

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: P636801

Luminaire Tested: **IFLD-S-SA3B-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636801
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9457.6 lumens
Efficiency: N/A
Efficacy: 77.3 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

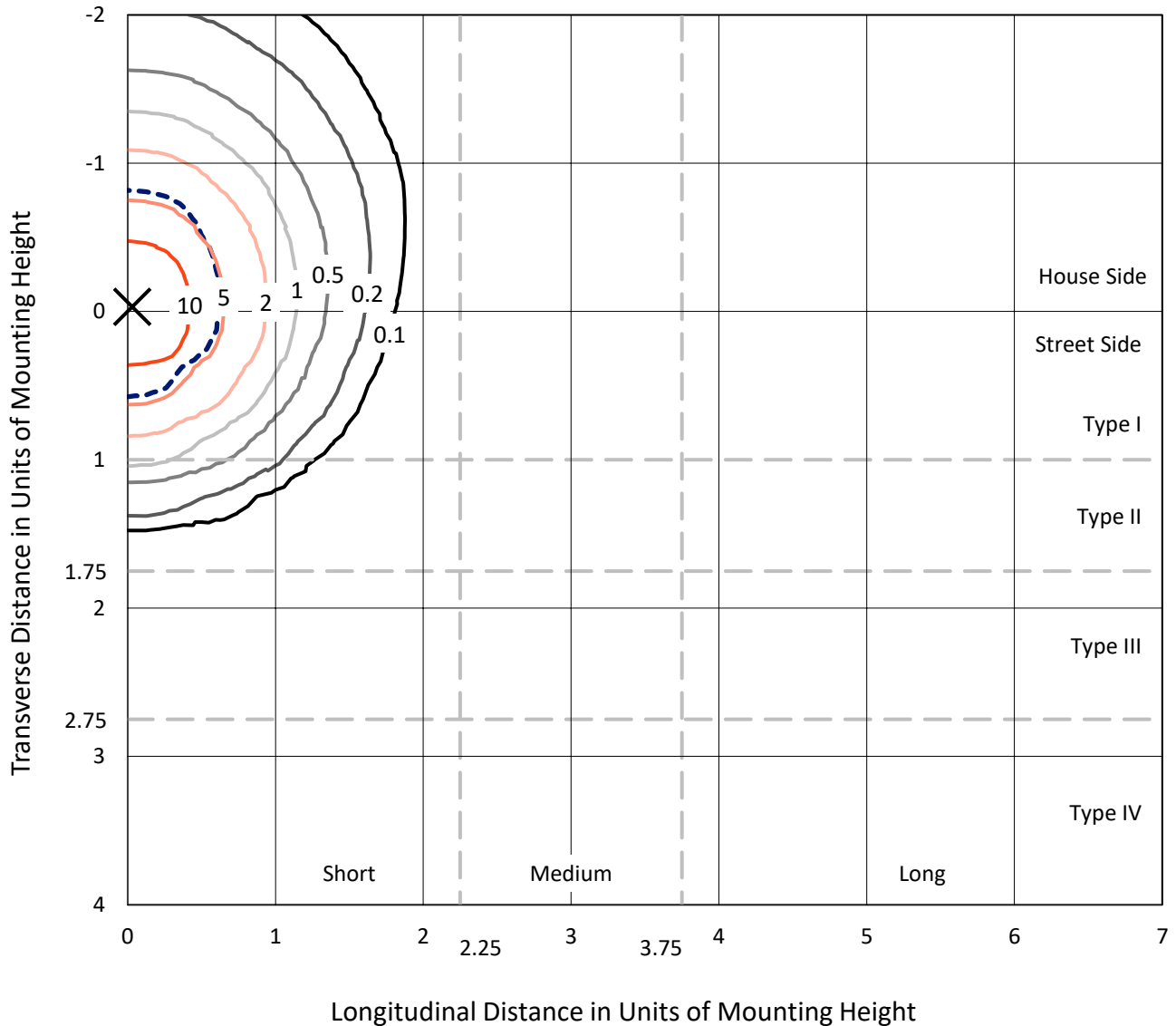




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Iso-Footcandle Lines of Horizontal Illumination

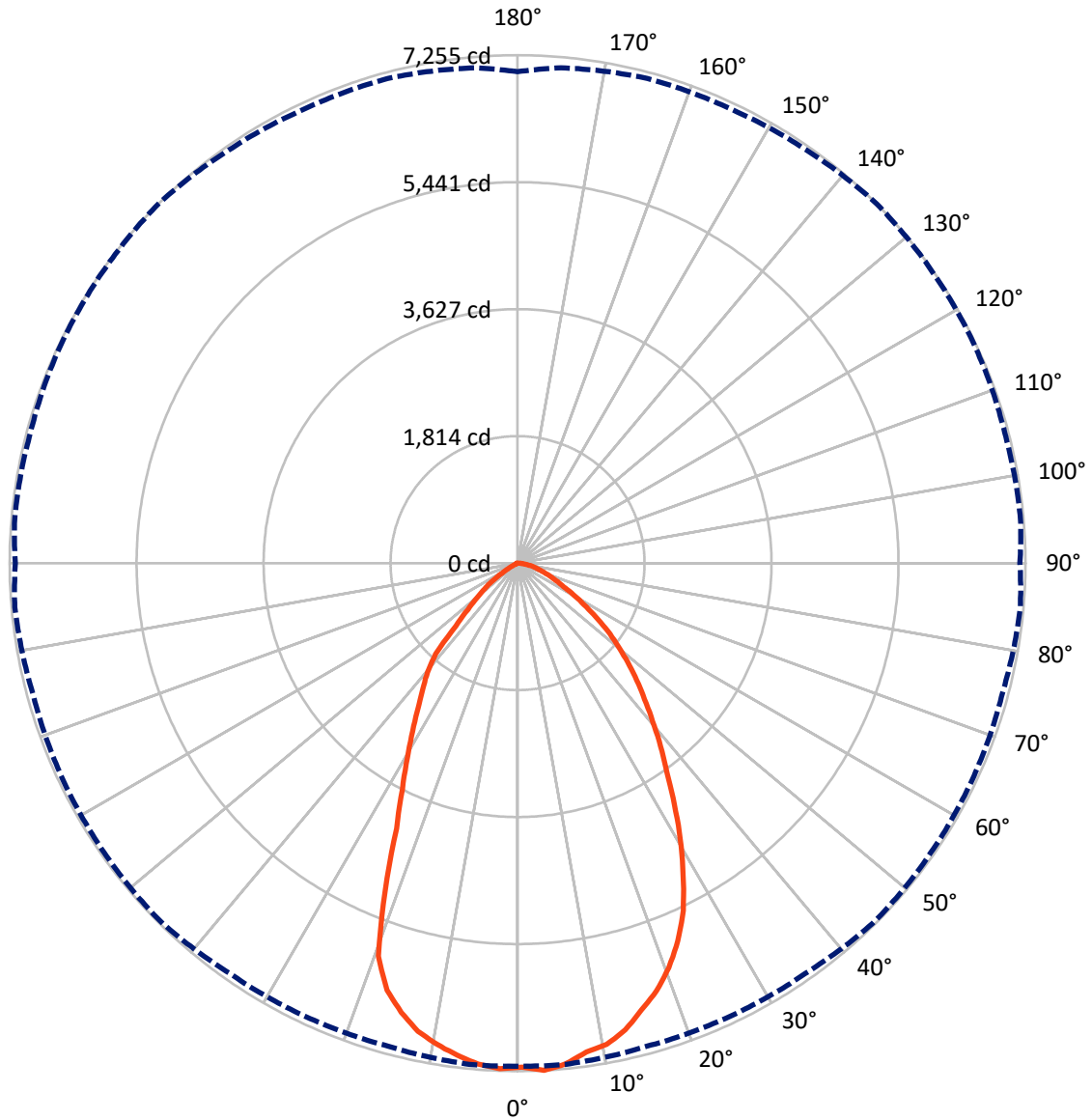
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18 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 | 5601.3 | 0.0 | 5601.3 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 3856.4 | 0.0 | 3856.4 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 9457.6 | 0.0 | 9457.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 675.0 | 7.1 |
| 10°-20° | 1810.0 | 19.1 |
| 20°-30° | 2207.4 | 23.3 |
| 30°-40° | 2015.3 | 21.3 |
| 40°-50° | 1456.4 | 15.4 |
| 50°-60° | 795.2 | 8.4 |
| 60°-70° | 328.8 | 3.5 |
| 70°-80° | 133.2 | 1.4 |
| 80°-90° | 36.2 | 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° | 9457.6 | 100.0 |
| 0°-180° | 9457.6 | 100.0 |



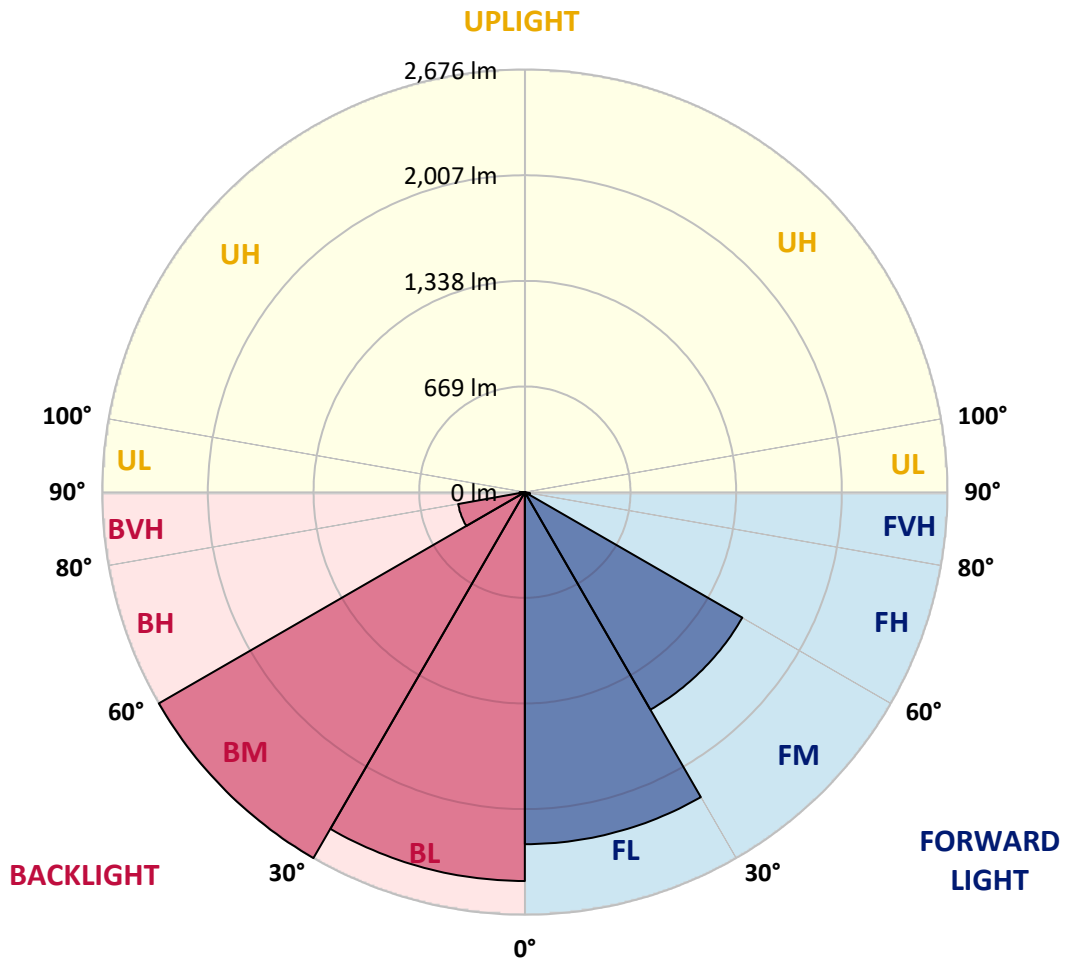
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2229.5 | 23.6 | | | |
| FM (30°-60°) | 1590.6 | 16.8 | | | |
| FH (60°-80°) | 33.3 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2462.9 | 26.0 | B3/2500 | | |
| BM (30°-60°) | 2676.4 | 28.3 | B3/5000 | | |
| BH (60°-80°) | 428.6 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 33.3 | 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° | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 |
| 2.5° | 7183.9 | 7193.2 | 7142.6 | 7148.0 | 7157.3 | 7225.2 | 7207.9 | 7191.9 | 7169.3 | 7207.9 |
| 5° | 7174.6 | 7179.9 | 7126.6 | 7108.0 | 7116.0 | 7177.3 | 7121.3 | 7121.3 | 7116.0 | 7109.3 |
| 7.5° | 7102.7 | 7105.3 | 7064.0 | 7030.7 | 7052.1 | 7080.0 | 7038.7 | 7058.7 | 7029.4 | 7052.1 |
| 10° | 6994.8 | 6977.5 | 6928.2 | 6918.9 | 6942.8 | 6969.5 | 6941.5 | 6960.2 | 6933.5 | 6950.8 |
| 12.5° | 6836.3 | 6809.7 | 6769.7 | 6757.7 | 6799.0 | 6835.0 | 6812.3 | 6801.7 | 6767.0 | 6809.7 |
| 15° | 6225.0 | 6205.0 | 6295.6 | 6454.1 | 6596.6 | 6627.2 | 6603.2 | 6613.9 | 6542.0 | 6554.0 |
| 17.5° | 5123.6 | 5086.3 | 5183.5 | 5559.1 | 6094.5 | 6376.8 | 6355.5 | 6286.3 | 6179.7 | 6203.7 |
| 20° | 4656.1 | 4645.4 | 4634.8 | 4724.0 | 5098.3 | 5954.6 | 5983.9 | 5808.1 | 5656.3 | 5623.0 |
| 22.5° | 4392.4 | 4388.4 | 4377.7 | 4397.7 | 4496.3 | 5046.3 | 5381.9 | 5219.5 | 5118.2 | 5108.9 |
| 25° | 4151.3 | 4144.7 | 4112.7 | 4138.0 | 4138.0 | 4170.0 | 4600.2 | 4698.7 | 4609.5 | 4598.8 |
| 27.5° | 3906.3 | 3894.3 | 3889.0 | 3900.9 | 3839.7 | 3623.9 | 3733.1 | 4213.9 | 4167.3 | 4170.0 |
| 30° | 3641.2 | 3637.2 | 3622.6 | 3647.9 | 3458.8 | 3191.1 | 3121.8 | 3774.4 | 3783.7 | 3781.1 |
| 32.5° | 3247.0 | 3264.3 | 3330.9 | 3358.9 | 3047.2 | 2826.2 | 2710.3 | 3265.7 | 3456.1 | 3452.1 |
| 35° | 2358.7 | 2358.7 | 2575.8 | 2979.3 | 2670.3 | 2503.8 | 2441.3 | 2768.9 | 3132.5 | 3145.8 |
| 37.5° | 1939.1 | 1945.8 | 1988.4 | 2172.2 | 2304.1 | 2245.5 | 2226.8 | 2330.7 | 2716.9 | 2738.2 |
| 40° | 1744.7 | 1744.7 | 1744.7 | 1668.8 | 1664.8 | 2023.1 | 2012.4 | 1979.1 | 2346.7 | 2393.3 |
| 42.5° | 1567.6 | 1571.6 | 1574.2 | 1382.4 | 1275.9 | 1748.7 | 1724.7 | 1674.1 | 2015.1 | 2069.7 |
| 45° | 1385.1 | 1391.8 | 1399.8 | 1156.0 | 1109.4 | 1258.6 | 1459.7 | 1403.8 | 1687.4 | 1758.0 |
| 47.5° | 845.7 | 856.4 | 1037.5 | 980.2 | 985.6 | 970.9 | 1190.7 | 1181.3 | 1383.8 | 1483.7 |
| 50° | 571.4 | 575.4 | 592.7 | 622.0 | 845.7 | 763.1 | 843.1 | 977.6 | 1050.8 | 1202.6 |
| 52.5° | 479.5 | 486.1 | 443.5 | 403.5 | 555.4 | 596.7 | 588.7 | 725.8 | 755.1 | 942.9 |
| 55° | 337.0 | 358.3 | 338.3 | 334.3 | 315.6 | 463.5 | 446.2 | 558.0 | 576.7 | 716.5 |
| 57.5° | 34.6 | 40.0 | 69.3 | 249.1 | 206.4 | 262.4 | 318.3 | 408.9 | 427.5 | 528.7 |
| 60° | 2.7 | 2.7 | 6.7 | 34.6 | 150.5 | 157.2 | 219.8 | 251.7 | 287.7 | 368.9 |
| 62.5° | 0.0 | 1.3 | 2.7 | 5.3 | 24.0 | 83.9 | 110.5 | 131.9 | 173.1 | 238.4 |
| 65° | 0.0 | 0.0 | 1.3 | 4.0 | 5.3 | 32.0 | 42.6 | 69.3 | 94.6 | 147.8 |
| 67.5° | 0.0 | 0.0 | 1.3 | 2.7 | 4.0 | 8.0 | 14.7 | 25.3 | 50.6 | 83.9 |
| 70° | 0.0 | 0.0 | 1.3 | 2.7 | 4.0 | 6.7 | 10.7 | 16.0 | 22.6 | 45.3 |
| 72.5° | 0.0 | 0.0 | 1.3 | 1.3 | 2.7 | 6.7 | 8.0 | 10.7 | 16.0 | 22.6 |
| 75° | 0.0 | 0.0 | 1.3 | 1.3 | 4.0 | 8.0 | 6.7 | 8.0 | 10.7 | 14.7 |
| 77.5° | 0.0 | 0.0 | 1.3 | 2.7 | 4.0 | 8.0 | 6.7 | 8.0 | 8.0 | 9.3 |
| 80° | 0.0 | 0.0 | 1.3 | 2.7 | 5.3 | 9.3 | 8.0 | 8.0 | 6.7 | 6.7 |
| 82.5° | 0.0 | 0.0 | 1.3 | 4.0 | 5.3 | 12.0 | 12.0 | 10.7 | 5.3 | 4.0 |
| 85° | 0.0 | 0.0 | 2.7 | 5.3 | 8.0 | 13.3 | 13.3 | 10.7 | 4.0 | 2.7 |
| 87.5° | 0.0 | 0.0 | 2.7 | 4.0 | 6.7 | 9.3 | 13.3 | 10.7 | 4.0 | 1.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636801

CATALOG NUMBER: IFLD-S-SA3B-940-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7197.2 | 0° | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 | 7197.2 |
| 7174.6 | 2.5° | 7210.5 | 7202.6 | 7229.2 | 7239.8 | 7254.5 | 7198.6 | 7163.9 | 7165.3 | 7101.3 |
| 7093.3 | 5° | 7136.0 | 7137.3 | 7171.9 | 7169.3 | 7183.9 | 7153.3 | 7140.0 | 7117.3 | 7061.4 |
| 6990.8 | 7.5° | 7041.4 | 7029.4 | 7062.7 | 7088.0 | 7050.7 | 7072.0 | 7041.4 | 7052.1 | 7018.8 |
| 6900.2 | 10° | 6968.2 | 6940.2 | 6970.8 | 6988.1 | 6989.5 | 6968.2 | 6938.9 | 6910.9 | 6898.9 |
| 6759.1 | 12.5° | 6805.7 | 6769.7 | 6821.7 | 6845.6 | 6841.6 | 6800.3 | 6767.0 | 6773.7 | 6735.1 |
| 6511.3 | 15° | 6581.9 | 6583.3 | 6620.5 | 6643.2 | 6621.9 | 6612.6 | 6615.2 | 6599.2 | 6565.9 |
| 6169.1 | 17.5° | 6239.6 | 6259.6 | 6358.2 | 6412.8 | 6424.8 | 6406.1 | 6396.8 | 6378.2 | 6344.9 |
| 5623.0 | 20° | 5669.6 | 5789.5 | 5965.3 | 6134.4 | 6167.7 | 6162.4 | 6129.1 | 6121.1 | 6102.5 |
| 5082.3 | 22.5° | 5168.8 | 5258.1 | 5461.8 | 5725.6 | 5861.4 | 5874.7 | 5834.8 | 5822.8 | 5802.8 |
| 4598.8 | 25° | 4650.8 | 4746.7 | 4930.4 | 5216.8 | 5497.8 | 5555.1 | 5548.4 | 5512.5 | 5491.1 |
| 4170.0 | 27.5° | 4213.9 | 4309.8 | 4476.3 | 4734.7 | 5035.7 | 5219.5 | 5236.8 | 5179.5 | 5178.2 |
| 3787.7 | 30° | 3819.7 | 3951.5 | 4078.1 | 4288.5 | 4580.2 | 4855.9 | 4885.2 | 4845.2 | 4849.2 |
| 3437.5 | 32.5° | 3510.7 | 3619.9 | 3727.8 | 3869.0 | 4111.4 | 4432.3 | 4546.9 | 4509.6 | 4494.9 |
| 3145.8 | 35° | 3195.1 | 3269.7 | 3380.2 | 3509.4 | 3674.5 | 3992.8 | 4191.3 | 4163.3 | 4148.7 |
| 2751.6 | 37.5° | 2835.5 | 2963.3 | 3043.2 | 3188.4 | 3317.6 | 3570.6 | 3850.3 | 3846.3 | 3815.7 |
| 2415.9 | 40° | 2466.6 | 2601.1 | 2722.3 | 2868.8 | 2968.7 | 3169.8 | 3480.1 | 3478.7 | 3482.7 |
| 2068.3 | 42.5° | 2132.3 | 2256.1 | 2402.6 | 2562.4 | 2658.3 | 2804.8 | 3137.8 | 3156.4 | 3179.1 |
| 1782.0 | 45° | 1829.9 | 1941.8 | 2077.7 | 2272.1 | 2388.0 | 2471.9 | 2767.5 | 2852.8 | 2851.5 |
| 1526.3 | 47.5° | 1558.2 | 1663.5 | 1778.0 | 1967.1 | 2115.0 | 2190.9 | 2435.9 | 2557.1 | 2549.1 |
| 1251.9 | 50° | 1307.9 | 1401.1 | 1521.0 | 1658.1 | 1856.6 | 1923.2 | 2105.6 | 2265.4 | 2253.5 |
| 997.5 | 52.5° | 1052.1 | 1181.3 | 1282.6 | 1407.7 | 1616.8 | 1682.1 | 1823.3 | 1979.1 | 1969.8 |
| 748.5 | 55° | 820.4 | 945.6 | 1068.1 | 1176.0 | 1351.8 | 1449.0 | 1550.3 | 1710.1 | 1707.4 |
| 586.0 | 57.5° | 620.6 | 757.8 | 873.7 | 976.2 | 1116.1 | 1235.9 | 1317.2 | 1462.4 | 1481.0 |
| 400.9 | 60° | 459.5 | 564.7 | 689.9 | 804.4 | 915.0 | 1038.8 | 1093.4 | 1235.9 | 1243.9 |
| 274.4 | 62.5° | 313.0 | 428.9 | 551.4 | 655.3 | 737.8 | 865.7 | 915.0 | 1032.2 | 1046.8 |
| 175.8 | 65° | 217.1 | 291.7 | 431.5 | 506.1 | 607.3 | 716.5 | 765.8 | 859.0 | 888.3 |
| 101.2 | 67.5° | 143.8 | 207.8 | 337.0 | 404.9 | 504.8 | 579.3 | 641.9 | 717.9 | 749.8 |
| 63.9 | 70° | 78.6 | 153.2 | 241.1 | 319.6 | 406.2 | 478.1 | 539.4 | 600.7 | 628.6 |
| 29.3 | 72.5° | 53.3 | 102.6 | 167.8 | 253.0 | 327.6 | 398.2 | 452.8 | 498.1 | 499.4 |
| 17.3 | 75° | 26.6 | 69.3 | 127.9 | 195.8 | 255.7 | 325.0 | 374.2 | 400.9 | 368.9 |
| 10.7 | 77.5° | 16.0 | 50.6 | 103.9 | 157.2 | 207.8 | 262.4 | 290.3 | 305.0 | 253.0 |
| 8.0 | 80° | 9.3 | 36.0 | 81.2 | 125.2 | 143.8 | 193.1 | 219.8 | 223.7 | 169.1 |
| 5.3 | 82.5° | 6.7 | 26.6 | 63.9 | 91.9 | 87.9 | 135.8 | 165.1 | 159.8 | 107.9 |
| 4.0 | 85° | 4.0 | 18.6 | 40.0 | 57.3 | 53.3 | 89.2 | 95.9 | 98.6 | 62.6 |
| 2.7 | 87.5° | 2.7 | 10.7 | 21.3 | 30.6 | 25.3 | 38.6 | 38.6 | 46.6 | 30.6 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
7197.2
7018.8
7048.1
6962.8
6845.6
6701.8
6532.6
6330.2
6059.8
5797.5
5468.5
5175.5
4829.2
4496.3
4128.7
3841.0
3482.7
3167.1
2854.1
2551.8
2264.1
1989.8
1714.1
1473.0
1255.9
1049.5
881.7
745.8
618.0
487.5
344.9
243.7
158.5
99.9
57.3
26.6
0.0

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