

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: P636929

Luminaire Tested: **IFLD-M-SA4D-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15310.2 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

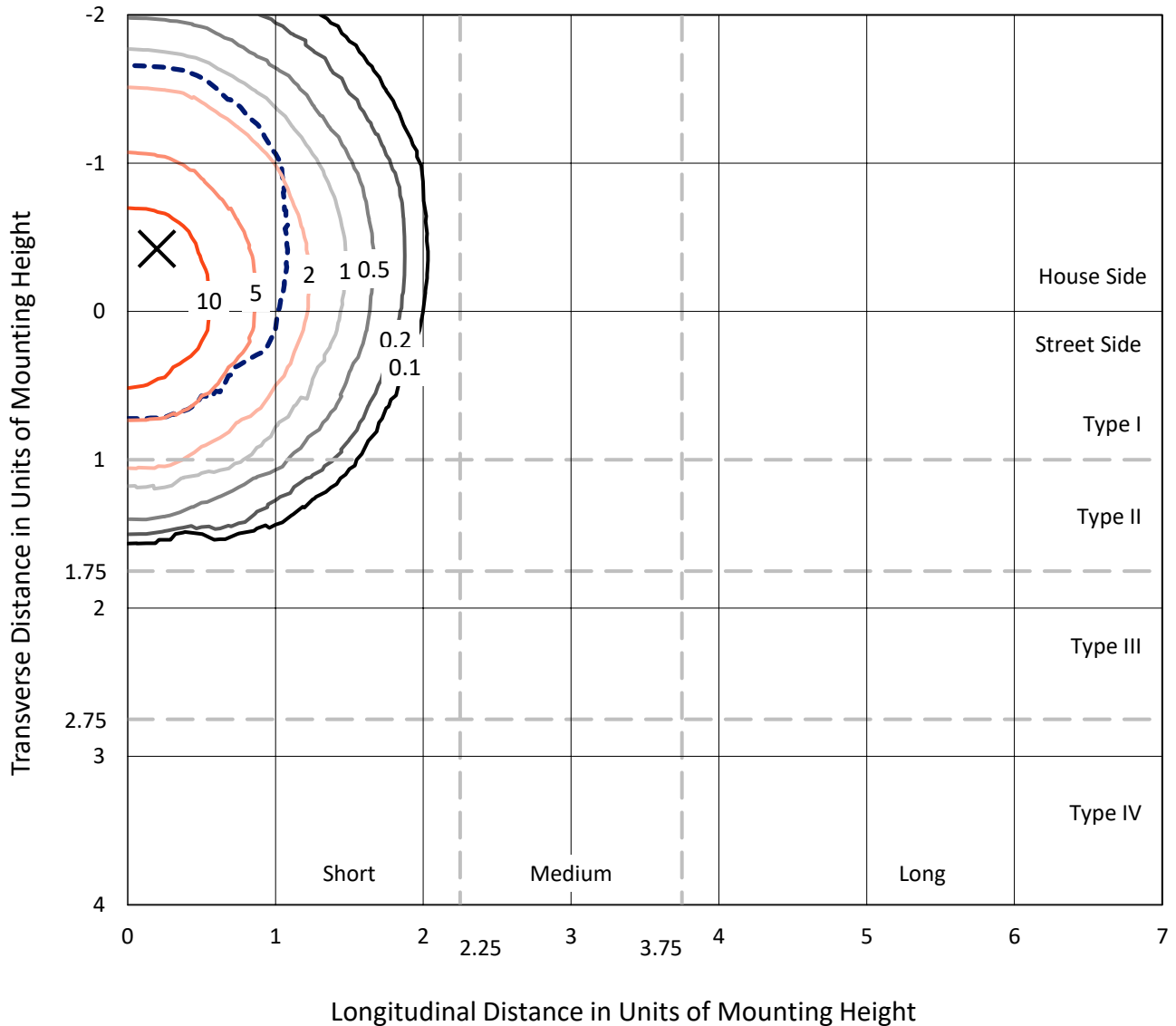
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

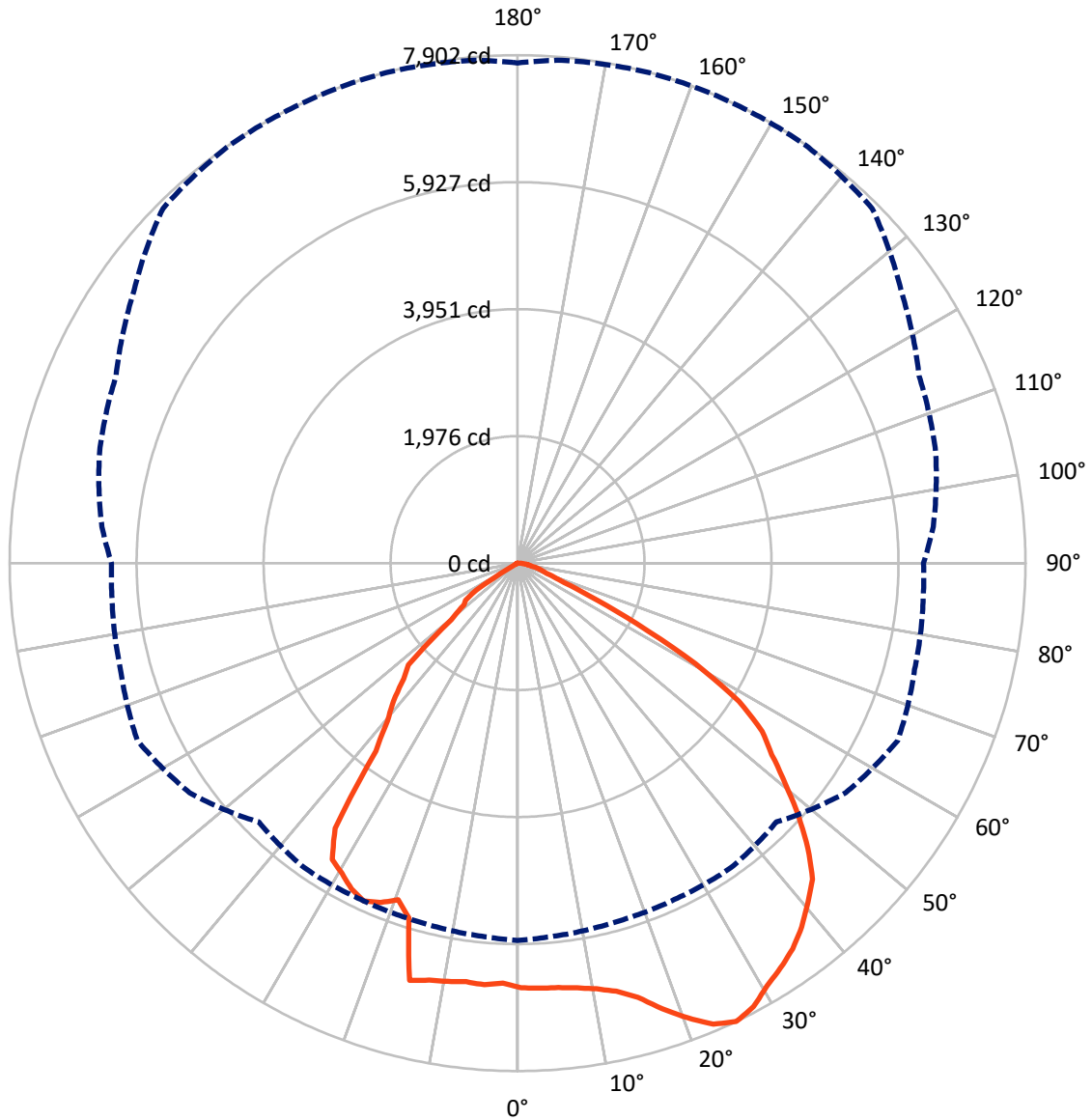
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.5 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 | 9478.6 | 0.0 | 9478.6 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 5831.6 | 0.0 | 5831.6 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 15310.2 | 0.0 | 15310.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 633.8 | 4.1 |
| 10°-20° | 1935.2 | 12.6 |
| 20°-30° | 3059.4 | 20.0 |
| 30°-40° | 3455.8 | 22.6 |
| 40°-50° | 3236.5 | 21.1 |
| 50°-60° | 2231.3 | 14.6 |
| 60°-70° | 599.5 | 3.9 |
| 70°-80° | 125.0 | 0.8 |
| 80°-90° | 33.8 | 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° | 15310.2 | 100.0 |
| 0°-180° | 15310.2 | 100.0 |



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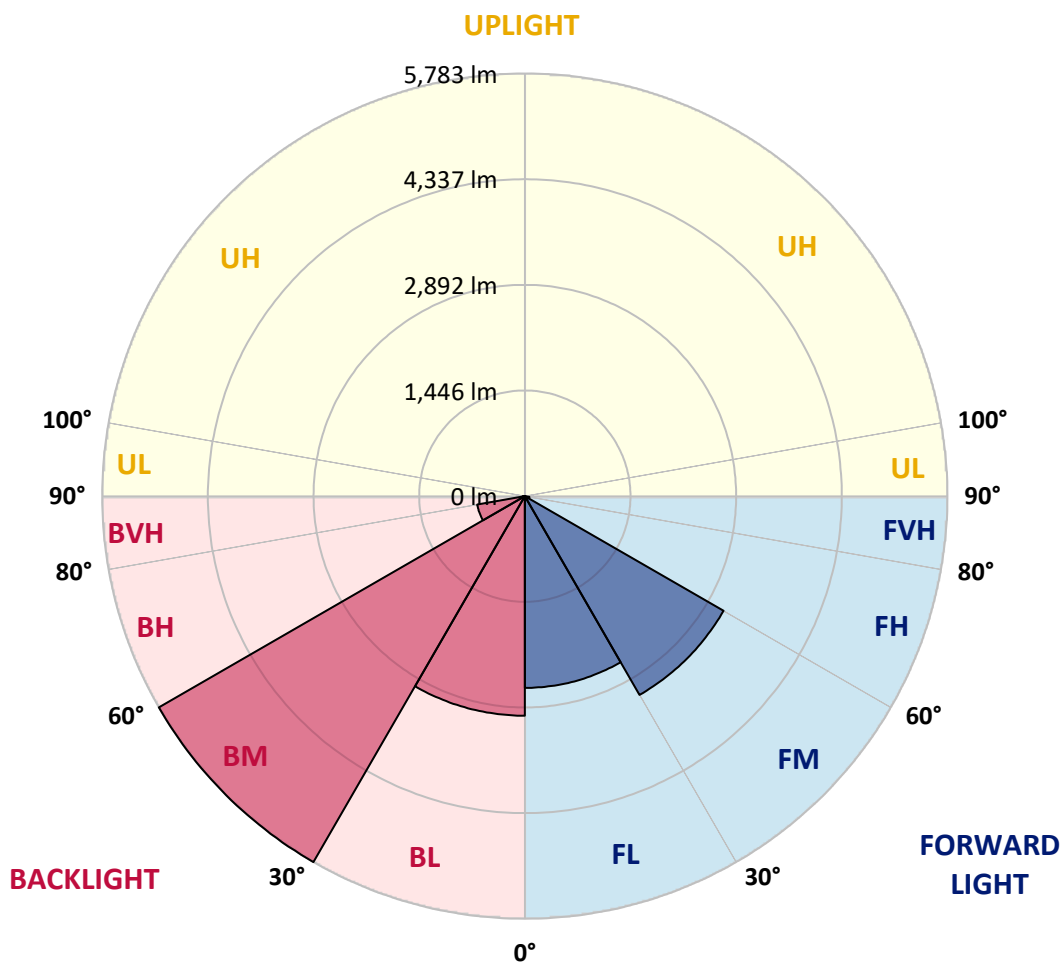
CATALOG NUMBER: IFLD-M-SA4D-935-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2623.7 | 17.1 | | | |
| FM (30°-60°) | 3140.5 | 20.5 | | | |
| FH (60°-80°) | 63.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 4.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 3004.6 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 5783.2 | 37.8 | B4/8500 | | |
| BH (60°-80°) | 661.5 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.3 | 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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 |
| 2.5° | 6635.3 | 6592.5 | 6552.0 | 6538.5 | 6594.8 | 6655.5 | 6617.3 | 6619.5 | 6606.0 | 6630.8 |
| 5° | 6684.8 | 6626.3 | 6599.3 | 6579.0 | 6588.0 | 6651.0 | 6597.0 | 6617.3 | 6594.8 | 6624.0 |
| 7.5° | 6666.8 | 6626.3 | 6599.3 | 6561.0 | 6590.3 | 6664.5 | 6612.8 | 6615.0 | 6603.8 | 6630.8 |
| 10° | 6655.5 | 6626.3 | 6592.5 | 6597.0 | 6630.8 | 6693.8 | 6653.3 | 6675.8 | 6660.0 | 6675.8 |
| 12.5° | 6682.5 | 6651.0 | 6633.0 | 6633.0 | 6662.3 | 6734.3 | 6714.0 | 6734.3 | 6727.5 | 6741.0 |
| 15° | 6428.3 | 6457.5 | 6628.5 | 6705.0 | 6763.5 | 6835.5 | 6826.5 | 6846.8 | 6851.3 | 6871.5 |
| 17.5° | 5422.5 | 5393.3 | 5379.8 | 5773.5 | 6819.8 | 7042.5 | 7035.8 | 7033.5 | 7011.0 | 6995.3 |
| 20° | 5555.3 | 5544.0 | 5528.3 | 5557.5 | 5674.5 | 7150.5 | 7195.5 | 6918.8 | 6837.8 | 6831.0 |
| 22.5° | 5766.8 | 5748.8 | 5690.3 | 5692.5 | 5728.5 | 6216.8 | 6972.8 | 6720.8 | 6693.8 | 6678.0 |
| 25° | 5870.3 | 5834.3 | 5787.0 | 5773.5 | 5784.8 | 5694.8 | 6228.0 | 6527.3 | 6394.5 | 6333.8 |
| 27.5° | 5688.0 | 5690.3 | 5652.0 | 5688.0 | 5645.3 | 5240.3 | 5013.0 | 6149.3 | 6144.8 | 6117.8 |
| 30° | 5550.8 | 5544.0 | 5499.0 | 5544.0 | 5249.3 | 4797.0 | 4700.3 | 5735.3 | 5688.0 | 5652.0 |
| 32.5° | 5130.0 | 5134.5 | 5265.0 | 5440.5 | 4956.8 | 4599.0 | 4306.5 | 5123.3 | 5571.0 | 5550.8 |
| 35° | 3669.8 | 3678.8 | 4142.3 | 5008.5 | 4513.5 | 4205.3 | 4182.8 | 4428.0 | 5386.5 | 5395.5 |
| 37.5° | 3532.5 | 3532.5 | 3521.3 | 3663.0 | 4164.8 | 4045.5 | 4090.5 | 4065.8 | 4934.3 | 4956.8 |
| 40° | 3433.5 | 3413.3 | 3397.5 | 3174.8 | 2895.8 | 3933.0 | 3964.5 | 3852.0 | 4664.3 | 4668.8 |
| 42.5° | 3314.3 | 3291.8 | 3296.3 | 2884.5 | 2592.0 | 3654.0 | 3566.3 | 3415.5 | 4214.3 | 4218.8 |
| 45° | 3096.0 | 3134.3 | 3161.3 | 2524.5 | 2502.0 | 2610.0 | 3289.5 | 3195.0 | 3910.5 | 3993.8 |
| 47.5° | 1575.0 | 1608.8 | 2468.3 | 2322.0 | 2373.8 | 2319.8 | 2778.8 | 2781.0 | 3253.5 | 3530.3 |
| 50° | 1428.8 | 1419.8 | 1422.0 | 1354.5 | 2191.5 | 1876.5 | 2009.3 | 2549.3 | 2605.5 | 3001.5 |
| 52.5° | 1332.0 | 1329.8 | 1192.5 | 1059.8 | 1377.0 | 1651.5 | 1458.0 | 1845.0 | 1937.3 | 2542.5 |
| 55° | 985.5 | 1057.5 | 940.5 | 996.8 | 861.8 | 1323.0 | 1316.3 | 1665.0 | 1696.5 | 2038.5 |
| 57.5° | 9.0 | 11.3 | 27.0 | 758.3 | 596.3 | 661.5 | 909.0 | 1136.3 | 1192.5 | 1588.5 |
| 60° | 2.3 | 4.5 | 11.3 | 22.5 | 387.0 | 407.3 | 607.5 | 657.0 | 740.3 | 947.3 |
| 62.5° | 0.0 | 0.0 | 4.5 | 11.3 | 20.3 | 166.5 | 193.5 | 211.5 | 326.3 | 483.8 |
| 65° | 0.0 | 0.0 | 2.3 | 6.8 | 11.3 | 27.0 | 47.3 | 99.0 | 141.8 | 175.5 |
| 67.5° | 0.0 | 0.0 | 2.3 | 4.5 | 9.0 | 13.5 | 27.0 | 38.3 | 60.8 | 103.5 |
| 70° | 0.0 | 0.0 | 2.3 | 4.5 | 6.8 | 11.3 | 18.0 | 27.0 | 36.0 | 51.8 |
| 72.5° | 0.0 | 0.0 | 2.3 | 4.5 | 4.5 | 13.5 | 13.5 | 20.3 | 27.0 | 33.8 |
| 75° | 0.0 | 0.0 | 2.3 | 2.3 | 4.5 | 9.0 | 13.5 | 15.8 | 18.0 | 27.0 |
| 77.5° | 0.0 | 0.0 | 2.3 | 4.5 | 6.8 | 9.0 | 11.3 | 18.0 | 15.8 | 15.8 |
| 80° | 0.0 | 0.0 | 2.3 | 6.8 | 6.8 | 11.3 | 13.5 | 18.0 | 11.3 | 11.3 |
| 82.5° | 0.0 | 0.0 | 2.3 | 9.0 | 6.8 | 22.5 | 22.5 | 24.8 | 9.0 | 9.0 |
| 85° | 0.0 | 0.0 | 6.8 | 4.5 | 13.5 | 22.5 | 20.3 | 13.5 | 11.3 | 6.8 |
| 87.5° | 0.0 | 0.0 | 2.3 | 2.3 | 4.5 | 6.8 | 15.8 | 13.5 | 4.5 | 4.5 |
| 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-M-SA4D-935-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6606.0 | 0° | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 | 6606.0 |
| 6565.5 | 2.5° | 6655.5 | 6626.3 | 6687.0 | 6680.3 | 6651.0 | 6637.5 | 6621.8 | 6608.3 | 6509.3 |
| 6570.0 | 5° | 6657.8 | 6612.8 | 6687.0 | 6673.5 | 6669.0 | 6646.5 | 6633.0 | 6653.3 | 6563.3 |
| 6588.0 | 7.5° | 6657.8 | 6612.8 | 6693.8 | 6698.3 | 6691.5 | 6673.5 | 6671.3 | 6684.8 | 6610.5 |
| 6619.5 | 10° | 6702.8 | 6684.8 | 6752.3 | 6759.0 | 6750.0 | 6745.5 | 6734.3 | 6725.3 | 6646.5 |
| 6727.5 | 12.5° | 6797.3 | 6761.3 | 6837.8 | 6858.0 | 6851.3 | 6862.5 | 6835.5 | 6849.0 | 6768.0 |
| 6837.8 | 15° | 6912.0 | 6914.3 | 6972.8 | 7017.8 | 7013.3 | 7049.3 | 7008.8 | 7044.8 | 6986.3 |
| 6963.8 | 17.5° | 7087.5 | 7112.3 | 7195.5 | 7263.0 | 7287.8 | 7314.8 | 7287.8 | 7299.0 | 7215.8 |
| 6824.3 | 20° | 6903.0 | 6995.3 | 7395.8 | 7519.5 | 7571.3 | 7596.0 | 7551.0 | 7564.5 | 7481.3 |
| 6653.3 | 22.5° | 6736.5 | 6855.8 | 7211.3 | 7598.3 | 7758.0 | 7807.5 | 7791.8 | 7789.5 | 7758.0 |
| 6315.8 | 25° | 6491.3 | 6732.0 | 6891.8 | 7301.3 | 7803.0 | 7893.0 | 7902.0 | 7899.8 | 7852.5 |
| 6108.8 | 27.5° | 6189.8 | 6243.8 | 6657.8 | 6907.5 | 7488.0 | 7830.0 | 7816.5 | 7751.3 | 7688.3 |
| 5679.0 | 30° | 5805.0 | 6050.3 | 6237.0 | 6635.3 | 7080.8 | 7636.5 | 7636.5 | 7587.0 | 7521.8 |
| 5526.0 | 32.5° | 5609.3 | 5926.5 | 6099.8 | 6243.8 | 6624.0 | 7420.5 | 7510.5 | 7458.8 | 7407.0 |
| 5406.8 | 35° | 5505.8 | 5553.0 | 5958.0 | 6088.5 | 6410.3 | 7004.3 | 7368.8 | 7317.0 | 7278.8 |
| 5089.5 | 37.5° | 5278.5 | 5388.8 | 5577.8 | 5926.5 | 6025.5 | 6664.5 | 7179.8 | 7152.8 | 7107.8 |
| 4677.8 | 40° | 4772.3 | 5067.0 | 5357.3 | 5688.0 | 5791.5 | 6228.0 | 6950.3 | 6961.5 | 6900.8 |
| 4239.0 | 42.5° | 4473.0 | 4673.3 | 5127.8 | 5350.5 | 5629.5 | 5946.8 | 6727.5 | 6745.5 | 6702.8 |
| 4016.3 | 45° | 4122.0 | 4344.8 | 4664.3 | 5069.3 | 5449.5 | 5559.8 | 6333.8 | 6522.8 | 6486.8 |
| 3573.0 | 47.5° | 3800.3 | 3980.3 | 4371.8 | 4781.3 | 5202.0 | 5186.3 | 5881.5 | 6237.0 | 6187.5 |
| 3233.3 | 50° | 3343.5 | 3658.5 | 3843.0 | 4218.8 | 4846.5 | 4889.3 | 5400.0 | 5901.8 | 5861.3 |
| 2747.3 | 52.5° | 2819.3 | 3215.3 | 3568.5 | 3912.8 | 4486.5 | 4587.8 | 4952.3 | 5559.8 | 5532.8 |
| 2099.3 | 55° | 2463.8 | 2751.8 | 3150.0 | 3426.8 | 4050.0 | 4320.0 | 4617.0 | 5233.5 | 5220.0 |
| 1725.8 | 57.5° | 1752.8 | 2308.5 | 2637.0 | 3024.0 | 3352.5 | 3840.8 | 4061.3 | 4569.8 | 4443.8 |
| 956.3 | 60° | 1188.0 | 1449.0 | 1849.5 | 2265.8 | 2486.3 | 2974.5 | 3179.3 | 3586.5 | 3552.8 |
| 571.5 | 62.5° | 627.8 | 868.5 | 1154.3 | 1363.5 | 1523.3 | 1998.0 | 2083.5 | 2522.3 | 2511.0 |
| 229.5 | 65° | 276.8 | 366.8 | 625.5 | 733.5 | 897.8 | 1118.3 | 1192.5 | 1350.0 | 1311.8 |
| 112.5 | 67.5° | 144.0 | 218.3 | 353.3 | 434.3 | 546.8 | 630.0 | 690.8 | 740.3 | 771.8 |
| 74.3 | 70° | 87.8 | 159.8 | 218.3 | 301.5 | 375.8 | 443.3 | 490.5 | 558.0 | 598.5 |
| 38.3 | 72.5° | 65.3 | 101.3 | 150.8 | 231.8 | 272.3 | 351.0 | 398.3 | 447.8 | 483.8 |
| 31.5 | 75° | 36.0 | 67.5 | 121.5 | 182.3 | 218.3 | 285.8 | 328.5 | 362.3 | 373.5 |
| 18.0 | 77.5° | 22.5 | 51.8 | 101.3 | 141.8 | 171.0 | 231.8 | 220.5 | 252.0 | 279.0 |
| 13.5 | 80° | 15.8 | 38.3 | 78.8 | 117.0 | 119.3 | 148.5 | 175.5 | 202.5 | 220.5 |
| 9.0 | 82.5° | 11.3 | 31.5 | 58.5 | 90.0 | 78.8 | 114.8 | 137.3 | 157.5 | 114.8 |
| 6.8 | 85° | 9.0 | 22.5 | 29.3 | 54.0 | 45.0 | 81.0 | 69.8 | 67.5 | 45.0 |
| 4.5 | 87.5° | 6.8 | 11.3 | 20.3 | 24.8 | 18.0 | 18.0 | 22.5 | 27.0 | 22.5 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 6606.0 |
| 6441.8 |
| 6486.8 |
| 6525.0 |
| 6581.3 |
| 6696.0 |
| 6889.5 |
| 7143.8 |
| 7422.8 |
| 7656.8 |
| 7780.5 |
| 7638.8 |
| 7497.0 |
| 7364.3 |
| 7224.8 |
| 7062.8 |
| 6887.3 |
| 6698.3 |
| 6491.3 |
| 6223.5 |
| 5868.0 |
| 5550.8 |
| 5235.8 |
| 4430.3 |
| 3555.0 |
| 2513.3 |
| 1296.0 |
| 771.8 |
| 600.8 |
| 490.5 |
| 366.8 |
| 283.5 |
| 222.8 |
| 83.3 |
| 45.0 |
| 22.5 |
| 0.0 |

(END OF REPORT)