

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: P637986

Luminaire Tested: **IFLD-S-SA2C-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637986
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8810.1 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

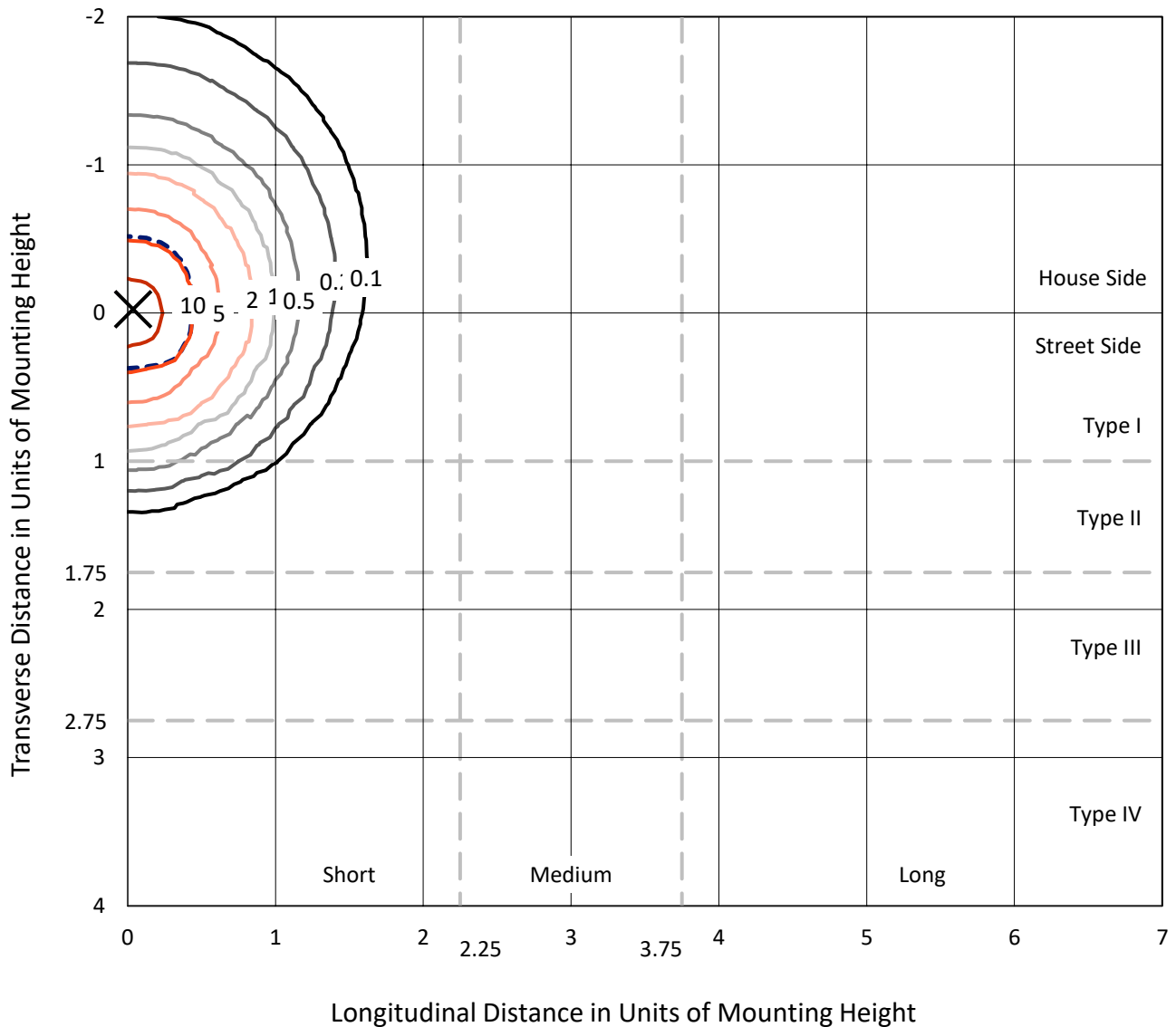
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

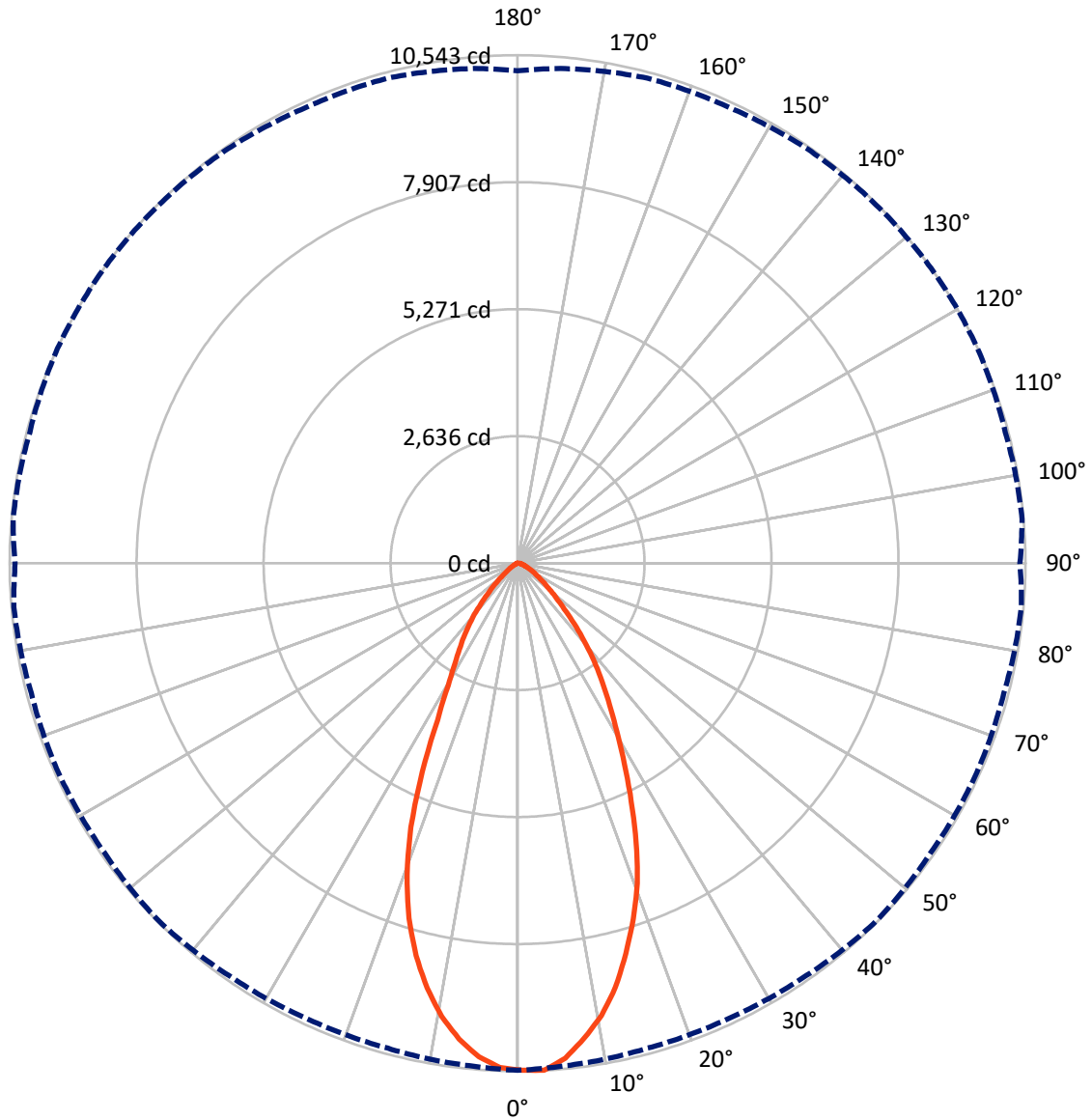
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4999.2 | 0.0 | 4999.2 |
| | % Fixture | 56.7 | 0.0 | 56.7 |
| Street Side | Lumens | 3810.9 | 0.0 | 3810.9 |
| | % Fixture | 43.3 | 0.0 | 43.3 |
| Total | Lumens | 8810.1 | 0.0 | 8810.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 955.8 | 10.8 |
| 10°-20° | 2278.4 | 25.9 |
| 20°-30° | 2320.5 | 26.3 |
| 30°-40° | 1730.4 | 19.6 |
| 40°-50° | 904.0 | 10.3 |
| 50°-60° | 380.2 | 4.3 |
| 60°-70° | 155.3 | 1.8 |
| 70°-80° | 65.4 | 0.7 |
| 80°-90° | 20.1 | 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° | 8810.1 | 100.0 |
| 0°-180° | 8810.1 | 100.0 |



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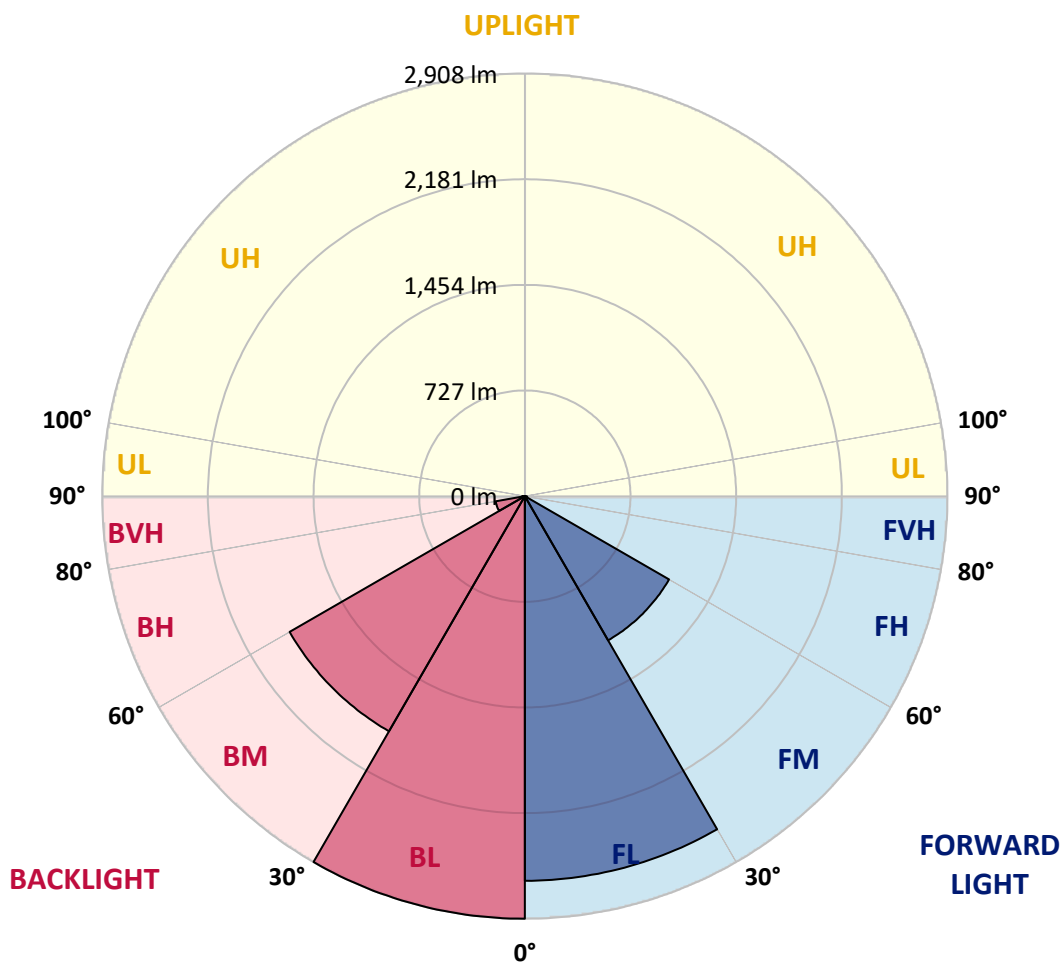
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2646.7 | 30.0 | | | |
| FM (30°-60°) | 1145.8 | 13.0 | | | |
| FH (60°-80°) | 16.6 | 0.2 | | | G0/660 |
| FVH (80°-90°) | 1.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2908.0 | 33.0 | B4/5000 | | |
| BM (30°-60°) | 1868.8 | 21.2 | B2/2500 | | |
| BH (60°-80°) | 204.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.3 | 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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 |
| 2.5° | 10527.1 | 10484.1 | 10423.0 | 10417.3 | 10449.0 | 10518.0 | 10473.9 | 10476.2 | 10449.0 | 10495.4 |
| 5° | 10361.9 | 10321.1 | 10279.2 | 10223.8 | 10270.2 | 10299.6 | 10277.0 | 10252.1 | 10217.0 | 10262.3 |
| 7.5° | 10049.5 | 10026.9 | 9964.6 | 9939.7 | 9968.0 | 10000.8 | 9952.2 | 9945.4 | 9896.7 | 9955.6 |
| 10° | 9571.9 | 9562.9 | 9501.8 | 9487.0 | 9511.9 | 9561.7 | 9540.2 | 9535.7 | 9505.2 | 9499.5 |
| 12.5° | 9076.2 | 9041.2 | 8965.3 | 8960.8 | 8998.2 | 9072.8 | 9015.1 | 8959.7 | 8976.7 | 8991.4 |
| 15° | 7799.7 | 7762.3 | 7950.2 | 8245.6 | 8400.6 | 8395.0 | 8411.9 | 8345.2 | 8324.8 | 8331.6 |
| 17.5° | 6200.6 | 6137.2 | 6205.1 | 6662.3 | 7399.1 | 7826.8 | 7709.1 | 7565.4 | 7488.5 | 7437.5 |
| 20° | 5351.8 | 5355.2 | 5342.8 | 5460.5 | 5919.9 | 6895.5 | 6867.2 | 6589.9 | 6489.2 | 6447.3 |
| 22.5° | 4835.8 | 4816.5 | 4789.4 | 4826.7 | 4950.1 | 5522.7 | 5906.3 | 5651.7 | 5616.6 | 5570.2 |
| 25° | 4329.9 | 4329.9 | 4297.1 | 4334.4 | 4369.5 | 4377.4 | 4762.2 | 4866.3 | 4798.4 | 4798.4 |
| 27.5° | 3891.9 | 3869.3 | 3854.6 | 3871.5 | 3825.1 | 3602.2 | 3650.9 | 4183.9 | 4137.5 | 4109.2 |
| 30° | 3457.3 | 3450.6 | 3425.7 | 3448.3 | 3276.3 | 3025.0 | 2923.2 | 3530.9 | 3579.6 | 3569.4 |
| 32.5° | 2854.1 | 2881.3 | 2992.2 | 3027.3 | 2733.1 | 2530.5 | 2433.2 | 2931.1 | 3125.8 | 3117.8 |
| 35° | 1939.7 | 1962.4 | 2089.1 | 2507.8 | 2265.7 | 2120.8 | 2092.5 | 2331.3 | 2651.6 | 2682.1 |
| 37.5° | 1544.8 | 1541.4 | 1577.6 | 1652.3 | 1820.9 | 1785.8 | 1777.9 | 1840.1 | 2162.7 | 2176.3 |
| 40° | 1273.2 | 1268.6 | 1267.5 | 1206.4 | 1164.5 | 1484.8 | 1463.3 | 1425.9 | 1705.5 | 1732.6 |
| 42.5° | 1026.5 | 1031.0 | 1034.4 | 900.8 | 839.7 | 1145.3 | 1132.8 | 1094.4 | 1337.7 | 1369.4 |
| 45° | 805.8 | 804.6 | 811.4 | 671.1 | 654.1 | 732.2 | 846.5 | 816.0 | 1009.5 | 1043.4 |
| 47.5° | 417.6 | 432.3 | 524.0 | 519.5 | 527.4 | 519.5 | 640.5 | 632.6 | 759.4 | 813.7 |
| 50° | 280.7 | 285.2 | 293.1 | 294.2 | 415.3 | 382.5 | 434.6 | 492.3 | 531.9 | 615.6 |
| 52.5° | 217.3 | 220.7 | 200.3 | 187.9 | 254.6 | 282.9 | 285.2 | 340.6 | 371.2 | 456.1 |
| 55° | 121.1 | 135.8 | 146.0 | 147.1 | 140.3 | 209.4 | 208.2 | 252.4 | 276.1 | 332.7 |
| 57.5° | 15.8 | 19.2 | 29.4 | 95.1 | 93.9 | 116.6 | 146.0 | 183.3 | 196.9 | 243.3 |
| 60° | 1.1 | 2.3 | 3.4 | 14.7 | 62.2 | 67.9 | 99.6 | 114.3 | 136.9 | 170.9 |
| 62.5° | 0.0 | 0.0 | 1.1 | 3.4 | 12.4 | 39.6 | 52.1 | 60.0 | 80.4 | 112.0 |
| 65° | 0.0 | 0.0 | 1.1 | 2.3 | 4.5 | 14.7 | 20.4 | 32.8 | 47.5 | 69.0 |
| 67.5° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.7 | 9.1 | 14.7 | 24.9 | 41.9 |
| 70° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 4.5 | 6.8 | 9.1 | 13.6 | 22.6 |
| 72.5° | 0.0 | 0.0 | 1.1 | 1.1 | 2.3 | 5.7 | 5.7 | 6.8 | 9.1 | 12.4 |
| 75° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.7 | 5.7 | 5.7 | 6.8 | 7.9 |
| 77.5° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.7 | 4.5 | 5.7 | 5.7 | 5.7 |
| 80° | 0.0 | 0.0 | 1.1 | 2.3 | 3.4 | 5.7 | 6.8 | 5.7 | 4.5 | 4.5 |
| 82.5° | 0.0 | 0.0 | 1.1 | 3.4 | 3.4 | 7.9 | 7.9 | 7.9 | 3.4 | 3.4 |
| 85° | 0.0 | 0.0 | 2.3 | 3.4 | 5.7 | 9.1 | 9.1 | 6.8 | 3.4 | 2.3 |
| 87.5° | 0.0 | 0.0 | 1.1 | 2.3 | 2.3 | 4.5 | 6.8 | 5.7 | 2.3 | 1.1 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10525.9 | 0° | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 | 10525.9 |
| 10427.5 | 2.5° | 10511.2 | 10482.9 | 10536.1 | 10542.9 | 10520.3 | 10492.0 | 10426.4 | 10420.7 | 10306.4 |
| 10196.6 | 5° | 10312.1 | 10265.7 | 10299.6 | 10322.2 | 10314.3 | 10283.8 | 10256.6 | 10231.7 | 10128.7 |
| 9822.0 | 7.5° | 9940.9 | 9923.9 | 9939.7 | 9956.7 | 9989.5 | 9956.7 | 9945.4 | 9919.4 | 9817.5 |
| 9453.1 | 10° | 9528.9 | 9497.2 | 9557.2 | 9549.3 | 9540.2 | 9531.2 | 9483.7 | 9488.2 | 9368.2 |
| 8950.6 | 12.5° | 9023.1 | 8969.9 | 9027.6 | 9034.4 | 9027.6 | 8995.9 | 8942.7 | 8965.3 | 8855.6 |
| 8271.6 | 15° | 8342.9 | 8337.2 | 8379.1 | 8406.3 | 8425.5 | 8391.6 | 8373.5 | 8384.8 | 8319.1 |
| 7397.9 | 17.5° | 7507.7 | 7581.3 | 7718.2 | 7764.6 | 7765.7 | 7800.8 | 7790.6 | 7777.0 | 7728.4 |
| 6430.3 | 20° | 6525.4 | 6666.8 | 6877.3 | 7093.5 | 7155.7 | 7126.3 | 7112.7 | 7137.6 | 7065.2 |
| 5521.6 | 22.5° | 5618.9 | 5740.0 | 5984.4 | 6300.2 | 6482.4 | 6500.5 | 6497.1 | 6475.6 | 6447.3 |
| 4793.9 | 25° | 4849.3 | 4956.8 | 5191.1 | 5479.7 | 5829.4 | 5881.4 | 5883.7 | 5876.9 | 5852.0 |
| 4134.1 | 27.5° | 4199.7 | 4329.9 | 4458.9 | 4716.9 | 5089.3 | 5304.3 | 5277.1 | 5269.2 | 5260.1 |
| 3577.3 | 30° | 3611.3 | 3775.4 | 3896.4 | 4057.1 | 4391.0 | 4681.8 | 4710.1 | 4696.6 | 4675.1 |
| 3116.7 | 32.5° | 3145.0 | 3242.3 | 3396.2 | 3504.9 | 3744.8 | 4074.1 | 4182.8 | 4172.6 | 4153.3 |
| 2701.4 | 35° | 2739.8 | 2778.3 | 2899.4 | 3020.5 | 3180.1 | 3499.2 | 3659.9 | 3637.3 | 3633.9 |
| 2201.2 | 37.5° | 2256.6 | 2385.6 | 2452.4 | 2574.6 | 2686.7 | 2934.5 | 3156.3 | 3146.1 | 3147.3 |
| 1770.0 | 40° | 1822.0 | 1896.7 | 2029.1 | 2132.1 | 2235.1 | 2416.2 | 2662.9 | 2669.7 | 2667.4 |
| 1370.5 | 42.5° | 1398.8 | 1471.2 | 1610.4 | 1722.4 | 1814.1 | 1926.2 | 2161.5 | 2169.5 | 2179.7 |
| 1067.2 | 45° | 1092.1 | 1138.5 | 1240.3 | 1356.9 | 1454.2 | 1522.1 | 1700.9 | 1751.9 | 1753.0 |
| 827.3 | 47.5° | 847.6 | 900.8 | 973.3 | 1085.3 | 1180.4 | 1229.0 | 1359.2 | 1428.2 | 1424.8 |
| 634.9 | 50° | 665.4 | 714.1 | 773.0 | 861.2 | 964.2 | 1002.7 | 1098.9 | 1166.8 | 1163.4 |
| 478.7 | 52.5° | 509.3 | 571.5 | 623.6 | 691.5 | 792.2 | 825.0 | 894.0 | 972.1 | 960.8 |
| 350.8 | 55° | 385.9 | 449.3 | 497.9 | 554.5 | 646.2 | 688.1 | 735.6 | 797.8 | 800.1 |
| 271.6 | 57.5° | 290.8 | 356.5 | 400.6 | 458.3 | 527.4 | 573.8 | 610.0 | 676.8 | 675.6 |
| 185.6 | 60° | 208.2 | 264.8 | 318.0 | 378.0 | 431.2 | 484.4 | 509.3 | 572.6 | 574.9 |
| 131.3 | 62.5° | 150.5 | 203.7 | 254.6 | 306.7 | 354.2 | 406.3 | 428.9 | 478.7 | 485.5 |
| 86.0 | 65° | 105.2 | 142.6 | 201.4 | 241.1 | 294.2 | 332.7 | 362.1 | 405.1 | 413.1 |
| 50.9 | 67.5° | 67.9 | 103.0 | 159.6 | 194.7 | 243.3 | 276.1 | 306.7 | 340.6 | 350.8 |
| 32.8 | 70° | 40.7 | 78.1 | 118.8 | 156.2 | 200.3 | 229.7 | 259.2 | 288.6 | 294.2 |
| 15.8 | 72.5° | 26.0 | 54.3 | 86.0 | 126.8 | 160.7 | 192.4 | 218.4 | 239.9 | 222.9 |
| 10.2 | 75° | 14.7 | 37.3 | 67.9 | 99.6 | 130.1 | 160.7 | 182.2 | 193.5 | 155.0 |
| 6.8 | 77.5° | 9.1 | 27.2 | 55.5 | 80.4 | 100.7 | 129.0 | 142.6 | 149.4 | 110.9 |
| 4.5 | 80° | 5.7 | 20.4 | 46.4 | 65.6 | 65.6 | 95.1 | 110.9 | 116.6 | 80.4 |
| 3.4 | 82.5° | 4.5 | 14.7 | 36.2 | 49.8 | 44.1 | 71.3 | 87.1 | 88.3 | 56.6 |
| 2.3 | 85° | 3.4 | 11.3 | 22.6 | 32.8 | 30.6 | 49.8 | 50.9 | 56.6 | 37.3 |
| 2.3 | 87.5° | 2.3 | 6.8 | 13.6 | 19.2 | 17.0 | 23.8 | 27.2 | 30.6 | 20.4 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
10525.9
10217.0
10046.1
9796.0
9327.5
8823.9
8239.9
7656.0
7013.1
6393.0
5768.3
5207.0
4647.9
4102.4
3596.5
3111.0
2627.8
2145.7
1723.6
1412.4
1163.4
961.9
800.1
673.4
569.2
483.2
410.8
349.7
289.7
207.1
147.1
104.1
74.7
52.1
34.0
18.1
0.0

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