

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: P941234

Luminaire Tested: **GALN-SB4C-935-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941234
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-SB4C-935-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 615mA 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: 15247 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

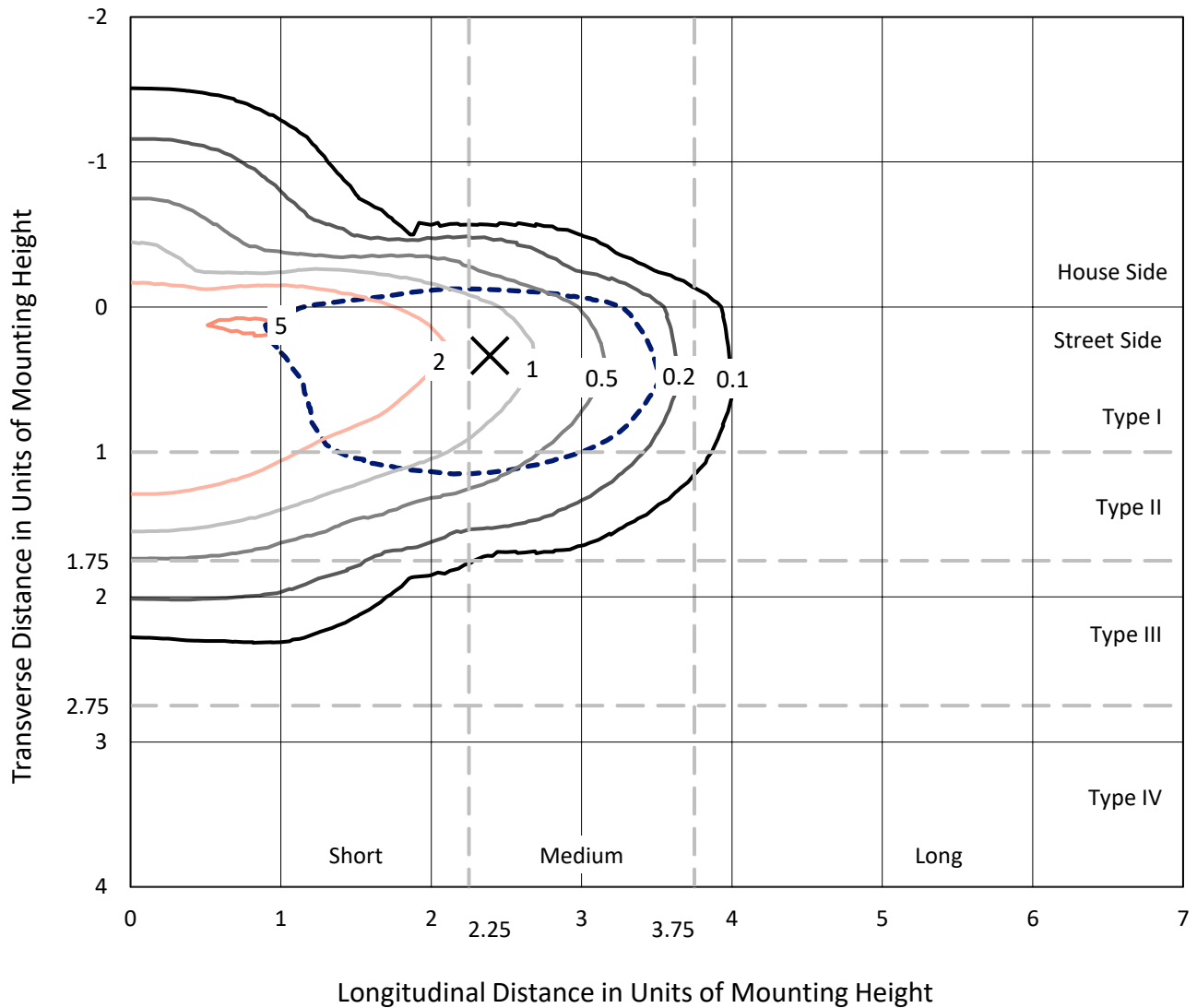
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

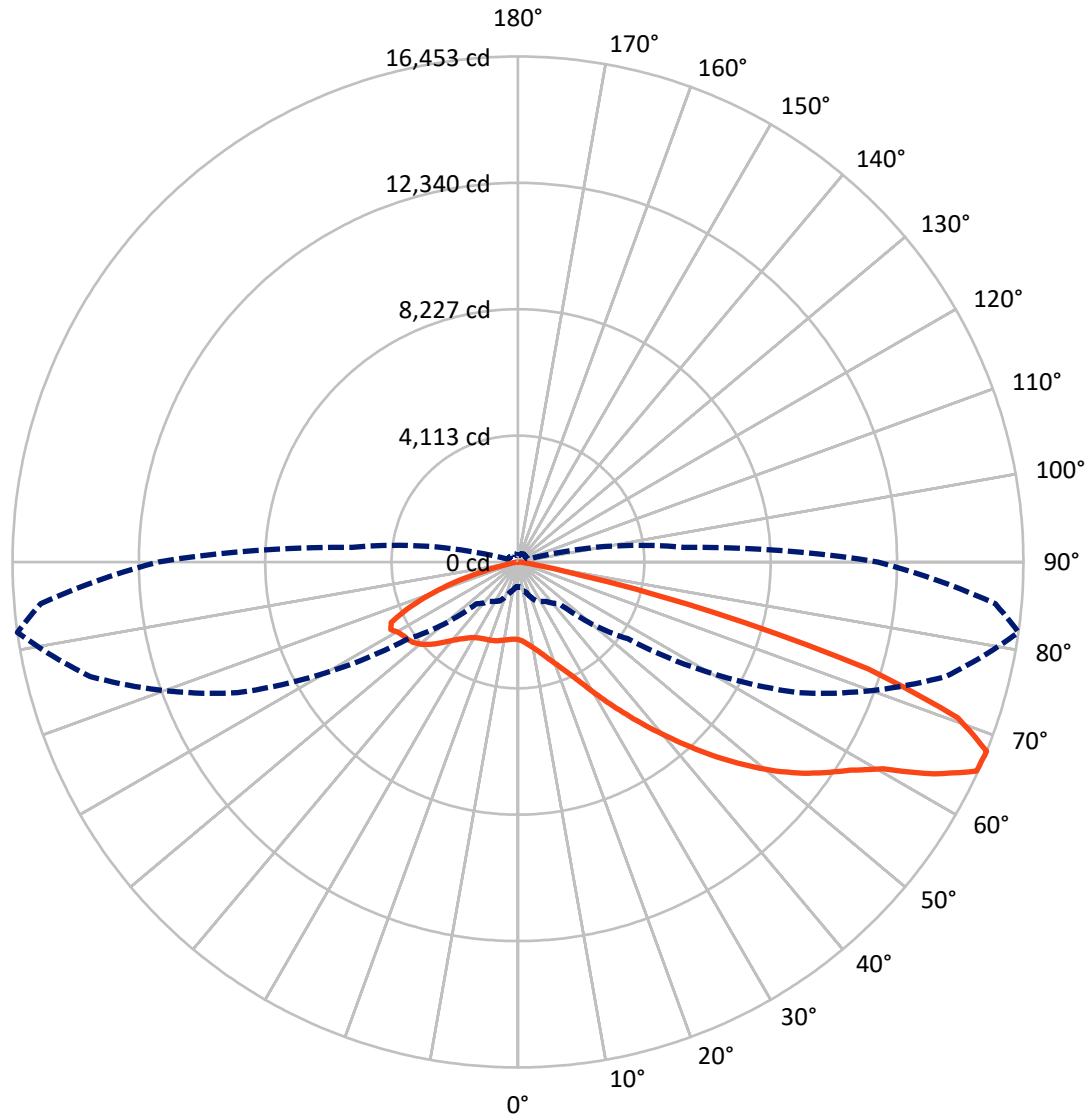
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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 | 2761.9 | 0.0 | 2761.9 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 12485.1 | 0.0 | 12485.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 15247.0 | 0.0 | 15247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 225.0 | 1.5 |
| 10°-20° | 584.8 | 3.8 |
| 20°-30° | 936.6 | 6.1 |
| 30°-40° | 1656.3 | 10.9 |
| 40°-50° | 2902.0 | 19.0 |
| 50°-60° | 3870.4 | 25.4 |
| 60°-70° | 3603.1 | 23.6 |
| 70°-80° | 1382.9 | 9.1 |
| 80°-90° | 85.9 | 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° | 15247.0 | 100.0 |
| 0°-180° | 15247.0 | 100.0 |

Coefficient of Utilization



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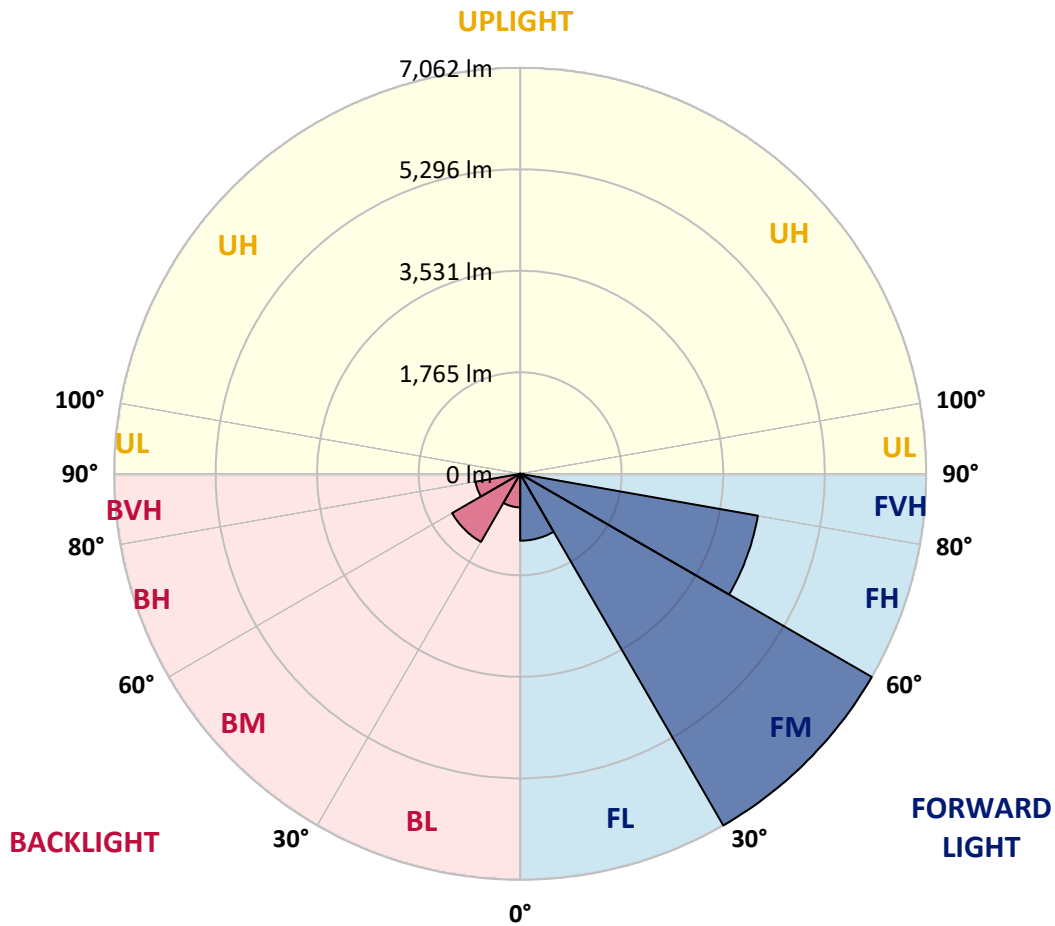
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1163.2 | 7.6 | | | |
| FM (30°-60°) | 7061.8 | 46.3 | | | |
| FH (60°-80°) | 4197.7 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 62.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 583.3 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1366.8 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 788.3 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.5 | 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° | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 |
| 2.5° | 2669.7 | 2685.1 | 2676.3 | 2671.9 | 2664.2 | 2653.3 | 2644.5 | 2617.0 | 2588.5 | 2569.8 |
| 5° | 2723.5 | 2738.9 | 2737.8 | 2742.2 | 2747.7 | 2750.9 | 2748.8 | 2718.0 | 2677.4 | 2645.6 |
| 7.5° | 2677.4 | 2695.0 | 2709.2 | 2731.2 | 2769.6 | 2810.2 | 2830.0 | 2823.4 | 2781.7 | 2737.8 |
| 10° | 2546.8 | 2565.4 | 2599.5 | 2651.1 | 2732.3 | 2820.1 | 2893.7 | 2927.7 | 2901.3 | 2853.0 |
| 12.5° | 2307.5 | 2326.1 | 2393.1 | 2505.1 | 2641.2 | 2793.8 | 2934.3 | 3025.4 | 3032.0 | 2983.7 |
| 15° | 2038.5 | 2057.2 | 2128.5 | 2269.0 | 2476.5 | 2721.3 | 2956.2 | 3128.6 | 3186.8 | 3145.0 |
| 17.5° | 1871.7 | 1888.1 | 1941.9 | 2055.0 | 2271.2 | 2576.4 | 2948.5 | 3238.3 | 3371.2 | 3338.2 |
| 20° | 1821.2 | 1835.4 | 1860.7 | 1939.7 | 2119.7 | 2426.0 | 2898.0 | 3341.5 | 3569.9 | 3551.2 |
| 22.5° | 1874.9 | 1888.1 | 1895.8 | 1930.9 | 2044.0 | 2327.2 | 2834.4 | 3446.9 | 3800.4 | 3802.6 |
| 25° | 1999.0 | 2012.2 | 2003.4 | 2025.3 | 2074.7 | 2296.5 | 2810.2 | 3571.0 | 4090.2 | 4114.3 |
| 27.5° | 2203.2 | 2204.3 | 2183.4 | 2182.3 | 2190.0 | 2342.6 | 2835.5 | 3703.8 | 4455.7 | 4500.8 |
| 30° | 2612.6 | 2596.2 | 2516.0 | 2429.3 | 2389.8 | 2480.9 | 2905.7 | 3860.8 | 4887.2 | 4967.3 |
| 32.5° | 3243.8 | 3219.7 | 3072.6 | 2865.1 | 2656.5 | 2703.7 | 3032.0 | 4039.7 | 5357.0 | 5501.9 |
| 35° | 3928.8 | 3922.2 | 3768.6 | 3460.1 | 3095.6 | 3021.0 | 3237.3 | 4274.6 | 5869.6 | 6100.2 |
| 37.5° | 4565.5 | 4562.2 | 4474.4 | 4111.1 | 3667.6 | 3463.4 | 3566.6 | 4582.0 | 6418.5 | 6752.2 |
| 40° | 5147.3 | 5157.2 | 5069.4 | 4744.5 | 4297.7 | 4030.9 | 4014.5 | 4961.8 | 7028.9 | 7462.5 |
| 42.5° | 5650.1 | 5661.1 | 5572.2 | 5331.7 | 4920.1 | 4658.8 | 4564.4 | 5427.3 | 7624.9 | 8225.4 |
| 45° | 5991.5 | 6059.6 | 6046.4 | 5854.3 | 5559.0 | 5287.8 | 5225.3 | 6011.3 | 8304.4 | 9034.4 |
| 47.5° | 6088.1 | 6150.7 | 6249.5 | 6275.8 | 6095.8 | 5829.0 | 5903.7 | 6714.9 | 8991.6 | 9844.6 |
| 50° | 5849.9 | 5908.1 | 6113.3 | 6386.7 | 6511.8 | 6429.5 | 6563.4 | 7469.1 | 9695.3 | 10652.5 |
| 52.5° | 5380.0 | 5439.3 | 5698.4 | 6130.9 | 6641.4 | 6900.4 | 7225.4 | 8212.2 | 10377.0 | 11417.6 |
| 55° | 4700.5 | 4763.1 | 5095.7 | 5585.3 | 6394.4 | 7094.7 | 7777.5 | 8954.3 | 11001.6 | 12105.9 |
| 57.5° | 3776.2 | 3822.3 | 4168.1 | 4853.1 | 5773.0 | 6901.5 | 8184.8 | 9764.4 | 11590.0 | 12782.1 |
| 60° | 2461.1 | 2501.8 | 2903.5 | 3667.6 | 4743.4 | 6256.1 | 8266.0 | 10667.9 | 12371.6 | 13661.4 |
| 62.5° | 1636.7 | 1664.2 | 1902.4 | 2463.3 | 3340.4 | 5016.7 | 7790.7 | 11389.1 | 13517.6 | 15191.7 |
| 65° | 1123.0 | 1150.4 | 1388.6 | 1779.4 | 2158.2 | 3318.5 | 6424.0 | 11293.6 | 14556.1 | 16406.9 |
| 67.5° | 801.4 | 824.4 | 1026.4 | 1395.2 | 1562.1 | 1927.6 | 4354.8 | 10072.9 | 14406.8 | 16453.0 |
| 70° | 574.1 | 587.3 | 754.2 | 1086.8 | 1241.5 | 1158.1 | 2421.6 | 7704.0 | 12614.2 | 15192.8 |
| 72.5° | 401.8 | 406.2 | 523.6 | 827.7 | 1000.0 | 845.3 | 1152.6 | 5136.4 | 9540.5 | 11924.8 |
| 75° | 272.2 | 277.7 | 352.4 | 607.1 | 802.5 | 645.5 | 610.3 | 2754.2 | 5600.7 | 6600.7 |
| 77.5° | 166.9 | 169.1 | 227.2 | 414.9 | 600.5 | 491.8 | 393.0 | 1166.9 | 2166.9 | 2127.4 |
| 80° | 94.4 | 94.4 | 144.9 | 258.0 | 409.5 | 317.2 | 275.5 | 496.2 | 686.1 | 602.7 |
| 82.5° | 52.7 | 53.8 | 105.4 | 160.3 | 271.1 | 187.7 | 151.5 | 229.4 | 296.4 | 262.4 |
| 85° | 22.0 | 24.2 | 64.8 | 75.7 | 129.5 | 93.3 | 61.5 | 96.6 | 109.8 | 97.7 |
| 87.5° | 2.2 | 3.3 | 19.8 | 14.3 | 15.4 | 18.7 | 8.8 | 18.7 | 15.4 | 15.4 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2525.9 | 0° | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 | 2525.9 |
| 2563.2 | 2.5° | 2542.4 | 2525.9 | 2484.2 | 2435.9 | 2372.2 | 2341.5 | 2299.8 | 2271.2 | 2247.1 | 2249.3 |
| 2626.9 | 5° | 2591.8 | 2550.1 | 2456.8 | 2340.4 | 2195.5 | 2092.3 | 1982.5 | 1906.8 | 1845.3 | 1832.1 |
| 2714.7 | 7.5° | 2659.8 | 2594.0 | 2430.4 | 2220.7 | 1975.9 | 1790.4 | 1624.7 | 1518.2 | 1442.4 | 1418.3 |
| 2821.2 | 10° | 2747.7 | 2652.2 | 2396.4 | 2070.3 | 1718.0 | 1482.0 | 1304.1 | 1220.7 | 1169.1 | 1151.5 |
| 2946.3 | 12.5° | 2849.7 | 2719.1 | 2351.4 | 1887.0 | 1452.3 | 1225.1 | 1112.0 | 1070.3 | 1053.8 | 1048.3 |
| 3100.0 | 15° | 2978.2 | 2802.5 | 2283.3 | 1669.7 | 1227.3 | 1068.1 | 1019.8 | 1014.3 | 1016.5 | 1014.3 |
| 3284.5 | 17.5° | 3130.8 | 2893.7 | 2172.4 | 1445.7 | 1075.8 | 988.0 | 970.4 | 974.8 | 980.3 | 979.2 |
| 3490.8 | 20° | 3297.6 | 2983.7 | 2030.8 | 1247.0 | 972.6 | 930.9 | 921.0 | 925.4 | 929.8 | 927.6 |
| 3729.0 | 22.5° | 3487.5 | 3080.3 | 1873.9 | 1092.3 | 903.4 | 878.2 | 867.2 | 868.3 | 868.3 | 863.9 |
| 4030.9 | 25° | 3714.8 | 3186.8 | 1709.2 | 982.5 | 850.8 | 831.0 | 817.8 | 813.4 | 806.8 | 793.7 |
| 4397.6 | 27.5° | 3985.9 | 3299.8 | 1551.1 | 905.6 | 809.0 | 790.4 | 775.0 | 764.0 | 747.6 | 725.6 |
| 4837.8 | 30° | 4291.1 | 3437.0 | 1417.2 | 857.3 | 776.1 | 757.4 | 739.9 | 723.4 | 699.3 | 671.8 |
| 5343.8 | 32.5° | 4650.0 | 3584.1 | 1319.5 | 825.5 | 746.5 | 726.7 | 705.9 | 686.1 | 659.7 | 632.3 |
| 5912.5 | 35° | 5078.2 | 3762.0 | 1262.4 | 803.5 | 723.4 | 697.1 | 674.0 | 652.1 | 632.3 | 608.2 |
| 6530.5 | 37.5° | 5542.5 | 3950.8 | 1244.8 | 792.6 | 708.0 | 667.4 | 641.1 | 625.7 | 623.5 | 609.2 |
| 7199.0 | 40° | 6050.8 | 4174.7 | 1258.0 | 786.0 | 691.6 | 638.9 | 610.3 | 607.1 | 612.5 | 587.3 |
| 7913.6 | 42.5° | 6588.7 | 4440.4 | 1280.0 | 778.3 | 668.5 | 610.3 | 582.9 | 582.9 | 578.5 | 543.4 |
| 8668.9 | 45° | 7170.5 | 4746.7 | 1301.9 | 759.6 | 641.1 | 581.8 | 560.9 | 553.3 | 534.6 | 500.6 |
| 9428.5 | 47.5° | 7756.7 | 5058.4 | 1318.4 | 725.6 | 608.2 | 557.7 | 539.0 | 521.4 | 494.0 | 463.2 |
| 10173.9 | 50° | 8313.2 | 5338.3 | 1300.8 | 675.1 | 570.8 | 534.6 | 514.8 | 490.7 | 461.1 | 440.2 |
| 10879.8 | 52.5° | 8810.5 | 5580.9 | 1226.2 | 615.8 | 531.3 | 510.5 | 492.9 | 467.6 | 443.5 | 421.5 |
| 11516.4 | 55° | 9243.0 | 5777.4 | 1094.5 | 559.9 | 496.2 | 489.6 | 472.0 | 440.2 | 407.3 | 388.6 |
| 12147.6 | 57.5° | 9658.0 | 5926.7 | 929.8 | 513.7 | 464.3 | 466.5 | 440.2 | 411.7 | 380.9 | 361.2 |
| 12998.4 | 60° | 10210.1 | 6126.5 | 762.9 | 470.9 | 430.3 | 436.9 | 408.4 | 387.5 | 349.1 | 323.8 |
| 14457.3 | 62.5° | 11092.7 | 6437.2 | 606.0 | 418.2 | 390.8 | 393.0 | 380.9 | 355.7 | 309.6 | 279.9 |
| 15538.6 | 65° | 11793.1 | 6323.0 | 477.5 | 361.2 | 345.8 | 349.1 | 349.1 | 321.6 | 272.2 | 238.2 |
| 15596.8 | 67.5° | 11714.0 | 5414.1 | 380.9 | 305.2 | 303.0 | 305.2 | 312.9 | 289.8 | 241.5 | 214.1 |
| 14409.0 | 70° | 10790.8 | 4306.5 | 305.2 | 253.6 | 263.5 | 258.0 | 279.9 | 264.6 | 217.4 | 189.9 |
| 11170.7 | 72.5° | 8805.0 | 3102.2 | 232.7 | 209.7 | 202.0 | 210.8 | 252.5 | 238.2 | 181.1 | 150.4 |
| 5916.8 | 75° | 5145.1 | 1655.4 | 173.4 | 165.8 | 146.0 | 175.6 | 223.9 | 203.1 | 138.3 | 110.9 |
| 1813.5 | 77.5° | 1675.2 | 577.4 | 127.3 | 121.8 | 108.7 | 141.6 | 191.0 | 171.2 | 113.1 | 87.8 |
| 531.3 | 80° | 449.0 | 174.5 | 86.7 | 80.1 | 70.3 | 105.4 | 151.5 | 136.1 | 81.2 | 57.1 |
| 228.3 | 82.5° | 180.0 | 73.5 | 50.5 | 45.0 | 38.4 | 72.5 | 119.7 | 109.8 | 60.4 | 36.2 |
| 71.4 | 85° | 58.2 | 24.2 | 18.7 | 14.3 | 17.6 | 45.0 | 71.4 | 74.6 | 42.8 | 18.7 |
| 11.0 | 87.5° | 7.7 | 3.3 | 3.3 | 4.4 | 3.3 | 7.7 | 22.0 | 20.9 | 12.1 | 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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180°
2525.9
2227.3
1802.5
1394.1
1138.4
1045.1
1013.2
977.0
926.5
861.7
791.5
723.4
669.6
633.4
606.0
608.2
588.4
543.4
499.5
462.2
436.9
419.3
386.4
359.0
320.5
277.7
234.9
209.7
186.6
147.1
107.6
84.5
56.0
36.2
14.3
0.0
0.0

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