

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: P638266

Luminaire Tested: **IFLD-L-SA7B-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638266
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20136 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

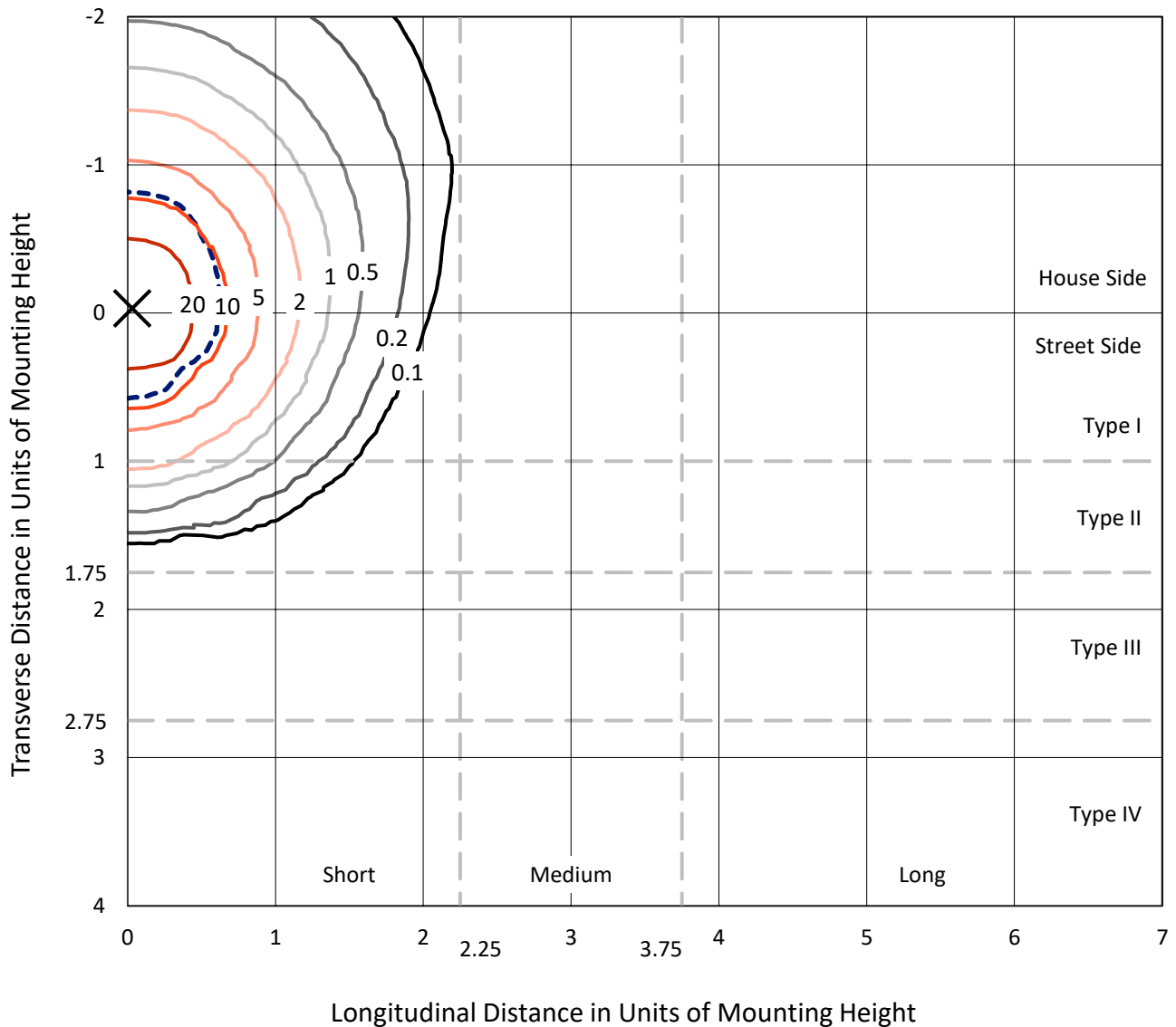
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

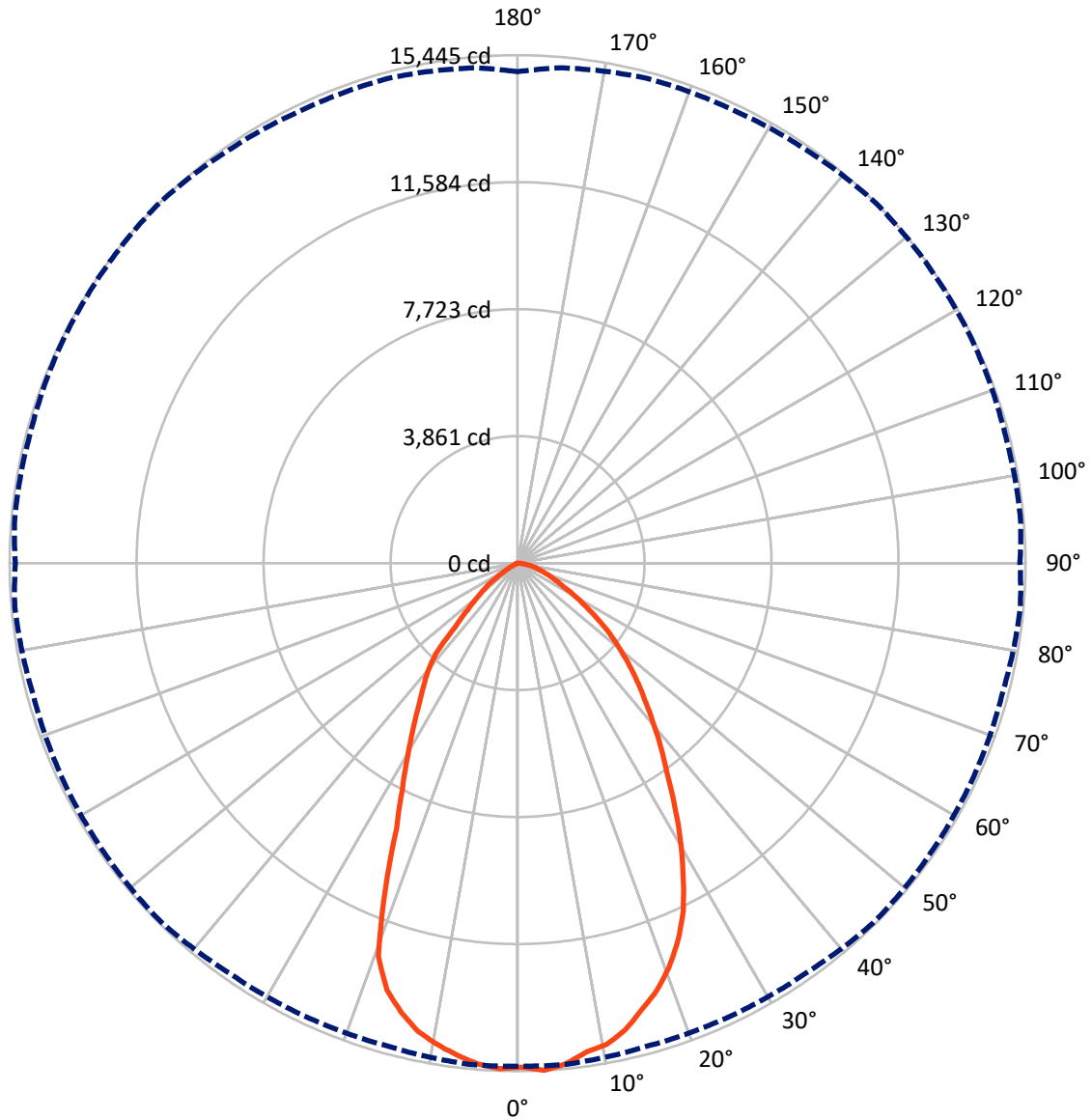
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.3 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 | 11925.6 | 0.0 | 11925.6 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 8210.4 | 0.0 | 8210.4 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 20136.0 | 0.0 | 20136.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1437.1 | 7.1 |
| 10°-20° | 3853.7 | 19.1 |
| 20°-30° | 4699.8 | 23.3 |
| 30°-40° | 4290.8 | 21.3 |
| 40°-50° | 3100.9 | 15.4 |
| 50°-60° | 1693.1 | 8.4 |
| 60°-70° | 700.0 | 3.5 |
| 70°-80° | 283.5 | 1.4 |
| 80°-90° | 77.1 | 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° | 20136.0 | 100.0 |
| 0°-180° | 20136.0 | 100.0 |



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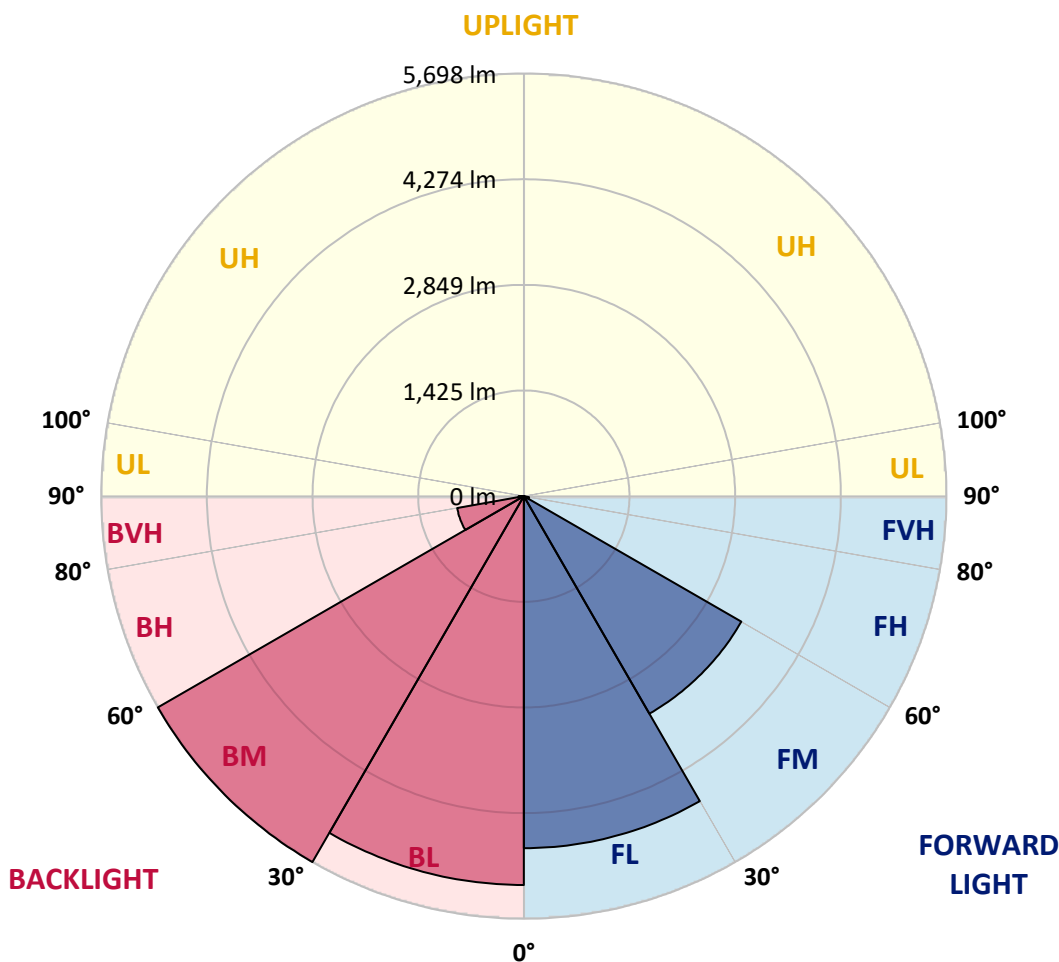
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4746.8 | 23.6 | | | |
| FM (30°-60°) | 3386.5 | 16.8 | | | |
| FH (60°-80°) | 71.0 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 6.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 5243.7 | 26.0 | B5 | | |
| BM (30°-60°) | 5698.3 | 28.3 | B4/8500 | | |
| BH (60°-80°) | 912.6 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 70.9 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 |
| 2.5° | 15295.1 | 15315.0 | 15207.2 | 15218.6 | 15238.4 | 15383.0 | 15346.2 | 15312.1 | 15263.9 | 15346.2 |
| 5° | 15275.3 | 15286.6 | 15173.2 | 15133.5 | 15150.5 | 15280.9 | 15161.8 | 15161.8 | 15150.5 | 15136.3 |
| 7.5° | 15122.1 | 15127.8 | 15039.9 | 14969.0 | 15014.4 | 15073.9 | 14986.0 | 15028.6 | 14966.2 | 15014.4 |
| 10° | 14892.5 | 14855.6 | 14750.7 | 14730.8 | 14781.9 | 14838.6 | 14779.0 | 14818.7 | 14762.0 | 14798.9 |
| 12.5° | 14555.0 | 14498.3 | 14413.2 | 14387.7 | 14475.6 | 14552.2 | 14504.0 | 14481.3 | 14407.6 | 14498.3 |
| 15° | 13253.5 | 13211.0 | 13403.8 | 13741.2 | 14044.6 | 14109.8 | 14058.8 | 14081.5 | 13928.4 | 13953.9 |
| 17.5° | 10908.5 | 10829.1 | 11036.1 | 11835.7 | 12975.6 | 13576.8 | 13531.4 | 13383.9 | 13157.1 | 13208.1 |
| 20° | 9913.2 | 9890.5 | 9867.8 | 10057.8 | 10854.6 | 12677.9 | 12740.3 | 12366.0 | 12042.7 | 11971.8 |
| 22.5° | 9351.7 | 9343.2 | 9320.5 | 9363.1 | 9572.9 | 10744.0 | 11458.6 | 11112.6 | 10897.1 | 10877.3 |
| 25° | 8838.5 | 8824.3 | 8756.3 | 8810.1 | 8810.1 | 8878.2 | 9794.1 | 10003.9 | 9813.9 | 9791.3 |
| 27.5° | 8316.8 | 8291.2 | 8279.9 | 8305.4 | 8175.0 | 7715.6 | 7948.1 | 8971.8 | 8872.5 | 8878.2 |
| 30° | 7752.5 | 7744.0 | 7712.8 | 7766.7 | 7364.0 | 6794.0 | 6646.6 | 8036.0 | 8055.9 | 8050.2 |
| 32.5° | 6913.1 | 6950.0 | 7091.8 | 7151.3 | 6487.8 | 6017.1 | 5770.4 | 6952.8 | 7358.3 | 7349.8 |
| 35° | 5021.8 | 5021.8 | 5484.0 | 6343.2 | 5685.3 | 5330.9 | 5197.6 | 5895.2 | 6669.3 | 6697.6 |
| 37.5° | 4128.6 | 4142.8 | 4233.5 | 4624.8 | 4905.6 | 4780.8 | 4741.1 | 4962.3 | 5784.6 | 5829.9 |
| 40° | 3714.6 | 3714.6 | 3714.6 | 3553.0 | 3544.5 | 4307.2 | 4284.6 | 4213.7 | 4996.3 | 5095.5 |
| 42.5° | 3337.5 | 3346.0 | 3351.7 | 2943.3 | 2716.5 | 3723.1 | 3672.1 | 3564.3 | 4290.2 | 4406.5 |
| 45° | 2949.0 | 2963.2 | 2980.2 | 2461.3 | 2362.0 | 2679.6 | 3107.8 | 2988.7 | 3592.7 | 3743.0 |
| 47.5° | 1800.6 | 1823.3 | 2208.9 | 2087.0 | 2098.3 | 2067.1 | 2535.0 | 2515.2 | 2946.2 | 3158.8 |
| 50° | 1216.5 | 1225.0 | 1261.8 | 1324.2 | 1800.6 | 1624.8 | 1794.9 | 2081.3 | 2237.3 | 2560.5 |
| 52.5° | 1020.8 | 1035.0 | 944.2 | 859.2 | 1182.4 | 1270.3 | 1253.3 | 1545.4 | 1607.8 | 2007.6 |
| 55° | 717.4 | 762.8 | 720.2 | 711.7 | 672.0 | 986.8 | 949.9 | 1188.1 | 1227.8 | 1525.5 |
| 57.5° | 73.7 | 85.1 | 147.5 | 530.3 | 439.5 | 558.6 | 677.7 | 870.5 | 910.2 | 1125.7 |
| 60° | 5.7 | 5.7 | 14.2 | 73.7 | 320.4 | 334.6 | 467.9 | 535.9 | 612.5 | 785.5 |
| 62.5° | 0.0 | 2.8 | 5.7 | 11.3 | 51.0 | 178.6 | 235.4 | 280.7 | 368.6 | 507.6 |
| 65° | 0.0 | 0.0 | 2.8 | 8.5 | 11.3 | 68.1 | 90.7 | 147.5 | 201.3 | 314.7 |
| 67.5° | 0.0 | 0.0 | 2.8 | 5.7 | 8.5 | 17.0 | 31.2 | 53.9 | 107.8 | 178.6 |
| 70° | 0.0 | 0.0 | 2.8 | 5.7 | 8.5 | 14.2 | 22.7 | 34.0 | 48.2 | 96.4 |
| 72.5° | 0.0 | 0.0 | 2.8 | 2.8 | 5.7 | 14.2 | 17.0 | 22.7 | 34.0 | 48.2 |
| 75° | 0.0 | 0.0 | 2.8 | 2.8 | 8.5 | 17.0 | 14.2 | 17.0 | 22.7 | 31.2 |
| 77.5° | 0.0 | 0.0 | 2.8 | 5.7 | 8.5 | 17.0 | 14.2 | 17.0 | 17.0 | 19.8 |
| 80° | 0.0 | 0.0 | 2.8 | 5.7 | 11.3 | 19.8 | 17.0 | 17.0 | 14.2 | 14.2 |
| 82.5° | 0.0 | 0.0 | 2.8 | 8.5 | 11.3 | 25.5 | 25.5 | 22.7 | 11.3 | 8.5 |
| 85° | 0.0 | 0.0 | 5.7 | 11.3 | 17.0 | 28.4 | 28.4 | 22.7 | 8.5 | 5.7 |
| 87.5° | 0.0 | 0.0 | 5.7 | 8.5 | 14.2 | 19.8 | 28.4 | 22.7 | 8.5 | 2.8 |
| 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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CATALOG NUMBER: IFLD-L-SA7B-827-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15323.5 | 0° | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 | 15323.5 |
| 15275.3 | 2.5° | 15351.8 | 15334.8 | 15391.5 | 15414.2 | 15445.4 | 15326.3 | 15252.6 | 15255.4 | 15119.3 |
| 15102.3 | 5° | 15193.0 | 15195.9 | 15269.6 | 15263.9 | 15295.1 | 15229.9 | 15201.5 | 15153.3 | 15034.2 |
| 14884.0 | 7.5° | 14991.7 | 14966.2 | 15037.1 | 15091.0 | 15011.6 | 15056.9 | 14991.7 | 15014.4 | 14943.5 |
| 14691.1 | 10° | 14835.7 | 14776.2 | 14841.4 | 14878.3 | 14881.1 | 14835.7 | 14773.4 | 14713.8 | 14688.3 |
| 14390.6 | 12.5° | 14489.8 | 14413.2 | 14523.8 | 14574.9 | 14566.4 | 14478.5 | 14407.6 | 14421.8 | 14339.5 |
| 13863.1 | 15° | 14013.4 | 14016.3 | 14095.7 | 14143.9 | 14098.5 | 14078.6 | 14084.3 | 14050.3 | 13979.4 |
| 13134.4 | 17.5° | 13284.7 | 13327.2 | 13537.1 | 13653.3 | 13678.8 | 13639.1 | 13619.3 | 13579.6 | 13508.7 |
| 11971.8 | 20° | 12071.1 | 12326.3 | 12700.6 | 13060.7 | 13131.6 | 13120.2 | 13049.3 | 13032.3 | 12992.6 |
| 10820.6 | 22.5° | 11004.9 | 11194.9 | 11628.7 | 12190.2 | 12479.4 | 12507.7 | 12422.7 | 12397.2 | 12354.6 |
| 9791.3 | 25° | 9901.8 | 10106.0 | 10497.3 | 11107.0 | 11705.3 | 11827.2 | 11813.0 | 11736.5 | 11691.1 |
| 8878.2 | 27.5° | 8971.8 | 9175.9 | 9530.4 | 10080.5 | 10721.3 | 11112.6 | 11149.5 | 11027.6 | 11024.7 |
| 8064.4 | 30° | 8132.4 | 8413.2 | 8682.5 | 9130.6 | 9751.6 | 10338.5 | 10400.9 | 10315.8 | 10324.3 |
| 7318.6 | 32.5° | 7474.6 | 7707.1 | 7936.8 | 8237.4 | 8753.4 | 9436.8 | 9680.7 | 9601.3 | 9570.1 |
| 6697.6 | 35° | 6802.6 | 6961.3 | 7196.7 | 7471.8 | 7823.4 | 8501.1 | 8923.6 | 8864.0 | 8832.8 |
| 5858.3 | 37.5° | 6036.9 | 6309.2 | 6479.3 | 6788.4 | 7063.4 | 7602.2 | 8197.7 | 8189.2 | 8123.9 |
| 5143.7 | 40° | 5251.5 | 5537.9 | 5795.9 | 6107.8 | 6320.5 | 6748.7 | 7409.4 | 7406.5 | 7415.0 |
| 4403.7 | 42.5° | 4539.8 | 4803.5 | 5115.4 | 5455.7 | 5659.8 | 5971.7 | 6680.6 | 6720.3 | 6768.5 |
| 3794.0 | 45° | 3896.1 | 4134.3 | 4423.5 | 4837.5 | 5084.2 | 5262.8 | 5892.3 | 6073.8 | 6071.0 |
| 3249.6 | 47.5° | 3317.6 | 3541.6 | 3785.5 | 4188.1 | 4502.9 | 4664.5 | 5186.3 | 5444.3 | 5427.3 |
| 2665.4 | 50° | 2784.5 | 2983.0 | 3238.2 | 3530.3 | 3952.8 | 4094.6 | 4483.1 | 4823.3 | 4797.8 |
| 2123.8 | 52.5° | 2240.1 | 2515.2 | 2730.7 | 2997.2 | 3442.4 | 3581.3 | 3881.9 | 4213.7 | 4193.8 |
| 1593.6 | 55° | 1746.7 | 2013.3 | 2274.1 | 2503.8 | 2878.1 | 3085.1 | 3300.6 | 3640.9 | 3635.2 |
| 1247.7 | 57.5° | 1321.4 | 1613.4 | 1860.1 | 2078.5 | 2376.2 | 2631.4 | 2804.4 | 3113.5 | 3153.2 |
| 853.5 | 60° | 978.3 | 1202.3 | 1468.8 | 1712.7 | 1948.0 | 2211.8 | 2328.0 | 2631.4 | 2648.4 |
| 584.1 | 62.5° | 666.4 | 913.1 | 1173.9 | 1395.1 | 1570.9 | 1843.1 | 1948.0 | 2197.6 | 2228.8 |
| 374.3 | 65° | 462.2 | 621.0 | 918.7 | 1077.5 | 1293.0 | 1525.5 | 1630.5 | 1828.9 | 1891.3 |
| 215.5 | 67.5° | 306.2 | 442.4 | 717.4 | 862.0 | 1074.7 | 1233.5 | 1366.7 | 1528.4 | 1596.4 |
| 136.1 | 70° | 167.3 | 326.1 | 513.2 | 680.5 | 864.9 | 1018.0 | 1148.4 | 1278.8 | 1338.4 |
| 62.4 | 72.5° | 113.4 | 218.3 | 357.3 | 538.8 | 697.6 | 847.8 | 964.1 | 1060.5 | 1063.3 |
| 36.9 | 75° | 56.7 | 147.5 | 272.2 | 416.8 | 544.4 | 691.9 | 796.8 | 853.5 | 785.5 |
| 22.7 | 77.5° | 34.0 | 107.8 | 221.2 | 334.6 | 442.4 | 558.6 | 618.2 | 649.3 | 538.8 |
| 17.0 | 80° | 19.8 | 76.6 | 173.0 | 266.5 | 306.2 | 411.2 | 467.9 | 476.4 | 360.1 |
| 11.3 | 82.5° | 14.2 | 56.7 | 136.1 | 195.7 | 187.1 | 289.2 | 351.6 | 340.3 | 229.7 |
| 8.5 | 85° | 8.5 | 39.7 | 85.1 | 121.9 | 113.4 | 190.0 | 204.2 | 209.8 | 133.3 |
| 5.7 | 87.5° | 5.7 | 22.7 | 45.4 | 65.2 | 53.9 | 82.2 | 82.2 | 99.2 | 65.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



180°
15323.5
14943.5
15005.9
14824.4
14574.9
14268.6
13908.5
13477.5
12901.9
12343.3
11642.9
11019.1
10281.8
9572.9
8790.3
8177.8
7415.0
6743.0
6076.6
5433.0
4820.5
4236.4
3649.4
3136.2
2674.0
2234.4
1877.2
1587.9
1315.7
1037.8
734.4
518.9
337.4
212.7
121.9
56.7
0.0

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