

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: P637786

Luminaire Tested: **IFLD-S-SA3A-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8545.6 lumens
Efficiency: N/A
Efficacy: 90.1 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

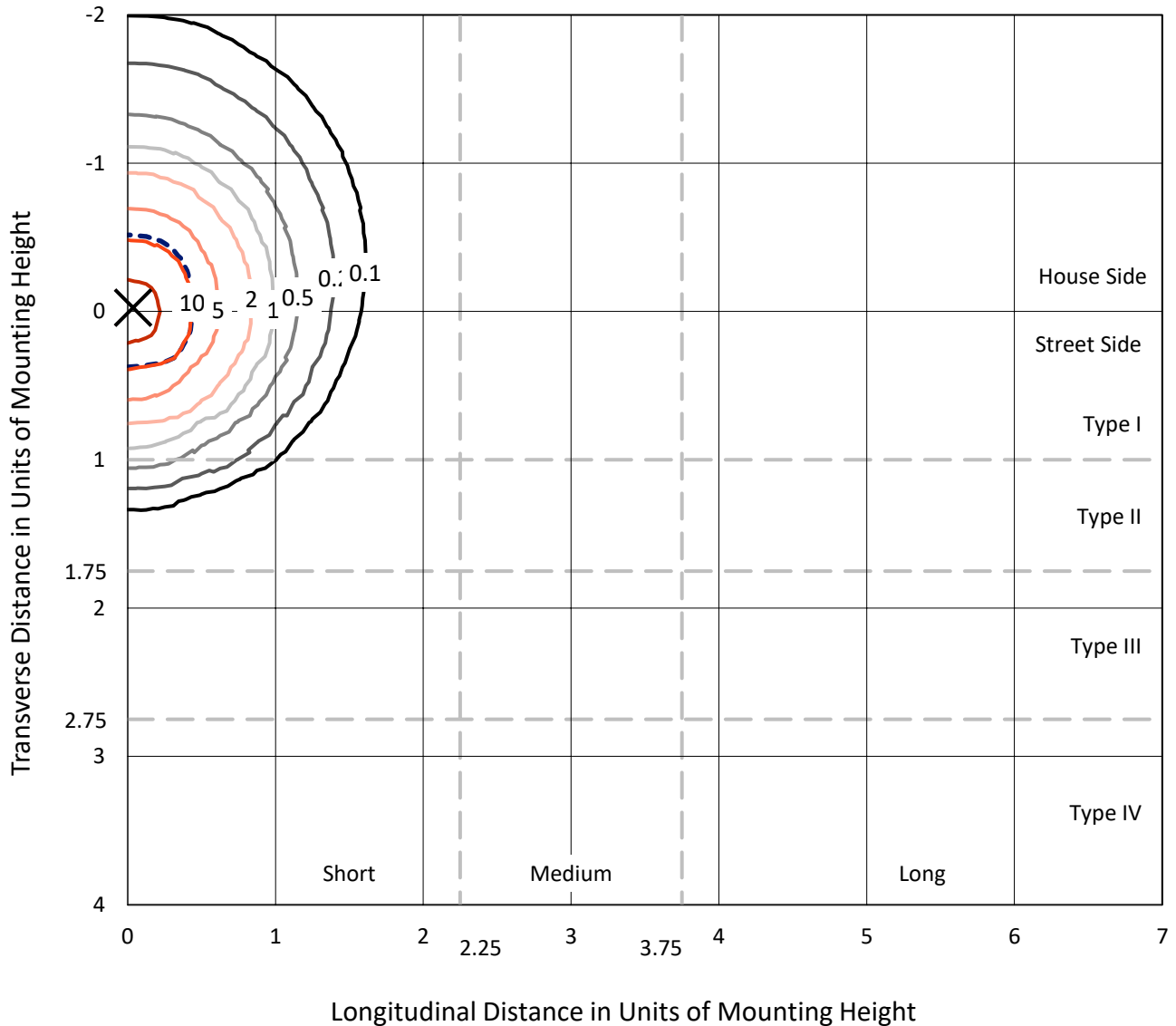
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

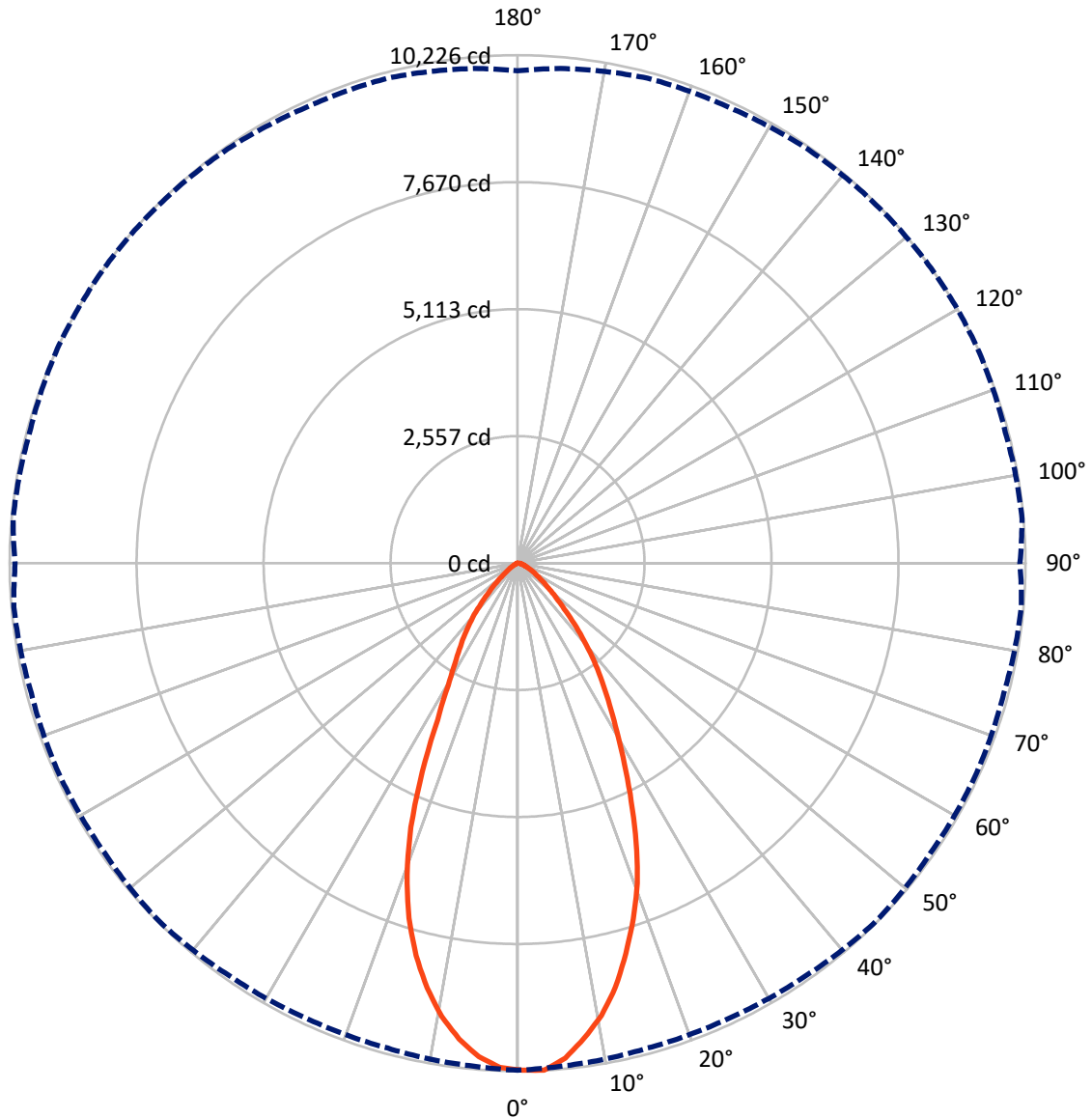
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4849.1 | 0.0 | 4849.1 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 3696.5 | 0.0 | 3696.5 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 8545.6 | 0.0 | 8545.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 927.1 | 10.8 |
| 10°-20° | 2210.0 | 25.9 |
| 20°-30° | 2250.8 | 26.3 |
| 30°-40° | 1678.4 | 19.6 |
| 40°-50° | 876.9 | 10.3 |
| 50°-60° | 368.8 | 4.3 |
| 60°-70° | 150.6 | 1.8 |
| 70°-80° | 63.4 | 0.7 |
| 80°-90° | 19.5 | 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° | 8545.6 | 100.0 |
| 0°-180° | 8545.6 | 100.0 |



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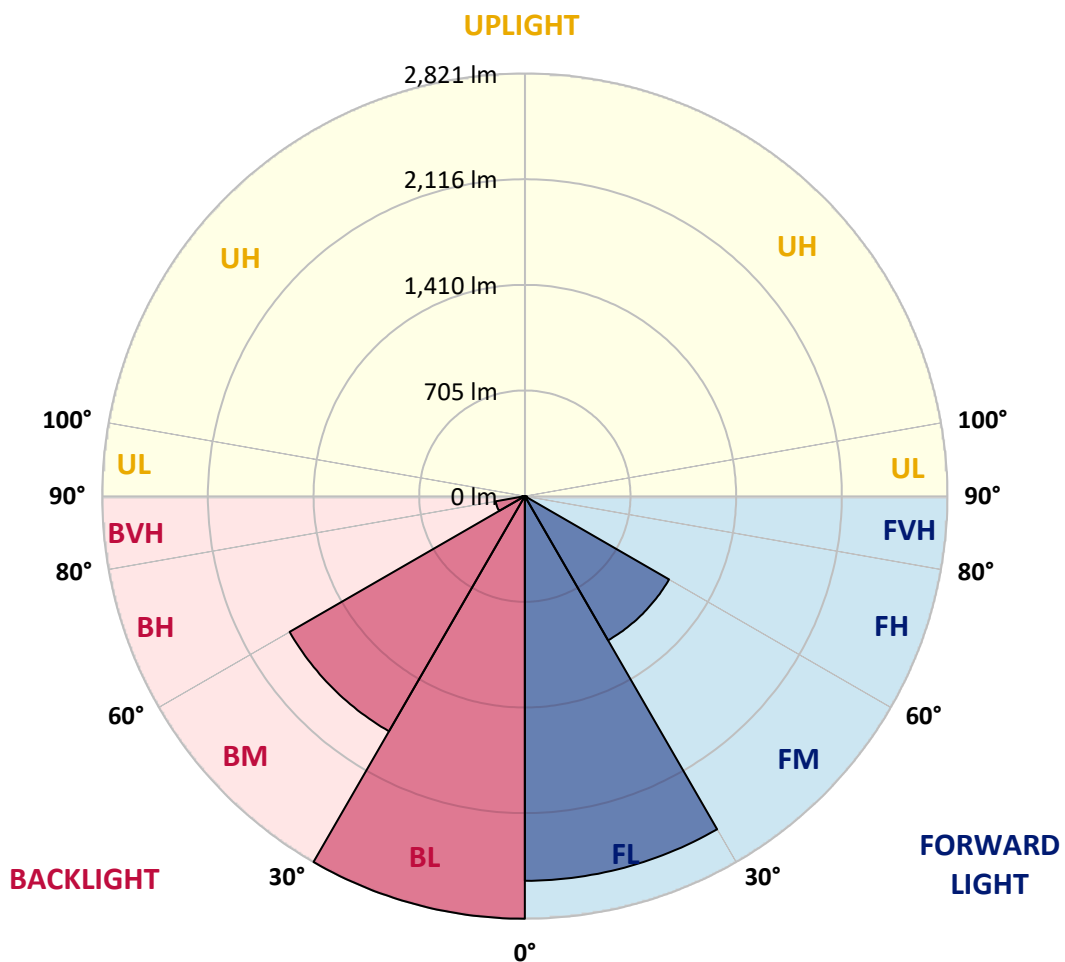
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2567.2 | 30.0 | | | |
| FM (30°-60°) | 1111.4 | 13.0 | | | |
| FH (60°-80°) | 16.1 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2820.7 | 33.0 | B4/5000 | | |
| BM (30°-60°) | 1812.7 | 21.2 | B2/2500 | | |
| BH (60°-80°) | 197.9 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.7 | 0.2 | | | G1/100 |
| 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° | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 |
| 2.5° | 10211.0 | 10169.3 | 10110.0 | 10104.5 | 10135.2 | 10202.2 | 10159.4 | 10161.6 | 10135.2 | 10180.2 |
| 5° | 10050.7 | 10011.2 | 9970.6 | 9916.8 | 9961.8 | 9990.3 | 9968.4 | 9944.2 | 9910.2 | 9954.1 |
| 7.5° | 9747.7 | 9725.8 | 9665.4 | 9641.3 | 9668.7 | 9700.5 | 9653.3 | 9646.7 | 9599.5 | 9656.6 |
| 10° | 9284.5 | 9275.7 | 9216.4 | 9202.2 | 9226.3 | 9274.6 | 9253.8 | 9249.4 | 9219.7 | 9214.2 |
| 12.5° | 8803.7 | 8769.7 | 8696.1 | 8691.7 | 8728.0 | 8800.4 | 8744.4 | 8690.6 | 8707.1 | 8721.4 |
| 15° | 7565.5 | 7529.2 | 7711.5 | 7998.0 | 8148.4 | 8142.9 | 8159.3 | 8094.6 | 8074.8 | 8081.4 |
| 17.5° | 6014.4 | 5952.9 | 6018.8 | 6462.3 | 7176.9 | 7591.8 | 7477.7 | 7338.2 | 7263.6 | 7214.2 |
| 20° | 5191.1 | 5194.4 | 5182.3 | 5296.5 | 5742.2 | 6688.4 | 6661.0 | 6392.0 | 6294.3 | 6253.7 |
| 22.5° | 4690.5 | 4671.9 | 4645.5 | 4681.8 | 4801.4 | 5356.9 | 5729.0 | 5482.0 | 5448.0 | 5403.0 |
| 25° | 4199.9 | 4199.9 | 4168.0 | 4204.3 | 4238.3 | 4246.0 | 4619.2 | 4720.2 | 4654.3 | 4654.3 |
| 27.5° | 3775.1 | 3753.1 | 3738.8 | 3755.3 | 3710.3 | 3494.0 | 3541.2 | 4058.3 | 4013.3 | 3985.8 |
| 30° | 3353.5 | 3346.9 | 3322.8 | 3344.7 | 3177.9 | 2934.2 | 2835.4 | 3424.9 | 3472.1 | 3462.2 |
| 32.5° | 2768.4 | 2794.8 | 2902.4 | 2936.4 | 2651.0 | 2454.5 | 2360.1 | 2843.1 | 3031.9 | 3024.2 |
| 35° | 1881.5 | 1903.4 | 2026.4 | 2432.5 | 2197.6 | 2057.1 | 2029.7 | 2261.3 | 2572.0 | 2601.6 |
| 37.5° | 1498.4 | 1495.1 | 1530.2 | 1602.7 | 1766.2 | 1732.2 | 1724.5 | 1784.9 | 2097.7 | 2110.9 |
| 40° | 1234.9 | 1230.5 | 1229.4 | 1170.2 | 1129.6 | 1440.2 | 1419.3 | 1383.1 | 1654.3 | 1680.6 |
| 42.5° | 995.6 | 1000.0 | 1003.3 | 873.8 | 814.5 | 1110.9 | 1098.8 | 1061.5 | 1297.5 | 1328.2 |
| 45° | 781.6 | 780.5 | 787.1 | 650.9 | 634.5 | 710.2 | 821.1 | 791.5 | 979.2 | 1012.1 |
| 47.5° | 405.1 | 419.3 | 508.2 | 503.9 | 511.5 | 503.9 | 621.3 | 613.6 | 736.6 | 789.3 |
| 50° | 272.2 | 276.6 | 284.3 | 285.4 | 402.9 | 371.0 | 421.5 | 477.5 | 515.9 | 597.2 |
| 52.5° | 210.8 | 214.1 | 194.3 | 182.2 | 247.0 | 274.4 | 276.6 | 330.4 | 360.1 | 442.4 |
| 55° | 117.5 | 131.7 | 141.6 | 142.7 | 136.1 | 203.1 | 202.0 | 244.8 | 267.8 | 322.7 |
| 57.5° | 15.4 | 18.7 | 28.5 | 92.2 | 91.1 | 113.1 | 141.6 | 177.8 | 191.0 | 236.0 |
| 60° | 1.1 | 2.2 | 3.3 | 14.3 | 60.4 | 65.9 | 96.6 | 110.9 | 132.8 | 165.8 |
| 62.5° | 0.0 | 0.0 | 1.1 | 3.3 | 12.1 | 38.4 | 50.5 | 58.2 | 77.9 | 108.7 |
| 65° | 0.0 | 0.0 | 1.1 | 2.2 | 4.4 | 14.3 | 19.8 | 31.8 | 46.1 | 67.0 |
| 67.5° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 5.5 | 8.8 | 14.3 | 24.1 | 40.6 |
| 70° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 4.4 | 6.6 | 8.8 | 13.2 | 22.0 |
| 72.5° | 0.0 | 0.0 | 1.1 | 1.1 | 2.2 | 5.5 | 5.5 | 6.6 | 8.8 | 12.1 |
| 75° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 5.5 | 5.5 | 5.5 | 6.6 | 7.7 |
| 77.5° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 5.5 | 4.4 | 5.5 | 5.5 | 5.5 |
| 80° | 0.0 | 0.0 | 1.1 | 2.2 | 3.3 | 5.5 | 6.6 | 5.5 | 4.4 | 4.4 |
| 82.5° | 0.0 | 0.0 | 1.1 | 3.3 | 3.3 | 7.7 | 7.7 | 7.7 | 3.3 | 3.3 |
| 85° | 0.0 | 0.0 | 2.2 | 3.3 | 5.5 | 8.8 | 8.8 | 6.6 | 3.3 | 2.2 |
| 87.5° | 0.0 | 0.0 | 1.1 | 2.2 | 2.2 | 4.4 | 6.6 | 5.5 | 2.2 | 1.1 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10209.9 | 0° | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 | 10209.9 |
| 10114.4 | 2.5° | 10195.6 | 10168.2 | 10219.8 | 10226.3 | 10204.4 | 10176.9 | 10113.3 | 10107.8 | 9996.9 |
| 9890.4 | 5° | 10002.4 | 9957.4 | 9990.3 | 10012.3 | 10004.6 | 9975.0 | 9948.6 | 9924.5 | 9824.6 |
| 9527.1 | 7.5° | 9642.4 | 9625.9 | 9641.3 | 9657.7 | 9689.6 | 9657.7 | 9646.7 | 9621.5 | 9522.7 |
| 9169.2 | 10° | 9242.8 | 9212.0 | 9270.2 | 9262.5 | 9253.8 | 9245.0 | 9198.9 | 9203.3 | 9086.9 |
| 8681.9 | 12.5° | 8752.1 | 8700.5 | 8756.5 | 8763.1 | 8756.5 | 8725.8 | 8674.2 | 8696.1 | 8589.6 |
| 8023.2 | 15° | 8092.4 | 8086.9 | 8127.5 | 8153.8 | 8172.5 | 8139.6 | 8122.0 | 8133.0 | 8069.3 |
| 7175.8 | 17.5° | 7282.3 | 7353.6 | 7486.4 | 7531.4 | 7532.5 | 7566.6 | 7556.7 | 7543.5 | 7496.3 |
| 6237.2 | 20° | 6329.4 | 6466.7 | 6670.8 | 6880.5 | 6940.9 | 6912.3 | 6899.2 | 6923.3 | 6853.1 |
| 5355.8 | 22.5° | 5450.2 | 5567.6 | 5804.7 | 6111.0 | 6287.7 | 6305.3 | 6302.0 | 6281.1 | 6253.7 |
| 4649.9 | 25° | 4703.7 | 4808.0 | 5035.2 | 5315.2 | 5654.3 | 5704.8 | 5707.0 | 5700.4 | 5676.3 |
| 4010.0 | 27.5° | 4073.6 | 4199.9 | 4325.0 | 4575.3 | 4936.4 | 5145.0 | 5118.7 | 5111.0 | 5102.2 |
| 3469.9 | 30° | 3502.8 | 3662.0 | 3779.4 | 3935.3 | 4259.1 | 4541.3 | 4568.7 | 4555.5 | 4534.7 |
| 3023.1 | 32.5° | 3050.6 | 3145.0 | 3294.3 | 3399.6 | 3632.3 | 3951.8 | 4057.2 | 4047.3 | 4028.6 |
| 2620.3 | 35° | 2657.6 | 2694.9 | 2812.4 | 2929.8 | 3084.6 | 3394.1 | 3550.0 | 3528.1 | 3524.8 |
| 2135.1 | 37.5° | 2188.8 | 2314.0 | 2378.8 | 2497.3 | 2606.0 | 2846.4 | 3061.5 | 3051.7 | 3052.8 |
| 1716.8 | 40° | 1767.3 | 1839.8 | 1968.2 | 2068.1 | 2168.0 | 2343.6 | 2582.9 | 2589.5 | 2587.3 |
| 1329.3 | 42.5° | 1356.8 | 1427.0 | 1562.1 | 1670.7 | 1759.6 | 1868.3 | 2096.6 | 2104.3 | 2114.2 |
| 1035.1 | 45° | 1059.3 | 1104.3 | 1203.1 | 1316.2 | 1410.6 | 1476.4 | 1649.9 | 1699.3 | 1700.4 |
| 802.4 | 47.5° | 822.2 | 873.8 | 944.0 | 1052.7 | 1144.9 | 1192.1 | 1318.4 | 1385.3 | 1382.0 |
| 615.8 | 50° | 645.5 | 692.7 | 749.7 | 835.4 | 935.3 | 972.6 | 1065.9 | 1131.7 | 1128.5 |
| 464.3 | 52.5° | 494.0 | 554.3 | 604.8 | 670.7 | 768.4 | 800.2 | 867.2 | 942.9 | 932.0 |
| 340.3 | 55° | 374.3 | 435.8 | 483.0 | 537.9 | 626.8 | 667.4 | 713.5 | 773.9 | 776.1 |
| 263.5 | 57.5° | 282.1 | 345.8 | 388.6 | 444.6 | 511.5 | 556.5 | 591.7 | 656.4 | 655.3 |
| 180.0 | 60° | 202.0 | 256.9 | 308.5 | 366.6 | 418.2 | 469.8 | 494.0 | 555.4 | 557.6 |
| 127.3 | 62.5° | 146.0 | 197.6 | 247.0 | 297.5 | 343.6 | 394.1 | 416.0 | 464.3 | 470.9 |
| 83.4 | 65° | 102.1 | 138.3 | 195.4 | 233.8 | 285.4 | 322.7 | 351.3 | 393.0 | 400.7 |
| 49.4 | 67.5° | 65.9 | 99.9 | 154.8 | 188.8 | 236.0 | 267.8 | 297.5 | 330.4 | 340.3 |
| 31.8 | 70° | 39.5 | 75.7 | 115.3 | 151.5 | 194.3 | 222.8 | 251.4 | 279.9 | 285.4 |
| 15.4 | 72.5° | 25.2 | 52.7 | 83.4 | 122.9 | 155.9 | 186.6 | 211.9 | 232.7 | 216.3 |
| 9.9 | 75° | 14.3 | 36.2 | 65.9 | 96.6 | 126.2 | 155.9 | 176.7 | 187.7 | 150.4 |
| 6.6 | 77.5° | 8.8 | 26.3 | 53.8 | 77.9 | 97.7 | 125.1 | 138.3 | 144.9 | 107.6 |
| 4.4 | 80° | 5.5 | 19.8 | 45.0 | 63.7 | 63.7 | 92.2 | 107.6 | 113.1 | 77.9 |
| 3.3 | 82.5° | 4.4 | 14.3 | 35.1 | 48.3 | 42.8 | 69.2 | 84.5 | 85.6 | 54.9 |
| 2.2 | 85° | 3.3 | 11.0 | 22.0 | 31.8 | 29.6 | 48.3 | 49.4 | 54.9 | 36.2 |
| 2.2 | 87.5° | 2.2 | 6.6 | 13.2 | 18.7 | 16.5 | 23.1 | 26.3 | 29.6 | 19.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| |
|---------------|
| 180° |
| <hr/> 10209.9 |
| 9910.2 |
| 9744.4 |
| 9501.8 |
| 9047.4 |
| 8558.9 |
| 7992.5 |
| 7426.1 |
| 6802.6 |
| 6201.0 |
| 5595.1 |
| 5050.6 |
| 4508.3 |
| 3979.2 |
| 3488.5 |
| 3017.6 |
| 2548.9 |
| 2081.3 |
| 1671.8 |
| 1370.0 |
| 1128.5 |
| 933.1 |
| 776.1 |
| 653.1 |
| 552.2 |
| 468.7 |
| 398.5 |
| 339.2 |
| 281.0 |
| 200.9 |
| 142.7 |
| 101.0 |
| 72.4 |
| 50.5 |
| 32.9 |
| 17.6 |
| 0.0 |

(END OF REPORT)