 1556 | 1524  | 1492 | 1493  | 1504 | 733  |
| 35° | 2254 | 2211  | 2172 | 2210  | 2226 | 1409 |
| 45° | 3269 | 3194  | 3176 | 3052  | 3016 | 2560 |
| 55° | 4580 | 4801  | 5321 | 4736  | 4574 | 4033 |
| 65° | 4122 | 4732  | 6561 | 5094  | 4439 | 3930 |
| 75° | 1086 | 1520  | 2750 | 1438  | 944  | 1316 |
| 85° | 126  | 180   | 167  | 180   | 128  | 123  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P147368

CATALOG NUMBER: TLM-E06-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 |
| 2.5°  | 1090.4 | 1093.8 | 1093.0 | 1091.3 | 1091.3 | 1091.3 | 1090.4 | 1087.9 | 1087.1 | 1088.8 | 1090.4 |
| 5°    | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1114.0 | 1114.0 | 1112.4 | 1110.7 | 1111.5 | 1109.8 | 1109.0 |
| 7.5°  | 1154.6 | 1152.1 | 1152.0 | 1151.2 | 1151.2 | 1149.5 | 1147.0 | 1143.6 | 1144.4 | 1143.6 | 1142.8 |
| 10°   | 1200.2 | 1201.0 | 1198.4 | 1201.0 | 1196.8 | 1196.0 | 1192.6 | 1190.9 | 1190.0 | 1187.5 | 1187.5 |
| 12.5° | 1255.0 | 1252.4 | 1252.5 | 1250.8 | 1249.1 | 1247.4 | 1242.4 | 1241.5 | 1238.2 | 1236.4 | 1233.9 |
| 15°   | 1306.5 | 1305.6 | 1302.2 | 1298.9 | 1298.0 | 1296.4 | 1290.4 | 1287.0 | 1286.2 | 1282.0 | 1278.6 |
| 17.5° | 1358.0 | 1356.3 | 1352.1 | 1350.4 | 1347.0 | 1344.4 | 1339.4 | 1334.4 | 1331.8 | 1330.1 | 1325.9 |
| 20°   | 1412.8 | 1411.1 | 1406.9 | 1403.6 | 1399.4 | 1396.0 | 1388.4 | 1384.2 | 1381.6 | 1379.1 | 1375.7 |
| 22.5° | 1481.2 | 1477.8 | 1471.1 | 1465.2 | 1455.8 | 1452.5 | 1442.4 | 1436.5 | 1432.2 | 1428.8 | 1427.2 |
| 25°   | 1555.5 | 1556.4 | 1547.1 | 1539.4 | 1528.4 | 1519.2 | 1506.5 | 1499.8 | 1495.6 | 1492.2 | 1491.4 |
| 27.5° | 1648.3 | 1649.2 | 1640.7 | 1629.7 | 1612.8 | 1602.7 | 1585.8 | 1577.4 | 1574.9 | 1571.5 | 1570.6 |
| 30°   | 1795.2 | 1787.6 | 1773.2 | 1755.5 | 1740.3 | 1718.4 | 1693.9 | 1685.4 | 1677.0 | 1674.4 | 1674.4 |
| 32.5° | 2065.2 | 2061.0 | 2049.2 | 2005.4 | 1985.0 | 1939.5 | 1896.4 | 1872.0 | 1844.2 | 1830.6 | 1822.2 |
| 35°   | 2254.3 | 2252.6 | 2243.4 | 2228.2 | 2215.4 | 2206.2 | 2180.8 | 2176.6 | 2171.6 | 2171.6 | 2178.4 |
| 37.5° | 2393.6 | 2383.4 | 2381.8 | 2384.2 | 2380.9 | 2382.6 | 2402.8 | 2430.7 | 2454.4 | 2466.2 | 2464.4 |
| 40°   | 2599.5 | 2585.2 | 2593.6 | 2587.6 | 2580.0 | 2578.4 | 2585.1 | 2596.2 | 2607.1 | 2607.1 | 2604.6 |
| 42.5° | 2868.8 | 2875.4 | 2878.9 | 2854.4 | 2838.4 | 2834.1 | 2850.2 | 2846.8 | 2857.8 | 2853.5 | 2842.6 |
| 45°   | 3268.8 | 3264.6 | 3258.6 | 3229.1 | 3203.8 | 3183.5 | 3187.8 | 3181.9 | 3182.6 | 3176.0 | 3167.5 |
| 47.5° | 3672.2 | 3686.6 | 3662.1 | 3647.8 | 3619.0 | 3604.6 | 3616.5 | 3606.4 | 3625.8 | 3590.4 | 3573.4 |
| 50°   | 4063.8 | 4074.0 | 4065.6 | 4045.2 | 4045.2 | 4065.5 | 4079.8 | 4098.4 | 4125.4 | 4085.0 | 4024.2 |
| 52.5° | 4384.5 | 4393.0 | 4405.6 | 4422.5 | 4463.8 | 4506.9 | 4567.7 | 4632.6 | 4684.2 | 4676.6 | 4607.4 |
| 55°   | 4580.4 | 4590.4 | 4611.6 | 4669.8 | 4744.1 | 4857.2 | 4994.8 | 5145.8 | 5264.0 | 5321.4 | 5270.7 |
| 57.5° | 4646.2 | 4653.8 | 4711.2 | 4781.2 | 4896.8 | 5064.8 | 5295.2 | 5556.0 | 5783.0 | 5927.4 | 5904.5 |
| 60°   | 4631.0 | 4631.0 | 4689.2 | 4785.4 | 4947.5 | 5170.3 | 5496.0 | 5857.3 | 6205.0 | 6421.1 | 6389.0 |
| 62.5° | 4471.5 | 4479.9 | 4563.4 | 4679.0 | 4874.9 | 5141.5 | 5529.8 | 5991.5 | 6407.6 | 6676.0 | 6649.8 |
| 65°   | 4122.0 | 4128.0 | 4218.3 | 4355.8 | 4574.4 | 4890.1 | 5314.6 | 5826.0 | 6302.9 | 6561.2 | 6512.2 |
| 67.5° | 3557.4 | 3563.4 | 3636.8 | 3792.0 | 4023.3 | 4353.3 | 4811.6 | 5374.6 | 5841.3 | 6045.5 | 5898.6 |
| 70°   | 2829.9 | 2846.8 | 2894.0 | 3058.6 | 3234.1 | 3557.4 | 3979.4 | 4542.4 | 4982.9 | 5176.2 | 5014.2 |
| 72.5° | 1928.5 | 1971.6 | 2029.0 | 2175.0 | 2342.9 | 2611.3 | 2947.2 | 3421.6 | 3775.2 | 3998.8 | 3854.5 |
| 75°   | 1086.2 | 1147.0 | 1164.7 | 1275.2 | 1413.7 | 1625.5 | 1871.2 | 2211.2 | 2568.3 | 2749.7 | 2575.9 |
| 77.5° | 469.3  | 519.0  | 541.0  | 592.5  | 700.5  | 789.1  | 938.5  | 1168.1 | 1444.0 | 1571.6 | 1363.0 |
| 80°   | 231.2  | 243.1  | 252.3  | 268.4  | 298.8  | 327.5  | 398.4  | 498.8  | 611.9  | 640.6  | 509.8  |
| 82.5° | 179.0  | 187.4  | 203.4  | 216.0  | 223.6  | 231.2  | 238.0  | 251.5  | 262.5  | 268.4  | 253.2  |
| 85°   | 125.8  | 136.8  | 154.4  | 168.8  | 177.2  | 183.1  | 189.0  | 193.2  | 183.2  | 167.1  | 175.5  |
| 87.5° | 32.9   | 43.0   | 60.0   | 65.0   | 73.4   | 77.6   | 76.0   | 78.4   | 70.9   | 51.5   | 57.4   |
| 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°    | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 |
| 2.5°  | 1089.6 | 1088.8 | 1089.6 | 1089.6 | 1089.6 | 1088.8 | 1088.8 | 1088.7 |
| 5°    | 1109.0 | 1109.0 | 1109.8 | 1108.2 | 1108.2 | 1109.0 | 1108.2 | 1107.3 |
| 7.5°  | 1141.9 | 1141.1 | 1141.0 | 1140.2 | 1141.1 | 1140.2 | 1140.2 | 1139.4 |
| 10°   | 1185.8 | 1184.1 | 1184.9 | 1182.4 | 1182.4 | 1181.6 | 1181.6 | 1181.6 |
| 12.5° | 1233.1 | 1230.6 | 1231.4 | 1228.8 | 1224.6 | 1225.5 | 1226.3 | 1225.5 |
| 15°   | 1278.6 | 1276.1 | 1273.6 | 1271.9 | 1269.4 | 1270.2 | 1270.2 | 1269.4 |
| 17.5° | 1325.0 | 1320.0 | 1319.2 | 1316.6 | 1315.8 | 1315.8 | 1315.8 | 1316.6 |
| 20°   | 1373.2 | 1369.8 | 1368.9 | 1366.4 | 1365.6 | 1368.1 | 1369.0 | 1367.3 |
| 22.5° | 1424.6 | 1423.0 | 1424.6 | 1423.0 | 1425.5 | 1427.2 | 1428.0 | 1426.3 |
| 25°   | 1489.6 | 1487.9 | 1490.5 | 1496.4 | 1499.8 | 1501.4 | 1505.6 | 1504.0 |
| 27.5° | 1573.2 | 1571.6 | 1577.4 | 1585.8 | 1591.0 | 1599.4 | 1603.6 | 1605.3 |
| 30°   | 1681.2 | 1688.8 | 1692.2 | 1709.1 | 1712.4 | 1726.0 | 1726.0 | 1731.9 |
| 32.5° | 1838.2 | 1852.6 | 1877.9 | 1904.0 | 1940.3 | 1966.5 | 1966.5 | 1980.0 |
| 35°   | 2182.6 | 2188.4 | 2207.9 | 2212.1 | 2219.7 | 2228.1 | 2219.7 | 2226.4 |
| 37.5° | 2446.7 | 2420.6 | 2402.0 | 2375.8 | 2359.8 | 2359.8 | 2361.5 | 2359.8 |
| 40°   | 2581.8 | 2571.6 | 2563.2 | 2541.2 | 2537.8 | 2537.0 | 2537.0 | 2540.4 |
| 42.5° | 2823.1 | 2798.7 | 2785.2 | 2766.6 | 2760.7 | 2759.0 | 2758.2 | 2759.9 |
| 45°   | 3137.1 | 3097.4 | 3061.1 | 3042.6 | 3026.6 | 3011.4 | 3016.4 | 3016.4 |
| 47.5° | 3502.6 | 3441.0 | 3381.8 | 3349.8 | 3322.0 | 3309.3 | 3300.8 | 3298.3 |
| 50°   | 3947.4 | 3861.2 | 3785.3 | 3725.4 | 3684.8 | 3684.0 | 3688.2 | 3661.2 |
| 52.5° | 4492.6 | 4356.7 | 4262.2 | 4181.2 | 4143.2 | 4139.0 | 4125.4 | 4110.2 |
| 55°   | 5096.8 | 4935.6 | 4779.6 | 4692.6 | 4642.8 | 4615.8 | 4599.8 | 4574.4 |
| 57.5° | 5719.7 | 5502.8 | 5278.4 | 5139.0 | 5051.3 | 4990.5 | 4958.5 | 4944.1 |
| 60°   | 6200.0 | 5903.7 | 5607.5 | 5383.8 | 5237.8 | 5147.5 | 5091.8 | 5069.0 |
| 62.5° | 6389.0 | 5987.3 | 5607.5 | 5313.8 | 5102.8 | 4977.8 | 4902.8 | 4869.8 |
| 65°   | 6163.7 | 5687.6 | 5255.6 | 4931.5 | 4696.0 | 4556.8 | 4474.8 | 4439.4 |
| 67.5° | 5534.0 | 5113.8 | 4643.6 | 4321.2 | 4079.0 | 3941.4 | 3852.8 | 3826.7 |
| 70°   | 4639.4 | 4209.8 | 3760.8 | 3473.0 | 3257.0 | 3144.8 | 3052.7 | 3041.7 |
| 72.5° | 3486.5 | 3116.0 | 2731.2 | 2493.1 | 2319.2 | 2133.6 | 2086.4 | 2110.0 |
| 75°   | 2234.8 | 1888.0 | 1545.4 | 1331.0 | 1172.3 | 995.0  | 926.7  | 943.6  |
| 77.5° | 1058.4 | 819.5  | 591.6  | 457.4  | 384.0  | 328.3  | 314.0  | 305.5  |
| 80°   | 392.4  | 318.2  | 281.0  | 266.7  | 256.6  | 247.2  | 240.5  | 232.9  |
| 82.5° | 254.0  | 248.2  | 240.6  | 238.0  | 230.4  | 218.6  | 196.6  | 187.4  |
| 85°   | 189.8  | 189.8  | 179.8  | 180.6  | 174.7  | 159.5  | 139.2  | 128.3  |
| 87.5° | 55.7   | 49.8   | 45.6   | 42.2   | 41.4   | 37.2   | 27.0   | 23.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)