

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: P638129

Luminaire Tested: **IFLD-S-SA2A-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638129
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7004 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

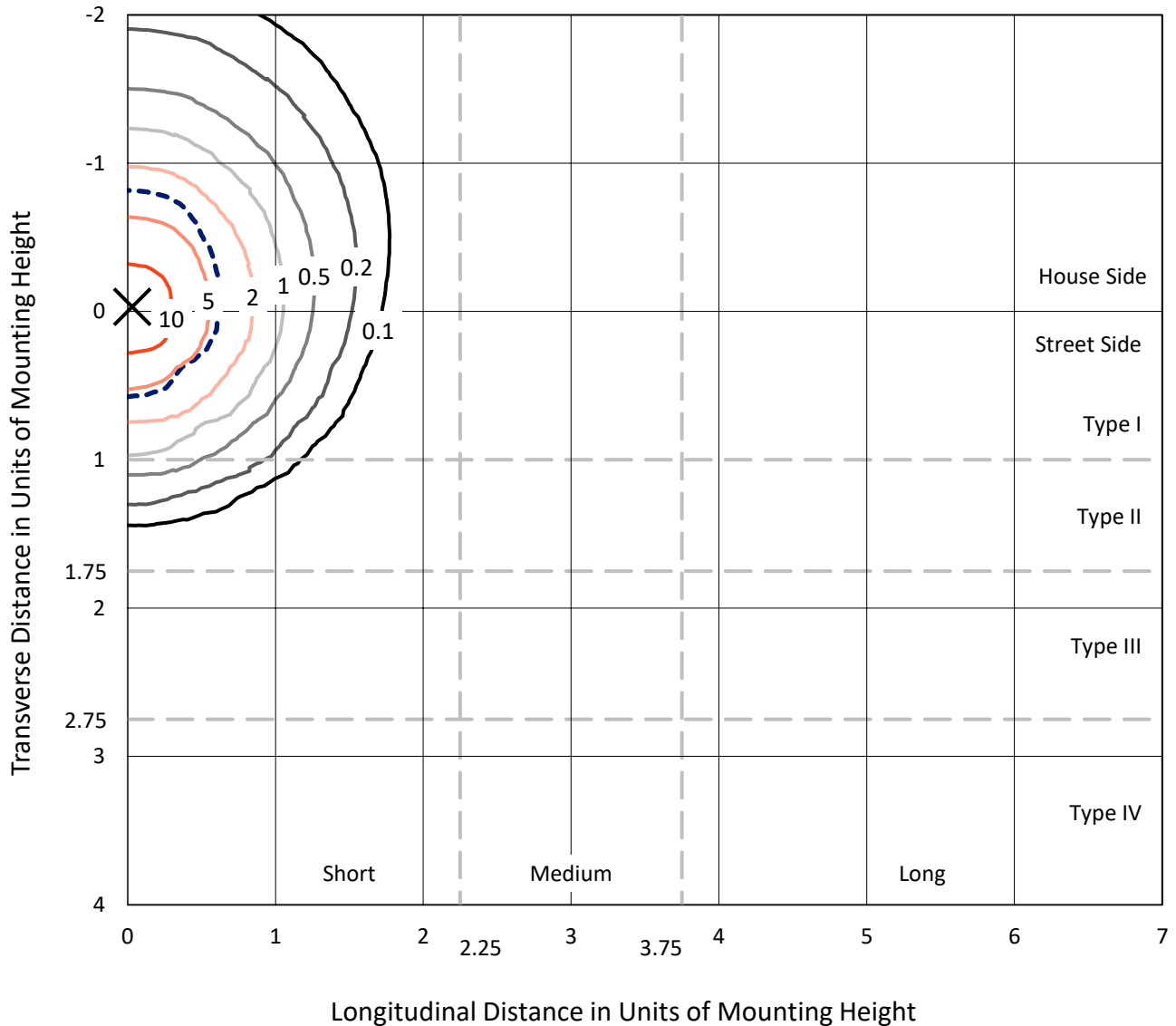
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

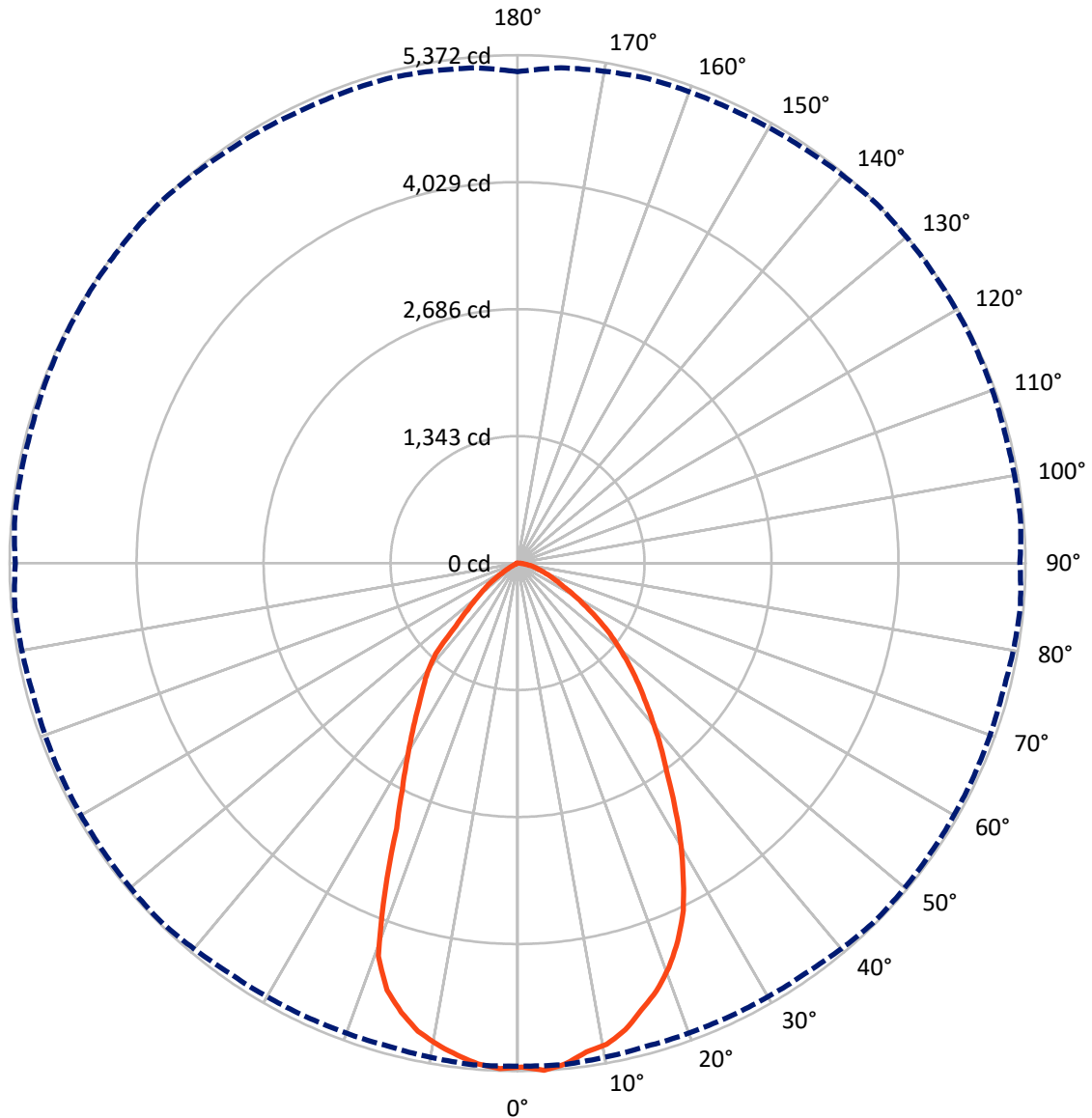
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4148.1 | 0.0 | 4148.1 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 2855.9 | 0.0 | 2855.9 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 7004.0 | 0.0 | 7004.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 499.9 | 7.1 |
| 10°-20° | 1340.4 | 19.1 |
| 20°-30° | 1634.7 | 23.3 |
| 30°-40° | 1492.5 | 21.3 |
| 40°-50° | 1078.6 | 15.4 |
| 50°-60° | 588.9 | 8.4 |
| 60°-70° | 243.5 | 3.5 |
| 70°-80° | 98.6 | 1.4 |
| 80°-90° | 26.8 | 0.4 |
| 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° | 7004.0 | 100.0 |
| 0°-180° | 7004.0 | 100.0 |



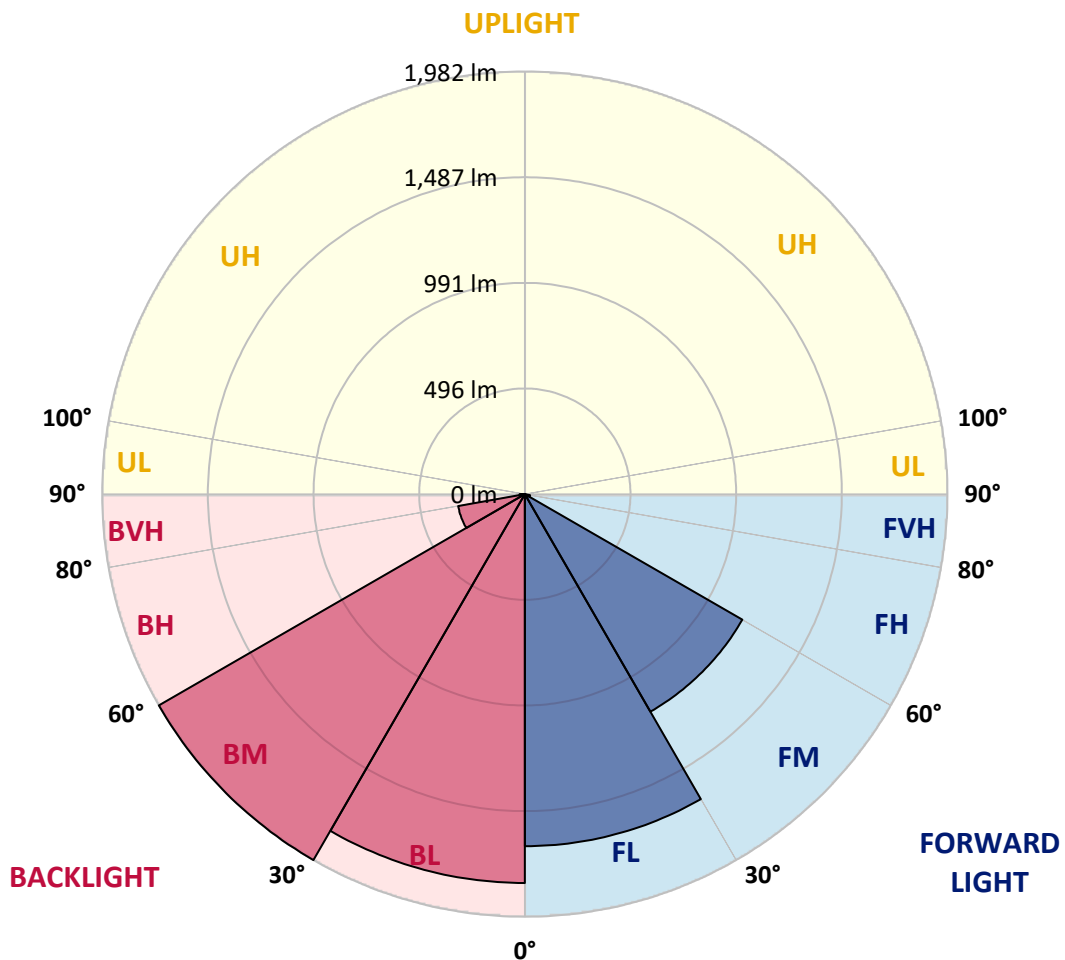
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 1651.1 | 23.6 | | | |
| FM | (30°-60°) | 1177.9 | 16.8 | | | |
| FH | (60°-80°) | 24.7 | 0.4 | | | G0/660 |
| FVH | (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| BL | (0°-30°) | 1823.9 | 26.0 | B3/2500 | | |
| BM | (30°-60°) | 1982.1 | 28.3 | B2/2500 | | |
| BH | (60°-80°) | 317.4 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 24.7 | 0.4 | | | 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° | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 |
| 2.5° | 5320.2 | 5327.1 | 5289.6 | 5293.5 | 5300.4 | 5350.7 | 5337.9 | 5326.1 | 5309.3 | 5337.9 |
| 5° | 5313.2 | 5317.2 | 5277.7 | 5263.9 | 5269.9 | 5315.2 | 5273.8 | 5273.8 | 5269.9 | 5264.9 |
| 7.5° | 5260.0 | 5262.0 | 5231.4 | 5206.7 | 5222.5 | 5243.2 | 5212.6 | 5227.4 | 5205.7 | 5222.5 |
| 10° | 5180.1 | 5167.3 | 5130.8 | 5123.9 | 5141.6 | 5161.4 | 5140.6 | 5154.5 | 5134.7 | 5147.5 |
| 12.5° | 5062.7 | 5043.0 | 5013.4 | 5004.5 | 5035.1 | 5061.7 | 5045.0 | 5037.1 | 5011.4 | 5043.0 |
| 15° | 4610.0 | 4595.2 | 4662.3 | 4779.7 | 4885.2 | 4907.9 | 4890.1 | 4898.0 | 4844.8 | 4853.6 |
| 17.5° | 3794.3 | 3766.7 | 3838.7 | 4116.9 | 4513.4 | 4722.4 | 4706.7 | 4655.4 | 4576.5 | 4594.2 |
| 20° | 3448.1 | 3440.2 | 3432.4 | 3498.4 | 3775.6 | 4409.8 | 4431.5 | 4301.3 | 4188.9 | 4164.2 |
| 22.5° | 3252.8 | 3249.9 | 3242.0 | 3256.8 | 3329.8 | 3737.1 | 3985.7 | 3865.3 | 3790.4 | 3783.5 |
| 25° | 3074.3 | 3069.4 | 3045.7 | 3064.5 | 3064.5 | 3088.1 | 3406.7 | 3479.7 | 3413.6 | 3405.7 |
| 27.5° | 2892.8 | 2884.0 | 2880.0 | 2888.9 | 2843.5 | 2683.7 | 2764.6 | 3120.7 | 3086.2 | 3088.1 |
| 30° | 2696.6 | 2693.6 | 2682.8 | 2701.5 | 2561.4 | 2363.2 | 2311.9 | 2795.2 | 2802.1 | 2800.1 |
| 32.5° | 2404.6 | 2417.4 | 2466.8 | 2487.5 | 2256.7 | 2092.9 | 2007.1 | 2418.4 | 2559.5 | 2556.5 |
| 35° | 1746.8 | 1746.8 | 1907.5 | 2206.4 | 1977.5 | 1854.3 | 1807.9 | 2050.5 | 2319.8 | 2329.7 |
| 37.5° | 1436.1 | 1441.0 | 1472.6 | 1608.7 | 1706.3 | 1662.9 | 1649.1 | 1726.0 | 2012.1 | 2027.9 |
| 40° | 1292.1 | 1292.1 | 1292.1 | 1235.8 | 1232.9 | 1498.2 | 1490.3 | 1465.7 | 1737.9 | 1772.4 |
| 42.5° | 1160.9 | 1163.8 | 1165.8 | 1023.8 | 944.9 | 1295.0 | 1277.3 | 1239.8 | 1492.3 | 1532.7 |
| 45° | 1025.8 | 1030.7 | 1036.6 | 856.1 | 821.6 | 932.1 | 1081.0 | 1039.6 | 1249.7 | 1301.9 |
| 47.5° | 626.3 | 634.2 | 768.3 | 725.9 | 729.9 | 719.0 | 881.8 | 874.9 | 1024.8 | 1098.7 |
| 50° | 423.1 | 426.1 | 438.9 | 460.6 | 626.3 | 565.2 | 624.3 | 724.0 | 778.2 | 890.6 |
| 52.5° | 355.1 | 360.0 | 328.4 | 298.9 | 411.3 | 441.9 | 435.9 | 537.5 | 559.2 | 698.3 |
| 55° | 249.5 | 265.3 | 250.5 | 247.6 | 233.8 | 343.2 | 330.4 | 413.3 | 427.1 | 530.6 |
| 57.5° | 25.6 | 29.6 | 51.3 | 184.4 | 152.9 | 194.3 | 235.7 | 302.8 | 316.6 | 391.6 |
| 60° | 2.0 | 2.0 | 4.9 | 25.6 | 111.5 | 116.4 | 162.7 | 186.4 | 213.0 | 273.2 |
| 62.5° | 0.0 | 1.0 | 2.0 | 3.9 | 17.8 | 62.1 | 81.9 | 97.6 | 128.2 | 176.5 |
| 65° | 0.0 | 0.0 | 1.0 | 3.0 | 3.9 | 23.7 | 31.6 | 51.3 | 70.0 | 109.5 |
| 67.5° | 0.0 | 0.0 | 1.0 | 2.0 | 3.0 | 5.9 | 10.8 | 18.7 | 37.5 | 62.1 |
| 70° | 0.0 | 0.0 | 1.0 | 2.0 | 3.0 | 4.9 | 7.9 | 11.8 | 16.8 | 33.5 |
| 72.5° | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 4.9 | 5.9 | 7.9 | 11.8 | 16.8 |
| 75° | 0.0 | 0.0 | 1.0 | 1.0 | 3.0 | 5.9 | 4.9 | 5.9 | 7.9 | 10.8 |
| 77.5° | 0.0 | 0.0 | 1.0 | 2.0 | 3.0 | 5.9 | 4.9 | 5.9 | 5.9 | 6.9 |
| 80° | 0.0 | 0.0 | 1.0 | 2.0 | 3.9 | 6.9 | 5.9 | 5.9 | 4.9 | 4.9 |
| 82.5° | 0.0 | 0.0 | 1.0 | 3.0 | 3.9 | 8.9 | 8.9 | 7.9 | 3.9 | 3.0 |
| 85° | 0.0 | 0.0 | 2.0 | 3.9 | 5.9 | 9.9 | 9.9 | 7.9 | 3.0 | 2.0 |
| 87.5° | 0.0 | 0.0 | 2.0 | 3.0 | 4.9 | 6.9 | 9.9 | 7.9 | 3.0 | 1.0 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5330.0 | 0° | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 | 5330.0 |
| 5313.2 | 2.5° | 5339.9 | 5334.0 | 5353.7 | 5361.6 | 5372.4 | 5331.0 | 5305.4 | 5306.3 | 5259.0 |
| 5253.1 | 5° | 5284.6 | 5285.6 | 5311.3 | 5309.3 | 5320.2 | 5297.5 | 5287.6 | 5270.8 | 5229.4 |
| 5177.1 | 7.5° | 5214.6 | 5205.7 | 5230.4 | 5249.1 | 5221.5 | 5237.3 | 5214.6 | 5222.5 | 5197.8 |
| 5110.1 | 10° | 5160.4 | 5139.7 | 5162.3 | 5175.2 | 5176.2 | 5160.4 | 5138.7 | 5118.0 | 5109.1 |
| 5005.5 | 12.5° | 5040.0 | 5013.4 | 5051.9 | 5069.6 | 5066.7 | 5036.1 | 5011.4 | 5016.4 | 4987.8 |
| 4822.1 | 15° | 4874.3 | 4875.3 | 4902.9 | 4919.7 | 4903.9 | 4897.0 | 4899.0 | 4887.2 | 4862.5 |
| 4568.6 | 17.5° | 4620.9 | 4635.7 | 4708.6 | 4749.1 | 4758.0 | 4744.1 | 4737.2 | 4723.4 | 4698.8 |
| 4164.2 | 20° | 4198.7 | 4287.5 | 4417.7 | 4542.9 | 4567.6 | 4563.7 | 4539.0 | 4533.1 | 4519.3 |
| 3763.8 | 22.5° | 3827.9 | 3893.9 | 4044.9 | 4240.1 | 4340.7 | 4350.6 | 4321.0 | 4312.1 | 4297.3 |
| 3405.7 | 25° | 3444.2 | 3515.2 | 3651.3 | 3863.4 | 4071.5 | 4113.9 | 4109.0 | 4082.3 | 4066.6 |
| 3088.1 | 27.5° | 3120.7 | 3191.7 | 3315.0 | 3506.3 | 3729.2 | 3865.3 | 3878.2 | 3835.8 | 3834.8 |
| 2805.1 | 30° | 2828.7 | 2926.4 | 3020.1 | 3175.9 | 3391.9 | 3596.1 | 3617.8 | 3588.2 | 3591.2 |
| 2545.7 | 32.5° | 2599.9 | 2680.8 | 2760.7 | 2865.2 | 3044.7 | 3282.4 | 3367.3 | 3339.6 | 3328.8 |
| 2329.7 | 35° | 2366.2 | 2421.4 | 2503.3 | 2598.9 | 2721.2 | 2957.0 | 3103.9 | 3083.2 | 3072.4 |
| 2037.7 | 37.5° | 2099.9 | 2194.5 | 2253.7 | 2361.2 | 2456.9 | 2644.3 | 2851.4 | 2848.5 | 2825.8 |
| 1789.2 | 40° | 1826.6 | 1926.3 | 2016.0 | 2124.5 | 2198.5 | 2347.4 | 2577.2 | 2576.2 | 2579.2 |
| 1531.7 | 42.5° | 1579.1 | 1670.8 | 1779.3 | 1897.7 | 1968.7 | 2077.2 | 2323.7 | 2337.6 | 2354.3 |
| 1319.7 | 45° | 1355.2 | 1438.0 | 1538.6 | 1682.6 | 1768.5 | 1830.6 | 2049.6 | 2112.7 | 2111.7 |
| 1130.3 | 47.5° | 1154.0 | 1231.9 | 1316.7 | 1456.8 | 1566.3 | 1622.5 | 1804.0 | 1893.7 | 1887.8 |
| 927.1 | 50° | 968.6 | 1037.6 | 1126.4 | 1228.0 | 1374.9 | 1424.2 | 1559.4 | 1677.7 | 1668.8 |
| 738.7 | 52.5° | 779.2 | 874.9 | 949.8 | 1042.5 | 1197.4 | 1245.7 | 1350.3 | 1465.7 | 1458.8 |
| 554.3 | 55° | 607.6 | 700.3 | 791.0 | 870.9 | 1001.1 | 1073.1 | 1148.1 | 1266.4 | 1264.4 |
| 434.0 | 57.5° | 459.6 | 561.2 | 647.0 | 723.0 | 826.5 | 915.3 | 975.5 | 1083.0 | 1096.8 |
| 296.9 | 60° | 340.3 | 418.2 | 510.9 | 595.7 | 677.6 | 769.3 | 809.8 | 915.3 | 921.2 |
| 203.2 | 62.5° | 231.8 | 317.6 | 408.3 | 485.3 | 546.4 | 641.1 | 677.6 | 764.4 | 775.2 |
| 130.2 | 65° | 160.8 | 216.0 | 319.6 | 374.8 | 449.8 | 530.6 | 567.1 | 636.2 | 657.9 |
| 75.0 | 67.5° | 106.5 | 153.9 | 249.5 | 299.8 | 373.8 | 429.0 | 475.4 | 531.6 | 555.3 |
| 47.3 | 70° | 58.2 | 113.4 | 178.5 | 236.7 | 300.8 | 354.1 | 399.5 | 444.8 | 465.5 |
| 21.7 | 72.5° | 39.5 | 75.9 | 124.3 | 187.4 | 242.6 | 294.9 | 335.3 | 368.9 | 369.9 |
| 12.8 | 75° | 19.7 | 51.3 | 94.7 | 145.0 | 189.4 | 240.7 | 277.2 | 296.9 | 273.2 |
| 7.9 | 77.5° | 11.8 | 37.5 | 76.9 | 116.4 | 153.9 | 194.3 | 215.0 | 225.9 | 187.4 |
| 5.9 | 80° | 6.9 | 26.6 | 60.2 | 92.7 | 106.5 | 143.0 | 162.7 | 165.7 | 125.3 |
| 3.9 | 82.5° | 4.9 | 19.7 | 47.3 | 68.1 | 65.1 | 100.6 | 122.3 | 118.4 | 79.9 |
| 3.0 | 85° | 3.0 | 13.8 | 29.6 | 42.4 | 39.5 | 66.1 | 71.0 | 73.0 | 46.4 |
| 2.0 | 87.5° | 2.0 | 7.9 | 15.8 | 22.7 | 18.7 | 28.6 | 28.6 | 34.5 | 22.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 5330.0 |
| 5197.8 |
| 5219.5 |
| 5156.4 |
| 5069.6 |
| 4963.1 |
| 4837.8 |
| 4687.9 |
| 4487.7 |
| 4293.4 |
| 4049.8 |
| 3832.8 |
| 3576.4 |
| 3329.8 |
| 3057.6 |
| 2844.5 |
| 2579.2 |
| 2345.4 |
| 2113.7 |
| 1889.8 |
| 1676.7 |
| 1473.5 |
| 1269.4 |
| 1090.9 |
| 930.1 |
| 777.2 |
| 652.9 |
| 552.3 |
| 457.6 |
| 361.0 |
| 255.5 |
| 180.5 |
| 117.4 |
| 74.0 |
| 42.4 |
| 19.7 |
| 0.0 |

(END OF REPORT)