

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: P636744

Luminaire Tested: **IFLD-S-SA3C-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10427.4 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

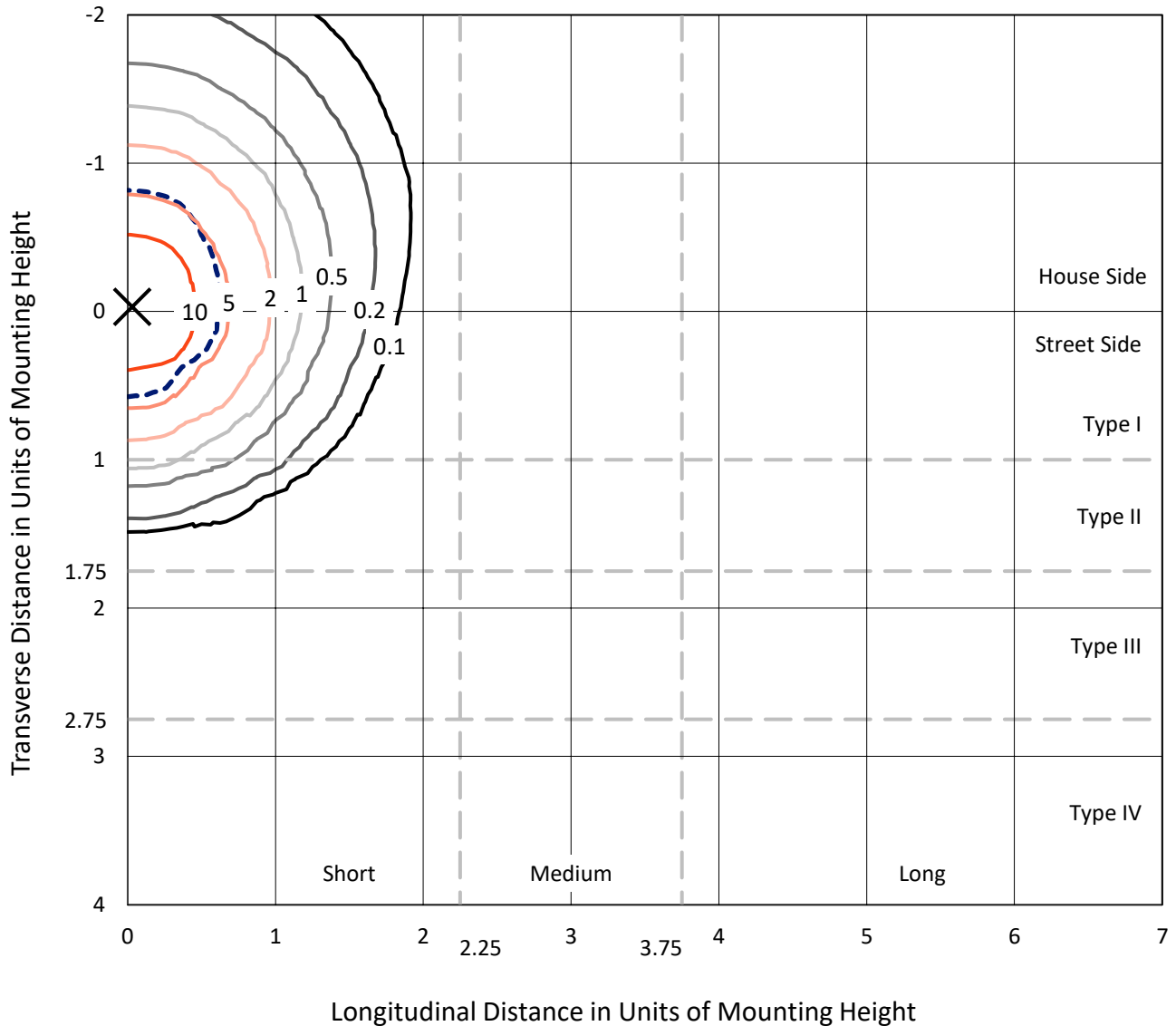
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

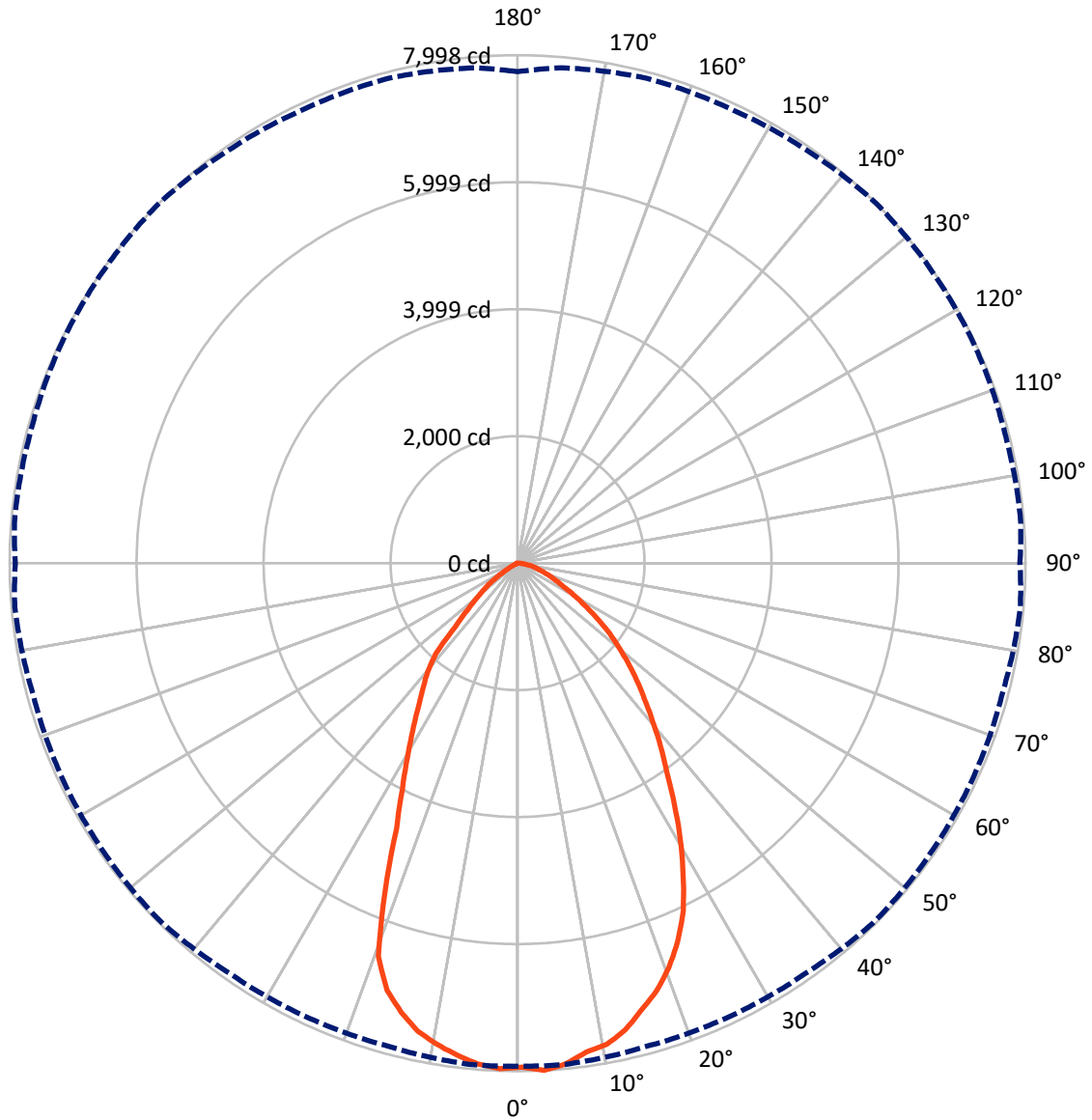
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.8 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 | 6175.7 | 0.0 | 6175.7 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 4251.8 | 0.0 | 4251.8 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 10427.4 | 0.0 | 10427.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 744.2 | 7.1 |
| 10°-20° | 1995.6 | 19.1 |
| 20°-30° | 2433.8 | 23.3 |
| 30°-40° | 2222.0 | 21.3 |
| 40°-50° | 1605.8 | 15.4 |
| 50°-60° | 876.8 | 8.4 |
| 60°-70° | 362.5 | 3.5 |
| 70°-80° | 146.8 | 1.4 |
| 80°-90° | 39.9 | 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° | 10427.4 | 100.0 |
| 0°-180° | 10427.4 | 100.0 |



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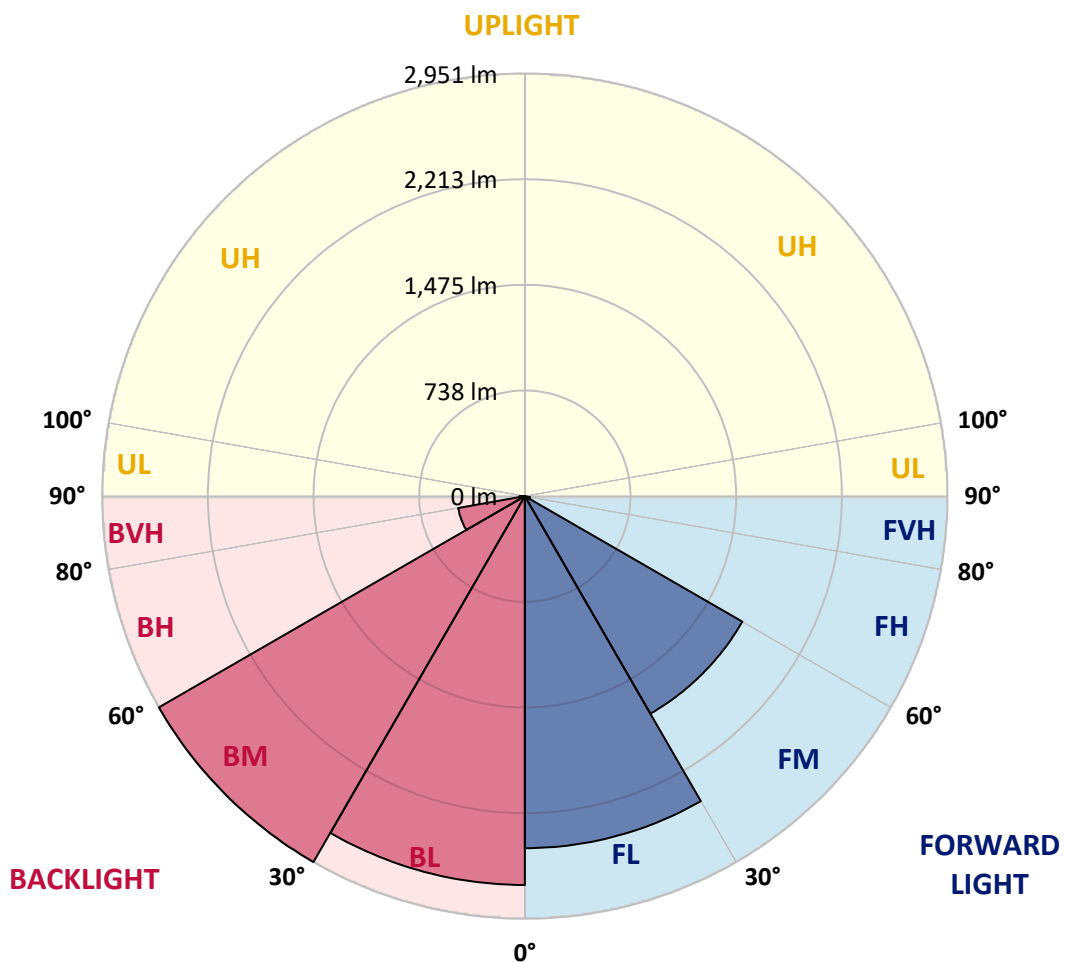
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2458.1 | 23.6 | | | |
| FM (30°-60°) | 1753.7 | 16.8 | | | |
| FH (60°-80°) | 36.7 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2715.5 | 26.0 | B4/5000 | | |
| BM (30°-60°) | 2950.9 | 28.3 | B3/5000 | | |
| BH (60°-80°) | 472.6 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 36.7 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 |
| 2.5° | 7920.6 | 7930.8 | 7875.0 | 7880.9 | 7891.2 | 7966.1 | 7947.0 | 7929.4 | 7904.4 | 7947.0 |
| 5° | 7910.3 | 7916.1 | 7857.4 | 7836.9 | 7845.7 | 7913.2 | 7851.5 | 7851.5 | 7845.7 | 7838.3 |
| 7.5° | 7831.0 | 7833.9 | 7788.4 | 7751.7 | 7775.2 | 7806.0 | 7760.5 | 7782.5 | 7750.2 | 7775.2 |
| 10° | 7712.0 | 7692.9 | 7638.6 | 7628.3 | 7654.8 | 7684.1 | 7653.3 | 7673.9 | 7644.5 | 7663.6 |
| 12.5° | 7537.3 | 7507.9 | 7463.9 | 7450.7 | 7496.2 | 7535.8 | 7510.9 | 7499.1 | 7460.9 | 7507.9 |
| 15° | 6863.3 | 6841.3 | 6941.1 | 7115.9 | 7273.0 | 7306.8 | 7280.3 | 7292.1 | 7212.8 | 7226.0 |
| 17.5° | 5648.9 | 5607.8 | 5715.0 | 6129.1 | 6719.4 | 7030.7 | 7007.2 | 6930.8 | 6813.4 | 6839.8 |
| 20° | 5133.5 | 5121.8 | 5110.0 | 5208.4 | 5621.0 | 6565.2 | 6597.5 | 6403.7 | 6236.3 | 6199.6 |
| 22.5° | 4842.8 | 4838.4 | 4826.6 | 4848.7 | 4957.3 | 5563.8 | 5933.8 | 5754.7 | 5643.1 | 5632.8 |
| 25° | 4577.0 | 4569.7 | 4534.4 | 4562.3 | 4562.3 | 4597.6 | 5071.9 | 5180.5 | 5082.1 | 5070.4 |
| 27.5° | 4306.8 | 4293.6 | 4287.7 | 4300.9 | 4233.4 | 3995.5 | 4115.9 | 4646.0 | 4594.6 | 4597.6 |
| 30° | 4014.6 | 4010.2 | 3994.0 | 4021.9 | 3813.4 | 3518.3 | 3441.9 | 4161.4 | 4171.7 | 4168.8 |
| 32.5° | 3580.0 | 3599.0 | 3672.5 | 3703.3 | 3359.7 | 3115.9 | 2988.2 | 3600.5 | 3810.5 | 3806.1 |
| 35° | 2600.5 | 2600.5 | 2839.9 | 3284.8 | 2944.1 | 2760.6 | 2691.6 | 3052.8 | 3453.7 | 3468.4 |
| 37.5° | 2138.0 | 2145.3 | 2192.3 | 2395.0 | 2540.3 | 2475.7 | 2455.2 | 2569.7 | 2995.5 | 3019.0 |
| 40° | 1923.6 | 1923.6 | 1923.6 | 1839.9 | 1835.5 | 2230.5 | 2218.8 | 2182.0 | 2587.3 | 2638.7 |
| 42.5° | 1728.3 | 1732.7 | 1735.6 | 1524.2 | 1406.7 | 1928.0 | 1901.6 | 1845.8 | 2221.7 | 2281.9 |
| 45° | 1527.1 | 1534.5 | 1543.3 | 1274.6 | 1223.2 | 1387.6 | 1609.4 | 1547.7 | 1860.5 | 1938.3 |
| 47.5° | 932.4 | 944.2 | 1143.9 | 1080.7 | 1086.6 | 1070.5 | 1312.7 | 1302.5 | 1525.7 | 1635.8 |
| 50° | 629.9 | 634.3 | 653.4 | 685.7 | 932.4 | 841.4 | 929.5 | 1077.8 | 1158.6 | 1326.0 |
| 52.5° | 528.6 | 536.0 | 489.0 | 444.9 | 612.3 | 657.8 | 649.0 | 800.3 | 832.6 | 1039.6 |
| 55° | 371.5 | 395.0 | 373.0 | 368.6 | 348.0 | 511.0 | 491.9 | 615.3 | 635.8 | 790.0 |
| 57.5° | 38.2 | 44.1 | 76.4 | 274.6 | 227.6 | 289.3 | 350.9 | 450.8 | 471.4 | 583.0 |
| 60° | 2.9 | 2.9 | 7.3 | 38.2 | 165.9 | 173.3 | 242.3 | 277.5 | 317.2 | 406.7 |
| 62.5° | 0.0 | 1.5 | 2.9 | 5.9 | 26.4 | 92.5 | 121.9 | 145.4 | 190.9 | 262.8 |
| 65° | 0.0 | 0.0 | 1.5 | 4.4 | 5.9 | 35.2 | 47.0 | 76.4 | 104.3 | 163.0 |
| 67.5° | 0.0 | 0.0 | 1.5 | 2.9 | 4.4 | 8.8 | 16.2 | 27.9 | 55.8 | 92.5 |
| 70° | 0.0 | 0.0 | 1.5 | 2.9 | 4.4 | 7.3 | 11.7 | 17.6 | 25.0 | 49.9 |
| 72.5° | 0.0 | 0.0 | 1.5 | 1.5 | 2.9 | 7.3 | 8.8 | 11.7 | 17.6 | 25.0 |
| 75° | 0.0 | 0.0 | 1.5 | 1.5 | 4.4 | 8.8 | 7.3 | 8.8 | 11.7 | 16.2 |
| 77.5° | 0.0 | 0.0 | 1.5 | 2.9 | 4.4 | 8.8 | 7.3 | 8.8 | 8.8 | 10.3 |
| 80° | 0.0 | 0.0 | 1.5 | 2.9 | 5.9 | 10.3 | 8.8 | 8.8 | 7.3 | 7.3 |
| 82.5° | 0.0 | 0.0 | 1.5 | 4.4 | 5.9 | 13.2 | 13.2 | 11.7 | 5.9 | 4.4 |
| 85° | 0.0 | 0.0 | 2.9 | 5.9 | 8.8 | 14.7 | 14.7 | 11.7 | 4.4 | 2.9 |
| 87.5° | 0.0 | 0.0 | 2.9 | 4.4 | 7.3 | 10.3 | 14.7 | 11.7 | 4.4 | 1.5 |
| 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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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7935.2 | 0° | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 | 7935.2 |
| 7910.3 | 2.5° | 7949.9 | 7941.1 | 7970.5 | 7982.2 | 7998.4 | 7936.7 | 7898.5 | 7900.0 | 7829.5 |
| 7820.7 | 5° | 7867.7 | 7869.2 | 7907.3 | 7904.4 | 7920.6 | 7886.8 | 7872.1 | 7847.1 | 7785.5 |
| 7707.6 | 7.5° | 7763.4 | 7750.2 | 7786.9 | 7814.8 | 7773.7 | 7797.2 | 7763.4 | 7775.2 | 7738.5 |
| 7607.8 | 10° | 7682.7 | 7651.8 | 7685.6 | 7704.7 | 7706.2 | 7682.7 | 7650.4 | 7619.5 | 7606.3 |
| 7452.1 | 12.5° | 7503.5 | 7463.9 | 7521.1 | 7547.6 | 7543.2 | 7497.7 | 7460.9 | 7468.3 | 7425.7 |
| 7179.0 | 15° | 7256.8 | 7258.3 | 7299.4 | 7324.4 | 7300.9 | 7290.6 | 7293.5 | 7275.9 | 7239.2 |
| 6801.6 | 17.5° | 6879.5 | 6901.5 | 7010.1 | 7070.3 | 7083.6 | 7063.0 | 7052.7 | 7032.2 | 6995.5 |
| 6199.6 | 20° | 6251.0 | 6383.1 | 6577.0 | 6763.5 | 6800.2 | 6794.3 | 6757.6 | 6748.8 | 6728.2 |
| 5603.4 | 22.5° | 5698.9 | 5797.2 | 6021.9 | 6312.7 | 6462.4 | 6477.1 | 6433.1 | 6419.8 | 6397.8 |
| 5070.4 | 25° | 5127.7 | 5233.4 | 5436.0 | 5751.7 | 6061.6 | 6124.7 | 6117.4 | 6077.7 | 6054.2 |
| 4597.6 | 27.5° | 4646.0 | 4751.7 | 4935.3 | 5220.2 | 5552.0 | 5754.7 | 5773.7 | 5710.6 | 5709.1 |
| 4176.1 | 30° | 4211.4 | 4356.7 | 4496.2 | 4728.2 | 5049.8 | 5353.8 | 5386.1 | 5342.0 | 5346.4 |
| 3789.9 | 32.5° | 3870.7 | 3991.1 | 4110.1 | 4265.7 | 4533.0 | 4886.8 | 5013.1 | 4972.0 | 4955.9 |
| 3468.4 | 35° | 3522.7 | 3604.9 | 3726.8 | 3869.2 | 4051.3 | 4402.3 | 4621.1 | 4590.2 | 4574.1 |
| 3033.7 | 37.5° | 3126.2 | 3267.2 | 3355.3 | 3515.4 | 3657.8 | 3936.8 | 4245.1 | 4240.7 | 4207.0 |
| 2663.7 | 40° | 2719.5 | 2867.8 | 3001.4 | 3162.9 | 3273.1 | 3494.8 | 3836.9 | 3835.5 | 3839.9 |
| 2280.4 | 42.5° | 2350.9 | 2487.5 | 2649.0 | 2825.2 | 2930.9 | 3092.5 | 3459.6 | 3480.1 | 3505.1 |
| 1964.7 | 45° | 2017.6 | 2140.9 | 2290.7 | 2505.1 | 2632.8 | 2725.4 | 3051.3 | 3145.3 | 3143.8 |
| 1682.8 | 47.5° | 1718.0 | 1834.0 | 1960.3 | 2168.8 | 2331.8 | 2415.5 | 2685.7 | 2819.3 | 2810.5 |
| 1380.3 | 50° | 1442.0 | 1544.8 | 1676.9 | 1828.2 | 2046.9 | 2120.4 | 2321.5 | 2497.7 | 2484.5 |
| 1099.8 | 52.5° | 1160.0 | 1302.5 | 1414.1 | 1552.1 | 1782.6 | 1854.6 | 2010.2 | 2182.0 | 2171.8 |
| 825.2 | 55° | 904.5 | 1042.6 | 1177.7 | 1296.6 | 1490.4 | 1597.6 | 1709.2 | 1885.4 | 1882.5 |
| 646.1 | 57.5° | 684.3 | 835.5 | 963.3 | 1076.3 | 1230.5 | 1362.7 | 1452.2 | 1612.3 | 1632.9 |
| 442.0 | 60° | 506.6 | 622.6 | 760.6 | 886.9 | 1008.8 | 1145.4 | 1205.6 | 1362.7 | 1371.5 |
| 302.5 | 62.5° | 345.1 | 472.8 | 607.9 | 722.5 | 813.5 | 954.5 | 1008.8 | 1138.0 | 1154.2 |
| 193.8 | 65° | 239.3 | 321.6 | 475.8 | 558.0 | 669.6 | 790.0 | 844.3 | 947.1 | 979.4 |
| 111.6 | 67.5° | 158.6 | 229.1 | 371.5 | 446.4 | 556.5 | 638.8 | 707.8 | 791.5 | 826.7 |
| 70.5 | 70° | 86.6 | 168.9 | 265.8 | 352.4 | 447.9 | 527.2 | 594.7 | 662.2 | 693.1 |
| 32.3 | 72.5° | 58.7 | 113.1 | 185.0 | 279.0 | 361.2 | 439.1 | 499.3 | 549.2 | 550.7 |
| 19.1 | 75° | 29.4 | 76.4 | 141.0 | 215.9 | 281.9 | 358.3 | 412.6 | 442.0 | 406.7 |
| 11.7 | 77.5° | 17.6 | 55.8 | 114.5 | 173.3 | 229.1 | 289.3 | 320.1 | 336.3 | 279.0 |
| 8.8 | 80° | 10.3 | 39.6 | 89.6 | 138.0 | 158.6 | 212.9 | 242.3 | 246.7 | 186.5 |
| 5.9 | 82.5° | 7.3 | 29.4 | 70.5 | 101.3 | 96.9 | 149.8 | 182.1 | 176.2 | 118.9 |
| 4.4 | 85° | 4.4 | 20.6 | 44.1 | 63.1 | 58.7 | 98.4 | 105.7 | 108.7 | 69.0 |
| 2.9 | 87.5° | 2.9 | 11.7 | 23.5 | 33.8 | 27.9 | 42.6 | 42.6 | 51.4 | 33.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
7935.2
7738.5
7770.8
7676.8
7547.6
7389.0
7202.5
6979.3
6681.2
6391.9
6029.3
5706.2
5324.4
4957.3
4552.0
4234.9
3839.9
3491.9
3146.8
2813.5
2496.3
2193.8
1889.8
1624.1
1384.7
1157.1
972.1
822.3
681.3
537.4
380.3
268.7
174.7
110.1
63.1
29.4
0.0

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