

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: McGRAW-EDISON

Report Number: P940744

Luminaire Tested: **GALN-SB3D-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15510 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

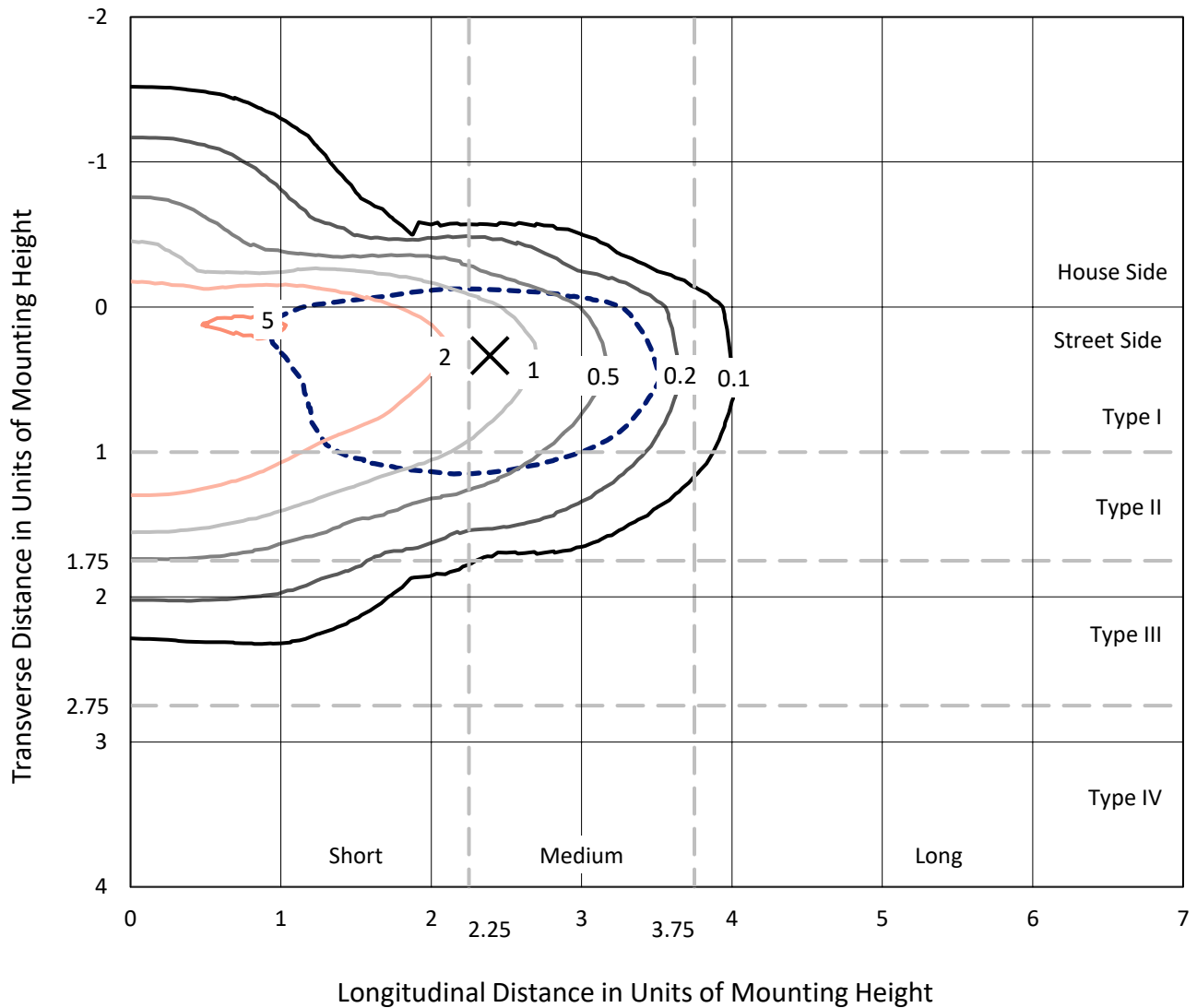
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

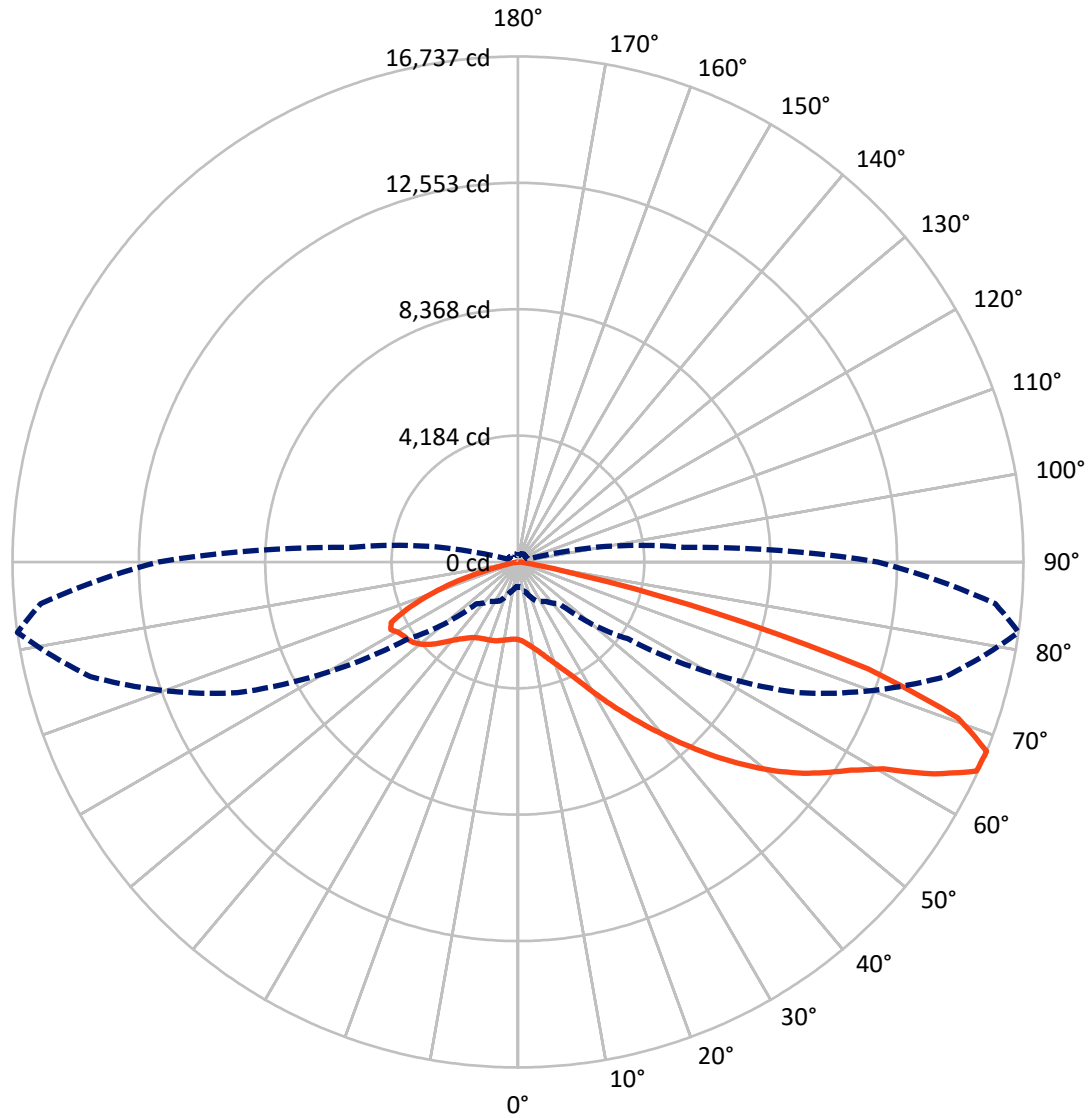
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2809.5 | 0.0 | 2809.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 12700.5 | 0.0 | 12700.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 15510.0 | 0.0 | 15510.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 228.9 | 1.5 |
| 10°-20° | 594.9 | 3.8 |
| 20°-30° | 952.8 | 6.1 |
| 30°-40° | 1684.8 | 10.9 |
| 40°-50° | 2952.0 | 19.0 |
| 50°-60° | 3937.2 | 25.4 |
| 60°-70° | 3665.3 | 23.6 |
| 70°-80° | 1406.7 | 9.1 |
| 80°-90° | 87.4 | 0.6 |
| 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° | 15510.0 | 100.0 |
| 0°-180° | 15510.0 | 100.0 |

Coefficient of Utilization



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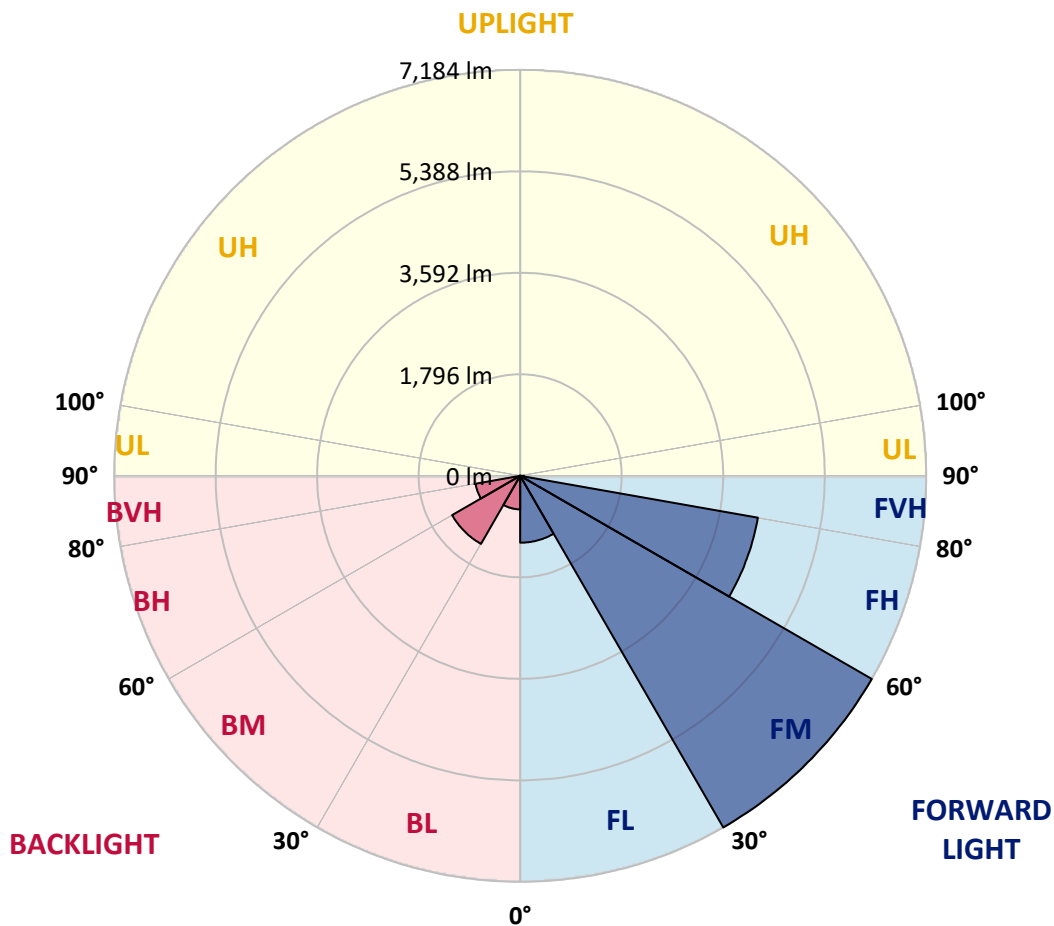
CATALOG NUMBER: GALN-SB3D-950-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1183.2 | 7.6 | | | |
| FM (30°-60°) | 7183.6 | 46.3 | | | |
| FH (60°-80°) | 4270.1 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 63.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 593.4 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1390.4 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 801.9 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 |
| 2.5° | 2715.8 | 2731.4 | 2722.5 | 2718.0 | 2710.2 | 2699.0 | 2690.1 | 2662.2 | 2633.1 | 2614.1 |
| 5° | 2770.5 | 2786.1 | 2785.0 | 2789.5 | 2795.1 | 2798.4 | 2796.2 | 2764.9 | 2723.6 | 2691.2 |
| 7.5° | 2723.6 | 2741.5 | 2756.0 | 2778.3 | 2817.4 | 2858.7 | 2878.8 | 2872.1 | 2829.7 | 2785.0 |
| 10° | 2590.7 | 2609.7 | 2644.3 | 2696.8 | 2779.4 | 2868.8 | 2943.6 | 2978.2 | 2951.4 | 2902.3 |
| 12.5° | 2347.3 | 2366.2 | 2434.4 | 2548.3 | 2686.7 | 2842.0 | 2984.9 | 3077.6 | 3084.3 | 3035.1 |
| 15° | 2073.7 | 2092.7 | 2165.2 | 2308.2 | 2519.2 | 2768.3 | 3007.2 | 3182.5 | 3241.7 | 3199.3 |
| 17.5° | 1903.9 | 1920.7 | 1975.4 | 2090.4 | 2310.4 | 2620.8 | 2999.4 | 3294.2 | 3429.3 | 3395.8 |
| 20° | 1852.6 | 1867.1 | 1892.8 | 1973.2 | 2156.3 | 2467.9 | 2948.0 | 3399.2 | 3631.4 | 3612.5 |
| 22.5° | 1907.3 | 1920.7 | 1928.5 | 1964.2 | 2079.3 | 2367.4 | 2883.3 | 3506.4 | 3865.9 | 3868.2 |
| 25° | 2033.5 | 2046.9 | 2037.9 | 2060.3 | 2110.5 | 2336.1 | 2858.7 | 3632.6 | 4160.8 | 4185.3 |
| 27.5° | 2241.2 | 2242.3 | 2221.1 | 2220.0 | 2227.8 | 2383.0 | 2884.4 | 3767.7 | 4532.6 | 4578.4 |
| 30° | 2657.7 | 2640.9 | 2559.4 | 2471.2 | 2431.0 | 2523.7 | 2955.9 | 3927.4 | 4971.5 | 5053.0 |
| 32.5° | 3299.8 | 3275.2 | 3125.6 | 2914.5 | 2702.4 | 2750.4 | 3084.3 | 4109.4 | 5449.4 | 5596.8 |
| 35° | 3996.6 | 3989.9 | 3833.6 | 3519.8 | 3149.0 | 3073.1 | 3293.1 | 4348.4 | 5970.9 | 6205.4 |
| 37.5° | 4644.3 | 4640.9 | 4551.6 | 4182.0 | 3730.8 | 3523.1 | 3628.1 | 4661.0 | 6529.2 | 6868.7 |
| 40° | 5236.1 | 5246.2 | 5156.8 | 4826.3 | 4371.8 | 4100.5 | 4083.7 | 5047.4 | 7150.1 | 7591.2 |
| 42.5° | 5747.6 | 5758.7 | 5668.3 | 5423.7 | 5005.0 | 4739.2 | 4643.2 | 5520.9 | 7756.5 | 8367.3 |
| 45° | 6094.8 | 6164.1 | 6150.7 | 5955.3 | 5654.9 | 5379.1 | 5315.4 | 6114.9 | 8447.7 | 9190.3 |
| 47.5° | 6193.1 | 6256.8 | 6357.3 | 6384.1 | 6200.9 | 5929.6 | 6005.5 | 6830.7 | 9146.7 | 10014.4 |
| 50° | 5950.8 | 6010.0 | 6218.8 | 6496.8 | 6624.1 | 6540.4 | 6676.6 | 7597.9 | 9862.5 | 10836.3 |
| 52.5° | 5472.9 | 5533.2 | 5796.7 | 6236.7 | 6755.9 | 7019.5 | 7350.0 | 8353.9 | 10556.0 | 11614.6 |
| 55° | 4781.6 | 4845.3 | 5183.6 | 5681.7 | 6504.7 | 7217.1 | 7911.7 | 9108.8 | 11191.4 | 12314.8 |
| 57.5° | 3841.4 | 3888.3 | 4240.0 | 4936.8 | 5872.6 | 7020.6 | 8326.0 | 9932.9 | 11789.9 | 13002.6 |
| 60° | 2503.6 | 2544.9 | 2953.6 | 3730.8 | 4825.2 | 6364.0 | 8408.6 | 10851.9 | 12585.0 | 13897.1 |
| 62.5° | 1665.0 | 1692.9 | 1935.2 | 2505.8 | 3398.1 | 5103.2 | 7925.1 | 11585.6 | 13750.8 | 15453.7 |
| 65° | 1142.4 | 1170.3 | 1412.6 | 1810.1 | 2195.4 | 3375.7 | 6534.8 | 11488.4 | 14807.2 | 16689.9 |
| 67.5° | 815.2 | 838.6 | 1044.1 | 1419.3 | 1589.0 | 1960.9 | 4429.9 | 10246.7 | 14655.3 | 16736.8 |
| 70° | 584.0 | 597.4 | 767.2 | 1105.5 | 1263.0 | 1178.1 | 2463.4 | 7836.9 | 12831.8 | 15454.9 |
| 72.5° | 408.7 | 413.2 | 532.7 | 842.0 | 1017.3 | 859.8 | 1172.5 | 5224.9 | 9705.1 | 12130.5 |
| 75° | 276.9 | 282.5 | 358.5 | 617.5 | 816.3 | 656.6 | 620.9 | 2801.8 | 5697.3 | 6714.6 |
| 77.5° | 169.7 | 172.0 | 231.2 | 422.1 | 610.8 | 500.3 | 399.8 | 1187.0 | 2204.3 | 2164.1 |
| 80° | 96.0 | 96.0 | 147.4 | 262.4 | 416.5 | 322.7 | 280.3 | 504.7 | 697.9 | 613.1 |
| 82.5° | 53.6 | 54.7 | 107.2 | 163.0 | 275.8 | 191.0 | 154.1 | 233.4 | 301.5 | 266.9 |
| 85° | 22.3 | 24.6 | 65.9 | 77.1 | 131.8 | 94.9 | 62.5 | 98.3 | 111.7 | 99.4 |
| 87.5° | 2.2 | 3.4 | 20.1 | 14.5 | 15.6 | 19.0 | 8.9 | 19.0 | 15.6 | 15.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2569.5 | 0° | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 | 2569.5 |
| 2607.4 | 2.5° | 2586.2 | 2569.5 | 2527.0 | 2477.9 | 2413.1 | 2381.9 | 2339.4 | 2310.4 | 2285.8 | 2288.1 |
| 2672.2 | 5° | 2636.5 | 2594.0 | 2499.1 | 2380.8 | 2233.4 | 2128.4 | 2016.7 | 1939.7 | 1877.1 | 1863.7 |
| 2761.6 | 7.5° | 2705.7 | 2638.7 | 2472.3 | 2259.0 | 2010.0 | 1821.3 | 1652.7 | 1544.4 | 1467.3 | 1442.8 |
| 2869.9 | 10° | 2795.1 | 2697.9 | 2437.7 | 2106.1 | 1747.6 | 1507.5 | 1326.6 | 1241.7 | 1189.3 | 1171.4 |
| 2997.2 | 12.5° | 2898.9 | 2766.0 | 2391.9 | 1919.6 | 1477.4 | 1246.2 | 1131.2 | 1088.8 | 1072.0 | 1066.4 |
| 3153.5 | 15° | 3029.6 | 2850.9 | 2322.7 | 1698.5 | 1248.4 | 1086.5 | 1037.4 | 1031.8 | 1034.0 | 1031.8 |
| 3341.1 | 17.5° | 3184.8 | 2943.6 | 2209.9 | 1470.7 | 1094.3 | 1005.0 | 987.1 | 991.6 | 997.2 | 996.1 |
| 3551.0 | 20° | 3354.5 | 3035.1 | 2065.9 | 1268.5 | 989.4 | 946.9 | 936.9 | 941.4 | 945.8 | 943.6 |
| 3793.4 | 22.5° | 3547.7 | 3133.4 | 1906.2 | 1111.1 | 919.0 | 893.3 | 882.2 | 883.3 | 883.3 | 878.8 |
| 4100.5 | 25° | 3778.8 | 3241.7 | 1738.7 | 999.4 | 865.4 | 845.3 | 831.9 | 827.5 | 820.8 | 807.4 |
| 4473.4 | 27.5° | 4054.7 | 3356.7 | 1577.9 | 921.3 | 823.0 | 804.0 | 788.4 | 777.2 | 760.5 | 738.1 |
| 4921.2 | 30° | 4365.1 | 3496.3 | 1441.6 | 872.1 | 789.5 | 770.5 | 752.6 | 735.9 | 711.3 | 683.4 |
| 5436.0 | 32.5° | 4730.3 | 3646.0 | 1342.3 | 839.7 | 759.3 | 739.2 | 718.0 | 697.9 | 671.1 | 643.2 |
| 6014.4 | 35° | 5165.8 | 3826.9 | 1284.2 | 817.4 | 735.9 | 709.1 | 685.6 | 663.3 | 643.2 | 618.6 |
| 6643.1 | 37.5° | 5638.1 | 4018.9 | 1266.3 | 806.2 | 720.3 | 678.9 | 652.1 | 636.5 | 634.3 | 619.8 |
| 7323.2 | 40° | 6155.1 | 4246.7 | 1279.7 | 799.5 | 703.5 | 649.9 | 620.9 | 617.5 | 623.1 | 597.4 |
| 8050.2 | 42.5° | 6702.3 | 4517.0 | 1302.0 | 791.7 | 680.1 | 620.9 | 593.0 | 593.0 | 588.5 | 552.8 |
| 8818.4 | 45° | 7294.2 | 4828.5 | 1324.4 | 772.7 | 652.1 | 591.8 | 570.6 | 562.8 | 543.8 | 509.2 |
| 9591.2 | 47.5° | 7890.5 | 5145.7 | 1341.1 | 738.1 | 618.6 | 567.3 | 548.3 | 530.4 | 502.5 | 471.2 |
| 10349.4 | 50° | 8456.6 | 5430.4 | 1323.3 | 686.8 | 580.7 | 543.8 | 523.7 | 499.2 | 469.0 | 447.8 |
| 11067.4 | 52.5° | 8962.5 | 5677.2 | 1247.3 | 626.5 | 540.5 | 519.3 | 501.4 | 475.7 | 451.1 | 428.8 |
| 11715.1 | 55° | 9402.5 | 5877.1 | 1113.3 | 569.5 | 504.7 | 498.0 | 480.2 | 447.8 | 414.3 | 395.3 |
| 12357.2 | 57.5° | 9824.6 | 6029.0 | 945.8 | 522.6 | 472.4 | 474.6 | 447.8 | 418.8 | 387.5 | 367.4 |
| 13222.6 | 60° | 10386.2 | 6232.2 | 776.1 | 479.1 | 437.7 | 444.4 | 415.4 | 394.2 | 355.1 | 329.4 |
| 14706.7 | 62.5° | 11284.1 | 6548.2 | 616.4 | 425.5 | 397.5 | 399.8 | 387.5 | 361.8 | 314.9 | 284.8 |
| 15806.6 | 65° | 11996.5 | 6432.1 | 485.8 | 367.4 | 351.8 | 355.1 | 355.1 | 327.2 | 276.9 | 242.3 |
| 15865.8 | 67.5° | 11916.1 | 5507.5 | 387.5 | 310.4 | 308.2 | 310.4 | 318.3 | 294.8 | 245.7 | 217.8 |
| 14657.5 | 70° | 10977.0 | 4380.7 | 310.4 | 258.0 | 268.0 | 262.4 | 284.8 | 269.1 | 221.1 | 193.2 |
| 11363.3 | 72.5° | 8956.9 | 3155.7 | 236.7 | 213.3 | 205.5 | 214.4 | 256.8 | 242.3 | 184.3 | 153.0 |
| 6018.9 | 75° | 5233.9 | 1684.0 | 176.4 | 168.6 | 148.5 | 178.7 | 227.8 | 206.6 | 140.7 | 112.8 |
| 1844.8 | 77.5° | 1704.1 | 587.4 | 129.5 | 124.0 | 110.6 | 144.1 | 194.3 | 174.2 | 115.0 | 89.3 |
| 540.5 | 80° | 456.7 | 177.6 | 88.2 | 81.5 | 71.5 | 107.2 | 154.1 | 138.5 | 82.6 | 58.1 |
| 232.3 | 82.5° | 183.1 | 74.8 | 51.4 | 45.8 | 39.1 | 73.7 | 121.7 | 111.7 | 61.4 | 36.9 |
| 72.6 | 85° | 59.2 | 24.6 | 19.0 | 14.5 | 17.9 | 45.8 | 72.6 | 75.9 | 43.6 | 19.0 |
| 11.2 | 87.5° | 7.8 | 3.4 | 3.4 | 4.5 | 3.4 | 7.8 | 22.3 | 21.2 | 12.3 | 2.2 |
| 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> |
| 2569.5 |
| 2265.7 |
| 1833.6 |
| 1418.2 |
| 1158.0 |
| 1063.1 |
| 1030.7 |
| 993.8 |
| 942.5 |
| 876.6 |
| 805.1 |
| 735.9 |
| 681.2 |
| 644.3 |
| 616.4 |
| 618.6 |
| 598.5 |
| 552.8 |
| 508.1 |
| 470.1 |
| 444.4 |
| 426.6 |
| 393.1 |
| 365.2 |
| 326.1 |
| 282.5 |
| 239.0 |
| 213.3 |
| 189.8 |
| 149.6 |
| 109.4 |
| 86.0 |
| 57.0 |
| 36.9 |
| 14.5 |
| 0.0 |
| 0.0 |

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