

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: P947683

Luminaire Tested: **GALN-SB2D-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14533 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

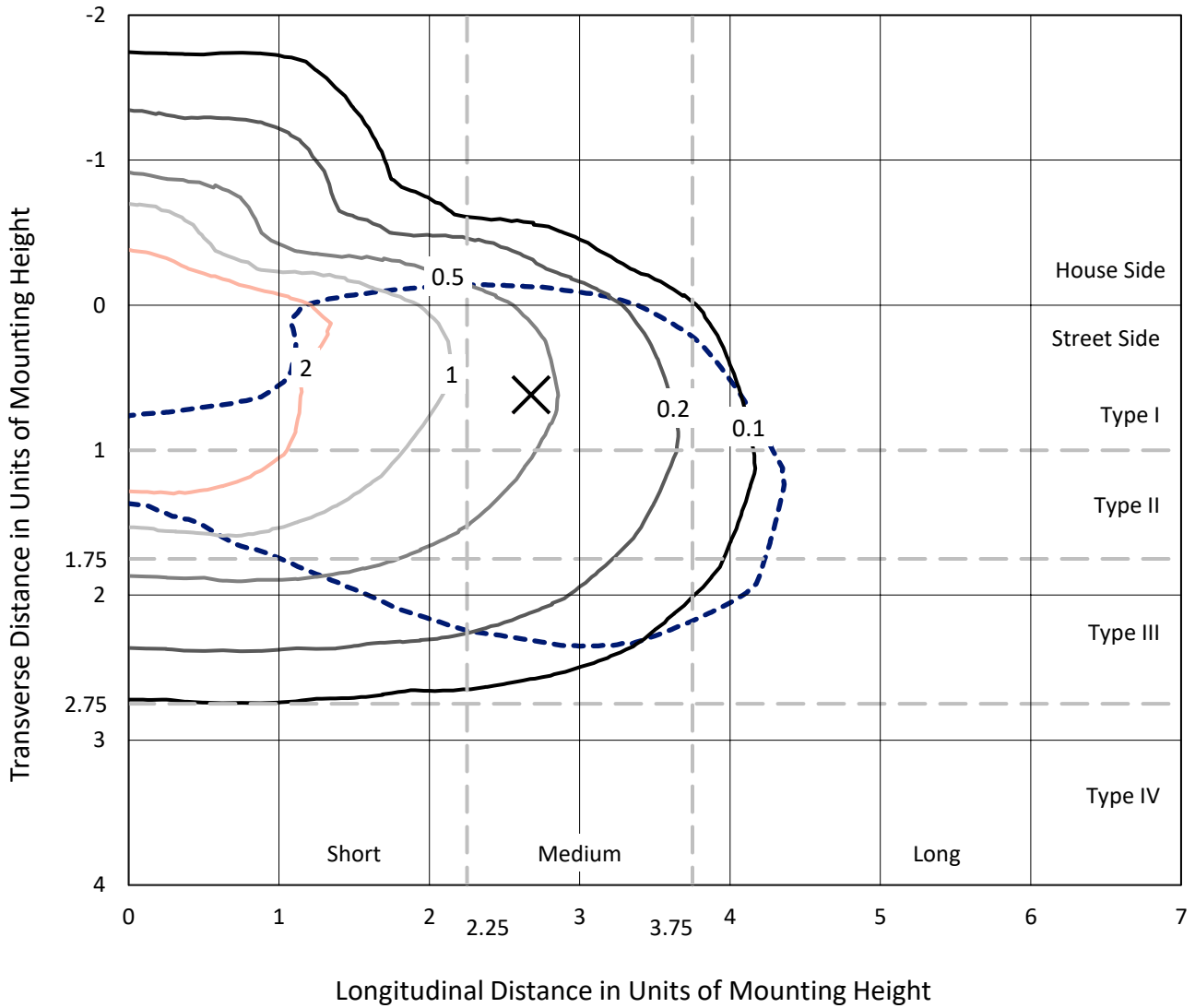
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

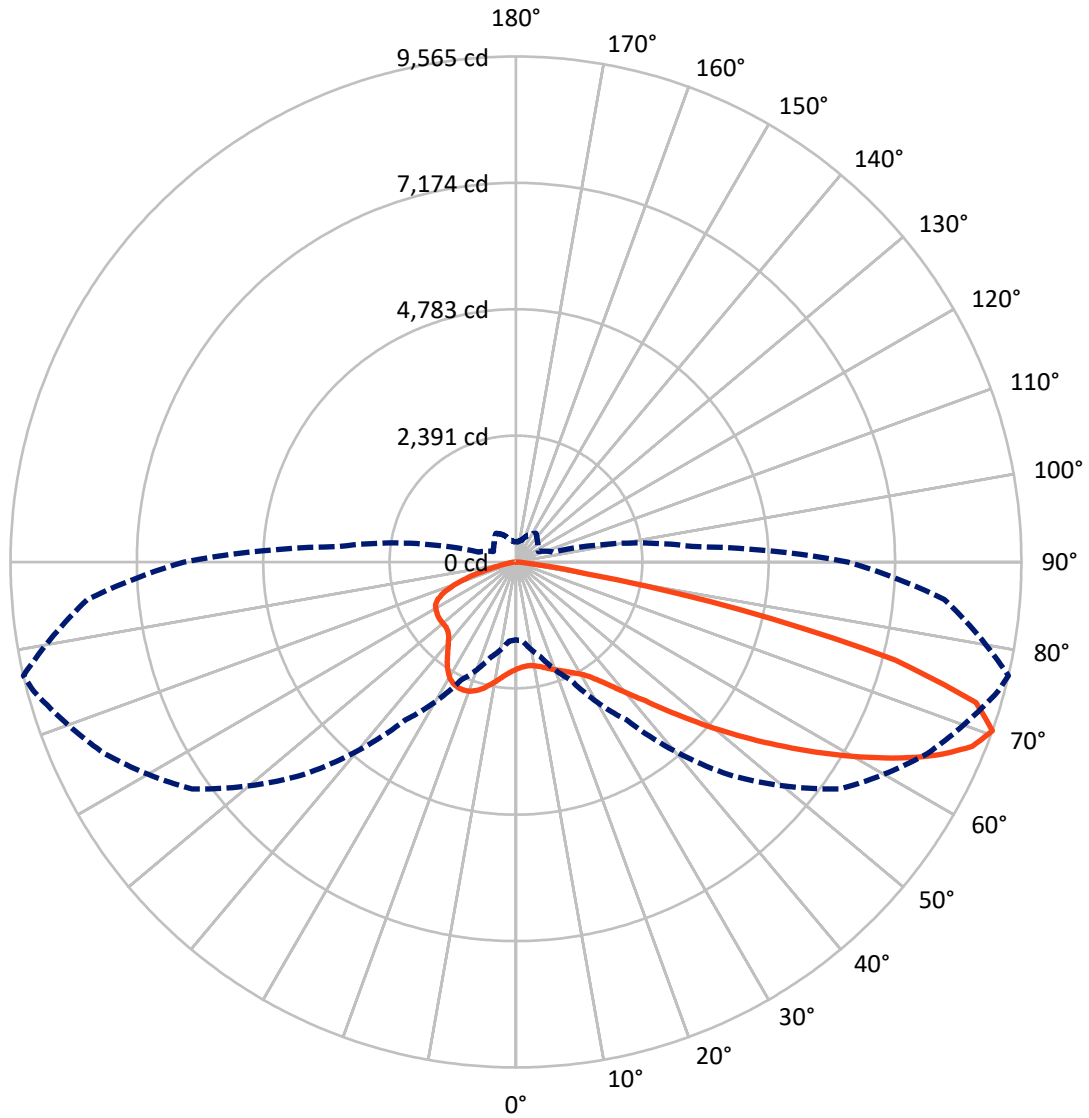
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3182.5 | 0.0 | 3182.5 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 11350.5 | 0.0 | 11350.5 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 14533.0 | 0.0 | 14533.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 193.4 | 1.3 |
| 10°-20° | 558.1 | 3.8 |
| 20°-30° | 954.4 | 6.6 |
| 30°-40° | 1534.8 | 10.6 |
| 40°-50° | 2396.2 | 16.5 |
| 50°-60° | 3200.7 | 22.0 |
| 60°-70° | 3411.5 | 23.5 |
| 70°-80° | 2100.1 | 14.5 |
| 80°-90° | 184.0 | 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° | 14533.0 | 100.0 |
| 0°-180° | 14533.0 | 100.0 |

Coefficient of Utilization



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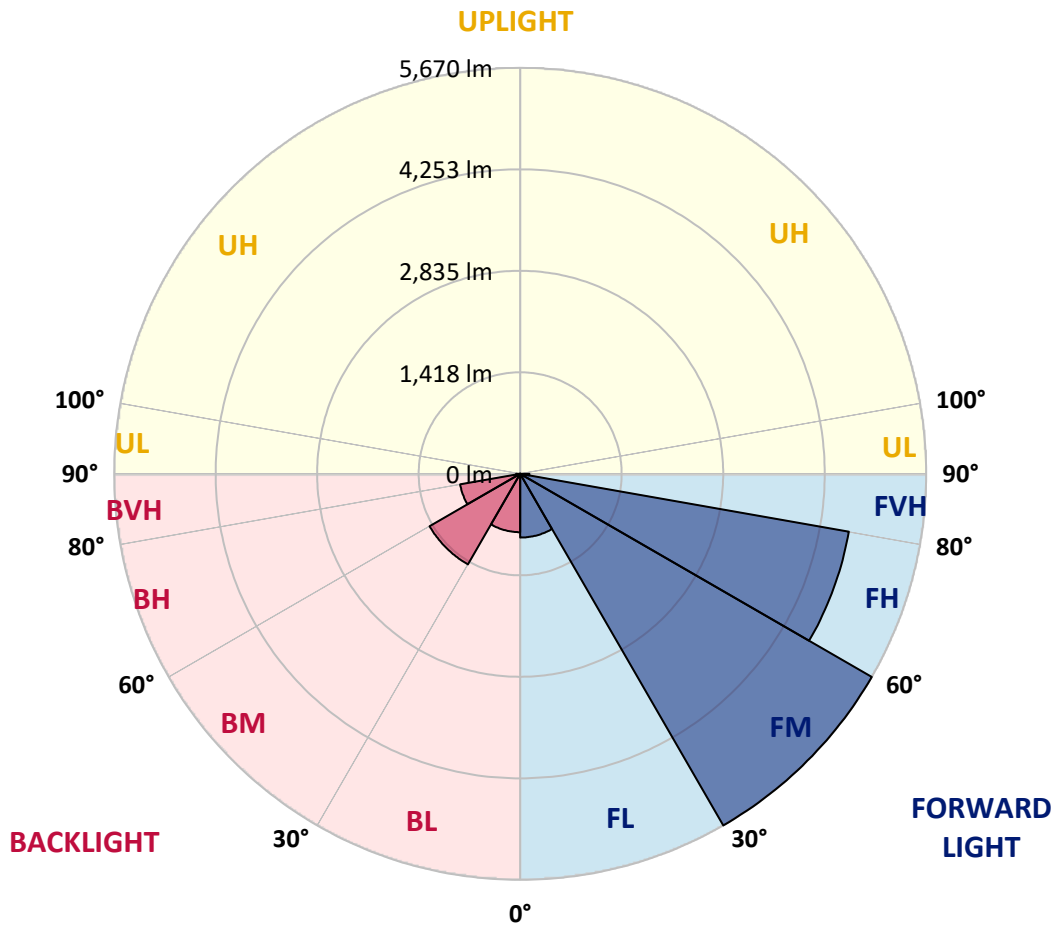
CATALOG NUMBER: GALN-SB2D-950-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 890.4 | 6.1 | | | |
| FM (30°-60°) | 5670.5 | 39.0 | | | |
| FH (60°-80°) | 4661.0 | 32.1 | | | G2/5000 |
| FVH (80°-90°) | 128.7 | 0.9 | | | G2/225 |
| BL (0°-30°) | 815.5 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 1461.2 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 850.5 | 5.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 55.3 | 0.4 | | | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 |
| 2.5° | 1868.9 | 1868.2 | 1877.9 | 1880.9 | 1898.7 | 1911.4 | 1935.2 | 1960.5 | 1993.2 | 1997.0 |
| 5° | 1761.0 | 1761.0 | 1772.2 | 1784.1 | 1807.2 | 1832.5 | 1868.9 | 1912.9 | 1969.4 | 1978.4 |
| 7.5° | 1669.5 | 1675.4 | 1685.1 | 1708.2 | 1735.0 | 1771.4 | 1827.3 | 1889.8 | 1964.2 | 1978.4 |
| 10° | 1595.8 | 1602.5 | 1614.4 | 1633.0 | 1673.2 | 1723.8 | 1796.8 | 1877.1 | 1976.9 | 1999.2 |
| 12.5° | 1572.7 | 1579.4 | 1586.1 | 1600.3 | 1637.5 | 1697.0 | 1784.1 | 1883.1 | 2007.4 | 2029.7 |
| 15° | 1626.3 | 1634.5 | 1629.3 | 1625.6 | 1644.9 | 1699.2 | 1790.1 | 1904.7 | 2045.3 | 2077.4 |
| 17.5° | 1749.9 | 1752.8 | 1740.9 | 1705.9 | 1703.0 | 1732.0 | 1818.3 | 1934.4 | 2093.0 | 2128.0 |
| 20° | 1949.3 | 1944.1 | 1919.6 | 1850.3 | 1810.9 | 1804.9 | 1866.7 | 1979.1 | 2142.1 | 2179.3 |
| 22.5° | 2220.3 | 2214.3 | 2165.2 | 2055.8 | 1967.9 | 1909.9 | 1936.7 | 2037.2 | 2197.2 | 2238.9 |
| 25° | 2558.2 | 2550.0 | 2477.8 | 2328.9 | 2192.7 | 2049.1 | 2032.0 | 2113.8 | 2264.9 | 2303.6 |
| 27.5° | 2952.7 | 2946.0 | 2867.8 | 2671.3 | 2474.8 | 2239.6 | 2150.3 | 2203.9 | 2335.6 | 2379.5 |
| 30° | 3376.9 | 3396.3 | 3257.8 | 3046.4 | 2797.8 | 2488.2 | 2309.6 | 2314.8 | 2427.2 | 2466.6 |
| 32.5° | 3875.6 | 3909.1 | 3742.4 | 3474.4 | 3135.0 | 2758.4 | 2510.5 | 2469.6 | 2560.4 | 2593.2 |
| 35° | 4369.8 | 4407.8 | 4269.3 | 3973.1 | 3582.3 | 3077.0 | 2720.4 | 2647.5 | 2737.6 | 2773.3 |
| 37.5° | 4797.0 | 4847.7 | 4776.2 | 4518.7 | 4060.9 | 3461.0 | 2994.3 | 2856.6 | 2955.6 | 3000.3 |
| 40° | 5134.2 | 5211.6 | 5206.4 | 5045.6 | 4625.1 | 3927.0 | 3341.9 | 3114.9 | 3226.6 | 3274.9 |
| 42.5° | 5408.1 | 5475.1 | 5533.2 | 5525.0 | 5213.9 | 4456.2 | 3750.6 | 3450.6 | 3535.4 | 3591.3 |
| 45° | 5597.2 | 5668.6 | 5793.7 | 5928.4 | 5780.3 | 5022.6 | 4218.7 | 3848.8 | 3926.2 | 4010.3 |
| 47.5° | 5766.1 | 5847.3 | 6009.5 | 6223.1 | 6261.1 | 5591.2 | 4731.5 | 4312.5 | 4383.2 | 4470.3 |
| 50° | 5781.0 | 5851.0 | 6102.6 | 6405.5 | 6602.7 | 6137.5 | 5282.3 | 4832.8 | 4899.0 | 4992.1 |
| 52.5° | 5421.5 | 5531.7 | 5970.8 | 6400.3 | 6759.8 | 6594.5 | 5829.4 | 5373.9 | 5448.3 | 5560.0 |
| 55° | 4208.3 | 4369.8 | 5584.5 | 6200.8 | 6704.0 | 6890.0 | 6349.7 | 5949.2 | 6044.5 | 6161.4 |
| 57.5° | 3624.8 | 3695.5 | 4433.1 | 5837.6 | 6449.4 | 6966.7 | 6788.8 | 6530.5 | 6683.9 | 6811.9 |
| 60° | 3257.8 | 3316.6 | 3752.8 | 5272.7 | 6114.5 | 6845.4 | 7128.2 | 7072.4 | 7337.4 | 7489.9 |
| 62.5° | 2864.8 | 2920.7 | 3317.4 | 4402.6 | 5685.7 | 6643.7 | 7342.6 | 7572.6 | 8007.2 | 8174.0 |
| 65° | 2474.8 | 2522.4 | 2902.8 | 3699.2 | 5140.9 | 6442.0 | 7453.5 | 8005.0 | 8627.2 | 8799.9 |
| 67.5° | 2040.1 | 2079.6 | 2439.1 | 3120.9 | 4478.5 | 6165.8 | 7508.5 | 8345.1 | 9166.9 | 9315.0 |
| 70° | 1472.2 | 1502.8 | 1874.2 | 2468.1 | 3647.1 | 5691.0 | 7486.2 | 8586.3 | 9446.7 | 9565.1 |
| 72.5° | 695.9 | 723.5 | 1159.6 | 1602.5 | 2576.0 | 4766.5 | 7034.4 | 8395.0 | 9162.4 | 9103.6 |
| 75° | 371.4 | 395.2 | 666.2 | 879.0 | 1360.6 | 3267.5 | 5756.5 | 7231.7 | 7693.9 | 7408.1 |
| 77.5° | 251.6 | 270.2 | 412.3 | 527.7 | 621.5 | 1551.1 | 3699.9 | 5006.9 | 4817.1 | 4345.3 |
| 80° | 199.5 | 218.8 | 337.9 | 357.3 | 300.7 | 560.5 | 1528.8 | 2317.8 | 1665.0 | 1331.6 |
| 82.5° | 153.3 | 174.9 | 284.3 | 259.0 | 163.7 | 230.0 | 445.1 | 733.1 | 426.5 | 324.5 |
| 85° | 93.8 | 116.9 | 223.3 | 165.2 | 92.3 | 104.9 | 151.1 | 203.9 | 130.3 | 108.7 |
| 87.5° | 47.6 | 67.0 | 113.1 | 60.3 | 41.7 | 24.6 | 40.2 | 40.2 | 34.2 | 29.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P947683
 CATALOG NUMBER: GALN-SB2D-950-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2027.5 | 0° | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 | 2027.5 |
| 2017.1 | 2.5° | 2034.9 | 2049.8 | 2075.1 | 2098.9 | 2117.5 | 2135.4 | 2153.3 | 2162.9 | 2165.9 | 2177.8 |
| 2028.2 | 5° | 2058.7 | 2086.3 | 2135.4 | 2181.6 | 2210.6 | 2228.4 | 2241.1 | 2248.5 | 2250.0 | 2253.8 |
| 2058.7 | 7.5° | 2102.7 | 2146.6 | 2215.1 | 2261.2 | 2282.8 | 2281.3 | 2276.1 | 2257.5 | 2250.0 | 2243.3 |
| 2103.4 | 10° | 2164.4 | 2222.5 | 2306.6 | 2338.6 | 2325.2 | 2289.5 | 2243.3 | 2189.0 | 2163.7 | 2139.1 |
| 2164.4 | 12.5° | 2241.1 | 2314.8 | 2397.4 | 2395.9 | 2329.7 | 2238.1 | 2130.9 | 2047.6 | 1994.7 | 1956.8 |
| 2239.6 | 15° | 2334.1 | 2419.0 | 2482.3 | 2431.6 | 2286.5 | 2122.0 | 1965.0 | 1856.3 | 1808.7 | 1767.0 |
| 2315.5 | 17.5° | 2430.2 | 2521.0 | 2550.0 | 2420.5 | 2177.8 | 1950.1 | 1772.2 | 1686.6 | 1639.7 | 1617.4 |
| 2397.4 | 20° | 2523.9 | 2614.0 | 2590.2 | 2356.5 | 2012.6 | 1755.1 | 1596.5 | 1549.6 | 1540.0 | 1545.2 |
| 2477.0 | 22.5° | 2622.9 | 2703.3 | 2598.4 | 2232.9 | 1802.0 | 1555.6 | 1468.5 | 1470.0 | 1491.6 | 1507.2 |
| 2560.4 | 25° | 2724.2 | 2778.5 | 2576.8 | 2054.3 | 1575.7 | 1409.0 | 1387.4 | 1411.2 | 1453.6 | 1484.1 |
| 2654.2 | 27.5° | 2821.7 | 2845.5 | 2529.9 | 1833.2 | 1381.4 | 1304.0 | 1307.7 | 1356.9 | 1420.9 | 1463.3 |
| 2768.1 | 30° | 2931.8 | 2905.0 | 2439.8 | 1584.6 | 1246.7 | 1214.0 | 1245.2 | 1302.5 | 1366.5 | 1404.5 |
| 2911.7 | 32.5° | 3056.1 | 2956.4 | 2296.9 | 1354.6 | 1151.4 | 1141.8 | 1193.1 | 1230.3 | 1258.6 | 1269.8 |
| 3102.3 | 35° | 3210.9 | 3028.6 | 2113.8 | 1193.1 | 1065.8 | 1088.9 | 1138.0 | 1119.4 | 1108.3 | 1102.3 |
| 3358.3 | 37.5° | 3411.9 | 3126.1 | 1899.5 | 1088.2 | 996.6 | 1051.0 | 1071.1 | 1013.0 | 969.1 | 947.5 |
| 3668.7 | 40° | 3653.8 | 3269.0 | 1693.3 | 1007.0 | 952.7 | 1018.2 | 983.2 | 913.3 | 857.4 | 826.9 |
| 4017.8 | 42.5° | 3922.5 | 3418.6 | 1519.9 | 946.0 | 928.1 | 991.4 | 918.5 | 835.1 | 745.0 | 735.4 |
| 4433.8 | 45° | 4204.6 | 3572.7 | 1401.5 | 899.1 | 916.2 | 968.3 | 881.3 | 746.5 | 682.5 | 722.0 |
| 4851.4 | 47.5° | 4486.7 | 3714.1 | 1330.1 | 864.1 | 910.3 | 942.3 | 848.5 | 697.4 | 652.0 | 709.3 |
| 5298.7 | 50° | 4800.8 | 3840.6 | 1298.1 | 838.8 | 903.6 | 931.9 | 799.4 | 684.8 | 620.0 | 658.0 |
| 5761.7 | 52.5° | 5112.6 | 3938.9 | 1274.2 | 813.5 | 893.9 | 923.7 | 775.6 | 669.9 | 581.3 | 583.5 |
| 6227.6 | 55° | 5423.7 | 4002.9 | 1248.2 | 780.0 | 872.3 | 905.8 | 773.3 | 653.5 | 552.3 | 541.9 |
| 6720.3 | 57.5° | 5755.7 | 4039.3 | 1216.2 | 742.8 | 835.1 | 860.4 | 771.1 | 640.8 | 543.3 | 526.2 |
| 7224.2 | 60° | 6093.6 | 4092.9 | 1174.5 | 697.4 | 785.2 | 806.1 | 765.9 | 636.4 | 538.1 | 509.1 |
| 7699.1 | 62.5° | 6396.6 | 4111.5 | 1124.6 | 654.2 | 721.2 | 752.5 | 754.7 | 632.7 | 524.0 | 474.1 |
| 8093.6 | 65° | 6595.3 | 4031.2 | 1037.6 | 605.1 | 652.0 | 697.4 | 733.1 | 620.0 | 498.7 | 448.8 |
| 8288.6 | 67.5° | 6587.1 | 3801.9 | 901.4 | 541.9 | 585.0 | 636.4 | 701.9 | 598.4 | 468.2 | 417.6 |
| 8141.2 | 70° | 6280.4 | 3349.4 | 728.7 | 468.2 | 511.3 | 570.9 | 661.7 | 566.4 | 431.7 | 383.3 |
| 7239.1 | 72.5° | 5386.5 | 2621.4 | 529.2 | 381.8 | 425.7 | 503.1 | 609.6 | 527.7 | 394.5 | 352.8 |
| 5350.1 | 75° | 3848.1 | 1659.1 | 358.8 | 293.3 | 331.2 | 426.5 | 544.8 | 482.3 | 360.2 | 354.3 |
| 2679.5 | 77.5° | 1965.7 | 792.7 | 237.4 | 214.4 | 230.7 | 336.4 | 457.7 | 431.0 | 365.5 | 292.5 |
| 762.2 | 80° | 639.4 | 292.5 | 149.6 | 145.9 | 153.3 | 224.0 | 354.3 | 353.5 | 276.9 | 198.7 |
| 184.6 | 82.5° | 203.9 | 125.8 | 97.5 | 93.8 | 90.1 | 140.7 | 247.1 | 279.9 | 186.8 | 125.8 |
| 66.2 | 85° | 81.1 | 75.2 | 57.3 | 52.8 | 38.0 | 66.2 | 129.5 | 186.1 | 139.2 | 90.8 |
| 17.1 | 87.5° | 29.8 | 29.8 | 15.6 | 11.2 | 8.2 | 22.3 | 35.0 | 55.8 | 79.6 | 46.9 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 2027.5 |
| 2184.5 |
| 2259.7 |
| 2244.8 |
| 2131.7 |
| 1947.8 |
| 1762.5 |
| 1624.1 |
| 1542.9 |
| 1510.9 |
| 1492.3 |
| 1473.7 |
| 1413.4 |
| 1275.7 |
| 1108.3 |
| 952.7 |
| 829.2 |
| 745.0 |
| 742.8 |
| 736.1 |
| 686.2 |
| 599.2 |
| 549.3 |
| 528.5 |
| 511.3 |
| 474.1 |
| 448.8 |
| 419.8 |
| 387.8 |
| 350.6 |
| 334.2 |
| 260.5 |
| 175.7 |
| 125.0 |
| 93.0 |
| 46.1 |
| 0.0 |

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