

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: STREETWORKS

Report Number: P399112

Luminaire Tested: **ARCH-L-PA3-100-722-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-722-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12384 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

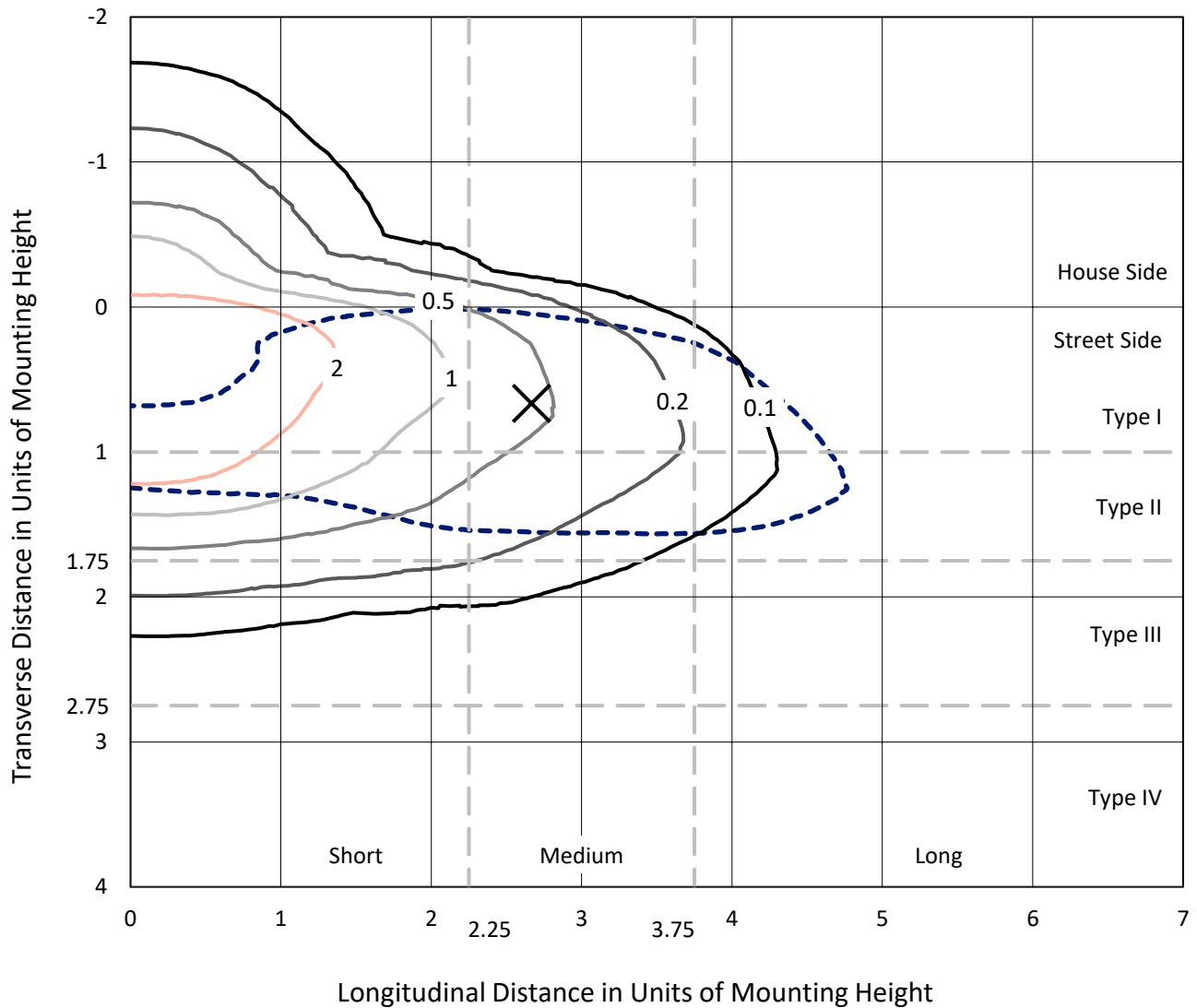
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

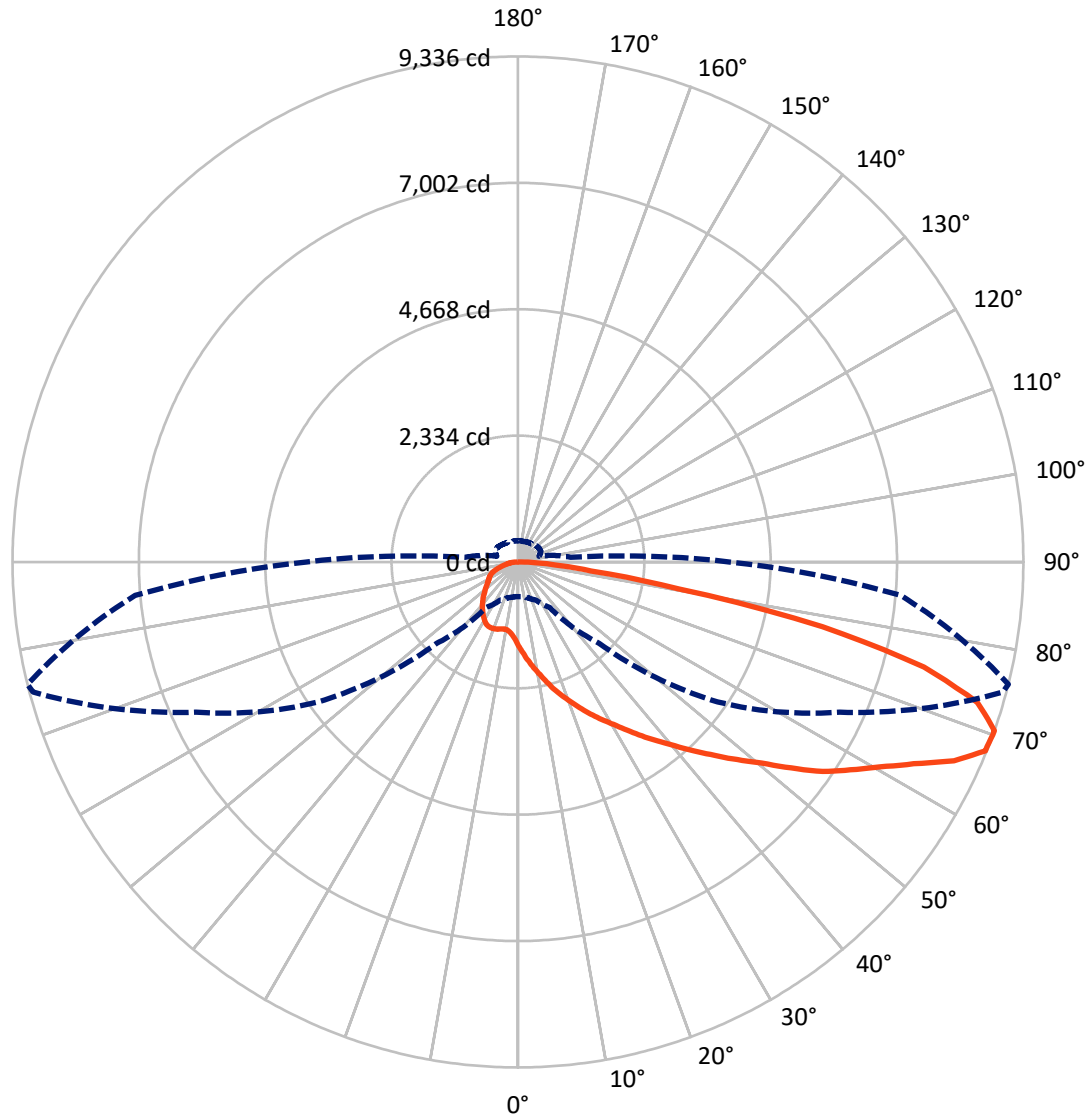
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2021.8 | 0.0 | 2021.8 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 10362.2 | 0.0 | 10362.2 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 12384.0 | 0.0 | 12384.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.9 | 1.3 |
| 10°-20° | 546.9 | 4.4 |
| 20°-30° | 978.5 | 7.9 |
| 30°-40° | 1582.8 | 12.8 |
| 40°-50° | 2289.8 | 18.5 |
| 50°-60° | 2620.8 | 21.2 |
| 60°-70° | 2410.8 | 19.5 |
| 70°-80° | 1490.8 | 12.0 |
| 80°-90° | 302.7 | 2.4 |
| 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°-90° | 12384.0 | 100.0 |
| 0°-180° | 12384.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P399112

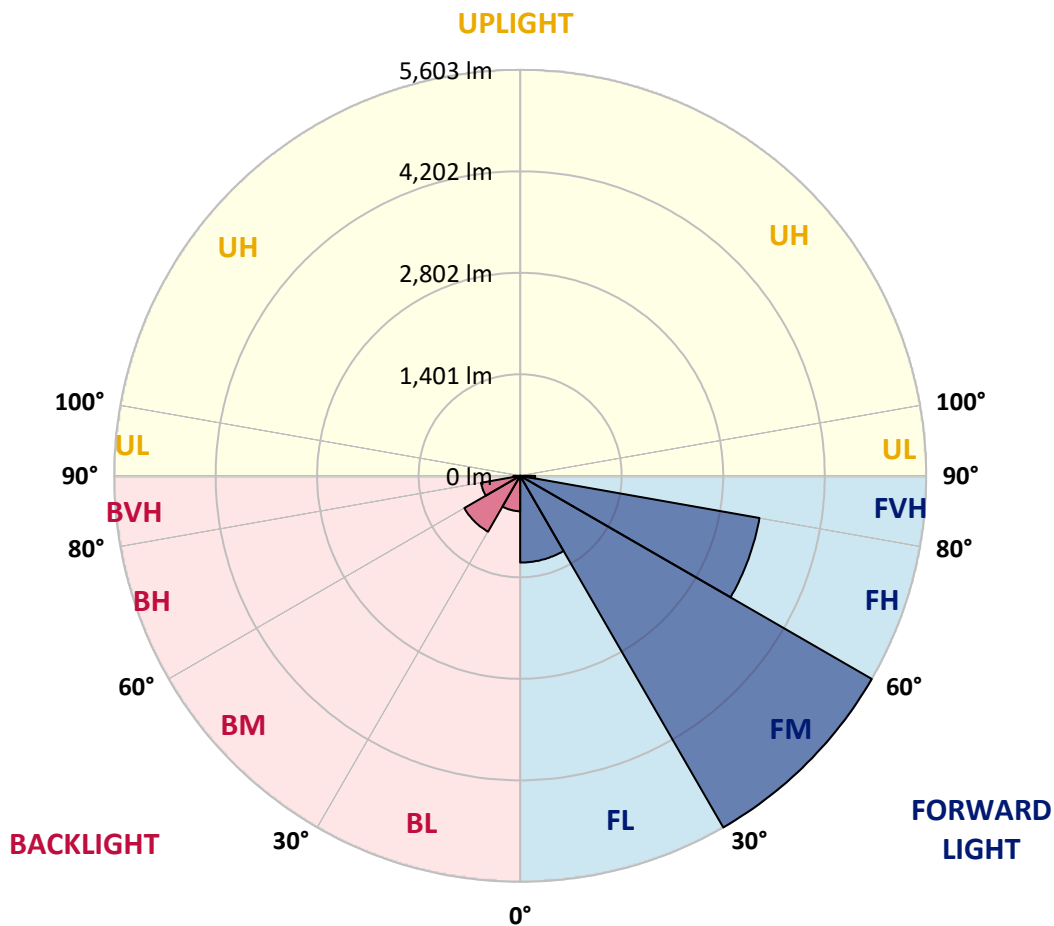
CATALOG NUMBER: ARCH-L-PA3-100-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1197.9 | 9.7 | | | |
| FM (30°-60°) | 5603.2 | 45.2 | | | |
| FH (60°-80°) | 3353.2 | 27.1 | | | G2/5000 |
| FVH (80°-90°) | 207.8 | 1.7 | | | G2/225 |
| BL (0°-30°) | 488.3 | 3.9 | B1/500 | | |
| BM (30°-60°) | 890.2 | 7.2 | B1/1000 | | |
| BH (60°-80°) | 548.4 | 4.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 94.9 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P399112

CATALOG NUMBER: ARCH-L-PA3-100-722-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 |
| 2.5° | 1973.7 | 1959.0 | 1957.4 | 1934.6 | 1913.4 | 1856.5 | 1815.7 | 1744.1 | 1672.4 | 1670.8 | 1599.2 |
| 5° | 2281.5 | 2266.8 | 2258.7 | 2231.0 | 2195.2 | 2120.3 | 2047.0 | 1936.2 | 1814.1 | 1806.0 | 1670.8 |
| 7.5° | 2489.9 | 2476.9 | 2460.6 | 2449.2 | 2415.0 | 2348.2 | 2258.7 | 2126.8 | 1959.0 | 1942.8 | 1753.9 |
| 10° | 2630.0 | 2621.8 | 2618.6 | 2610.4 | 2589.3 | 2535.5 | 2449.2 | 2309.2 | 2104.0 | 2086.1 | 1841.8 |
| 12.5° | 2690.2 | 2687.0 | 2701.6 | 2724.4 | 2732.6 | 2711.4 | 2628.3 | 2496.4 | 2263.6 | 2244.0 | 1947.6 |
| 15° | 2620.2 | 2623.5 | 2660.9 | 2739.1 | 2822.1 | 2867.7 | 2818.9 | 2690.2 | 2444.3 | 2416.6 | 2071.4 |
| 17.5° | 2587.6 | 2592.5 | 2618.6 | 2693.5 | 2810.7 | 2952.4 | 2975.2 | 2874.2 | 2618.6 | 2579.5 | 2201.7 |
| 20° | 2644.6 | 2651.1 | 2670.7 | 2729.3 | 2810.7 | 2962.2 | 3081.1 | 3050.1 | 2789.6 | 2748.9 | 2327.1 |
| 22.5° | 2789.6 | 2797.7 | 2796.1 | 2833.5 | 2888.9 | 2993.1 | 3139.7 | 3216.2 | 2968.7 | 2923.1 | 2457.4 |
| 25° | 3099.0 | 3092.5 | 3037.1 | 3019.2 | 3033.8 | 3100.6 | 3217.9 | 3375.8 | 3156.0 | 3110.4 | 2594.1 |
| 27.5° | 3519.1 | 3511.0 | 3410.0 | 3318.8 | 3237.4 | 3266.7 | 3328.6 | 3504.5 | 3346.5 | 3294.4 | 2724.4 |
| 30° | 3968.6 | 3958.8 | 3841.6 | 3693.4 | 3512.6 | 3470.3 | 3462.1 | 3616.8 | 3538.7 | 3483.3 | 2862.8 |
| 32.5° | 4406.6 | 4398.5 | 4273.1 | 4100.5 | 3851.3 | 3724.3 | 3646.1 | 3742.2 | 3756.9 | 3703.1 | 3014.3 |
| 35° | 4805.6 | 4805.6 | 4698.1 | 4492.9 | 4211.2 | 4019.1 | 3890.4 | 3896.9 | 4007.7 | 3945.8 | 3186.9 |
| 37.5° | 5160.6 | 5159.0 | 5041.7 | 4839.8 | 4569.5 | 4349.6 | 4190.0 | 4084.2 | 4247.0 | 4193.3 | 3367.7 |
| 40° | 5442.3 | 5430.9 | 5344.6 | 5168.8 | 4896.8 | 4678.6 | 4517.4 | 4304.0 | 4514.1 | 4465.3 | 3559.8 |
| 42.5° | 5647.5 | 5641.0 | 5582.4 | 5429.3 | 5170.4 | 4965.2 | 4854.5 | 4580.9 | 4817.0 | 4768.2 | 3784.6 |
| 45° | 5727.3 | 5740.3 | 5740.3 | 5595.4 | 5390.2 | 5203.0 | 5154.1 | 4885.4 | 5144.3 | 5095.5 | 4025.6 |
| 47.5° | 5598.7 | 5632.9 | 5702.9 | 5712.7 | 5531.9 | 5404.9 | 5421.2 | 5191.6 | 5481.4 | 5455.4 | 4289.4 |
| 50° | 5196.4 | 5259.9 | 5413.0 | 5689.9 | 5588.9 | 5559.6 | 5649.2 | 5504.2 | 5842.9 | 5834.8 | 4610.2 |
| 52.5° | 4159.1 | 4313.8 | 4791.0 | 5287.6 | 5549.8 | 5631.2 | 5875.5 | 5856.0 | 6308.7 | 6321.7 | 5028.7 |
| 55° | 3190.2 | 3248.8 | 3800.8 | 4646.0 | 5310.4 | 5608.4 | 6027.0 | 6199.6 | 6813.5 | 6829.8 | 5413.0 |
| 57.5° | 2579.5 | 2618.6 | 2919.8 | 3800.8 | 4764.9 | 5484.7 | 6145.8 | 6399.9 | 7201.1 | 7243.4 | 5755.0 |
| 60° | 2043.7 | 2100.7 | 2302.7 | 2908.4 | 4001.1 | 5186.7 | 6228.9 | 6623.0 | 7618.0 | 7681.5 | 6163.7 |
| 62.5° | 1519.4 | 1547.0 | 1737.6 | 2154.5 | 3167.4 | 4650.9 | 6184.9 | 6865.6 | 8129.3 | 8205.8 | 6655.5 |
| 65° | 1081.3 | 1105.7 | 1240.9 | 1532.4 | 2341.7 | 3926.2 | 5929.2 | 7046.4 | 8770.9 | 8849.1 | 7150.6 |
| 67.5° | 809.3 | 819.1 | 895.7 | 1071.5 | 1578.0 | 3050.1 | 5411.4 | 7015.4 | 9239.9 | 9309.9 | 7349.3 |
| 70° | 640.0 | 643.2 | 680.7 | 775.2 | 1025.9 | 2123.5 | 4504.3 | 6561.1 | 9274.1 | 9336.0 | 7098.5 |
| 72.5° | 530.9 | 529.3 | 550.4 | 596.0 | 714.9 | 1343.5 | 3336.7 | 5717.5 | 8834.4 | 8876.8 | 6398.2 |
| 75° | 438.1 | 441.3 | 456.0 | 482.0 | 545.5 | 885.9 | 2162.6 | 4561.3 | 7793.8 | 7748.2 | 5369.1 |
| 77.5° | 368.0 | 366.4 | 372.9 | 395.7 | 441.3 | 636.7 | 1266.9 | 3296.0 | 5776.2 | 5753.4 | 3524.0 |
| 80° | 296.4 | 299.6 | 309.4 | 329.0 | 371.3 | 485.3 | 749.1 | 2056.8 | 3099.0 | 3015.9 | 1683.8 |
| 82.5° | 198.7 | 229.6 | 249.2 | 272.0 | 320.8 | 358.3 | 475.5 | 1045.5 | 1385.8 | 1364.7 | 763.8 |
| 85° | 94.5 | 125.4 | 185.6 | 211.7 | 260.6 | 224.7 | 322.4 | 498.3 | 693.7 | 685.6 | 275.2 |
| 87.5° | 19.5 | 19.5 | 99.3 | 118.9 | 161.2 | 96.1 | 179.1 | 216.6 | 335.5 | 314.3 | 112.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P399112

CATALOG NUMBER: ARCH-L-PA3-100-722-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 | 1548.7 |
| 2.5° | 1556.8 | 1512.8 | 1424.9 | 1354.9 | 1283.2 | 1242.5 | 1192.0 | 1167.6 | 1162.7 | 1149.7 | 1159.5 |
| 5° | 1584.5 | 1498.2 | 1332.1 | 1223.0 | 1149.7 | 1113.9 | 1096.0 | 1089.4 | 1087.8 | 1084.6 | 1084.6 |
| 7.5° | 1622.0 | 1490.0 | 1273.5 | 1162.7 | 1115.5 | 1104.1 | 1109.0 | 1118.8 | 1120.4 | 1123.6 | 1122.0 |
| 10° | 1667.6 | 1491.7 | 1240.9 | 1148.1 | 1125.3 | 1126.9 | 1143.2 | 1156.2 | 1162.7 | 1167.6 | 1166.0 |
| 12.5° | 1731.1 | 1511.2 | 1236.0 | 1157.8 | 1148.1 | 1154.6 | 1170.9 | 1183.9 | 1190.4 | 1192.0 | 1192.0 |
| 15° | 1814.1 | 1551.9 | 1247.4 | 1179.0 | 1170.9 | 1175.8 | 1185.5 | 1190.4 | 1192.0 | 1190.4 | 1190.4 |
| 17.5° | 1905.3 | 1600.8 | 1263.7 | 1192.0 | 1179.0 | 1174.1 | 1170.9 | 1166.0 | 1156.2 | 1149.7 | 1149.7 |
| 20° | 1993.2 | 1644.8 | 1271.8 | 1190.4 | 1167.6 | 1148.1 | 1128.5 | 1104.1 | 1087.8 | 1074.8 | 1074.8 |
| 22.5° | 2081.2 | 1685.5 | 1271.8 | 1172.5 | 1136.7 | 1099.2 | 1058.5 | 1019.4 | 995.0 | 978.7 | 978.7 |
| 25° | 2174.0 | 1724.5 | 1262.1 | 1141.6 | 1087.8 | 1034.1 | 978.7 | 929.9 | 905.4 | 889.1 | 885.9 |
| 27.5° | 2252.2 | 1747.3 | 1236.0 | 1097.6 | 1027.6 | 959.2 | 895.7 | 845.2 | 827.3 | 812.6 | 812.6 |
| 30° | 2335.2 | 1762.0 | 1187.2 | 1040.6 | 959.2 | 881.0 | 815.9 | 775.2 | 755.6 | 734.4 | 732.8 |
| 32.5° | 2428.0 | 1771.8 | 1131.8 | 980.3 | 889.1 | 806.1 | 750.7 | 718.2 | 675.8 | 653.0 | 649.8 |
| 35° | 2535.5 | 1784.8 | 1073.2 | 911.9 | 819.1 | 744.2 | 711.6 | 657.9 | 617.2 | 597.6 | 596.0 |
| 37.5° | 2649.5 | 1794.6 | 1009.6 | 851.7 | 755.6 | 703.5 | 670.9 | 607.4 | 571.6 | 542.3 | 539.0 |
| 40° | 2770.0 | 1794.6 | 944.5 | 793.1 | 705.1 | 685.6 | 623.7 | 566.7 | 506.5 | 491.8 | 488.5 |
| 42.5° | 2903.6 | 1791.3 | 879.4 | 736.1 | 657.9 | 644.9 | 596.0 | 535.8 | 504.8 | 491.8 | 488.5 |
| 45° | 3045.2 | 1779.9 | 817.5 | 670.9 | 609.0 | 583.0 | 545.5 | 529.3 | 516.2 | 516.2 | 516.2 |
| 47.5° | 3206.5 | 1770.1 | 747.5 | 612.3 | 573.2 | 543.9 | 516.2 | 506.5 | 504.8 | 509.7 | 514.6 |
| 50° | 3413.3 | 1766.9 | 688.8 | 570.0 | 545.5 | 511.3 | 508.1 | 499.9 | 501.6 | 501.6 | 501.6 |
| 52.5° | 3664.1 | 1737.6 | 633.5 | 539.0 | 517.9 | 477.1 | 486.9 | 495.1 | 498.3 | 496.7 | 495.1 |
| 55° | 3848.1 | 1685.5 | 586.2 | 517.9 | 498.3 | 464.1 | 477.1 | 490.2 | 493.4 | 488.5 | 488.5 |
| 57.5° | 4014.2 | 1612.2 | 548.8 | 501.6 | 485.3 | 456.0 | 470.6 | 483.7 | 480.4 | 478.8 | 477.1 |
| 60° | 4204.7 | 1542.2 | 519.5 | 493.4 | 472.3 | 452.7 | 465.7 | 473.9 | 469.0 | 465.7 | 464.1 |
| 62.5° | 4411.5 | 1473.8 | 498.3 | 493.4 | 462.5 | 451.1 | 460.9 | 464.1 | 454.3 | 451.1 | 451.1 |
| 65° | 4507.6 | 1366.3 | 475.5 | 493.4 | 457.6 | 447.8 | 451.1 | 447.8 | 438.1 | 438.1 | 436.4 |
| 67.5° | 4349.6 | 1188.8 | 446.2 | 486.9 | 464.1 | 442.9 | 436.4 | 431.5 | 420.1 | 420.1 | 416.9 |
| 70° | 3913.2 | 977.1 | 403.9 | 465.7 | 465.7 | 441.3 | 416.9 | 405.5 | 392.5 | 397.3 | 390.8 |
| 72.5° | 3343.2 | 775.2 | 351.7 | 429.9 | 456.0 | 439.7 | 395.7 | 377.8 | 366.4 | 371.3 | 361.5 |
| 75° | 2708.1 | 600.9 | 289.9 | 372.9 | 431.5 | 431.5 | 374.5 | 350.1 | 337.1 | 337.1 | 325.7 |
| 77.5° | 1726.2 | 444.6 | 236.1 | 309.4 | 387.6 | 420.1 | 356.6 | 319.2 | 299.6 | 294.8 | 286.6 |
| 80° | 854.9 | 312.7 | 193.8 | 245.9 | 330.6 | 394.1 | 343.6 | 283.4 | 255.7 | 245.9 | 231.2 |
| 82.5° | 454.3 | 216.6 | 154.7 | 192.2 | 263.8 | 355.0 | 327.3 | 244.3 | 210.1 | 195.4 | 179.1 |
| 85° | 203.6 | 133.5 | 123.8 | 146.6 | 200.3 | 291.5 | 294.8 | 200.3 | 161.2 | 192.2 | 141.7 |
| 87.5° | 74.9 | 60.3 | 60.3 | 74.9 | 115.6 | 122.1 | 208.4 | 128.6 | 102.6 | 70.0 | 55.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)