

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: P636598

Luminaire Tested: **IFLD-S-SA3B-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636598
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8670.8 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

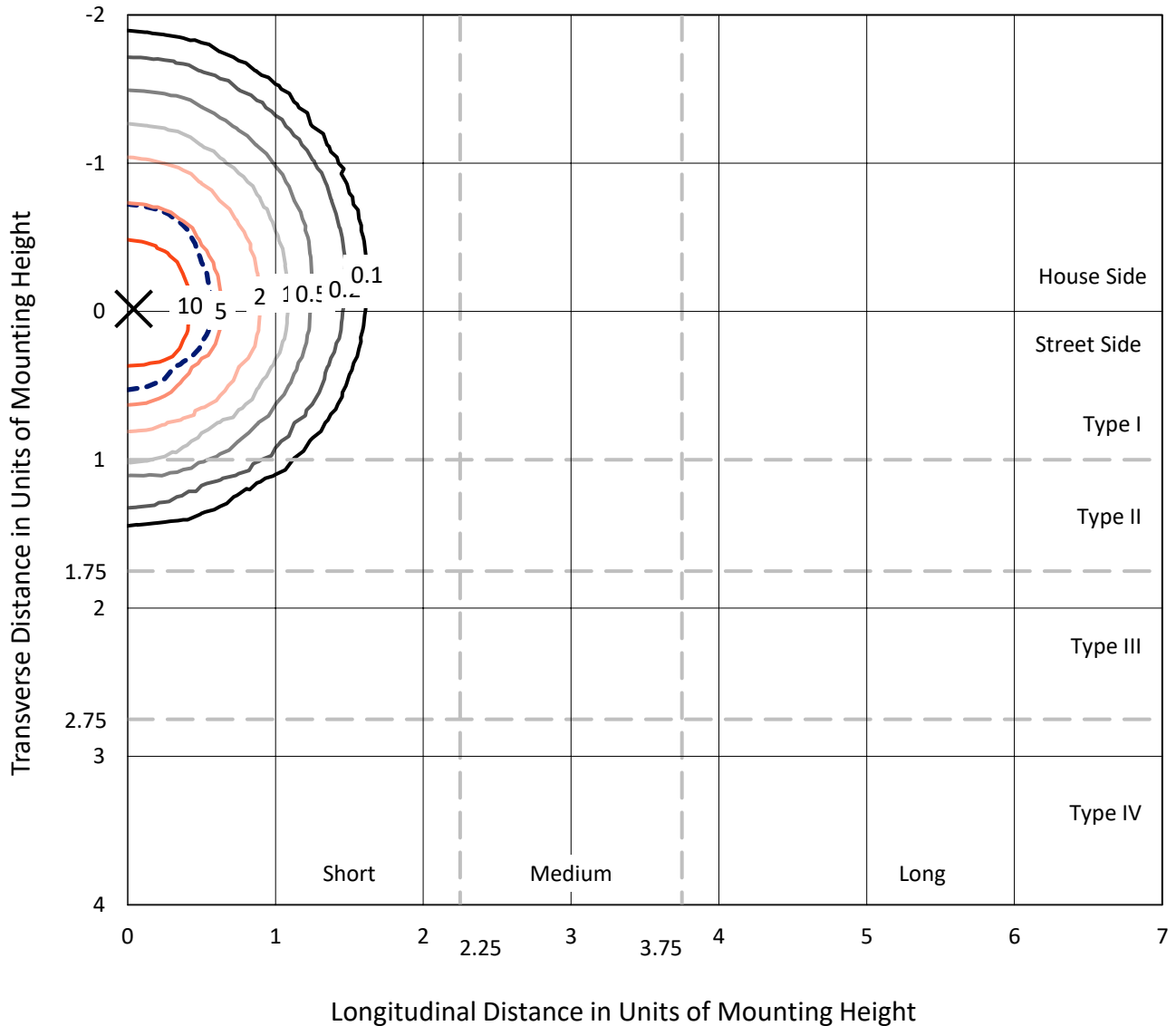
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

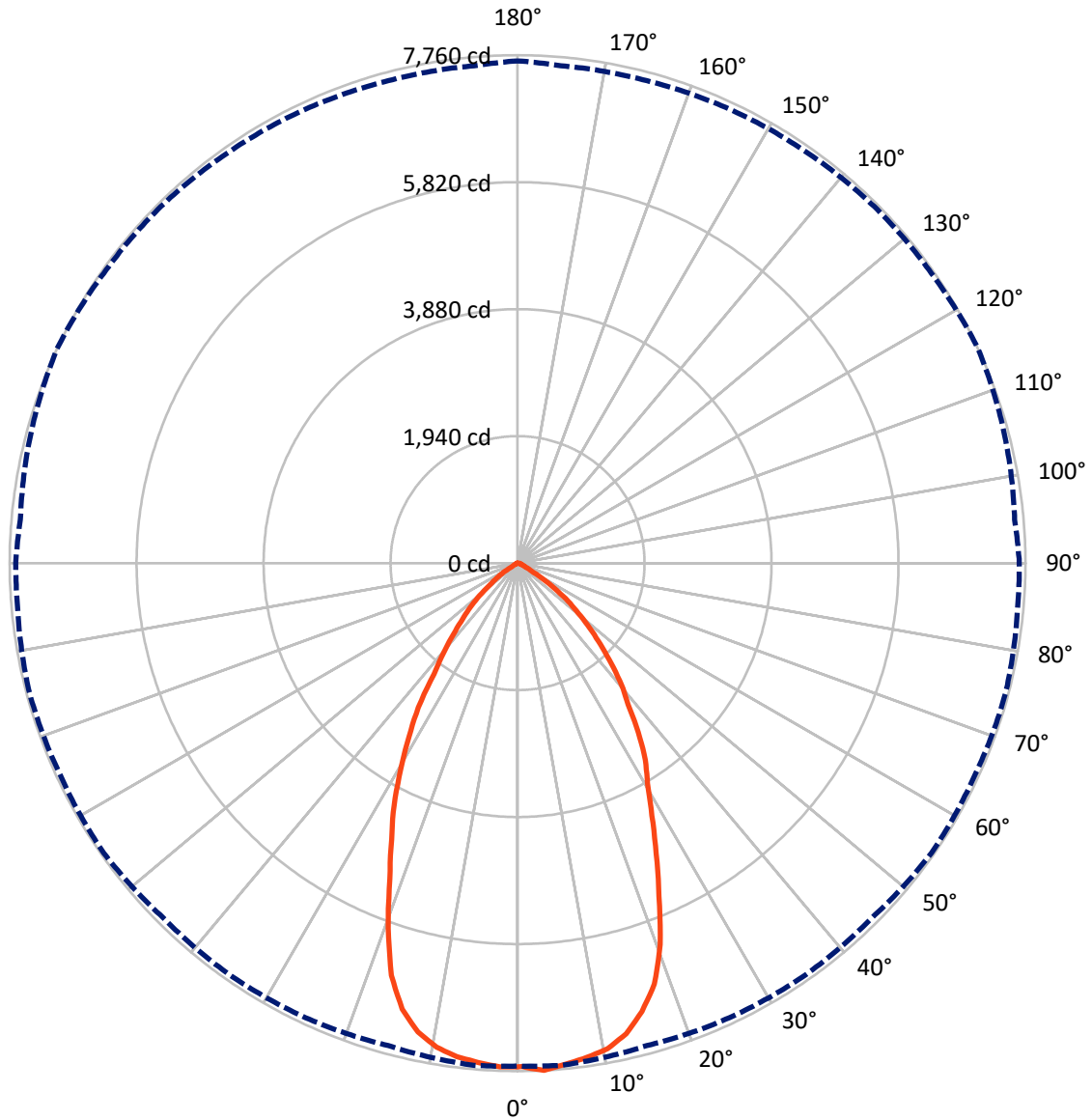
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4962.2 | 0.0 | 4962.2 |
| | % Fixture | 57.2 | 0.0 | 57.2 |
| Street Side | Lumens | 3708.6 | 0.0 | 3708.6 |
| | % Fixture | 42.8 | 0.0 | 42.8 |
| Total | Lumens | 8670.8 | 0.0 | 8670.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 724.6 | 8.4 |
| 10°-20° | 1921.3 | 22.2 |
| 20°-30° | 2197.6 | 25.3 |
| 30°-40° | 1883.2 | 21.7 |
| 40°-50° | 1245.3 | 14.4 |
| 50°-60° | 543.4 | 6.3 |
| 60°-70° | 106.8 | 1.2 |
| 70°-80° | 38.5 | 0.4 |
| 80°-90° | 10.2 | 0.1 |
| 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° | 8670.8 | 100.0 |
| 0°-180° | 8670.8 | 100.0 |



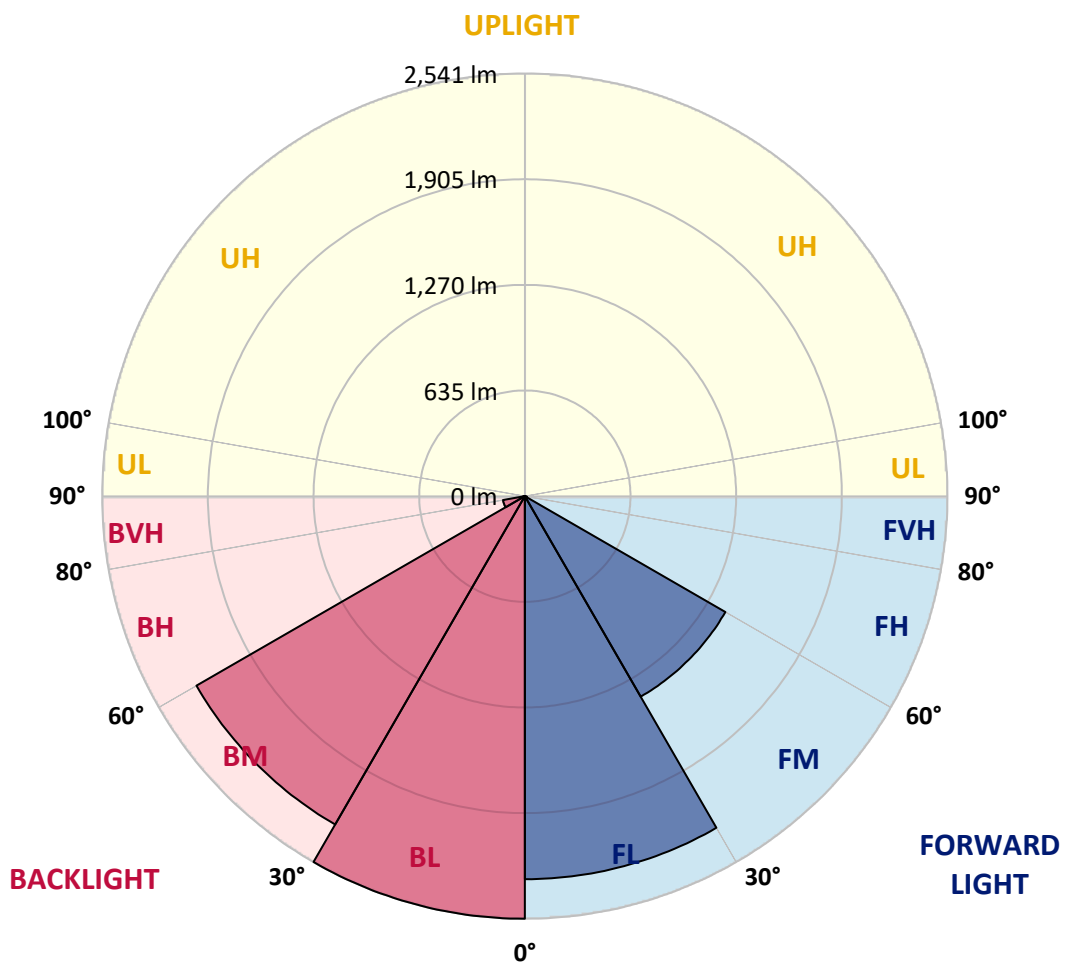
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2302.8 | 26.6 | | | |
| FM (30°-60°) | 1392.4 | 16.1 | | | |
| FH (60°-80°) | 11.8 | 0.1 | | | G0/660 |
| FVH (80°-90°) | 1.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2540.6 | 29.3 | B4/5000 | | |
| BM (30°-60°) | 2279.5 | 26.3 | B2/2500 | | |
| BH (60°-80°) | 133.5 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.5 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 |
| 2.5° | 7682.2 | 7700.6 | 7630.6 | 7661.9 | 7674.8 | 7658.2 | 7719.0 | 7700.6 | 7715.3 | 7669.3 |
| 5° | 7682.2 | 7700.6 | 7619.5 | 7634.2 | 7637.9 | 7606.6 | 7673.0 | 7650.8 | 7652.7 | 7604.8 |
| 7.5° | 7634.2 | 7656.4 | 7582.6 | 7593.7 | 7595.5 | 7569.7 | 7626.9 | 7595.5 | 7584.5 | 7534.7 |
| 10° | 7505.2 | 7518.1 | 7451.8 | 7479.4 | 7505.2 | 7481.3 | 7531.0 | 7496.0 | 7496.0 | 7451.8 |
| 12.5° | 7300.6 | 7324.6 | 7250.9 | 7284.1 | 7306.2 | 7278.5 | 7335.7 | 7322.8 | 7324.6 | 7280.4 |
| 15° | 6928.3 | 6845.4 | 6933.9 | 7000.2 | 7002.1 | 6996.5 | 7050.0 | 7037.1 | 7046.3 | 6979.9 |
| 17.5° | 5118.4 | 5098.1 | 5201.3 | 5984.6 | 6567.1 | 6646.3 | 6655.5 | 6585.5 | 6554.2 | 6489.7 |
| 20° | 4742.4 | 4757.1 | 4735.0 | 4738.7 | 5197.6 | 6150.5 | 6093.4 | 5920.1 | 5840.9 | 5776.4 |
| 22.5° | 4467.7 | 4443.8 | 4429.0 | 4419.8 | 4432.7 | 5053.9 | 5464.9 | 5203.2 | 5160.8 | 5129.4 |
| 25° | 4169.2 | 4158.1 | 4139.7 | 4136.0 | 4128.6 | 4023.6 | 4615.2 | 4639.2 | 4571.0 | 4532.3 |
| 27.5° | 3890.8 | 3883.5 | 3863.2 | 3861.4 | 3776.6 | 3522.2 | 3586.7 | 4156.3 | 4137.8 | 4123.1 |
| 30° | 3594.1 | 3579.4 | 3568.3 | 3568.3 | 3312.1 | 3050.4 | 2945.3 | 3623.6 | 3623.6 | 3610.7 |
| 32.5° | 3271.6 | 3258.7 | 3262.3 | 3218.1 | 2912.1 | 2672.5 | 2506.7 | 3127.8 | 3321.3 | 3310.3 |
| 35° | 1999.8 | 1996.1 | 2370.3 | 2862.4 | 2503.0 | 2285.5 | 2274.4 | 2676.2 | 2958.2 | 2987.7 |
| 37.5° | 1780.5 | 1769.4 | 1774.9 | 1806.3 | 2143.6 | 2056.9 | 2053.2 | 2121.4 | 2517.7 | 2532.5 |
| 40° | 1598.0 | 1590.6 | 1585.1 | 1472.7 | 1365.8 | 1835.8 | 1822.9 | 1778.6 | 2150.9 | 2176.7 |
| 42.5° | 1424.7 | 1417.4 | 1417.4 | 1258.9 | 1085.6 | 1509.5 | 1515.1 | 1463.4 | 1813.6 | 1822.9 |
| 45° | 1246.0 | 1240.4 | 1209.1 | 1004.5 | 954.7 | 1002.7 | 1255.2 | 1196.2 | 1439.5 | 1535.3 |
| 47.5° | 588.0 | 584.3 | 846.0 | 834.9 | 831.3 | 801.8 | 958.4 | 991.6 | 1142.7 | 1238.6 |
| 50° | 471.8 | 468.2 | 446.0 | 392.6 | 683.8 | 608.2 | 691.2 | 763.1 | 811.0 | 899.4 |
| 52.5° | 390.7 | 387.1 | 341.0 | 302.3 | 379.7 | 444.2 | 412.9 | 510.5 | 508.7 | 604.5 |
| 55° | 256.2 | 237.8 | 261.7 | 247.0 | 199.1 | 322.5 | 315.2 | 387.1 | 377.8 | 460.8 |
| 57.5° | 5.5 | 5.5 | 12.9 | 140.1 | 125.3 | 136.4 | 180.6 | 221.2 | 248.8 | 272.8 |
| 60° | 1.8 | 1.8 | 3.7 | 7.4 | 51.6 | 57.1 | 70.0 | 81.1 | 114.3 | 141.9 |
| 62.5° | 0.0 | 0.0 | 1.8 | 3.7 | 7.4 | 29.5 | 33.2 | 38.7 | 53.5 | 73.7 |
| 65° | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 7.4 | 11.1 | 24.0 | 33.2 | 42.4 |
| 67.5° | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 7.4 | 11.1 | 14.7 | 29.5 |
| 70° | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 5.5 | 7.4 | 11.1 | 14.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 5.5 | 3.7 | 5.5 | 7.4 | 9.2 |
| 75° | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 3.7 | 5.5 | 5.5 | 7.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 5.5 |
| 80° | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 5.5 | 7.4 | 3.7 | 3.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 3.7 | 1.8 | 7.4 | 11.1 | 9.2 | 3.7 | 1.8 |
| 85° | 0.0 | 0.0 | 0.0 | 1.8 | 7.4 | 9.2 | 9.2 | 5.5 | 1.8 | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 5.5 | 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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CATALOG NUMBER: IFLD-S-SA3B-930-U-66-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7693.2 | 0° | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 | 7693.2 |
| 7665.6 | 2.5° | 7623.2 | 7695.1 | 7759.6 | 7719.0 | 7704.3 | 7674.8 | 7652.7 | 7628.7 | 7626.9 |
| 7599.2 | 5° | 7556.8 | 7625.0 | 7687.7 | 7639.8 | 7643.5 | 7628.7 | 7614.0 | 7608.4 | 7612.1 |
| 7531.0 | 7.5° | 7499.7 | 7556.8 | 7625.0 | 7584.5 | 7595.5 | 7586.3 | 7579.0 | 7567.9 | 7584.5 |
| 7442.6 | 10° | 7413.1 | 7464.7 | 7543.9 | 7505.2 | 7499.7 | 7490.5 | 7483.1 | 7462.8 | 7472.1 |
| 7282.2 | 12.5° | 7223.2 | 7287.7 | 7378.1 | 7333.8 | 7348.6 | 7322.8 | 7311.7 | 7298.8 | 7300.6 |
| 7003.9 | 15° | 6965.2 | 7015.0 | 7107.1 | 7072.1 | 7083.2 | 7066.6 | 7066.6 | 7066.6 | 7079.5 |
| 6498.9 | 17.5° | 6515.5 | 6616.8 | 6762.4 | 6718.2 | 6734.8 | 6738.5 | 6734.8 | 6747.7 | 6764.3 |
| 5780.1 | 20° | 5783.7 | 5957.0 | 6222.4 | 6309.0 | 6344.1 | 6345.9 | 6320.1 | 6351.4 | 6384.6 |
| 5107.3 | 22.5° | 5111.0 | 5293.5 | 5527.6 | 5765.3 | 5912.8 | 5905.4 | 5909.1 | 5929.4 | 5964.4 |
| 4508.3 | 25° | 4528.6 | 4703.7 | 4915.6 | 5127.6 | 5450.1 | 5516.5 | 5518.3 | 5536.8 | 5564.4 |
| 4099.1 | 27.5° | 4108.3 | 4176.5 | 4370.1 | 4583.9 | 4930.4 | 5142.3 | 5131.3 | 5147.9 | 5177.4 |
| 3586.7 | 30° | 3601.5 | 3863.2 | 3907.4 | 4038.3 | 4336.9 | 4725.8 | 4727.6 | 4746.1 | 4775.6 |
| 3284.5 | 32.5° | 3275.2 | 3448.5 | 3584.9 | 3588.6 | 3842.9 | 4242.9 | 4322.1 | 4340.6 | 4360.8 |
| 2971.1 | 35° | 2969.3 | 2989.6 | 3173.9 | 3225.5 | 3372.9 | 3769.2 | 3909.3 | 3920.3 | 3953.5 |
| 2526.9 | 37.5° | 2569.3 | 2689.1 | 2740.7 | 2925.0 | 2932.4 | 3253.1 | 3531.4 | 3520.4 | 3546.2 |
| 2174.9 | 40° | 2202.5 | 2316.8 | 2447.7 | 2582.2 | 2600.7 | 2840.3 | 3148.1 | 3159.1 | 3170.2 |
| 1804.4 | 42.5° | 1819.2 | 1964.8 | 2099.3 | 2189.6 | 2315.0 | 2453.2 | 2746.3 | 2797.9 | 2823.7 |
| 1546.4 | 45° | 1574.0 | 1614.6 | 1774.9 | 1907.6 | 2034.8 | 2099.3 | 2374.0 | 2468.0 | 2484.5 |
| 1223.8 | 47.5° | 1240.4 | 1376.8 | 1485.6 | 1598.0 | 1756.5 | 1813.6 | 2012.7 | 2143.6 | 2156.5 |
| 908.7 | 50° | 958.4 | 1056.1 | 1205.4 | 1306.8 | 1491.1 | 1522.4 | 1658.8 | 1828.4 | 1845.0 |
| 608.2 | 52.5° | 685.6 | 818.4 | 964.0 | 1061.6 | 1238.6 | 1279.1 | 1380.5 | 1542.7 | 1553.8 |
| 466.3 | 55° | 492.1 | 578.7 | 698.5 | 838.6 | 967.6 | 1058.0 | 1128.0 | 1282.8 | 1297.6 |
| 306.0 | 57.5° | 335.4 | 416.5 | 466.3 | 606.4 | 683.8 | 781.5 | 838.6 | 956.6 | 967.6 |
| 145.6 | 60° | 160.4 | 199.1 | 237.8 | 307.8 | 357.6 | 440.5 | 477.4 | 525.3 | 538.2 |
| 88.5 | 62.5° | 103.2 | 121.6 | 154.8 | 184.3 | 232.2 | 283.8 | 298.6 | 339.1 | 353.9 |
| 55.3 | 65° | 68.2 | 86.6 | 121.6 | 129.0 | 176.9 | 217.5 | 235.9 | 265.4 | 282.0 |
| 33.2 | 67.5° | 38.7 | 60.8 | 90.3 | 106.9 | 140.1 | 178.8 | 199.1 | 224.9 | 239.6 |
| 22.1 | 70° | 25.8 | 49.8 | 71.9 | 88.5 | 110.6 | 143.8 | 169.6 | 191.7 | 200.9 |
| 11.1 | 72.5° | 14.7 | 31.3 | 49.8 | 70.0 | 88.5 | 119.8 | 143.8 | 162.2 | 106.9 |
| 7.4 | 75° | 9.2 | 24.0 | 42.4 | 59.0 | 73.7 | 95.8 | 116.1 | 114.3 | 47.9 |
| 5.5 | 77.5° | 7.4 | 18.4 | 36.9 | 49.8 | 60.8 | 66.4 | 82.9 | 94.0 | 36.9 |
| 3.7 | 80° | 5.5 | 14.7 | 33.2 | 42.4 | 24.0 | 47.9 | 64.5 | 70.0 | 25.8 |
| 3.7 | 82.5° | 3.7 | 9.2 | 27.6 | 29.5 | 16.6 | 35.0 | 51.6 | 46.1 | 18.4 |
| 1.8 | 85° | 1.8 | 5.5 | 9.2 | 16.6 | 14.7 | 16.6 | 12.9 | 18.4 | 12.9 |
| 1.8 | 87.5° | 1.8 | 3.7 | 7.4 | 7.4 | 7.4 | 5.5 | 7.4 | 7.4 | 7.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
7693.2
7671.1
7658.2
7630.6
7516.3
7354.1
7085.0
6819.6
6406.7
5969.9
5612.3
5205.0
4827.2
4406.9
3988.5
3577.5
3205.2
2860.5
2525.1
2187.8
1868.9
1574.0
1310.5
989.8
552.9
357.6
282.0
237.8
199.1
86.6
47.9
36.9
27.6
18.4
12.9
7.4
0.0

(END OF REPORT)