

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: P399298

Luminaire Tested: **ARCH-L-PA3-120-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19629 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

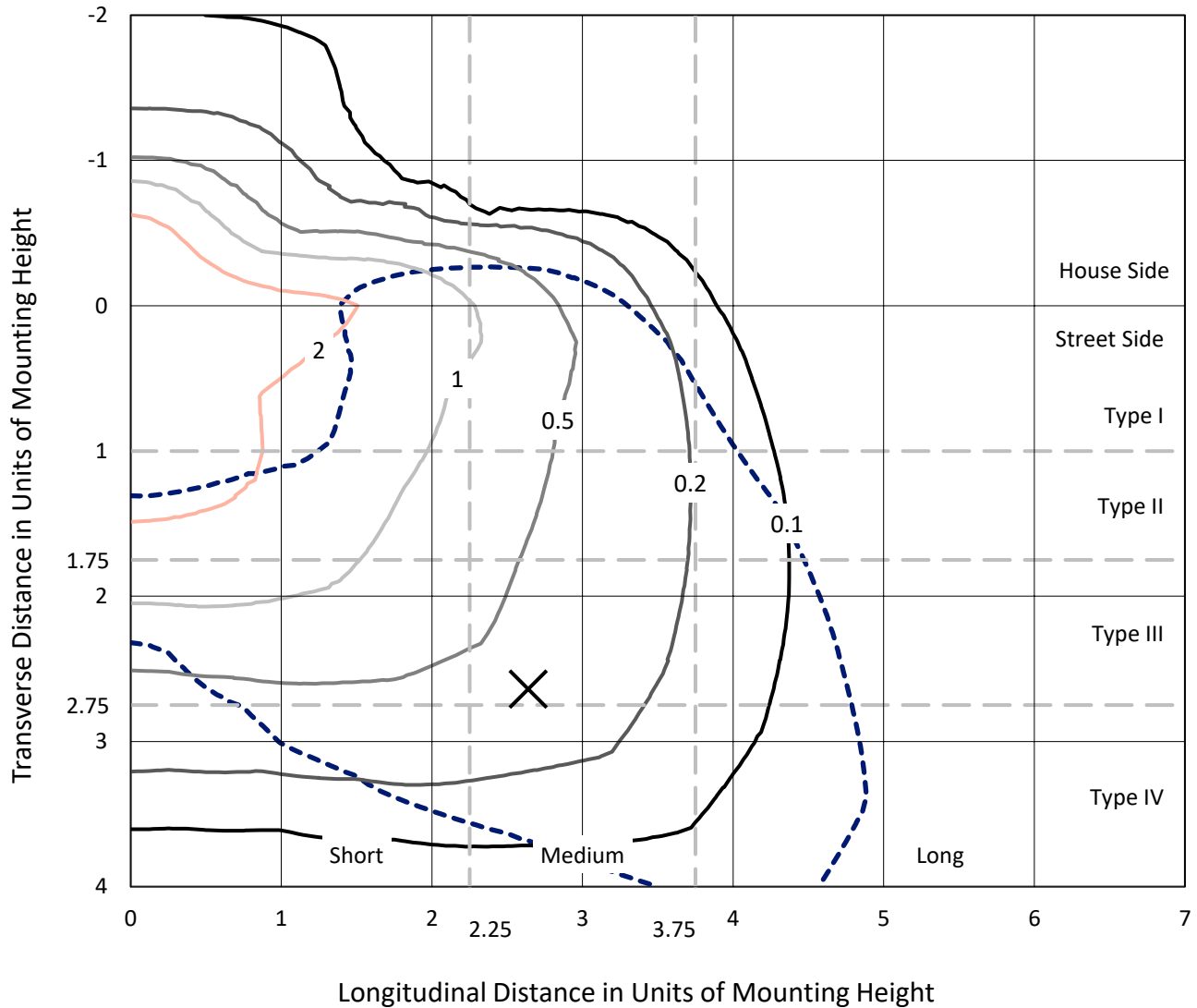
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

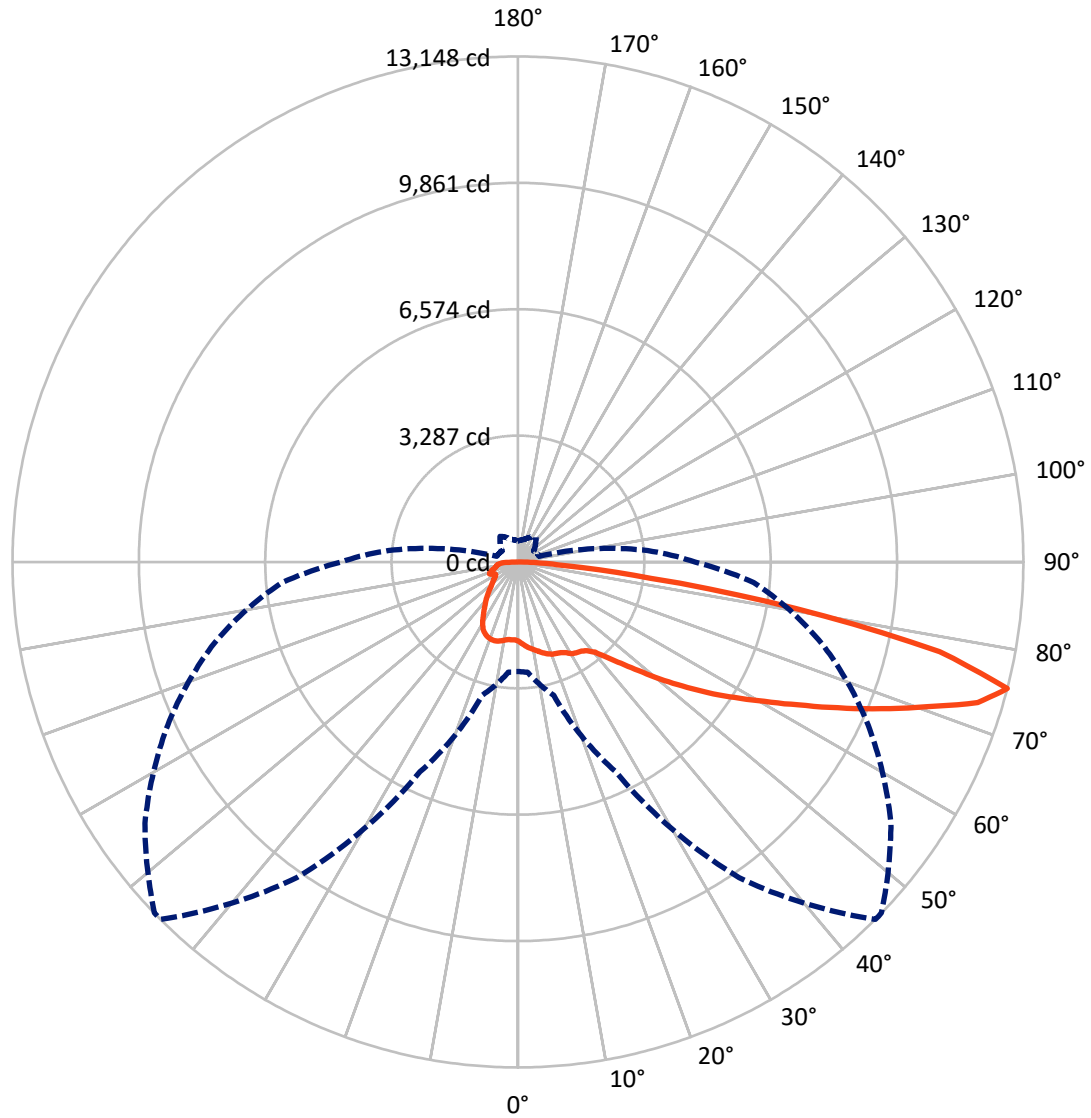
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4337.9 | 0.0 | 4337.9 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 15291.1 | 0.0 | 15291.1 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 19629.0 | 0.0 | 19629.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 203.9 | 1.0 |
| 10°-20° | 648.8 | 3.3 |
| 20°-30° | 1106.1 | 5.6 |
| 30°-40° | 1549.8 | 7.9 |
| 40°-50° | 2276.9 | 11.6 |
| 50°-60° | 3623.7 | 18.5 |
| 60°-70° | 5154.7 | 26.3 |
| 70°-80° | 4316.0 | 22.0 |
| 80°-90° | 749.0 | 3.8 |
| 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° | 19629.0 | 100.0 |
| 0°-180° | 19629.0 | 100.0 |

Coefficient of Utilization

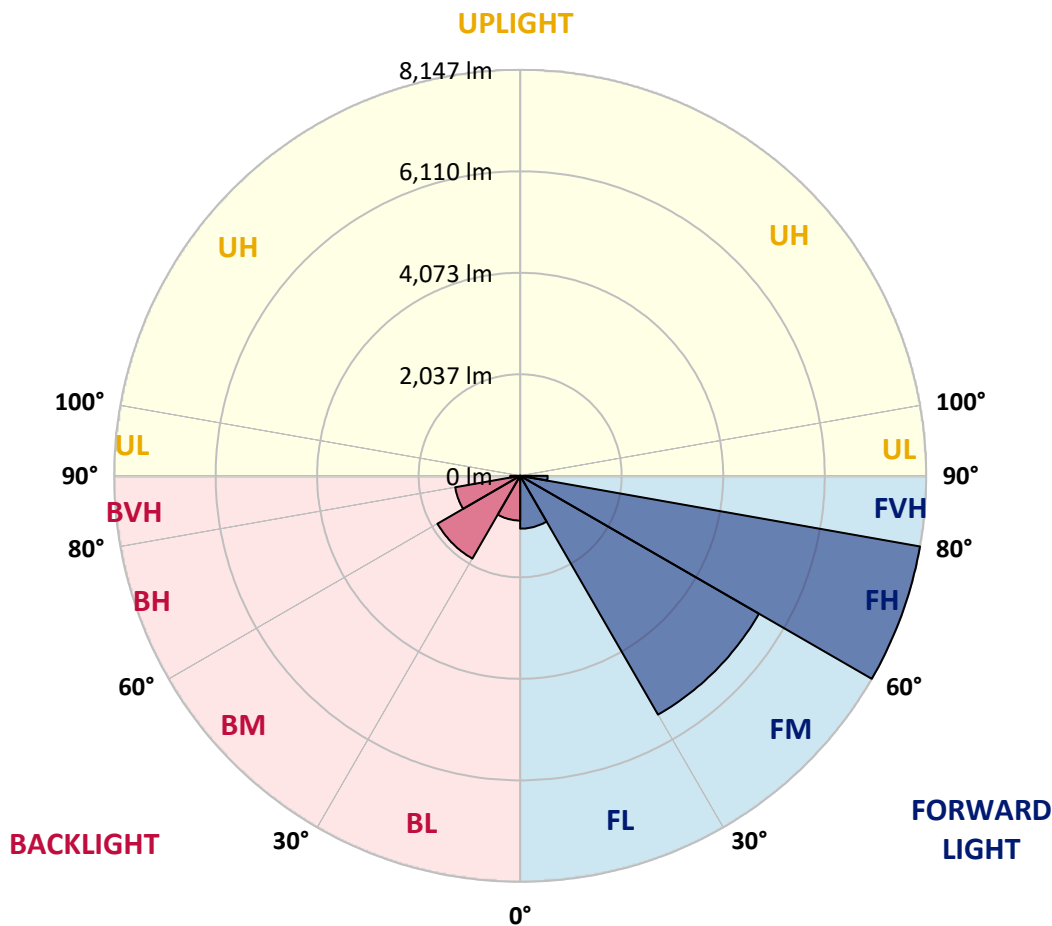


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1061.1 | 5.4 | | | |
| FM (30°-60°) | 5532.8 | 28.2 | | | |
| FH (60°-80°) | 8146.5 | 41.5 | | | G4/12000 |
| FVH (80°-90°) | 550.7 | 2.8 | | | G4/750 |
| BL (0°-30°) | 897.8 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 1917.6 | 9.8 | B2/2500 | | |
| BH (60°-80°) | 1324.2 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 198.4 | 1.0 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|---------|
| 0° | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 |
| 2.5° | 2179.5 | 2169.0 | 2163.8 | 2163.8 | 2142.8 | 2129.7 | 2127.0 | 2108.7 | 2092.9 | 2077.2 | 2064.1 |
| 5° | 2305.4 | 2297.5 | 2281.8 | 2268.7 | 2239.8 | 2203.1 | 2197.9 | 2158.5 | 2119.2 | 2082.5 | 2051.0 |
| 7.5° | 2420.8 | 2405.1 | 2386.7 | 2360.5 | 2313.3 | 2263.4 | 2255.6 | 2200.5 | 2145.4 | 2090.3 | 2048.4 |
| 10° | 2517.8 | 2502.1 | 2475.9 | 2439.1 | 2378.8 | 2318.5 | 2310.6 | 2252.9 | 2195.2 | 2129.7 | 2069.3 |
| 12.5° | 2609.6 | 2596.5 | 2557.2 | 2507.3 | 2436.5 | 2381.4 | 2373.6 | 2323.7 | 2263.4 | 2190.0 | 2111.3 |
| 15° | 2688.3 | 2675.2 | 2633.2 | 2575.5 | 2494.2 | 2452.3 | 2441.8 | 2394.6 | 2334.2 | 2255.6 | 2174.3 |
| 17.5° | 2727.7 | 2727.7 | 2683.1 | 2620.1 | 2544.1 | 2512.6 | 2504.7 | 2447.0 | 2391.9 | 2315.9 | 2234.6 |
| 20° | 2740.8 | 2746.0 | 2714.5 | 2638.5 | 2572.9 | 2559.8 | 2551.9 | 2504.7 | 2441.8 | 2368.3 | 2292.3 |
| 22.5° | 2748.6 | 2759.1 | 2732.9 | 2646.3 | 2591.3 | 2583.4 | 2578.2 | 2546.7 | 2496.8 | 2426.0 | 2350.0 |
| 25° | 2774.9 | 2774.9 | 2756.5 | 2659.5 | 2614.9 | 2612.3 | 2612.3 | 2593.9 | 2559.8 | 2499.5 | 2423.4 |
| 27.5° | 2814.2 | 2811.6 | 2788.0 | 2688.3 | 2667.3 | 2675.2 | 2672.6 | 2670.0 | 2646.3 | 2586.0 | 2504.7 |
| 30° | 2879.8 | 2879.8 | 2853.5 | 2746.0 | 2732.9 | 2767.0 | 2769.6 | 2774.9 | 2738.1 | 2643.7 | 2578.2 |
| 32.5° | 2979.4 | 2968.9 | 2942.7 | 2803.7 | 2782.7 | 2814.2 | 2819.4 | 2816.8 | 2785.4 | 2696.2 | 2664.7 |
| 35° | 3286.3 | 3262.7 | 3168.3 | 2932.2 | 2827.3 | 2845.7 | 2848.3 | 2861.4 | 2866.7 | 2795.8 | 2780.1 |
| 37.5° | 3824.0 | 3792.5 | 3648.2 | 3236.5 | 2968.9 | 2924.4 | 2921.7 | 2955.8 | 2984.7 | 2921.7 | 2921.7 |
| 40° | 4408.8 | 4382.6 | 4298.7 | 3761.0 | 3231.2 | 3084.3 | 3073.9 | 3105.3 | 3142.0 | 3097.5 | 3110.6 |
| 42.5° | 4912.4 | 4933.4 | 4941.2 | 4317.0 | 3624.6 | 3383.3 | 3354.5 | 3309.9 | 3367.6 | 3328.3 | 3380.7 |
| 45° | 5290.1 | 5279.6 | 5423.8 | 4886.2 | 4133.4 | 3758.4 | 3719.0 | 3598.4 | 3671.8 | 3669.2 | 3784.6 |
| 47.5° | 5691.3 | 5673.0 | 5733.3 | 5421.2 | 4713.1 | 4217.4 | 4157.0 | 3978.7 | 4088.9 | 4164.9 | 4356.4 |
| 50° | 6071.6 | 6076.9 | 6097.9 | 5843.5 | 5342.5 | 4776.0 | 4700.0 | 4461.3 | 4618.6 | 4778.6 | 5048.8 |
| 52.5° | 6567.3 | 6530.6 | 6504.4 | 6336.5 | 6048.0 | 5358.3 | 5308.4 | 5035.7 | 5256.0 | 5444.8 | 5804.1 |
| 55° | 7000.1 | 6976.5 | 6960.8 | 6952.9 | 6638.2 | 6000.8 | 5948.4 | 5665.1 | 5982.5 | 6116.2 | 6646.0 |
| 57.5° | 7461.7 | 7448.6 | 7532.5 | 7666.3 | 7540.4 | 6653.9 | 6598.8 | 6326.1 | 6680.1 | 6774.5 | 7558.7 |
| 60° | 7800.0 | 7807.9 | 8038.7 | 8379.7 | 8293.1 | 7362.0 | 7296.5 | 7055.2 | 7359.4 | 7443.3 | 8471.5 |
| 62.5° | 7802.7 | 7881.3 | 8416.4 | 9027.5 | 9127.1 | 8177.7 | 8101.6 | 7839.4 | 8057.1 | 8057.1 | 9289.7 |
| 65° | 7057.8 | 7147.0 | 8348.2 | 9187.5 | 9971.7 | 9148.1 | 9074.7 | 8662.9 | 8744.2 | 8634.1 | 10058.2 |
| 67.5° | 6315.6 | 6420.5 | 7550.9 | 9200.6 | 10564.4 | 10186.7 | 10100.2 | 9486.5 | 9347.4 | 9069.4 | 10595.9 |
| 70° | 5822.5 | 5895.9 | 6840.1 | 9030.1 | 10921.1 | 11272.5 | 11207.0 | 10268.0 | 9822.2 | 9434.0 | 10483.1 |
| 72.5° | 4901.9 | 4875.7 | 5777.9 | 8219.7 | 11120.4 | 12505.2 | 12450.2 | 11117.8 | 10233.9 | 9260.9 | 8940.9 |
| 75° | 2845.7 | 2877.1 | 3585.3 | 6021.8 | 10024.1 | 13147.8 | 13142.6 | 11844.3 | 10053.0 | 8180.3 | 6160.8 |
| 77.5° | 820.9 | 844.5 | 1177.6 | 2646.3 | 6339.2 | 11214.8 | 11574.2 | 10831.9 | 8497.7 | 5830.4 | 3194.5 |
| 80° | 359.3 | 377.7 | 511.4 | 881.2 | 2730.3 | 7325.3 | 7640.0 | 7325.3 | 5124.8 | 2675.2 | 1253.7 |
| 82.5° | 212.4 | 225.6 | 333.1 | 545.5 | 1308.7 | 3485.6 | 3910.5 | 3414.8 | 2211.0 | 1135.6 | 519.3 |
| 85° | 120.6 | 125.9 | 191.5 | 346.2 | 823.5 | 1219.6 | 1369.1 | 1282.5 | 1077.9 | 645.2 | 272.8 |
| 87.5° | 55.1 | 57.7 | 94.4 | 162.6 | 461.6 | 411.8 | 427.5 | 566.5 | 624.2 | 393.4 | 136.4 |
| 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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CATALOG NUMBER: ARCH-L-PA3-120-750-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 | 2061.5 |
| 2.5° | 2058.9 | 2051.0 | 2035.2 | 2030.0 | 2022.1 | 2024.8 | 2027.4 | 2027.4 | 2030.0 | 2022.1 | 2022.1 |
| 5° | 2037.9 | 2024.8 | 2009.0 | 2009.0 | 2009.0 | 2030.0 | 2048.4 | 2058.9 | 2064.1 | 2064.1 | 2058.9 |
| 7.5° | 2030.0 | 2014.3 | 1995.9 | 2001.2 | 2006.4 | 2032.6 | 2066.7 | 2100.8 | 2111.3 | 2111.3 | 2106.1 |
| 10° | 2045.7 | 2030.0 | 2016.9 | 2024.8 | 2037.9 | 2058.9 | 2085.1 | 2116.6 | 2142.8 | 2145.4 | 2142.8 |
| 12.5° | 2082.5 | 2064.1 | 2051.0 | 2066.7 | 2082.5 | 2095.6 | 2108.7 | 2121.8 | 2155.9 | 2161.1 | 2161.1 |
| 15° | 2142.8 | 2124.4 | 2108.7 | 2121.8 | 2127.0 | 2127.0 | 2127.0 | 2127.0 | 2161.1 | 2166.4 | 2166.4 |
| 17.5° | 2203.1 | 2187.4 | 2171.6 | 2174.3 | 2158.5 | 2137.5 | 2129.7 | 2127.0 | 2145.4 | 2161.1 | 2163.8 |
| 20° | 2260.8 | 2247.7 | 2232.0 | 2205.7 | 2166.4 | 2127.0 | 2113.9 | 2113.9 | 2124.4 | 2148.0 | 2148.0 |
| 22.5° | 2323.7 | 2308.0 | 2281.8 | 2221.5 | 2155.9 | 2100.8 | 2087.7 | 2095.6 | 2108.7 | 2140.2 | 2137.5 |
| 25° | 2394.6 | 2373.6 | 2329.0 | 2216.2 | 2121.8 | 2056.2 | 2058.9 | 2082.5 | 2106.1 | 2140.2 | 2140.2 |
| 27.5° | 2473.2 | 2444.4 | 2355.2 | 2174.3 | 2045.7 | 1982.8 | 2006.4 | 2061.5 | 2095.6 | 2132.3 | 2137.5 |
| 30° | 2559.8 | 2533.6 | 2376.2 | 2100.8 | 1922.5 | 1864.8 | 1922.5 | 2011.6 | 2064.1 | 2098.2 | 2106.1 |
| 32.5° | 2664.7 | 2643.7 | 2394.6 | 2006.4 | 1762.5 | 1712.6 | 1796.6 | 1906.7 | 1990.7 | 2030.0 | 2037.9 |
| 35° | 2795.8 | 2774.9 | 2418.2 | 1898.9 | 1613.0 | 1560.5 | 1636.6 | 1749.4 | 1859.5 | 1909.4 | 1925.1 |
| 37.5° | 2966.3 | 2934.8 | 2439.1 | 1783.5 | 1487.1 | 1426.8 | 1463.5 | 1565.8 | 1665.4 | 1733.6 | 1752.0 |
| 40° | 3184.0 | 3134.2 | 2457.5 | 1652.3 | 1376.9 | 1308.7 | 1321.9 | 1371.7 | 1429.4 | 1489.7 | 1513.3 |
| 42.5° | 3490.9 | 3391.2 | 2460.1 | 1513.3 | 1264.2 | 1201.2 | 1196.0 | 1211.7 | 1211.7 | 1211.7 | 1219.6 |
| 45° | 3918.4 | 3729.5 | 2465.4 | 1382.2 | 1148.8 | 1083.2 | 1067.5 | 1062.2 | 1022.9 | 946.8 | 941.6 |
| 47.5° | 4458.7 | 4172.8 | 2489.0 | 1272.0 | 1028.1 | 970.4 | 949.4 | 928.5 | 855.0 | 776.3 | 760.6 |
| 50° | 5151.1 | 4686.8 | 2536.2 | 1167.1 | 925.8 | 886.5 | 860.3 | 810.4 | 729.1 | 668.8 | 653.1 |
| 52.5° | 5948.4 | 5297.9 | 2580.8 | 1057.0 | 849.8 | 823.5 | 792.1 | 731.7 | 645.2 | 608.5 | 603.2 |
| 55° | 6863.7 | 5979.8 | 2670.0 | 959.9 | 784.2 | 765.8 | 737.0 | 679.3 | 613.7 | 587.5 | 584.9 |
| 57.5° | 7800.0 | 6743.1 | 2795.8 | 873.4 | 721.3 | 710.8 | 710.8 | 660.9 | 619.0 | 608.5 | 608.5 |
| 60° | 8702.3 | 7398.8 | 2698.8 | 792.1 | 663.6 | 668.8 | 718.6 | 705.5 | 674.0 | 687.2 | 695.0 |
| 62.5° | 9402.5 | 7784.3 | 2190.0 | 726.5 | 621.6 | 668.8 | 797.3 | 797.3 | 760.6 | 755.3 | 755.3 |
| 65° | 9701.5 | 7779.1 | 1539.5 | 676.7 | 605.9 | 734.4 | 889.1 | 847.1 | 750.1 | 713.4 | 705.5 |
| 67.5° | 9625.5 | 7438.1 | 1062.2 | 642.6 | 600.6 | 802.6 | 931.1 | 813.0 | 702.9 | 671.4 | 647.8 |
| 70° | 8956.7 | 6716.8 | 818.3 | 611.1 | 592.7 | 773.7 | 918.0 | 773.7 | 666.2 | 637.3 | 616.3 |
| 72.5° | 7225.7 | 5387.1 | 679.3 | 579.6 | 561.3 | 716.0 | 873.4 | 737.0 | 637.3 | 605.9 | 584.9 |
| 75° | 4608.2 | 3388.6 | 574.4 | 537.7 | 500.9 | 642.6 | 813.0 | 700.3 | 605.9 | 563.9 | 548.2 |
| 77.5° | 2216.2 | 1460.9 | 500.9 | 487.8 | 451.1 | 595.4 | 752.7 | 653.1 | 563.9 | 529.8 | 519.3 |
| 80° | 897.0 | 668.8 | 435.4 | 438.0 | 414.4 | 566.5 | 710.8 | 608.5 | 521.9 | 485.2 | 466.8 |
| 82.5° | 466.8 | 388.2 | 367.2 | 377.7 | 377.7 | 540.3 | 679.3 | 571.8 | 485.2 | 469.5 | 409.1 |
| 85° | 251.8 | 241.3 | 283.3 | 304.2 | 327.8 | 487.8 | 632.1 | 532.4 | 443.2 | 380.3 | 367.2 |
| 87.5° | 123.3 | 157.4 | 160.0 | 183.6 | 228.2 | 390.8 | 532.4 | 445.9 | 369.8 | 306.9 | 301.6 |
| 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)