

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: P638309

Luminaire Tested: **IFLD-S-SA3B-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638309
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9237.9 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

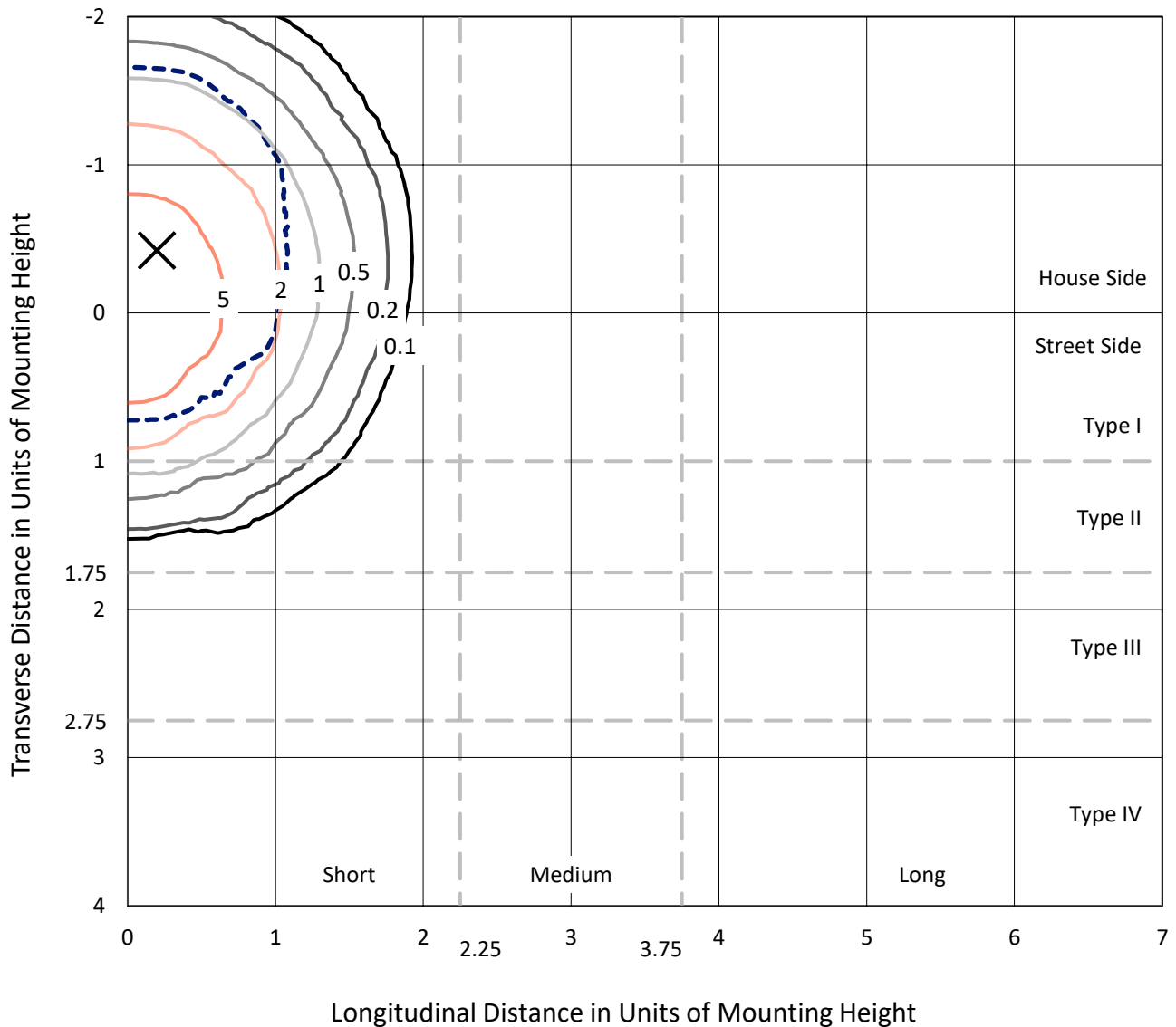
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

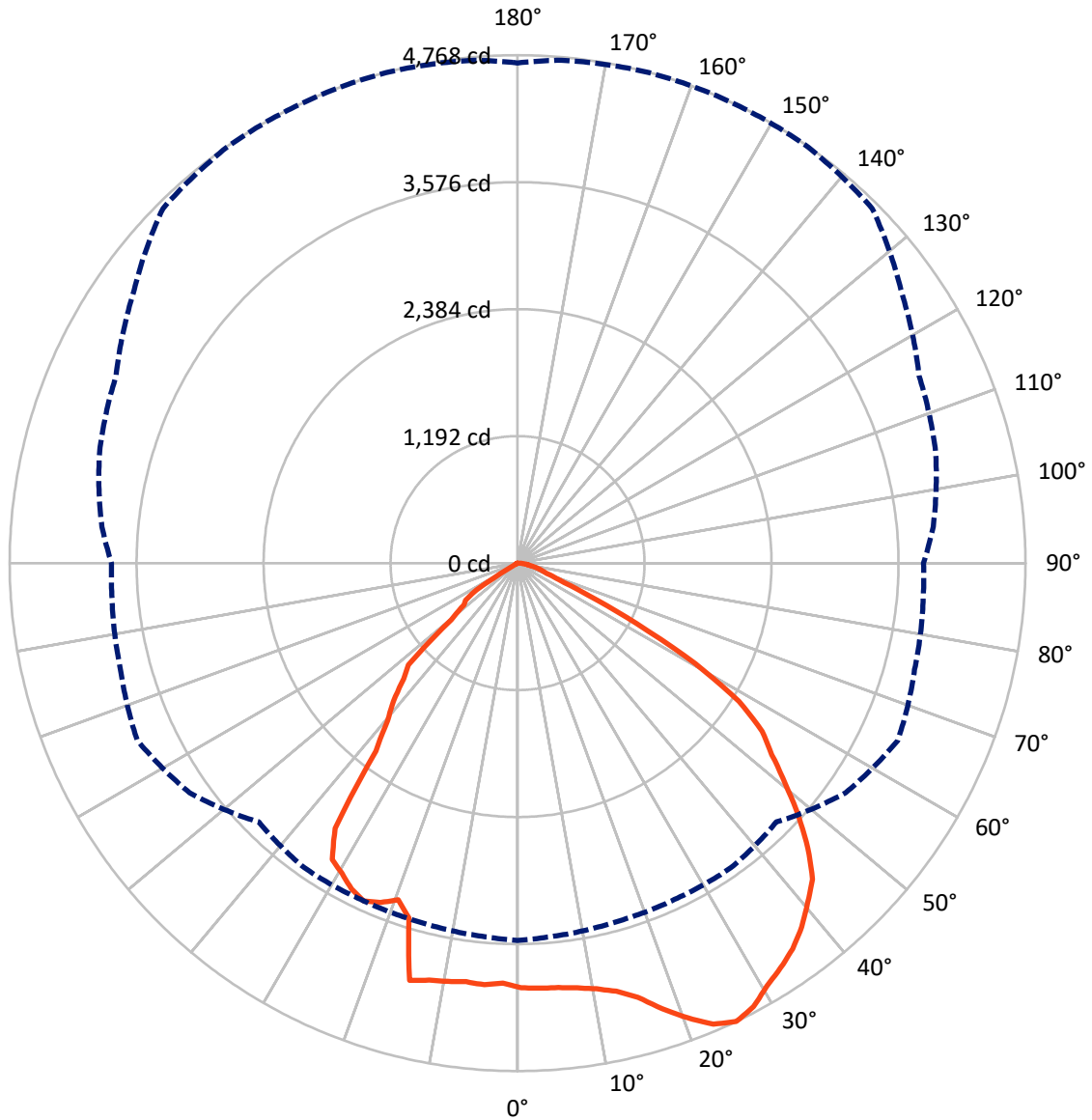
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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 | 5719.2 | 0.0 | 5719.2 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 3518.7 | 0.0 | 3518.7 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 9237.9 | 0.0 | 9237.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 382.4 | 4.1 |
| 10°-20° | 1167.7 | 12.6 |
| 20°-30° | 1846.0 | 20.0 |
| 30°-40° | 2085.2 | 22.6 |
| 40°-50° | 1952.8 | 21.1 |
| 50°-60° | 1346.3 | 14.6 |
| 60°-70° | 361.7 | 3.9 |
| 70°-80° | 75.4 | 0.8 |
| 80°-90° | 20.4 | 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° | 9237.9 | 100.0 |
| 0°-180° | 9237.9 | 100.0 |



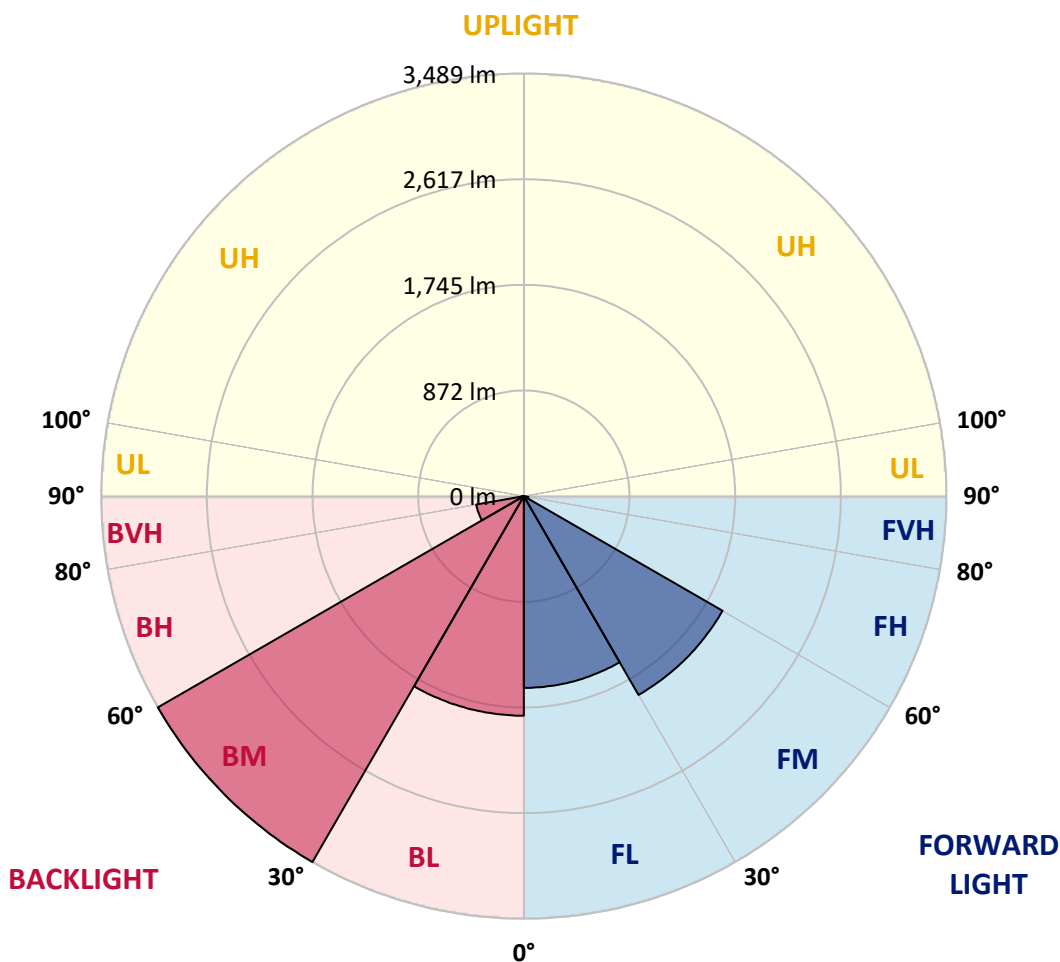
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1583.1 | 17.1 | | | |
| FM (30°-60°) | 1894.9 | 20.5 | | | |
| FH (60°-80°) | 38.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1813.0 | 19.6 | B3/2500 | | |
| BM (30°-60°) | 3489.5 | 37.8 | B3/5000 | | |
| BH (60°-80°) | 399.1 | 4.3 | 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: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 |
| 2.5° | 4003.7 | 3977.9 | 3953.4 | 3945.3 | 3979.2 | 4015.9 | 3992.8 | 3994.1 | 3986.0 | 4000.9 |
| 5° | 4033.5 | 3998.2 | 3981.9 | 3969.7 | 3975.1 | 4013.2 | 3980.6 | 3992.8 | 3979.2 | 3996.9 |
| 7.5° | 4022.7 | 3998.2 | 3981.9 | 3958.9 | 3976.5 | 4021.3 | 3990.1 | 3991.4 | 3984.6 | 4000.9 |
| 10° | 4015.9 | 3998.2 | 3977.9 | 3980.6 | 4000.9 | 4039.0 | 4014.5 | 4028.1 | 4018.6 | 4028.1 |
| 12.5° | 4032.2 | 4013.2 | 4002.3 | 4002.3 | 4019.9 | 4063.4 | 4051.2 | 4063.4 | 4059.3 | 4067.5 |
| 15° | 3878.8 | 3896.4 | 3999.6 | 4045.7 | 4081.0 | 4124.5 | 4119.1 | 4131.3 | 4134.0 | 4146.2 |
| 17.5° | 3271.9 | 3254.2 | 3246.1 | 3483.7 | 4115.0 | 4249.4 | 4245.3 | 4244.0 | 4230.4 | 4220.9 |
| 20° | 3352.0 | 3345.2 | 3335.7 | 3353.3 | 3423.9 | 4314.5 | 4341.7 | 4174.7 | 4125.8 | 4121.8 |
| 22.5° | 3479.6 | 3468.7 | 3433.4 | 3434.8 | 3456.5 | 3751.1 | 4207.3 | 4055.2 | 4039.0 | 4029.4 |
| 25° | 3542.1 | 3520.3 | 3491.8 | 3483.7 | 3490.5 | 3436.2 | 3757.9 | 3938.5 | 3858.4 | 3821.7 |
| 27.5° | 3432.1 | 3433.4 | 3410.4 | 3432.1 | 3406.3 | 3161.9 | 3024.8 | 3710.4 | 3707.7 | 3691.4 |
| 30° | 3349.3 | 3345.2 | 3318.0 | 3345.2 | 3167.4 | 2894.5 | 2836.1 | 3460.6 | 3432.1 | 3410.4 |
| 32.5° | 3095.4 | 3098.1 | 3176.9 | 3282.8 | 2990.9 | 2775.0 | 2598.5 | 3091.3 | 3361.5 | 3349.3 |
| 35° | 2214.3 | 2219.7 | 2499.4 | 3022.1 | 2723.4 | 2537.4 | 2523.8 | 2671.8 | 3250.2 | 3255.6 |
| 37.5° | 2131.5 | 2131.5 | 2124.7 | 2210.2 | 2513.0 | 2441.0 | 2468.2 | 2453.2 | 2977.3 | 2990.9 |
| 40° | 2071.7 | 2059.5 | 2050.0 | 1915.6 | 1747.3 | 2373.1 | 2392.1 | 2324.3 | 2814.4 | 2817.1 |
| 42.5° | 1999.8 | 1986.2 | 1988.9 | 1740.5 | 1564.0 | 2204.8 | 2151.8 | 2060.9 | 2542.8 | 2545.6 |
| 45° | 1868.1 | 1891.2 | 1907.5 | 1523.3 | 1509.7 | 1574.9 | 1984.9 | 1927.8 | 2359.6 | 2409.8 |
| 47.5° | 950.3 | 970.7 | 1489.3 | 1401.1 | 1432.3 | 1399.7 | 1676.7 | 1678.0 | 1963.1 | 2130.1 |
| 50° | 862.1 | 856.7 | 858.0 | 817.3 | 1322.3 | 1132.3 | 1212.4 | 1538.2 | 1572.1 | 1811.1 |
| 52.5° | 803.7 | 802.4 | 719.5 | 639.4 | 830.9 | 996.5 | 879.7 | 1113.3 | 1168.9 | 1534.1 |
| 55° | 594.6 | 638.1 | 567.5 | 601.4 | 520.0 | 798.3 | 794.2 | 1004.6 | 1023.7 | 1230.0 |
| 57.5° | 5.4 | 6.8 | 16.3 | 457.5 | 359.8 | 399.1 | 548.5 | 685.6 | 719.5 | 958.5 |
| 60° | 1.4 | 2.7 | 6.8 | 13.6 | 233.5 | 245.7 | 366.6 | 396.4 | 446.7 | 571.6 |
| 62.5° | 0.0 | 0.0 | 2.7 | 6.8 | 12.2 | 100.5 | 116.8 | 127.6 | 196.9 | 291.9 |
| 65° | 0.0 | 0.0 | 1.4 | 4.1 | 6.8 | 16.3 | 28.5 | 59.7 | 85.5 | 105.9 |
| 67.5° | 0.0 | 0.0 | 1.4 | 2.7 | 5.4 | 8.1 | 16.3 | 23.1 | 36.7 | 62.5 |
| 70° | 0.0 | 0.0 | 1.4 | 2.7 | 4.1 | 6.8 | 10.9 | 16.3 | 21.7 | 31.2 |
| 72.5° | 0.0 | 0.0 | 1.4 | 2.7 | 2.7 | 8.1 | 8.1 | 12.2 | 16.3 | 20.4 |
| 75° | 0.0 | 0.0 | 1.4 | 1.4 | 2.7 | 5.4 | 8.1 | 9.5 | 10.9 | 16.3 |
| 77.5° | 0.0 | 0.0 | 1.4 | 2.7 | 4.1 | 5.4 | 6.8 | 10.9 | 9.5 | 9.5 |
| 80° | 0.0 | 0.0 | 1.4 | 4.1 | 4.1 | 6.8 | 8.1 | 10.9 | 6.8 | 6.8 |
| 82.5° | 0.0 | 0.0 | 1.4 | 5.4 | 4.1 | 13.6 | 13.6 | 14.9 | 5.4 | 5.4 |
| 85° | 0.0 | 0.0 | 4.1 | 2.7 | 8.1 | 13.6 | 12.2 | 8.1 | 6.8 | 4.1 |
| 87.5° | 0.0 | 0.0 | 1.4 | 1.4 | 2.7 | 4.1 | 9.5 | 8.1 | 2.7 | 2.7 |
| 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-722-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3986.0 | 0° | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 | 3986.0 |
| 3961.6 | 2.5° | 4015.9 | 3998.2 | 4034.9 | 4030.8 | 4013.2 | 4005.0 | 3995.5 | 3987.4 | 3927.6 |
| 3964.3 | 5° | 4017.2 | 3990.1 | 4034.9 | 4026.7 | 4024.0 | 4010.4 | 4002.3 | 4014.5 | 3960.2 |
| 3975.1 | 7.5° | 4017.2 | 3990.1 | 4039.0 | 4041.7 | 4037.6 | 4026.7 | 4025.4 | 4033.5 | 3988.7 |
| 3994.1 | 10° | 4044.4 | 4033.5 | 4074.2 | 4078.3 | 4072.9 | 4070.2 | 4063.4 | 4058.0 | 4010.4 |
| 4059.3 | 12.5° | 4101.4 | 4079.7 | 4125.8 | 4138.1 | 4134.0 | 4140.8 | 4124.5 | 4132.6 | 4083.8 |
| 4125.8 | 15° | 4170.6 | 4172.0 | 4207.3 | 4234.4 | 4231.7 | 4253.5 | 4229.0 | 4250.7 | 4215.4 |
| 4201.9 | 17.5° | 4276.5 | 4291.5 | 4341.7 | 4382.4 | 4397.4 | 4413.7 | 4397.4 | 4404.2 | 4353.9 |
| 4117.7 | 20° | 4165.2 | 4220.9 | 4462.5 | 4537.2 | 4568.4 | 4583.4 | 4556.2 | 4564.4 | 4514.1 |
| 4014.5 | 22.5° | 4064.7 | 4136.7 | 4351.2 | 4584.7 | 4681.1 | 4711.0 | 4701.5 | 4700.1 | 4681.1 |
| 3810.9 | 25° | 3916.8 | 4062.0 | 4158.4 | 4405.5 | 4708.3 | 4762.6 | 4768.0 | 4766.6 | 4738.1 |
| 3686.0 | 27.5° | 3734.8 | 3767.4 | 4017.2 | 4167.9 | 4518.2 | 4724.6 | 4716.4 | 4677.0 | 4639.0 |
| 3426.7 | 30° | 3502.7 | 3650.7 | 3763.4 | 4003.7 | 4272.5 | 4607.8 | 4607.8 | 4577.9 | 4538.6 |
| 3334.3 | 32.5° | 3384.6 | 3576.0 | 3680.5 | 3767.4 | 3996.9 | 4477.5 | 4531.8 | 4500.5 | 4469.3 |
| 3262.4 | 35° | 3322.1 | 3350.6 | 3595.0 | 3673.7 | 3867.9 | 4226.3 | 4446.2 | 4415.0 | 4391.9 |
| 3071.0 | 37.5° | 3185.0 | 3251.5 | 3365.6 | 3576.0 | 3635.7 | 4021.3 | 4332.2 | 4315.9 | 4288.8 |
| 2822.5 | 40° | 2879.5 | 3057.4 | 3232.5 | 3432.1 | 3494.5 | 3757.9 | 4193.7 | 4200.5 | 4163.9 |
| 2557.8 | 42.5° | 2699.0 | 2819.8 | 3094.0 | 3228.4 | 3396.8 | 3588.2 | 4059.3 | 4070.2 | 4044.4 |
| 2423.4 | 45° | 2487.2 | 2621.6 | 2814.4 | 3058.7 | 3288.2 | 3354.7 | 3821.7 | 3935.8 | 3914.0 |
| 2155.9 | 47.5° | 2293.0 | 2401.6 | 2637.9 | 2885.0 | 3138.8 | 3129.3 | 3548.8 | 3763.4 | 3733.5 |
| 1950.9 | 50° | 2017.4 | 2207.5 | 2318.8 | 2545.6 | 2924.3 | 2950.1 | 3258.3 | 3561.1 | 3536.6 |
| 1657.7 | 52.5° | 1701.1 | 1940.1 | 2153.2 | 2360.9 | 2707.1 | 2768.2 | 2988.1 | 3354.7 | 3338.4 |
| 1266.7 | 55° | 1486.6 | 1660.4 | 1900.7 | 2067.7 | 2443.7 | 2606.7 | 2785.9 | 3157.8 | 3149.7 |
| 1041.3 | 57.5° | 1057.6 | 1392.9 | 1591.1 | 1824.7 | 2022.9 | 2317.5 | 2450.5 | 2757.3 | 2681.3 |
| 577.0 | 60° | 716.8 | 874.3 | 1116.0 | 1367.1 | 1500.2 | 1794.8 | 1918.3 | 2164.1 | 2143.7 |
| 344.8 | 62.5° | 378.8 | 524.0 | 696.5 | 822.7 | 919.1 | 1205.6 | 1257.2 | 1521.9 | 1515.1 |
| 138.5 | 65° | 167.0 | 221.3 | 377.4 | 442.6 | 541.7 | 674.7 | 719.5 | 814.6 | 791.5 |
| 67.9 | 67.5° | 86.9 | 131.7 | 213.1 | 262.0 | 329.9 | 380.1 | 416.8 | 446.7 | 465.7 |
| 44.8 | 70° | 52.9 | 96.4 | 131.7 | 181.9 | 226.7 | 267.5 | 296.0 | 336.7 | 361.1 |
| 23.1 | 72.5° | 39.4 | 61.1 | 91.0 | 139.8 | 164.3 | 211.8 | 240.3 | 270.2 | 291.9 |
| 19.0 | 75° | 21.7 | 40.7 | 73.3 | 110.0 | 131.7 | 172.4 | 198.2 | 218.6 | 225.4 |
| 10.9 | 77.5° | 13.6 | 31.2 | 61.1 | 85.5 | 103.2 | 139.8 | 133.0 | 152.1 | 168.3 |
| 8.1 | 80° | 9.5 | 23.1 | 47.5 | 70.6 | 72.0 | 89.6 | 105.9 | 122.2 | 133.0 |
| 5.4 | 82.5° | 6.8 | 19.0 | 35.3 | 54.3 | 47.5 | 69.2 | 82.8 | 95.0 | 69.2 |
| 4.1 | 85° | 5.4 | 13.6 | 17.6 | 32.6 | 27.2 | 48.9 | 42.1 | 40.7 | 27.2 |
| 2.7 | 87.5° | 4.1 | 6.8 | 12.2 | 14.9 | 10.9 | 10.9 | 13.6 | 16.3 | 13.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 3986.0 |
| 3886.9 |
| 3914.0 |
| 3937.1 |
| 3971.1 |
| 4040.3 |
| 4157.1 |
| 4310.5 |
| 4478.8 |
| 4620.0 |
| 4694.7 |
| 4609.2 |
| 4523.6 |
| 4443.5 |
| 4359.4 |
| 4261.6 |
| 4155.7 |
| 4041.7 |
| 3916.8 |
| 3755.2 |
| 3540.7 |
| 3349.3 |
| 3159.2 |
| 2673.2 |
| 2145.1 |
| 1516.5 |
| 782.0 |
| 465.7 |
| 362.5 |
| 296.0 |
| 221.3 |
| 171.1 |
| 134.4 |
| 50.2 |
| 27.2 |
| 13.6 |
| 0.0 |

(END OF REPORT)