

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: P477375

Luminaire Tested: **IFLD-S-SA2E-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477375
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

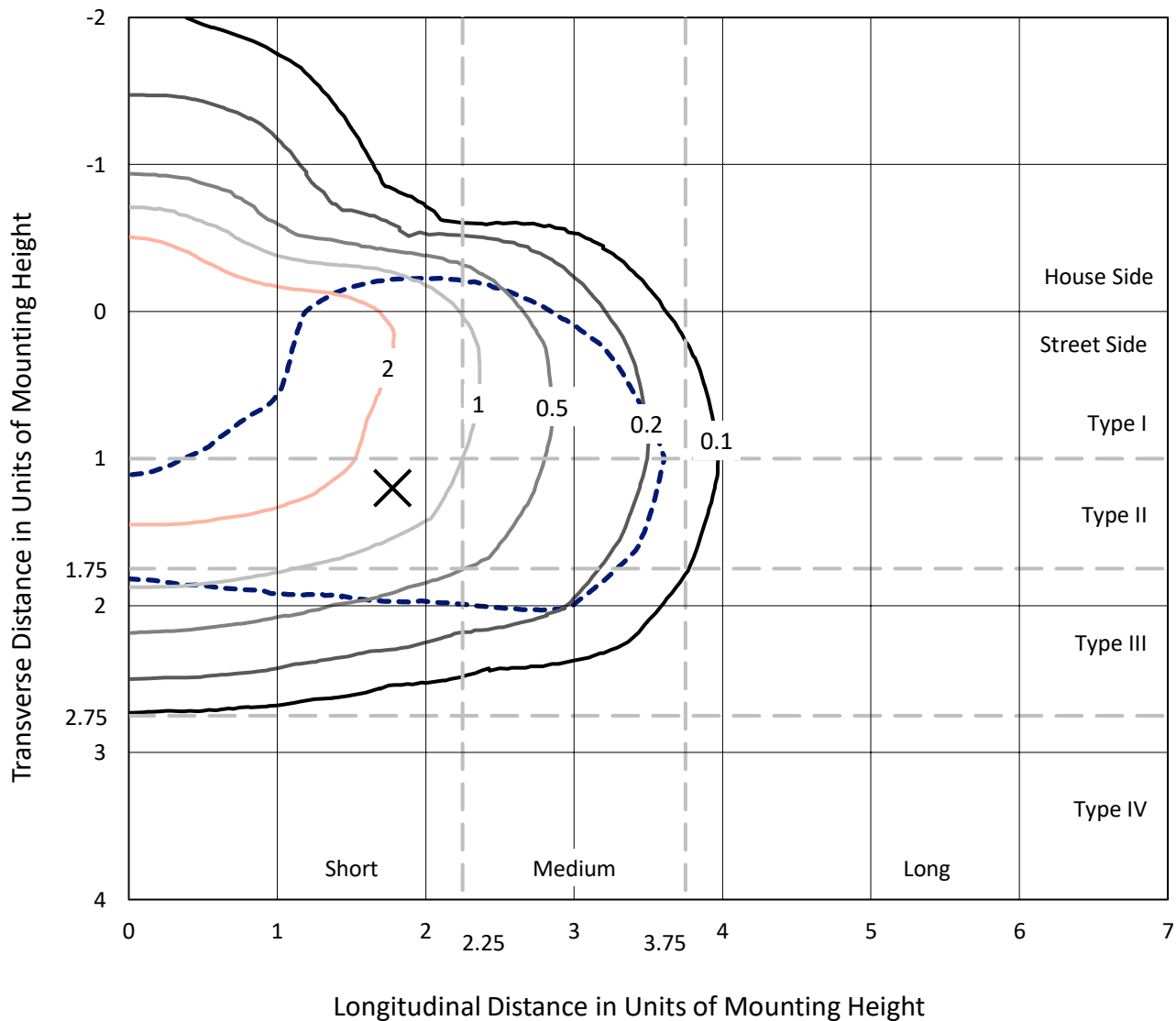
Lumens per Lamp: N/A
Luminaire Lumens: 18434.6 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

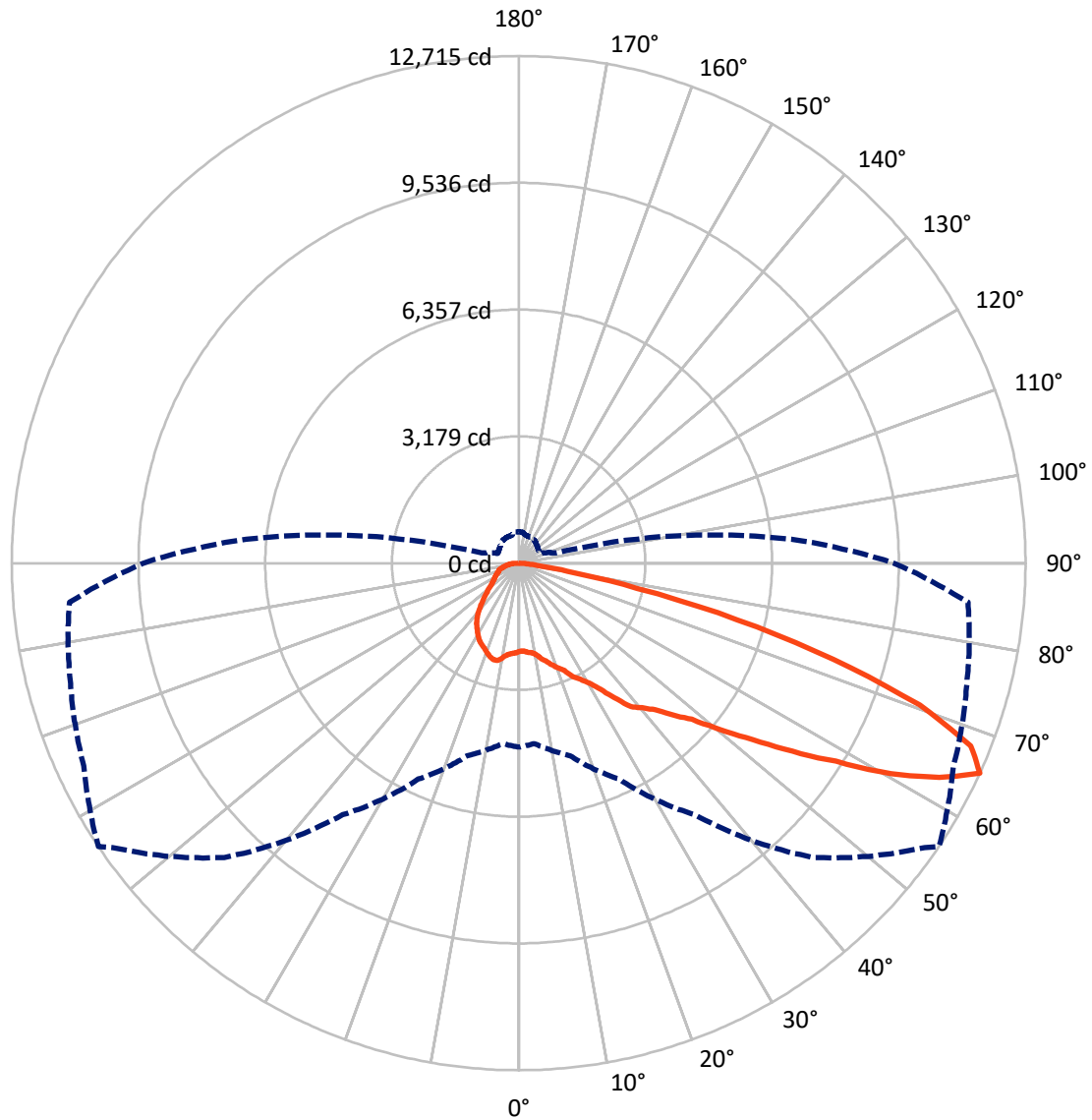
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4134.3 | 0.0 | 4134.3 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 14300.3 | 0.0 | 14300.3 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 18434.6 | 0.0 | 18434.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 219.3 | 1.2 |
| 10°-20° | 712.0 | 3.9 |
| 20°-30° | 1267.8 | 6.9 |
| 30°-40° | 1898.4 | 10.3 |
| 40°-50° | 2812.7 | 15.3 |
| 50°-60° | 4334.0 | 23.5 |
| 60°-70° | 4906.7 | 26.6 |
| 70°-80° | 2036.3 | 11.0 |
| 80°-90° | 247.4 | 1.3 |
| 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° | 18434.6 | 100.0 |
| 0°-180° | 18434.6 | 100.0 |

Coefficient of Utilization

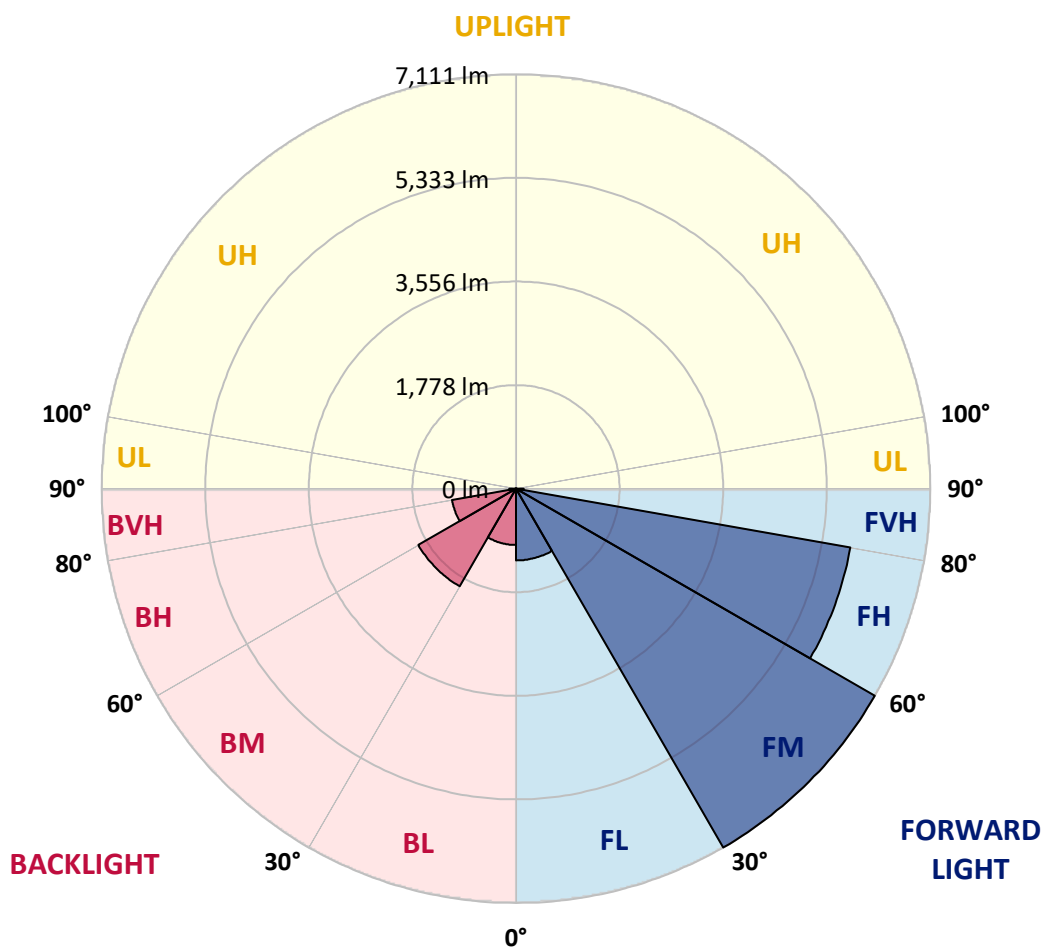


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1232.0 | 6.7 | | | |
| FM (30°-60°) | 7111.3 | 38.6 | | | |
| FH (60°-80°) | 5826.6 | 31.6 | | | G3/7500 |
| FVH (80°-90°) | 130.5 | 0.7 | | | G2/225 |
| BL (0°-30°) | 967.0 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1933.9 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 1116.4 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 116.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 |
| 2.5° | 2154.8 | 2166.4 | 2158.7 | 2181.8 | 2201.1 | 2201.1 | 2216.5 | 2205.0 | 2220.4 | 2241.6 |
| 5° | 2226.2 | 2179.9 | 2205.0 | 2216.5 | 2210.7 | 2220.4 | 2205.0 | 2243.5 | 2218.5 | 2259.0 |
| 7.5° | 2243.5 | 2260.9 | 2282.1 | 2262.8 | 2280.2 | 2270.5 | 2272.5 | 2266.7 | 2253.2 | 2286.0 |
| 10° | 2370.9 | 2345.8 | 2394.0 | 2365.1 | 2361.2 | 2357.4 | 2349.6 | 2320.7 | 2353.5 | 2355.4 |
| 12.5° | 2517.5 | 2494.3 | 2492.4 | 2469.2 | 2500.1 | 2444.2 | 2455.7 | 2440.3 | 2446.1 | 2453.8 |
| 15° | 2623.6 | 2613.9 | 2658.3 | 2631.3 | 2590.8 | 2565.7 | 2592.7 | 2550.3 | 2571.5 | 2567.6 |
| 17.5° | 2833.8 | 2831.9 | 2799.1 | 2754.8 | 2731.6 | 2694.9 | 2689.2 | 2671.8 | 2687.2 | 2679.5 |
| 20° | 2980.5 | 3001.7 | 3007.5 | 2955.4 | 2866.6 | 2826.1 | 2816.5 | 2803.0 | 2820.3 | 2814.6 |
| 22.5° | 3204.2 | 3171.4 | 3196.5 | 3105.8 | 3073.1 | 2976.6 | 2941.9 | 2922.6 | 3005.5 | 2984.3 |
| 25° | 3347.0 | 3381.7 | 3356.6 | 3325.8 | 3252.5 | 3132.9 | 3107.8 | 3150.2 | 3183.0 | 3159.9 |
| 27.5° | 3669.1 | 3634.4 | 3611.3 | 3518.7 | 3470.4 | 3345.1 | 3316.1 | 3300.7 | 3308.4 | 3321.9 |
| 30° | 3914.1 | 3933.4 | 3881.3 | 3815.8 | 3694.2 | 3566.9 | 3499.4 | 3485.9 | 3458.9 | 3435.7 |
| 32.5° | 4263.3 | 4234.4 | 4203.5 | 4161.1 | 4056.9 | 3889.1 | 3823.5 | 3773.3 | 3692.3 | 3584.3 |
| 35° | 4431.1 | 4514.1 | 4490.9 | 4377.1 | 4298.0 | 4234.4 | 4215.1 | 4137.9 | 4070.4 | 3900.6 |
| 37.5° | 4710.9 | 4745.6 | 4712.8 | 4676.1 | 4639.5 | 4572.0 | 4548.8 | 4570.0 | 4436.9 | 4157.2 |
| 40° | 4892.2 | 4965.5 | 5033.0 | 4930.8 | 4923.1 | 4936.6 | 4793.8 | 4768.7 | 4494.8 | 4348.2 |
| 42.5° | 5262.6 | 5293.4 | 5306.9 | 5303.1 | 5347.5 | 5347.5 | 5075.5 | 5021.4 | 4826.6 | 4707.0 |
| 45° | 5752.6 | 5777.6 | 5825.9 | 5860.6 | 5810.4 | 5835.5 | 5447.8 | 5426.6 | 5252.9 | 5229.8 |
| 47.5° | 6177.0 | 6236.8 | 6344.8 | 6447.0 | 6512.6 | 6427.8 | 6003.4 | 5852.9 | 5808.5 | 5947.4 |
| 50° | 6547.4 | 6476.0 | 6728.7 | 6832.9 | 7120.3 | 7261.1 | 6616.8 | 6557.0 | 6485.6 | 6751.8 |
| 52.5° | 6584.0 | 6680.5 | 7037.3 | 7245.7 | 7837.9 | 8098.4 | 7369.2 | 7344.1 | 7257.3 | 7564.0 |
| 55° | 6846.4 | 6834.8 | 7193.6 | 7645.0 | 8349.1 | 8787.0 | 8349.1 | 8333.7 | 8144.6 | 8435.9 |
| 57.5° | 6802.0 | 6919.7 | 7203.3 | 7834.1 | 8810.2 | 9525.9 | 9485.4 | 9379.3 | 9115.0 | 9352.3 |
| 60° | 6651.5 | 6682.4 | 7027.7 | 7828.3 | 9078.3 | 10284.0 | 10712.3 | 10733.5 | 10193.4 | 10382.4 |
| 62.5° | 5798.9 | 5870.2 | 6308.1 | 7212.9 | 8887.4 | 10806.8 | 11910.2 | 11835.0 | 11402.9 | 11186.8 |
| 65° | 4612.5 | 4541.1 | 4996.4 | 5974.4 | 7699.0 | 10436.4 | 12435.0 | 12714.7 | 12035.6 | 11640.2 |
| 67.5° | 2828.1 | 2810.7 | 3248.6 | 4110.9 | 5760.3 | 8881.6 | 12016.3 | 12234.3 | 11860.1 | 11543.7 |
| 70° | 1456.5 | 1412.1 | 1686.0 | 2293.7 | 3620.9 | 6516.5 | 10457.6 | 10671.8 | 11028.7 | 10353.5 |
| 72.5° | 679.0 | 669.4 | 816.0 | 1128.5 | 1844.2 | 3831.2 | 8098.4 | 8252.7 | 9005.0 | 8729.2 |
| 75° | 399.3 | 405.1 | 488.1 | 590.3 | 899.0 | 1805.6 | 5374.5 | 5673.5 | 6489.5 | 6290.8 |
| 77.5° | 299.0 | 299.0 | 347.2 | 410.9 | 524.7 | 698.3 | 2652.5 | 3048.0 | 3794.5 | 3412.6 |
| 80° | 219.9 | 223.8 | 266.2 | 308.7 | 364.6 | 360.7 | 1053.3 | 1234.6 | 1740.0 | 1487.3 |
| 82.5° | 171.7 | 177.5 | 206.4 | 229.6 | 256.6 | 218.0 | 432.1 | 464.9 | 715.7 | 569.1 |
| 85° | 119.6 | 123.5 | 162.0 | 156.3 | 156.3 | 121.5 | 179.4 | 189.1 | 283.6 | 270.1 |
| 87.5° | 28.9 | 32.8 | 79.1 | 86.8 | 65.6 | 36.7 | 55.9 | 63.7 | 102.2 | 117.7 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2212.7 | 0° | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 |
| 2251.3 | 2.5° | 2222.3 | 2230.0 | 2262.8 | 2245.5 | 2255.1 | 2214.6 | 2247.4 | 2220.4 | 2243.5 | 2232.0 |
| 2268.6 | 5° | 2284.1 | 2266.7 | 2286.0 | 2272.5 | 2272.5 | 2287.9 | 2311.1 | 2293.7 | 2328.4 | 2313.0 |
| 2282.1 | 7.5° | 2309.1 | 2311.1 | 2322.6 | 2324.6 | 2314.9 | 2363.1 | 2365.1 | 2359.3 | 2392.1 | 2384.4 |
| 2374.7 | 10° | 2370.9 | 2372.8 | 2394.0 | 2405.6 | 2395.9 | 2413.3 | 2394.0 | 2378.6 | 2376.6 | 2368.9 |
| 2448.0 | 12.5° | 2469.2 | 2488.5 | 2484.7 | 2494.3 | 2496.3 | 2422.9 | 2378.6 | 2303.3 | 2293.7 | 2303.3 |
| 2556.1 | 15° | 2559.9 | 2552.2 | 2556.1 | 2575.3 | 2494.3 | 2376.6 | 2297.6 | 2233.9 | 2237.8 | 2239.7 |
| 2696.9 | 17.5° | 2667.9 | 2673.7 | 2679.5 | 2590.8 | 2442.2 | 2303.3 | 2233.9 | 2233.9 | 2214.6 | 2222.3 |
| 2795.3 | 20° | 2791.4 | 2768.3 | 2718.1 | 2592.7 | 2351.6 | 2218.5 | 2197.2 | 2197.2 | 2174.1 | 2158.7 |
| 2901.4 | 22.5° | 2887.9 | 2841.6 | 2766.3 | 2532.9 | 2270.5 | 2185.7 | 2133.6 | 2096.9 | 2069.9 | 2039.1 |
| 3019.0 | 25° | 2949.6 | 2924.5 | 2777.9 | 2471.2 | 2210.7 | 2098.9 | 2021.7 | 1965.8 | 1931.0 | 1890.5 |
| 3111.6 | 27.5° | 3044.1 | 2995.9 | 2810.7 | 2399.8 | 2145.2 | 2012.0 | 1892.4 | 1805.6 | 1740.0 | 1697.6 |
| 3252.5 | 30° | 3171.4 | 3102.0 | 2787.5 | 2297.6 | 2044.8 | 1861.6 | 1720.8 | 1608.9 | 1533.6 | 1498.9 |
| 3385.6 | 32.5° | 3275.6 | 3184.9 | 2768.3 | 2205.0 | 1933.0 | 1709.2 | 1522.1 | 1408.2 | 1365.8 | 1321.4 |
| 3609.3 | 35° | 3474.3 | 3294.9 | 2754.8 | 2152.9 | 1832.6 | 1556.8 | 1360.0 | 1261.6 | 1207.6 | 1142.0 |
| 3742.4 | 37.5° | 3626.7 | 3485.9 | 2722.0 | 2044.8 | 1703.4 | 1408.2 | 1236.6 | 1147.8 | 1066.8 | 997.3 |
| 4051.1 | 40° | 3865.9 | 3752.1 | 2723.9 | 1892.4 | 1551.0 | 1280.9 | 1140.1 | 1047.5 | 945.3 | 885.5 |
| 4508.3 | 42.5° | 4315.4 | 4014.5 | 2735.5 | 1770.9 | 1379.3 | 1176.7 | 1053.3 | 943.3 | 841.1 | 790.9 |
| 5029.2 | 45° | 4867.1 | 4375.2 | 2664.1 | 1661.0 | 1203.8 | 1078.4 | 949.1 | 839.2 | 773.6 | 736.9 |
| 5737.1 | 47.5° | 5501.8 | 4728.2 | 2567.6 | 1454.5 | 1057.1 | 974.2 | 852.7 | 789.0 | 740.8 | 719.6 |
| 6649.6 | 50° | 6211.7 | 5233.6 | 2540.6 | 1265.5 | 943.3 | 885.5 | 806.4 | 758.1 | 725.3 | 700.3 |
| 7677.8 | 52.5° | 7126.1 | 5822.0 | 2486.6 | 1070.6 | 844.9 | 814.1 | 789.0 | 756.2 | 727.3 | 706.0 |
| 8636.6 | 55° | 8000.0 | 6474.1 | 2428.7 | 910.5 | 775.5 | 779.4 | 792.9 | 763.9 | 738.8 | 706.0 |
| 9711.1 | 57.5° | 8983.8 | 7139.6 | 2214.6 | 792.9 | 723.4 | 762.0 | 789.0 | 756.2 | 731.1 | 706.0 |
| 10810.7 | 60° | 9591.5 | 7513.8 | 1796.0 | 690.6 | 677.1 | 729.2 | 765.9 | 731.1 | 704.1 | 713.8 |
| 11316.1 | 62.5° | 9838.4 | 7317.1 | 1354.2 | 627.0 | 644.3 | 684.8 | 729.2 | 715.7 | 696.4 | 733.1 |
| 11310.3 | 65° | 9417.9 | 6863.7 | 968.4 | 572.9 | 599.9 | 640.5 | 696.4 | 711.8 | 717.6 | 789.0 |
| 10388.2 | 67.5° | 8380.0 | 5976.3 | 711.8 | 528.6 | 553.7 | 613.5 | 719.6 | 744.6 | 740.8 | 829.5 |
| 8717.6 | 70° | 6705.5 | 4674.2 | 555.6 | 491.9 | 536.3 | 634.7 | 752.3 | 752.3 | 725.3 | 829.5 |
| 6649.6 | 72.5° | 4878.7 | 3294.9 | 478.4 | 449.5 | 491.9 | 582.6 | 748.5 | 746.6 | 711.8 | 758.1 |
| 4234.4 | 75° | 2953.4 | 1917.5 | 422.5 | 407.0 | 422.5 | 499.6 | 715.7 | 704.1 | 655.9 | 652.0 |
| 2037.1 | 77.5° | 1471.9 | 964.5 | 345.3 | 360.7 | 368.5 | 418.6 | 628.9 | 646.2 | 580.7 | 565.2 |
| 804.4 | 80° | 621.2 | 420.5 | 287.4 | 310.6 | 310.6 | 353.0 | 522.8 | 534.4 | 482.3 | 453.3 |
| 318.3 | 82.5° | 283.6 | 241.1 | 245.0 | 270.1 | 252.7 | 273.9 | 414.8 | 428.3 | 391.6 | 343.4 |
| 135.0 | 85° | 119.6 | 137.0 | 187.1 | 212.2 | 187.1 | 177.5 | 285.5 | 300.9 | 254.6 | 212.2 |
| 57.9 | 87.5° | 54.0 | 75.2 | 117.7 | 154.3 | 94.5 | 83.0 | 152.4 | 158.2 | 127.3 | 94.5 |
| 0.0 | 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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| <u>180°</u> |
|-------------|
| 2212.7 |
| 2210.7 |
| 2291.8 |
| 2372.8 |
| 2368.9 |
| 2307.2 |
| 2266.7 |
| 2224.2 |
| 2135.5 |
| 2021.7 |
| 1898.2 |
| 1716.9 |
| 1518.2 |
| 1319.5 |
| 1136.2 |
| 999.3 |
| 891.2 |
| 794.8 |
| 744.6 |
| 715.7 |
| 704.1 |
| 704.1 |
| 704.1 |
| 704.1 |
| 706.0 |
| 723.4 |
| 789.0 |
| 835.3 |
| 812.2 |
| 731.1 |
| 644.3 |
| 555.6 |
| 443.7 |
| 335.7 |
| 214.1 |
| 88.7 |
| 0.0 |

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