

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: P940287

Luminaire Tested: **GALN-SB3B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17887 lumens
Efficiency: N/A
Efficacy: 163.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

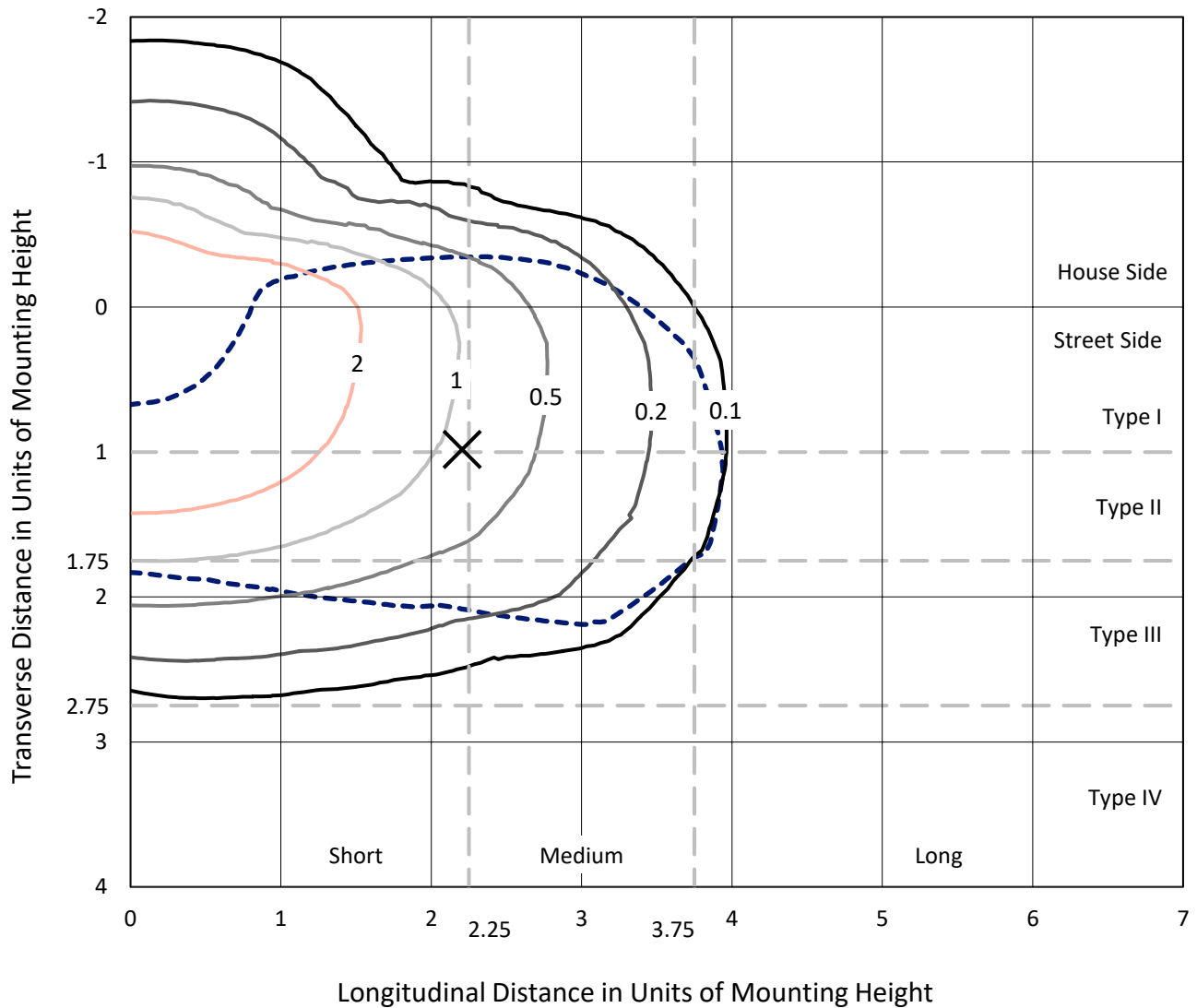
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

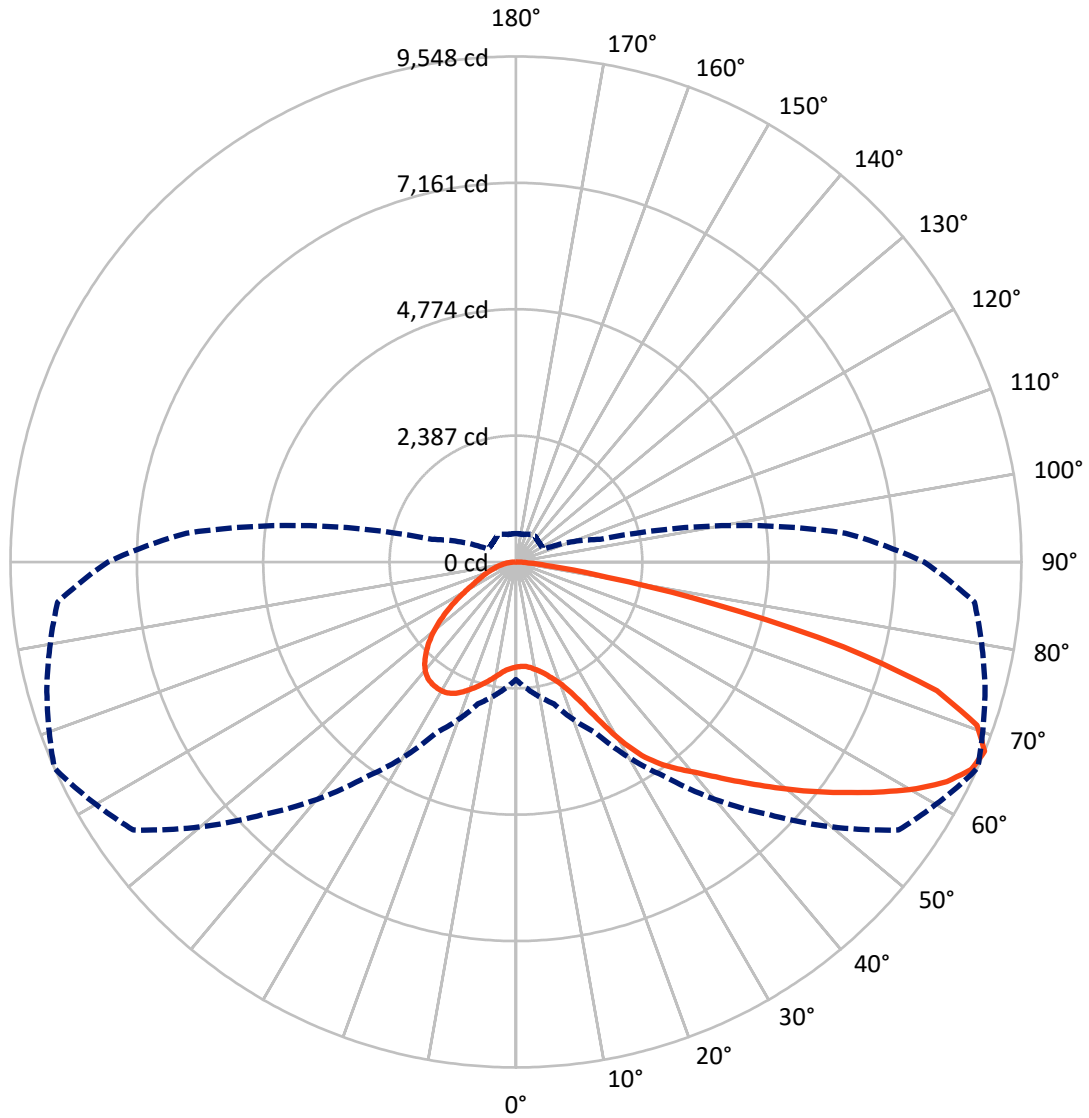
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4447.6 | 0.0 | 4447.6 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 13439.5 | 0.0 | 13439.5 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 17887.0 | 0.0 | 17887.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 196.7 | 1.1 |
| 10°-20° | 649.9 | 3.6 |
| 20°-30° | 1252.6 | 7.0 |
| 30°-40° | 2196.2 | 12.3 |
| 40°-50° | 3265.0 | 18.3 |
| 50°-60° | 4138.8 | 23.1 |
| 60°-70° | 4049.7 | 22.6 |
| 70°-80° | 1931.7 | 10.8 |
| 80°-90° | 206.4 | 1.2 |
| 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° | 17887.0 | 100.0 |
| 0°-180° | 17887.0 | 100.0 |

Coefficient of Utilization



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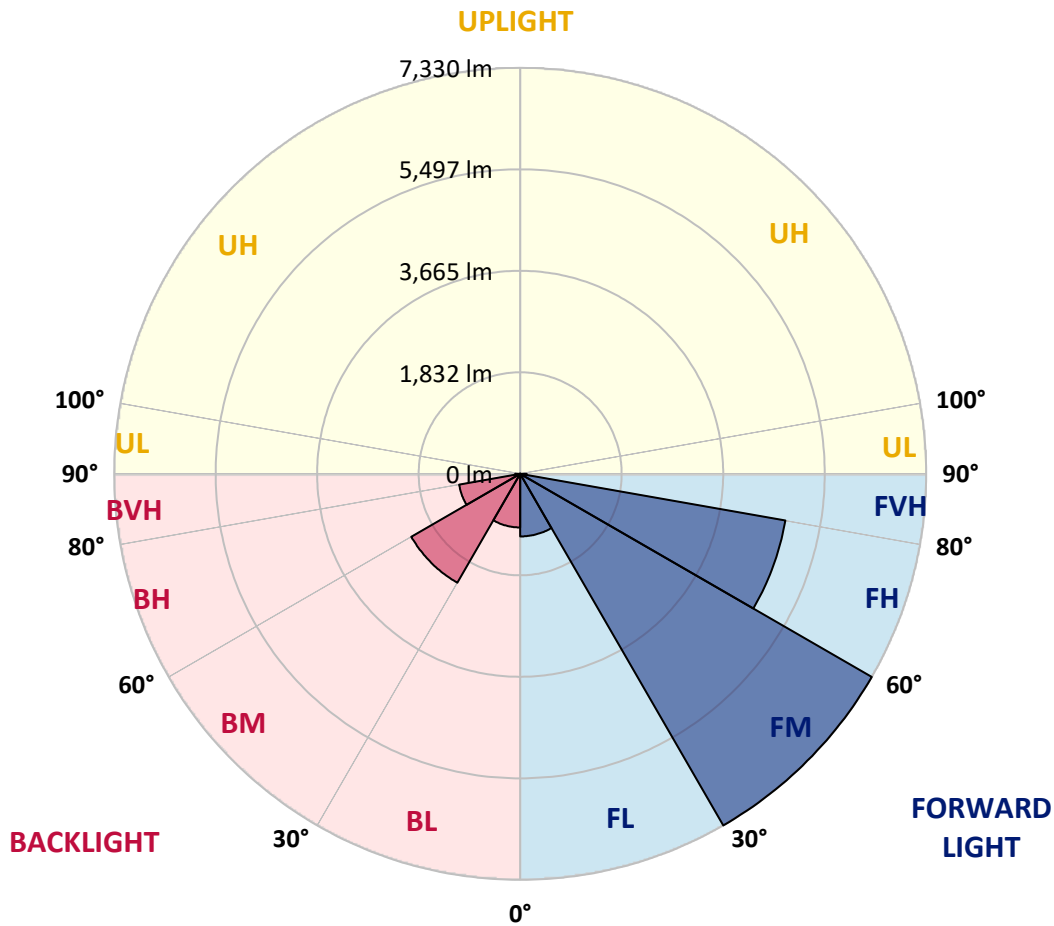
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1130.3 | 6.3 | | | |
| FM (30°-60°) | 7329.9 | 41.0 | | | |
| FH (60°-80°) | 4862.2 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 117.0 | 0.7 | | | G2/225 |
| BL (0°-30°) | 968.8 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 2270.1 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 1119.2 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.4 | 0.5 | | | G1/100 |
| 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° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 |
| 2.5° | 1963.2 | 1974.5 | 1971.7 | 1967.0 | 1966.0 | 1967.9 | 1970.7 | 1973.6 | 1972.6 | 1977.3 |
| 5° | 1957.6 | 1968.9 | 1967.9 | 1967.9 | 1971.7 | 1979.2 | 1983.9 | 1988.6 | 1983.9 | 1989.5 |
| 7.5° | 1961.3 | 1969.8 | 1973.6 | 1977.3 | 1986.7 | 2000.8 | 2012.1 | 2022.4 | 2016.8 | 2023.4 |
| 10° | 2009.3 | 2015.9 | 2019.6 | 2019.6 | 2026.2 | 2042.2 | 2053.4 | 2072.2 | 2067.5 | 2077.9 |
| 12.5° | 2096.7 | 2103.3 | 2103.3 | 2099.5 | 2104.2 | 2114.5 | 2118.3 | 2139.0 | 2130.5 | 2147.4 |
| 15° | 2203.8 | 2217.0 | 2206.6 | 2200.1 | 2201.9 | 2212.3 | 2211.3 | 2227.3 | 2218.9 | 2233.0 |
| 17.5° | 2322.2 | 2339.1 | 2322.2 | 2321.3 | 2317.5 | 2328.8 | 2329.7 | 2343.8 | 2328.8 | 2339.1 |
| 20° | 2462.3 | 2485.8 | 2471.7 | 2476.4 | 2467.9 | 2472.6 | 2477.3 | 2498.0 | 2474.5 | 2482.0 |
| 22.5° | 2659.6 | 2687.8 | 2672.8 | 2690.6 | 2685.0 | 2681.2 | 2680.3 | 2716.9 | 2680.3 | 2683.1 |
| 25° | 2947.2 | 2981.0 | 2954.7 | 2979.1 | 2979.1 | 2991.4 | 3005.5 | 3052.5 | 2991.4 | 2973.5 |
| 27.5° | 3372.0 | 3405.8 | 3354.1 | 3369.2 | 3364.5 | 3394.5 | 3379.5 | 3496.0 | 3430.2 | 3401.1 |
| 30° | 3883.2 | 3943.4 | 3845.6 | 3841.9 | 3837.2 | 3885.1 | 3906.7 | 3983.8 | 3917.1 | 3887.9 |
| 32.5° | 4435.8 | 4498.8 | 4382.3 | 4348.4 | 4330.6 | 4359.7 | 4341.8 | 4403.9 | 4357.8 | 4312.7 |
| 35° | 5020.4 | 5082.4 | 4971.5 | 4905.7 | 4834.3 | 4773.2 | 4709.3 | 4725.3 | 4682.1 | 4613.4 |
| 37.5° | 5573.0 | 5686.7 | 5569.2 | 5498.7 | 5367.2 | 5247.8 | 5069.2 | 4995.0 | 4954.6 | 4891.6 |
| 40° | 6135.9 | 6200.8 | 6111.5 | 6051.3 | 5908.5 | 5721.5 | 5435.8 | 5278.8 | 5224.3 | 5163.2 |
| 42.5° | 6550.4 | 6612.4 | 6564.5 | 6523.1 | 6411.3 | 6194.2 | 5824.8 | 5628.4 | 5549.5 | 5480.9 |
| 45° | 6879.3 | 6925.3 | 6895.3 | 6910.3 | 6862.4 | 6651.9 | 6228.0 | 6003.4 | 5921.6 | 5838.0 |
| 47.5° | 7011.8 | 7060.7 | 7108.6 | 7197.9 | 7279.6 | 7124.6 | 6661.3 | 6409.4 | 6322.9 | 6237.4 |
| 50° | 6996.8 | 7046.6 | 7185.7 | 7375.5 | 7629.2 | 7577.6 | 7118.0 | 6841.7 | 6761.8 | 6664.1 |
| 52.5° | 6876.5 | 6932.9 | 7111.4 | 7427.2 | 7831.3 | 7916.8 | 7583.2 | 7288.1 | 7212.9 | 7096.4 |
| 55° | 6560.7 | 6594.5 | 6862.4 | 7309.7 | 7879.2 | 8153.7 | 8039.0 | 7763.6 | 7688.5 | 7525.9 |
| 57.5° | 5975.2 | 6024.1 | 6414.1 | 6993.0 | 7758.9 | 8314.4 | 8439.3 | 8263.6 | 8191.2 | 7957.2 |
| 60° | 5211.2 | 5289.2 | 5735.6 | 6461.1 | 7452.6 | 8313.4 | 8803.0 | 8755.1 | 8695.0 | 8382.0 |
| 62.5° | 4346.5 | 4436.8 | 4866.3 | 5709.2 | 6916.9 | 8077.5 | 9030.5 | 9166.7 | 9135.7 | 8773.9 |
| 65° | 3338.1 | 3400.2 | 3827.8 | 4736.6 | 6083.3 | 7571.0 | 9056.8 | 9447.7 | 9453.4 | 9071.8 |
| 67.5° | 2222.6 | 2401.2 | 2772.4 | 3554.3 | 4966.8 | 6743.0 | 8825.6 | 9493.8 | 9548.3 | 9174.3 |
| 70° | 1084.5 | 1319.5 | 1683.2 | 2310.0 | 3554.3 | 5473.4 | 8221.3 | 9116.0 | 9237.2 | 8875.4 |
| 72.5° | 450.2 | 526.3 | 724.6 | 1140.0 | 2040.3 | 3693.4 | 7007.1 | 8091.6 | 8316.2 | 7864.2 |
| 75° | 303.6 | 328.9 | 414.4 | 584.6 | 929.5 | 1821.3 | 5053.3 | 6033.5 | 6395.3 | 5939.5 |
| 77.5° | 234.0 | 250.0 | 301.7 | 408.8 | 552.6 | 688.9 | 2704.7 | 3636.1 | 3823.1 | 3539.3 |
| 80° | 184.2 | 196.4 | 225.6 | 297.9 | 391.9 | 368.4 | 921.9 | 1647.5 | 1755.5 | 1472.7 |
| 82.5° | 159.8 | 164.5 | 161.6 | 202.1 | 260.3 | 215.2 | 302.6 | 608.0 | 671.0 | 486.8 |
| 85° | 115.6 | 128.8 | 134.4 | 125.0 | 138.1 | 109.0 | 124.1 | 215.2 | 236.8 | 211.5 |
| 87.5° | 47.0 | 69.5 | 85.5 | 80.8 | 50.7 | 31.0 | 38.5 | 63.0 | 72.4 | 78.9 |
| 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° |
|---------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1983.9 | 0° | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 | 1983.9 |
| 1984.8 | 2.5° | 1985.8 | 1992.4 | 1997.1 | 2002.7 | 2006.5 | 2012.1 | 2023.4 | 2030.0 | 2030.9 | 2035.6 |
| 1999.9 | 5° | 2003.6 | 2013.0 | 2023.4 | 2038.4 | 2055.3 | 2069.4 | 2091.0 | 2106.1 | 2111.7 | 2116.4 |
| 2036.5 | 7.5° | 2042.2 | 2055.3 | 2074.1 | 2100.4 | 2124.9 | 2143.7 | 2170.0 | 2187.8 | 2205.7 | 2212.3 |
| 2094.8 | 10° | 2099.5 | 2118.3 | 2145.5 | 2181.3 | 2207.6 | 2232.0 | 2259.3 | 2274.3 | 2292.2 | 2299.7 |
| 2164.3 | 12.5° | 2170.9 | 2190.7 | 2226.4 | 2276.2 | 2300.6 | 2317.5 | 2326.9 | 2323.2 | 2326.9 | 2333.5 |
| 2248.0 | 15° | 2252.7 | 2274.3 | 2314.7 | 2368.3 | 2385.2 | 2370.2 | 2349.5 | 2330.7 | 2327.9 | 2329.7 |
| 2349.5 | 17.5° | 2349.5 | 2365.5 | 2412.5 | 2457.6 | 2445.3 | 2383.3 | 2338.2 | 2308.1 | 2293.1 | 2288.4 |
| 2479.2 | 20° | 2484.8 | 2484.8 | 2523.3 | 2551.5 | 2469.8 | 2364.5 | 2294.0 | 2245.2 | 2214.2 | 2201.0 |
| 2655.9 | 22.5° | 2649.3 | 2634.2 | 2658.7 | 2638.9 | 2465.1 | 2311.9 | 2214.2 | 2129.6 | 2082.6 | 2063.8 |
| 2903.0 | 25° | 2857.9 | 2840.1 | 2833.5 | 2711.3 | 2431.2 | 2228.3 | 2069.4 | 1967.0 | 1925.6 | 1915.3 |
| 3259.2 | 27.5° | 3172.7 | 3127.6 | 3042.1 | 2750.8 | 2369.2 | 2096.7 | 1900.3 | 1805.3 | 1781.8 | 1782.8 |
| 3716.9 | 30° | 3591.9 | 3501.7 | 3292.1 | 2757.4 | 2267.7 | 1910.6 | 1727.3 | 1659.7 | 1648.4 | 1653.1 |
| 4101.3 | 32.5° | 3980.0 | 3894.5 | 3547.7 | 2727.3 | 2111.7 | 1728.3 | 1572.3 | 1527.2 | 1510.2 | 1515.9 |
| 4394.5 | 35° | 4284.5 | 4261.0 | 3784.5 | 2685.0 | 1920.0 | 1557.2 | 1433.2 | 1394.7 | 1361.8 | 1354.2 |
| 4670.8 | 37.5° | 4572.1 | 4562.7 | 3962.2 | 2625.8 | 1730.2 | 1436.0 | 1321.4 | 1270.6 | 1222.7 | 1196.4 |
| 4976.2 | 40° | 4887.9 | 4878.5 | 4078.7 | 2534.6 | 1561.9 | 1330.7 | 1220.8 | 1154.1 | 1094.9 | 1046.9 |
| 5322.1 | 42.5° | 5243.1 | 5187.7 | 4134.2 | 2404.0 | 1419.1 | 1241.5 | 1139.0 | 1048.8 | 970.8 | 926.6 |
| 5713.0 | 45° | 5631.2 | 5506.3 | 4133.2 | 2237.6 | 1298.8 | 1159.7 | 1051.6 | 923.8 | 851.5 | 810.1 |
| 6114.3 | 47.5° | 6042.9 | 5810.7 | 4082.5 | 2053.4 | 1182.3 | 1069.5 | 916.3 | 818.6 | 770.6 | 745.3 |
| 6550.4 | 50° | 6467.7 | 6095.5 | 3996.0 | 1842.0 | 1062.9 | 967.0 | 831.7 | 765.0 | 728.3 | 704.8 |
| 6982.7 | 52.5° | 6867.1 | 6353.9 | 3891.7 | 1602.3 | 941.7 | 867.4 | 794.1 | 742.4 | 703.9 | 677.6 |
| 7401.8 | 55° | 7238.3 | 6576.7 | 3744.1 | 1357.1 | 843.0 | 800.7 | 776.3 | 733.0 | 688.9 | 657.9 |
| 7827.5 | 57.5° | 7568.2 | 6721.4 | 3489.5 | 1126.8 | 772.5 | 754.7 | 757.5 | 717.1 | 666.3 | 640.0 |
| 8246.7 | 60° | 7842.6 | 6827.6 | 3112.6 | 913.5 | 715.2 | 709.5 | 728.3 | 687.0 | 627.8 | 597.7 |
| 8601.0 | 62.5° | 8007.0 | 6825.7 | 2650.2 | 748.1 | 666.3 | 668.2 | 689.8 | 649.4 | 589.3 | 561.1 |
| 8786.1 | 65° | 7992.9 | 6658.4 | 2142.7 | 640.0 | 619.3 | 621.2 | 649.4 | 608.0 | 557.3 | 540.4 |
| 8693.1 | 67.5° | 7710.1 | 6250.6 | 1643.7 | 569.5 | 567.6 | 576.1 | 609.0 | 579.9 | 537.6 | 535.7 |
| 8138.6 | 70° | 6944.1 | 5403.8 | 1184.1 | 513.1 | 514.1 | 526.3 | 569.5 | 562.0 | 527.2 | 531.0 |
| 6842.6 | 72.5° | 5568.3 | 4120.1 | 795.1 | 453.9 | 454.9 | 474.6 | 531.9 | 547.9 | 516.9 | 566.7 |
| 4855.0 | 75° | 3708.4 | 2569.4 | 511.2 | 391.0 | 391.9 | 417.3 | 499.0 | 520.6 | 488.7 | 564.8 |
| 2526.2 | 77.5° | 1781.8 | 1155.0 | 370.3 | 328.9 | 328.9 | 352.4 | 431.4 | 466.1 | 416.3 | 438.9 |
| 812.0 | 80° | 615.6 | 434.2 | 291.3 | 265.0 | 259.4 | 275.4 | 363.7 | 404.1 | 359.0 | 330.8 |
| 265.0 | 82.5° | 242.5 | 225.6 | 234.0 | 205.8 | 187.0 | 197.4 | 282.9 | 333.6 | 264.1 | 238.7 |
| 149.4 | 85° | 139.1 | 146.6 | 165.4 | 136.3 | 108.1 | 121.2 | 207.7 | 239.6 | 199.2 | 175.7 |
| 48.9 | 87.5° | 37.6 | 51.7 | 76.1 | 70.5 | 48.9 | 51.7 | 98.7 | 132.5 | 114.7 | 88.3 |
| 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> |
|-------------|
| 1983.9 |
| 2034.7 |
| 2115.5 |
| 2213.2 |
| 2303.4 |
| 2335.4 |
| 2336.3 |
| 2295.0 |
| 2198.2 |
| 2061.0 |
| 1917.2 |
| 1785.6 |
| 1669.1 |
| 1523.4 |
| 1359.9 |
| 1197.3 |
| 1051.6 |
| 929.5 |
| 808.2 |
| 739.6 |
| 696.4 |
| 666.3 |
| 645.6 |
| 623.1 |
| 584.6 |
| 552.6 |
| 539.4 |
| 538.5 |
| 530.0 |
| 574.2 |
| 569.5 |
| 402.2 |
| 310.1 |
| 237.8 |
| 179.5 |
| 91.2 |
| 0.0 |

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