

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: P638304

Luminaire Tested: **IFLD-S-SA2B-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638304
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6198.7 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

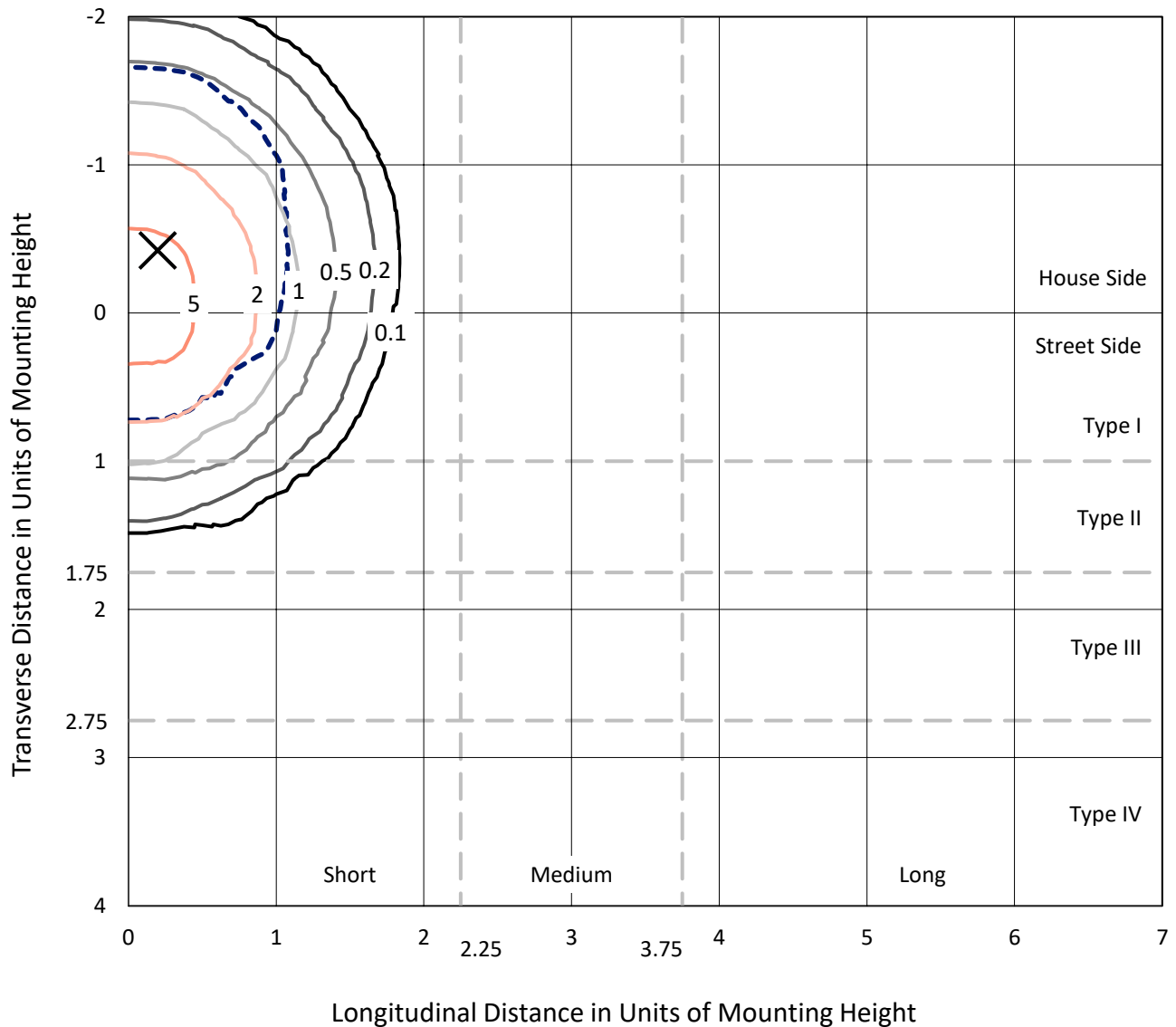
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

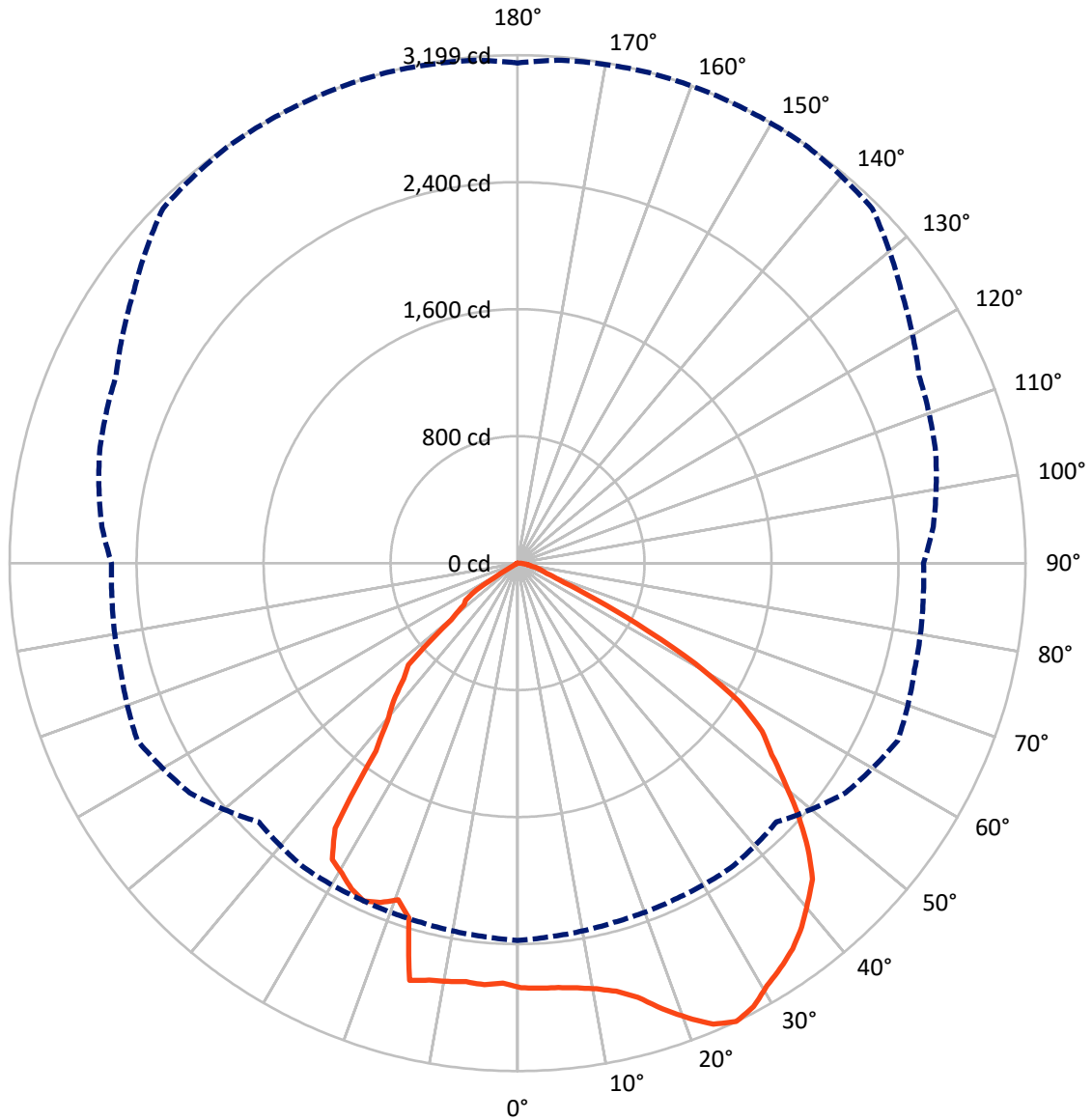
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3837.7 | 0.0 | 3837.7 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 2361.1 | 0.0 | 2361.1 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 6198.7 | 0.0 | 6198.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 256.6 | 4.1 |
| 10°-20° | 783.5 | 12.6 |
| 20°-30° | 1238.7 | 20.0 |
| 30°-40° | 1399.2 | 22.6 |
| 40°-50° | 1310.4 | 21.1 |
| 50°-60° | 903.4 | 14.6 |
| 60°-70° | 242.7 | 3.9 |
| 70°-80° | 50.6 | 0.8 |
| 80°-90° | 13.7 | 0.2 |
| 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° | 6198.7 | 100.0 |
| 0°-180° | 6198.7 | 100.0 |



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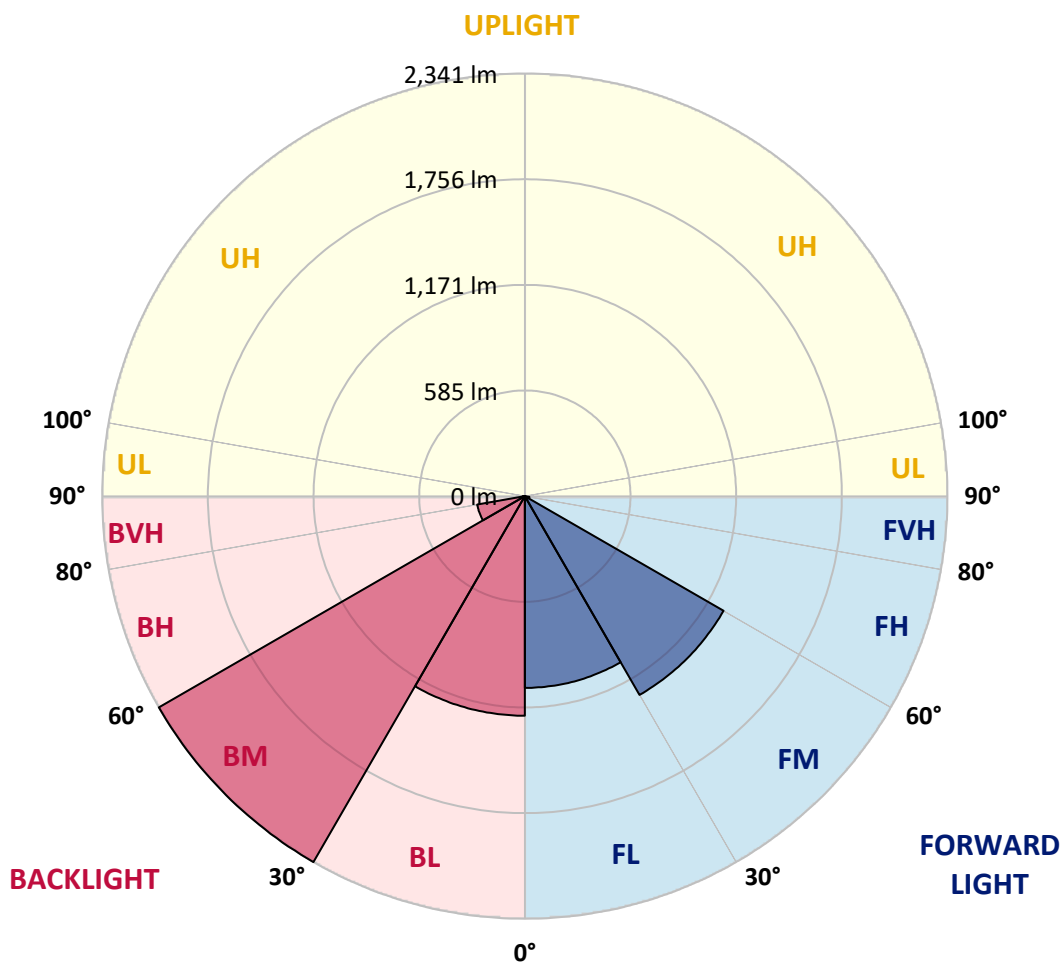
CATALOG NUMBER: IFLD-S-SA2B-722-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1062.3 | 17.1 | | | |
| FM (30°-60°) | 1271.5 | 20.5 | | | |
| FH (60°-80°) | 25.5 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1216.5 | 19.6 | B3/2500 | | |
| BM (30°-60°) | 2341.5 | 37.8 | B2/2500 | | |
| BH (60°-80°) | 267.8 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 |
| 2.5° | 2686.5 | 2669.2 | 2652.8 | 2647.3 | 2670.1 | 2694.7 | 2679.2 | 2680.1 | 2674.6 | 2684.7 |
| 5° | 2706.5 | 2682.8 | 2671.9 | 2663.7 | 2667.3 | 2692.9 | 2671.0 | 2679.2 | 2670.1 | 2681.9 |
| 7.5° | 2699.2 | 2682.8 | 2671.9 | 2656.4 | 2668.3 | 2698.3 | 2677.4 | 2678.3 | 2673.7 | 2684.7 |
| 10° | 2694.7 | 2682.8 | 2669.2 | 2671.0 | 2684.7 | 2710.2 | 2693.8 | 2702.9 | 2696.5 | 2702.9 |
| 12.5° | 2705.6 | 2692.9 | 2685.6 | 2685.6 | 2697.4 | 2726.6 | 2718.4 | 2726.6 | 2723.8 | 2729.3 |
| 15° | 2602.7 | 2614.5 | 2683.7 | 2714.7 | 2738.4 | 2767.6 | 2763.9 | 2772.1 | 2773.9 | 2782.1 |
| 17.5° | 2195.5 | 2183.6 | 2178.2 | 2337.6 | 2761.2 | 2851.4 | 2848.6 | 2847.7 | 2838.6 | 2832.2 |
| 20° | 2249.2 | 2244.7 | 2238.3 | 2250.1 | 2297.5 | 2895.1 | 2913.3 | 2801.3 | 2768.5 | 2765.7 |
| 22.5° | 2334.8 | 2327.6 | 2303.9 | 2304.8 | 2319.4 | 2517.0 | 2823.1 | 2721.1 | 2710.2 | 2703.8 |
| 25° | 2376.7 | 2362.2 | 2343.0 | 2337.6 | 2342.1 | 2305.7 | 2521.6 | 2642.8 | 2589.0 | 2564.4 |
| 27.5° | 2303.0 | 2303.9 | 2288.4 | 2303.0 | 2285.6 | 2121.7 | 2029.7 | 2489.7 | 2487.9 | 2477.0 |
| 30° | 2247.4 | 2244.7 | 2226.4 | 2244.7 | 2125.3 | 1942.2 | 1903.0 | 2322.1 | 2303.0 | 2288.4 |
| 32.5° | 2077.0 | 2078.9 | 2131.7 | 2202.7 | 2006.9 | 1862.0 | 1743.6 | 2074.3 | 2255.6 | 2247.4 |
| 35° | 1485.8 | 1489.5 | 1677.1 | 2027.8 | 1827.4 | 1702.6 | 1693.5 | 1792.8 | 2180.9 | 2184.5 |
| 37.5° | 1430.2 | 1430.2 | 1425.7 | 1483.1 | 1686.2 | 1637.9 | 1656.2 | 1646.1 | 1997.8 | 2006.9 |
| 40° | 1390.2 | 1382.0 | 1375.6 | 1285.4 | 1172.4 | 1592.4 | 1605.1 | 1559.6 | 1888.5 | 1890.3 |
| 42.5° | 1341.9 | 1332.8 | 1334.6 | 1167.9 | 1049.4 | 1479.4 | 1443.9 | 1382.9 | 1706.3 | 1708.1 |
| 45° | 1253.5 | 1269.0 | 1279.9 | 1022.1 | 1013.0 | 1056.7 | 1331.9 | 1293.6 | 1583.3 | 1617.0 |
| 47.5° | 637.7 | 651.4 | 999.3 | 940.1 | 961.1 | 939.2 | 1125.1 | 1126.0 | 1317.3 | 1429.3 |
| 50° | 578.5 | 574.8 | 575.7 | 548.4 | 887.3 | 759.8 | 813.5 | 1032.1 | 1054.9 | 1215.2 |
| 52.5° | 539.3 | 538.4 | 482.8 | 429.1 | 557.5 | 668.7 | 590.3 | 747.0 | 784.4 | 1029.4 |
| 55° | 399.0 | 428.2 | 380.8 | 403.6 | 348.9 | 535.7 | 532.9 | 674.1 | 686.9 | 825.3 |
| 57.5° | 3.6 | 4.6 | 10.9 | 307.0 | 241.4 | 267.8 | 368.0 | 460.0 | 482.8 | 643.2 |
| 60° | 0.9 | 1.8 | 4.6 | 9.1 | 156.7 | 164.9 | 246.0 | 266.0 | 299.7 | 383.5 |
| 62.5° | 0.0 | 0.0 | 1.8 | 4.6 | 8.2 | 67.4 | 78.3 | 85.6 | 132.1 | 195.9 |
| 65° | 0.0 | 0.0 | 0.9 | 2.7 | 4.6 | 10.9 | 19.1 | 40.1 | 57.4 | 71.1 |
| 67.5° | 0.0 | 0.0 | 0.9 | 1.8 | 3.6 | 5.5 | 10.9 | 15.5 | 24.6 | 41.9 |
| 70° | 0.0 | 0.0 | 0.9 | 1.8 | 2.7 | 4.6 | 7.3 | 10.9 | 14.6 | 21.0 |
| 72.5° | 0.0 | 0.0 | 0.9 | 1.8 | 1.8 | 5.5 | 5.5 | 8.2 | 10.9 | 13.7 |
| 75° | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 3.6 | 5.5 | 6.4 | 7.3 | 10.9 |
| 77.5° | 0.0 | 0.0 | 0.9 | 1.8 | 2.7 | 3.6 | 4.6 | 7.3 | 6.4 | 6.4 |
| 80° | 0.0 | 0.0 | 0.9 | 2.7 | 2.7 | 4.6 | 5.5 | 7.3 | 4.6 | 4.6 |
| 82.5° | 0.0 | 0.0 | 0.9 | 3.6 | 2.7 | 9.1 | 9.1 | 10.0 | 3.6 | 3.6 |
| 85° | 0.0 | 0.0 | 2.7 | 1.8 | 5.5 | 9.1 | 8.2 | 5.5 | 4.6 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 2.7 | 6.4 | 5.5 | 1.8 | 1.8 |
| 90° | 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2674.6 | 0° | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 | 2674.6 |
| 2658.2 | 2.5° | 2694.7 | 2682.8 | 2707.4 | 2704.7 | 2692.9 | 2687.4 | 2681.0 | 2675.5 | 2635.5 |
| 2660.1 | 5° | 2695.6 | 2677.4 | 2707.4 | 2702.0 | 2700.1 | 2691.0 | 2685.6 | 2693.8 | 2657.3 |
| 2667.3 | 7.5° | 2695.6 | 2677.4 | 2710.2 | 2712.0 | 2709.3 | 2702.0 | 2701.1 | 2706.5 | 2676.5 |
| 2680.1 | 10° | 2713.8 | 2706.5 | 2733.9 | 2736.6 | 2732.9 | 2731.1 | 2726.6 | 2722.9 | 2691.0 |
| 2723.8 | 12.5° | 2752.1 | 2737.5 | 2768.5 | 2776.7 | 2773.9 | 2778.5 | 2767.6 | 2773.0 | 2740.2 |
| 2768.5 | 15° | 2798.5 | 2799.4 | 2823.1 | 2841.3 | 2839.5 | 2854.1 | 2837.7 | 2852.3 | 2828.6 |
| 2819.5 | 17.5° | 2869.6 | 2879.6 | 2913.3 | 2940.6 | 2950.7 | 2961.6 | 2950.7 | 2955.2 | 2921.5 |
| 2763.0 | 20° | 2794.9 | 2832.2 | 2994.4 | 3044.5 | 3065.4 | 3075.5 | 3057.2 | 3062.7 | 3029.0 |
| 2693.8 | 22.5° | 2727.5 | 2775.8 | 2919.7 | 3076.4 | 3141.1 | 3161.1 | 3154.7 | 3153.8 | 3141.1 |
| 2557.1 | 25° | 2628.2 | 2725.7 | 2790.3 | 2956.1 | 3159.3 | 3195.7 | 3199.4 | 3198.5 | 3179.3 |
| 2473.3 | 27.5° | 2506.1 | 2528.0 | 2695.6 | 2796.7 | 3031.7 | 3170.2 | 3164.7 | 3138.3 | 3112.8 |
| 2299.3 | 30° | 2350.3 | 2449.6 | 2525.2 | 2686.5 | 2866.9 | 3091.9 | 3091.9 | 3071.8 | 3045.4 |
| 2237.4 | 32.5° | 2271.1 | 2399.5 | 2469.7 | 2528.0 | 2681.9 | 3004.4 | 3040.9 | 3019.9 | 2998.9 |
| 2189.1 | 35° | 2229.2 | 2248.3 | 2412.3 | 2465.1 | 2595.4 | 2835.9 | 2983.5 | 2962.5 | 2947.0 |
| 2060.6 | 37.5° | 2137.2 | 2181.8 | 2258.3 | 2399.5 | 2439.6 | 2698.3 | 2906.9 | 2896.0 | 2877.8 |
| 1893.9 | 40° | 1932.2 | 2051.5 | 2169.0 | 2303.0 | 2344.9 | 2521.6 | 2814.0 | 2818.6 | 2794.0 |
| 1716.3 | 42.5° | 1811.0 | 1892.1 | 2076.1 | 2166.3 | 2279.3 | 2407.7 | 2723.8 | 2731.1 | 2713.8 |
| 1626.1 | 45° | 1668.9 | 1759.1 | 1888.5 | 2052.4 | 2206.4 | 2251.0 | 2564.4 | 2640.9 | 2626.4 |
| 1446.6 | 47.5° | 1538.6 | 1611.5 | 1770.0 | 1935.8 | 2106.2 | 2099.8 | 2381.3 | 2525.2 | 2505.2 |
| 1309.1 | 50° | 1353.7 | 1481.3 | 1556.0 | 1708.1 | 1962.3 | 1979.6 | 2186.4 | 2389.5 | 2373.1 |
| 1112.3 | 52.5° | 1141.5 | 1301.8 | 1444.8 | 1584.2 | 1816.5 | 1857.5 | 2005.1 | 2251.0 | 2240.1 |
| 849.9 | 55° | 997.5 | 1114.1 | 1275.4 | 1387.4 | 1639.8 | 1749.1 | 1869.3 | 2118.9 | 2113.5 |
| 698.7 | 57.5° | 709.7 | 934.7 | 1067.7 | 1224.4 | 1357.4 | 1555.0 | 1644.3 | 1850.2 | 1799.2 |
| 387.2 | 60° | 481.0 | 586.7 | 748.8 | 917.4 | 1006.6 | 1204.3 | 1287.2 | 1452.1 | 1438.4 |
| 231.4 | 62.5° | 254.2 | 351.6 | 467.3 | 552.1 | 616.7 | 809.0 | 843.6 | 1021.2 | 1016.7 |
| 92.9 | 65° | 112.1 | 148.5 | 253.3 | 297.0 | 363.5 | 452.8 | 482.8 | 546.6 | 531.1 |
| 45.5 | 67.5° | 58.3 | 88.4 | 143.0 | 175.8 | 221.4 | 255.1 | 279.7 | 299.7 | 312.5 |
| 30.1 | 70° | 35.5 | 64.7 | 88.4 | 122.1 | 152.1 | 179.5 | 198.6 | 225.9 | 242.3 |
| 15.5 | 72.5° | 26.4 | 41.0 | 61.0 | 93.8 | 110.2 | 142.1 | 161.2 | 181.3 | 195.9 |
| 12.8 | 75° | 14.6 | 27.3 | 49.2 | 73.8 | 88.4 | 115.7 | 133.0 | 146.7 | 151.2 |
| 7.3 | 77.5° | 9.1 | 21.0 | 41.0 | 57.4 | 69.2 | 93.8 | 89.3 | 102.0 | 113.0 |
| 5.5 | 80° | 6.4 | 15.5 | 31.9 | 47.4 | 48.3 | 60.1 | 71.1 | 82.0 | 89.3 |
| 3.6 | 82.5° | 4.6 | 12.8 | 23.7 | 36.4 | 31.9 | 46.5 | 55.6 | 63.8 | 46.5 |
| 2.7 | 85° | 3.6 | 9.1 | 11.8 | 21.9 | 18.2 | 32.8 | 28.2 | 27.3 | 18.2 |
| 1.8 | 87.5° | 2.7 | 4.6 | 8.2 | 10.0 | 7.3 | 7.3 | 9.1 | 10.9 | 9.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
2674.6
2608.1
2626.4
2641.8
2664.6
2711.1
2789.4
2892.4
3005.3
3100.1
3150.2
3092.8
3035.4
2981.6
2925.2
2859.6
2788.5
2712.0
2628.2
2519.8
2375.8
2247.4
2119.9
1793.7
1439.3
1017.6
524.7
312.5
243.2
198.6
148.5
114.8
90.2
33.7
18.2
9.1
0.0

(END OF REPORT)