

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: P636986

Luminaire Tested: **IFLD-M-SA4C-950-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636986
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-950-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15142.2 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

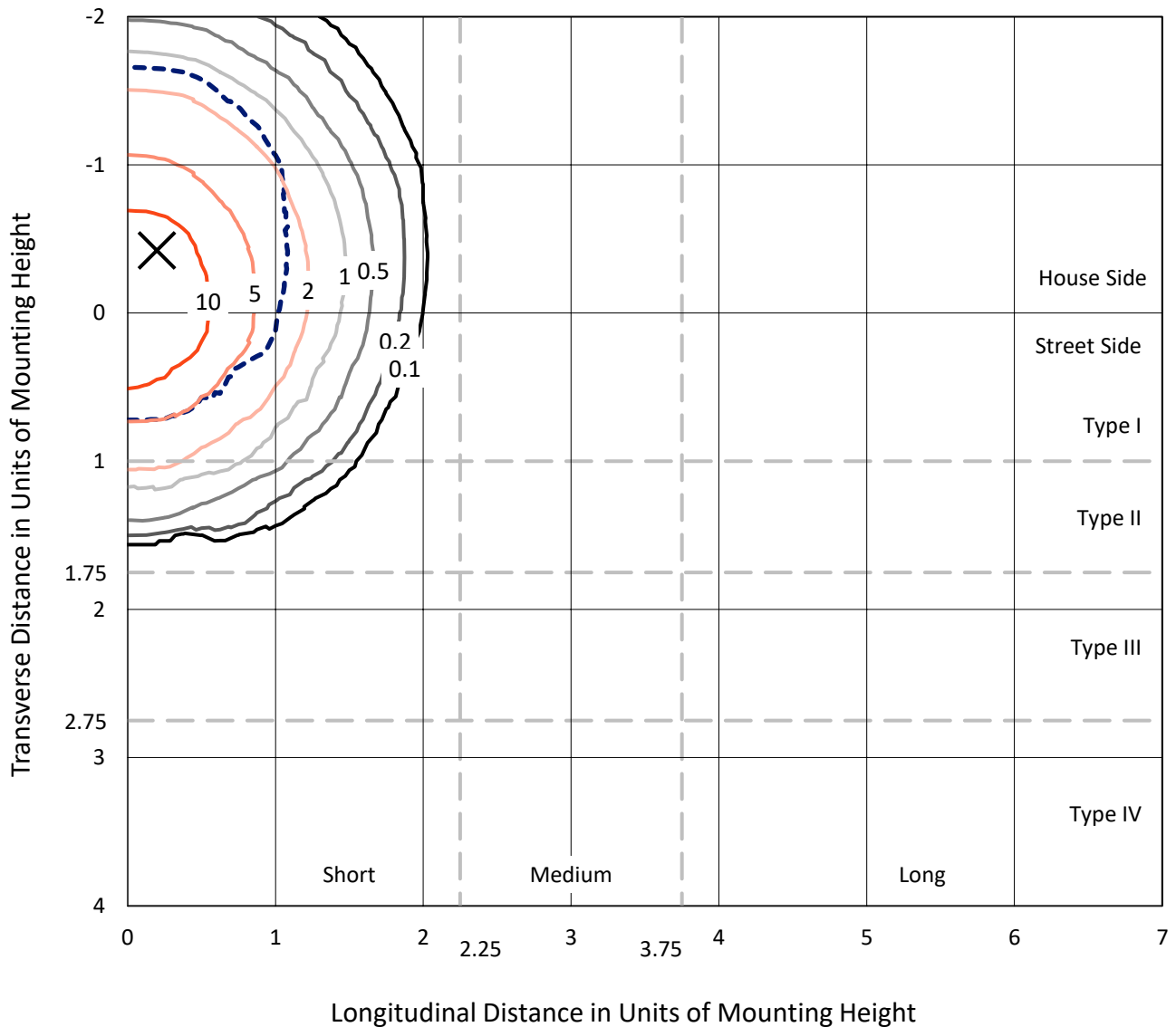
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

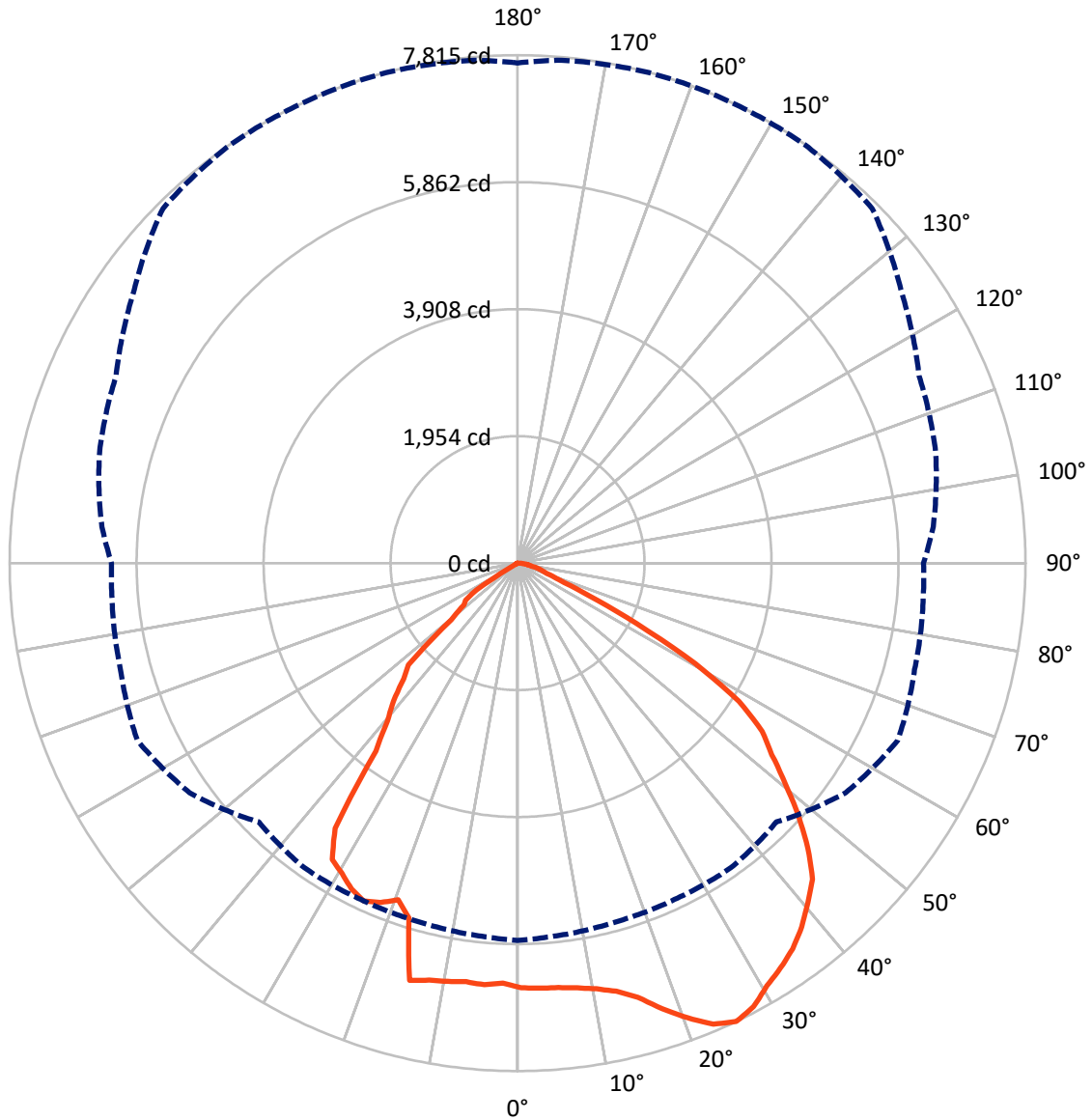
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.3 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 | 9374.6 | 0.0 | 9374.6 |
| | % Fixture | 61.9 | 0.0 | 61.9 |
| Street Side | Lumens | 5767.6 | 0.0 | 5767.6 |
| | % Fixture | 38.1 | 0.0 | 38.1 |
| Total | Lumens | 15142.2 | 0.0 | 15142.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 626.8 | 4.1 |
| 10°-20° | 1913.9 | 12.6 |
| 20°-30° | 3025.8 | 20.0 |
| 30°-40° | 3417.9 | 22.6 |
| 40°-50° | 3201.0 | 21.1 |
| 50°-60° | 2206.8 | 14.6 |
| 60°-70° | 592.9 | 3.9 |
| 70°-80° | 123.6 | 0.8 |
| 80°-90° | 33.4 | 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° | 15142.2 | 100.0 |
| 0°-180° | 15142.2 | 100.0 |



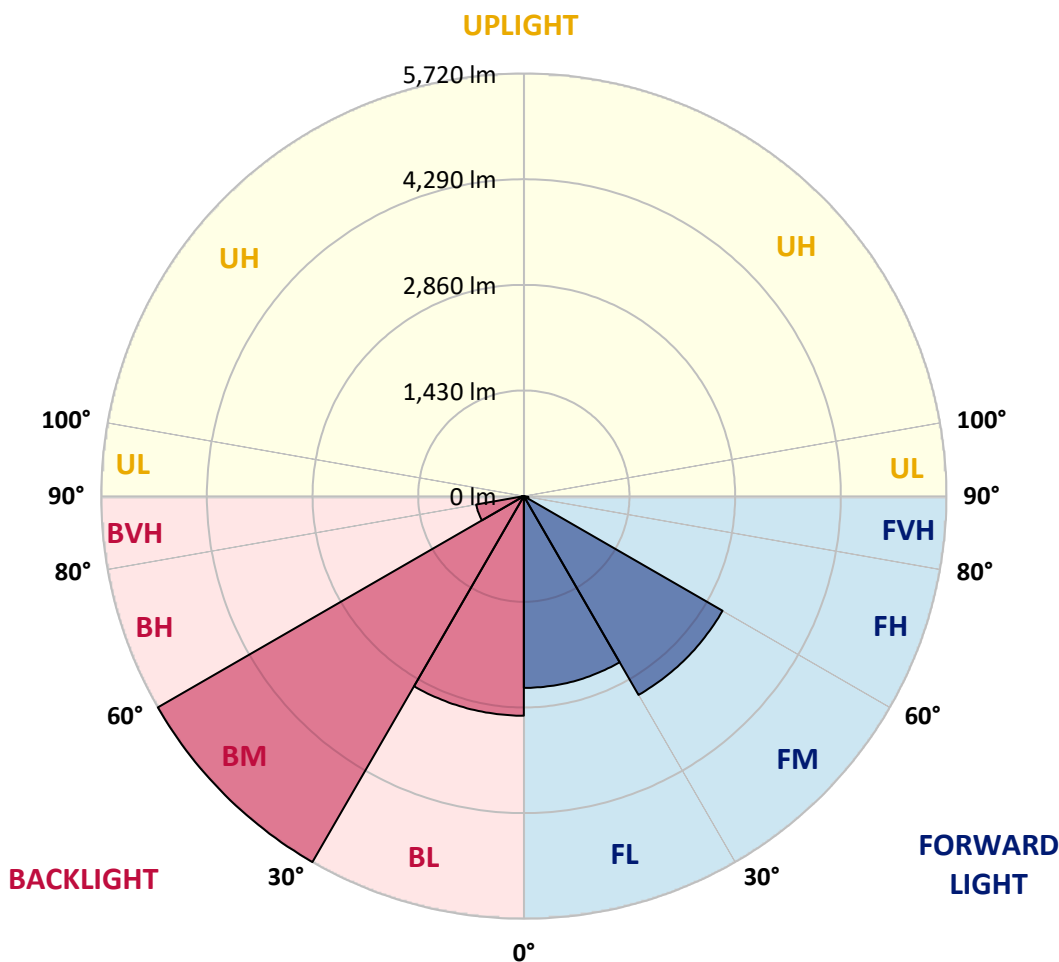
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2594.9 | 17.1 | | | |
| FM (30°-60°) | 3106.0 | 20.5 | | | |
| FH (60°-80°) | 62.2 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 4.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2971.7 | 19.6 | B4/5000 | | |
| BM (30°-60°) | 5719.7 | 37.8 | B4/8500 | | |
| BH (60°-80°) | 654.2 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.9 | 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° | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 |
| 2.5° | 6562.5 | 6520.2 | 6480.2 | 6466.8 | 6522.5 | 6582.6 | 6544.7 | 6547.0 | 6533.6 | 6558.1 |
| 5° | 6611.5 | 6553.6 | 6526.9 | 6506.9 | 6515.8 | 6578.1 | 6524.7 | 6544.7 | 6522.5 | 6551.4 |
| 7.5° | 6593.7 | 6553.6 | 6526.9 | 6489.1 | 6518.0 | 6591.5 | 6540.3 | 6542.5 | 6531.4 | 6558.1 |
| 10° | 6582.6 | 6553.6 | 6520.2 | 6524.7 | 6558.1 | 6620.4 | 6580.3 | 6602.6 | 6587.0 | 6602.6 |
| 12.5° | 6609.3 | 6578.1 | 6560.3 | 6560.3 | 6589.2 | 6660.4 | 6640.4 | 6660.4 | 6653.8 | 6667.1 |
| 15° | 6357.8 | 6386.7 | 6555.9 | 6631.5 | 6689.4 | 6760.6 | 6751.7 | 6771.7 | 6776.2 | 6796.2 |
| 17.5° | 5363.1 | 5334.1 | 5320.8 | 5710.2 | 6745.0 | 6965.3 | 6958.6 | 6956.4 | 6934.2 | 6918.6 |
| 20° | 5494.4 | 5483.2 | 5467.7 | 5496.6 | 5612.3 | 7072.1 | 7116.6 | 6842.9 | 6762.8 | 6756.1 |
| 22.5° | 5703.5 | 5685.7 | 5627.9 | 5630.1 | 5665.7 | 6148.6 | 6896.3 | 6647.1 | 6620.4 | 6604.8 |
| 25° | 5805.9 | 5770.3 | 5723.6 | 5710.2 | 5721.3 | 5632.3 | 6159.7 | 6455.7 | 6324.4 | 6264.3 |
| 27.5° | 5625.7 | 5627.9 | 5590.1 | 5625.7 | 5583.4 | 5182.8 | 4958.1 | 6081.9 | 6077.4 | 6050.7 |
| 30° | 5489.9 | 5483.2 | 5438.7 | 5483.2 | 5191.7 | 4744.4 | 4648.7 | 5672.4 | 5625.7 | 5590.1 |
| 32.5° | 5073.8 | 5078.2 | 5207.3 | 5380.9 | 4902.4 | 4548.6 | 4259.3 | 5067.1 | 5509.9 | 5489.9 |
| 35° | 3629.5 | 3638.4 | 4096.9 | 4953.6 | 4464.0 | 4159.2 | 4136.9 | 4379.5 | 5327.5 | 5336.4 |
| 37.5° | 3493.8 | 3493.8 | 3482.7 | 3622.9 | 4119.1 | 4001.2 | 4045.7 | 4021.2 | 4880.2 | 4902.4 |
| 40° | 3395.9 | 3375.8 | 3360.3 | 3140.0 | 2864.0 | 3889.9 | 3921.0 | 3809.8 | 4613.1 | 4617.6 |
| 42.5° | 3277.9 | 3255.7 | 3260.1 | 2852.9 | 2563.6 | 3614.0 | 3527.2 | 3378.1 | 4168.1 | 4172.5 |
| 45° | 3062.1 | 3099.9 | 3126.6 | 2496.8 | 2474.6 | 2581.4 | 3253.4 | 3160.0 | 3867.6 | 3950.0 |
| 47.5° | 1557.7 | 1591.1 | 2441.2 | 2296.6 | 2347.7 | 2294.3 | 2748.3 | 2750.5 | 3217.8 | 3491.6 |
| 50° | 1413.1 | 1404.2 | 1406.4 | 1339.7 | 2167.5 | 1855.9 | 1987.2 | 2521.3 | 2576.9 | 2968.6 |
| 52.5° | 1317.4 | 1315.2 | 1179.4 | 1048.1 | 1361.9 | 1633.4 | 1442.0 | 1824.8 | 1916.0 | 2514.6 |
| 55° | 974.7 | 1045.9 | 930.2 | 985.8 | 852.3 | 1308.5 | 1301.8 | 1646.8 | 1677.9 | 2016.2 |
| 57.5° | 8.9 | 11.1 | 26.7 | 749.9 | 589.7 | 654.2 | 899.0 | 1123.8 | 1179.4 | 1571.1 |
| 60° | 2.2 | 4.5 | 11.1 | 22.3 | 382.8 | 402.8 | 600.8 | 649.8 | 732.1 | 936.9 |
| 62.5° | 0.0 | 0.0 | 4.5 | 11.1 | 20.0 | 164.7 | 191.4 | 209.2 | 322.7 | 478.4 |
| 65° | 0.0 | 0.0 | 2.2 | 6.7 | 11.1 | 26.7 | 46.7 | 97.9 | 140.2 | 173.6 |
| 67.5° | 0.0 | 0.0 | 2.2 | 4.5 | 8.9 | 13.4 | 26.7 | 37.8 | 60.1 | 102.4 |
| 70° | 0.0 | 0.0 | 2.2 | 4.5 | 6.7 | 11.1 | 17.8 | 26.7 | 35.6 | 51.2 |
| 72.5° | 0.0 | 0.0 | 2.2 | 4.5 | 4.5 | 13.4 | 13.4 | 20.0 | 26.7 | 33.4 |
| 75° | 0.0 | 0.0 | 2.2 | 2.2 | 4.5 | 8.9 | 13.4 | 15.6 | 17.8 | 26.7 |
| 77.5° | 0.0 | 0.0 | 2.2 | 4.5 | 6.7 | 8.9 | 11.1 | 17.8 | 15.6 | 15.6 |
| 80° | 0.0 | 0.0 | 2.2 | 6.7 | 6.7 | 11.1 | 13.4 | 17.8 | 11.1 | 11.1 |
| 82.5° | 0.0 | 0.0 | 2.2 | 8.9 | 6.7 | 22.3 | 22.3 | 24.5 | 8.9 | 8.9 |
| 85° | 0.0 | 0.0 | 6.7 | 4.5 | 13.4 | 22.3 | 20.0 | 13.4 | 11.1 | 6.7 |
| 87.5° | 0.0 | 0.0 | 2.2 | 2.2 | 4.5 | 6.7 | 15.6 | 13.4 | 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 |



REPORT NUMBER: P636986

CATALOG NUMBER: IFLD-M-SA4C-950-U-LAM-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6533.6 | 0° | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 | 6533.6 |
| 6493.5 | 2.5° | 6582.6 | 6553.6 | 6613.7 | 6607.0 | 6578.1 | 6564.8 | 6549.2 | 6535.8 | 6437.9 |
| 6498.0 | 5° | 6584.8 | 6540.3 | 6613.7 | 6600.4 | 6595.9 | 6573.7 | 6560.3 | 6580.3 | 6491.3 |
| 6515.8 | 7.5° | 6584.8 | 6540.3 | 6620.4 | 6624.8 | 6618.2 | 6600.4 | 6598.1 | 6611.5 | 6538.0 |
| 6547.0 | 10° | 6629.3 | 6611.5 | 6678.2 | 6684.9 | 6676.0 | 6671.6 | 6660.4 | 6651.5 | 6573.7 |
| 6653.8 | 12.5° | 6722.8 | 6687.1 | 6762.8 | 6782.8 | 6776.2 | 6787.3 | 6760.6 | 6773.9 | 6693.8 |
| 6762.8 | 15° | 6836.2 | 6838.5 | 6896.3 | 6940.8 | 6936.4 | 6972.0 | 6931.9 | 6967.5 | 6909.7 |
| 6887.4 | 17.5° | 7009.8 | 7034.3 | 7116.6 | 7183.4 | 7207.9 | 7234.6 | 7207.9 | 7219.0 | 7136.7 |
| 6749.5 | 20° | 6827.3 | 6918.6 | 7314.7 | 7437.1 | 7488.3 | 7512.7 | 7468.2 | 7481.6 | 7399.3 |
| 6580.3 | 22.5° | 6662.7 | 6780.6 | 7132.2 | 7515.0 | 7673.0 | 7721.9 | 7706.4 | 7704.1 | 7673.0 |
| 6246.5 | 25° | 6420.1 | 6658.2 | 6816.2 | 7221.2 | 7717.5 | 7806.5 | 7815.4 | 7813.2 | 7766.4 |
| 6041.8 | 27.5° | 6121.9 | 6175.3 | 6584.8 | 6831.8 | 7405.9 | 7744.2 | 7730.8 | 7666.3 | 7604.0 |
| 5616.8 | 30° | 5741.4 | 5983.9 | 6168.6 | 6562.5 | 7003.1 | 7552.8 | 7552.8 | 7503.8 | 7439.3 |
| 5465.4 | 32.5° | 5547.8 | 5861.5 | 6032.9 | 6175.3 | 6551.4 | 7339.2 | 7428.2 | 7377.0 | 7325.8 |
| 5347.5 | 35° | 5445.4 | 5492.1 | 5892.7 | 6021.8 | 6340.0 | 6927.5 | 7288.0 | 7236.8 | 7199.0 |
| 5033.7 | 37.5° | 5220.6 | 5329.7 | 5516.6 | 5861.5 | 5959.5 | 6591.5 | 7101.1 | 7074.4 | 7029.8 |
| 4626.5 | 40° | 4719.9 | 5011.5 | 5298.5 | 5625.7 | 5728.0 | 6159.7 | 6874.1 | 6885.2 | 6825.1 |
| 4192.5 | 42.5° | 4424.0 | 4622.0 | 5071.5 | 5291.9 | 5567.8 | 5881.6 | 6653.8 | 6671.6 | 6629.3 |
| 3972.2 | 45° | 4076.8 | 4297.1 | 4613.1 | 5013.7 | 5389.8 | 5498.8 | 6264.3 | 6451.3 | 6415.7 |
| 3533.8 | 47.5° | 3758.6 | 3936.6 | 4323.8 | 4728.8 | 5145.0 | 5129.4 | 5817.0 | 6168.6 | 6119.7 |
| 3197.8 | 50° | 3306.9 | 3618.4 | 3800.9 | 4172.5 | 4793.4 | 4835.7 | 5340.8 | 5837.1 | 5797.0 |
| 2717.1 | 52.5° | 2788.4 | 3180.0 | 3529.4 | 3869.9 | 4437.3 | 4537.5 | 4898.0 | 5498.8 | 5472.1 |
| 2076.2 | 55° | 2436.7 | 2721.6 | 3115.5 | 3389.2 | 4005.6 | 4272.7 | 4566.4 | 5176.1 | 5162.8 |
| 1706.8 | 57.5° | 1733.5 | 2283.2 | 2608.1 | 2990.9 | 3315.8 | 3798.7 | 4016.7 | 4519.7 | 4395.0 |
| 945.8 | 60° | 1175.0 | 1433.1 | 1829.2 | 2240.9 | 2459.0 | 2941.9 | 3144.4 | 3547.2 | 3513.8 |
| 565.2 | 62.5° | 620.9 | 859.0 | 1141.6 | 1348.6 | 1506.6 | 1976.1 | 2060.7 | 2494.6 | 2483.5 |
| 227.0 | 65° | 273.7 | 362.7 | 618.6 | 725.5 | 887.9 | 1106.0 | 1179.4 | 1335.2 | 1297.4 |
| 111.3 | 67.5° | 142.4 | 215.9 | 349.4 | 429.5 | 540.8 | 623.1 | 683.2 | 732.1 | 763.3 |
| 73.4 | 70° | 86.8 | 158.0 | 215.9 | 298.2 | 371.6 | 438.4 | 485.1 | 551.9 | 591.9 |
| 37.8 | 72.5° | 64.5 | 100.1 | 149.1 | 229.2 | 269.3 | 347.2 | 393.9 | 442.8 | 478.4 |
| 31.2 | 75° | 35.6 | 66.8 | 120.2 | 180.3 | 215.9 | 282.6 | 324.9 | 358.3 | 369.4 |
| 17.8 | 77.5° | 22.3 | 51.2 | 100.1 | 140.2 | 169.1 | 229.2 | 218.1 | 249.2 | 275.9 |
| 13.4 | 80° | 15.6 | 37.8 | 77.9 | 115.7 | 117.9 | 146.9 | 173.6 | 200.3 | 218.1 |
| 8.9 | 82.5° | 11.1 | 31.2 | 57.9 | 89.0 | 77.9 | 113.5 | 135.7 | 155.8 | 113.5 |
| 6.7 | 85° | 8.9 | 22.3 | 28.9 | 53.4 | 44.5 | 80.1 | 69.0 | 66.8 | 44.5 |
| 4.5 | 87.5° | 6.7 | 11.1 | 20.0 | 24.5 | 17.8 | 17.8 | 22.3 | 26.7 | 22.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
6533.6
6371.1
6415.7
6453.5
6509.1
6622.6
6814.0
7065.5
7341.4
7572.8
7695.2
7555.0
7414.8
7283.5
7145.6
6985.3
6811.8
6624.8
6420.1
6155.3
5803.7
5489.9
5178.4
4381.7
3516.0
2485.7
1281.8
763.3
594.2
485.1
362.7
280.4
220.3
82.3
44.5
22.3
0.0

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