

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: P948826

Luminaire Tested: **GALN-SB3D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30347 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

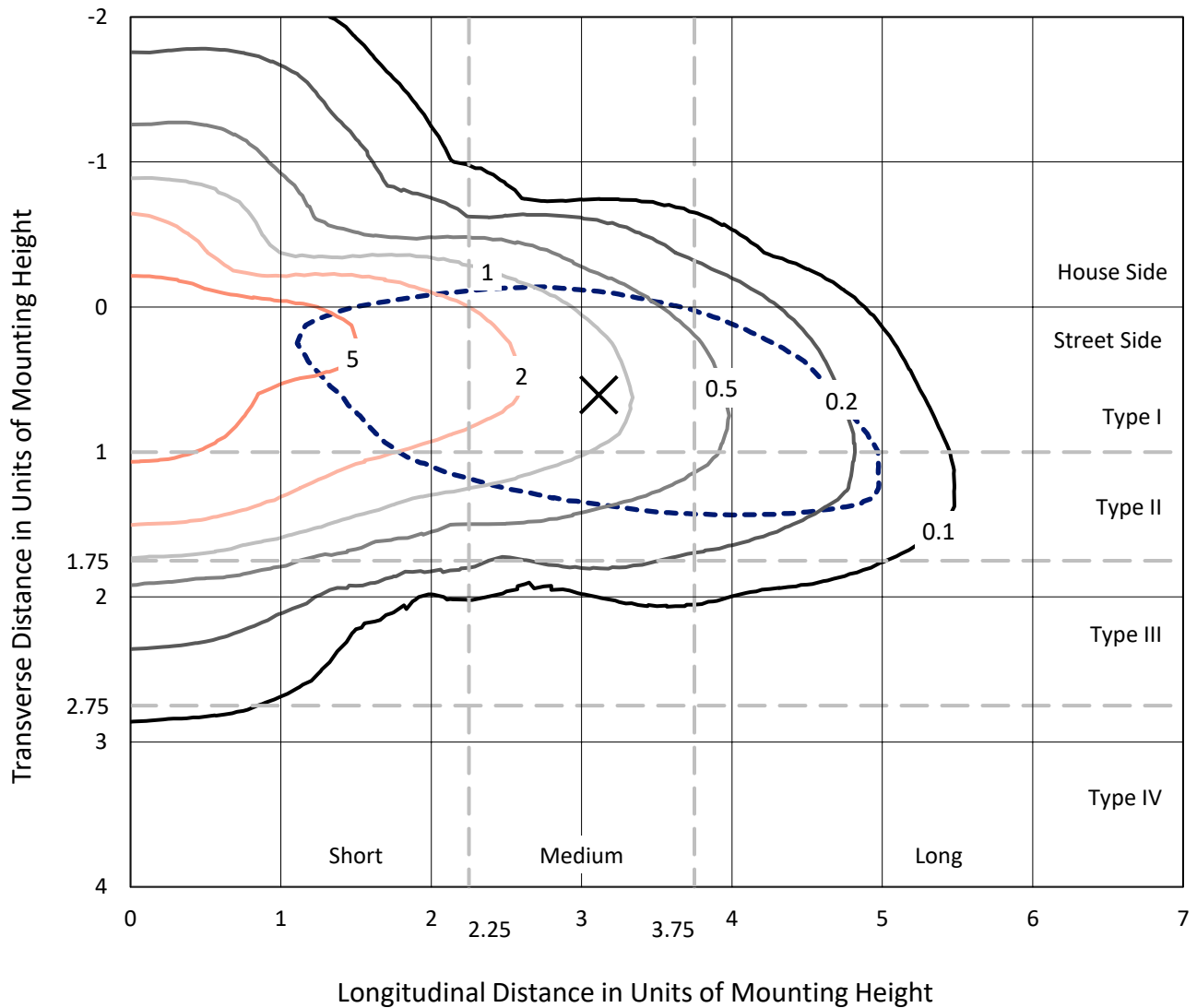
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

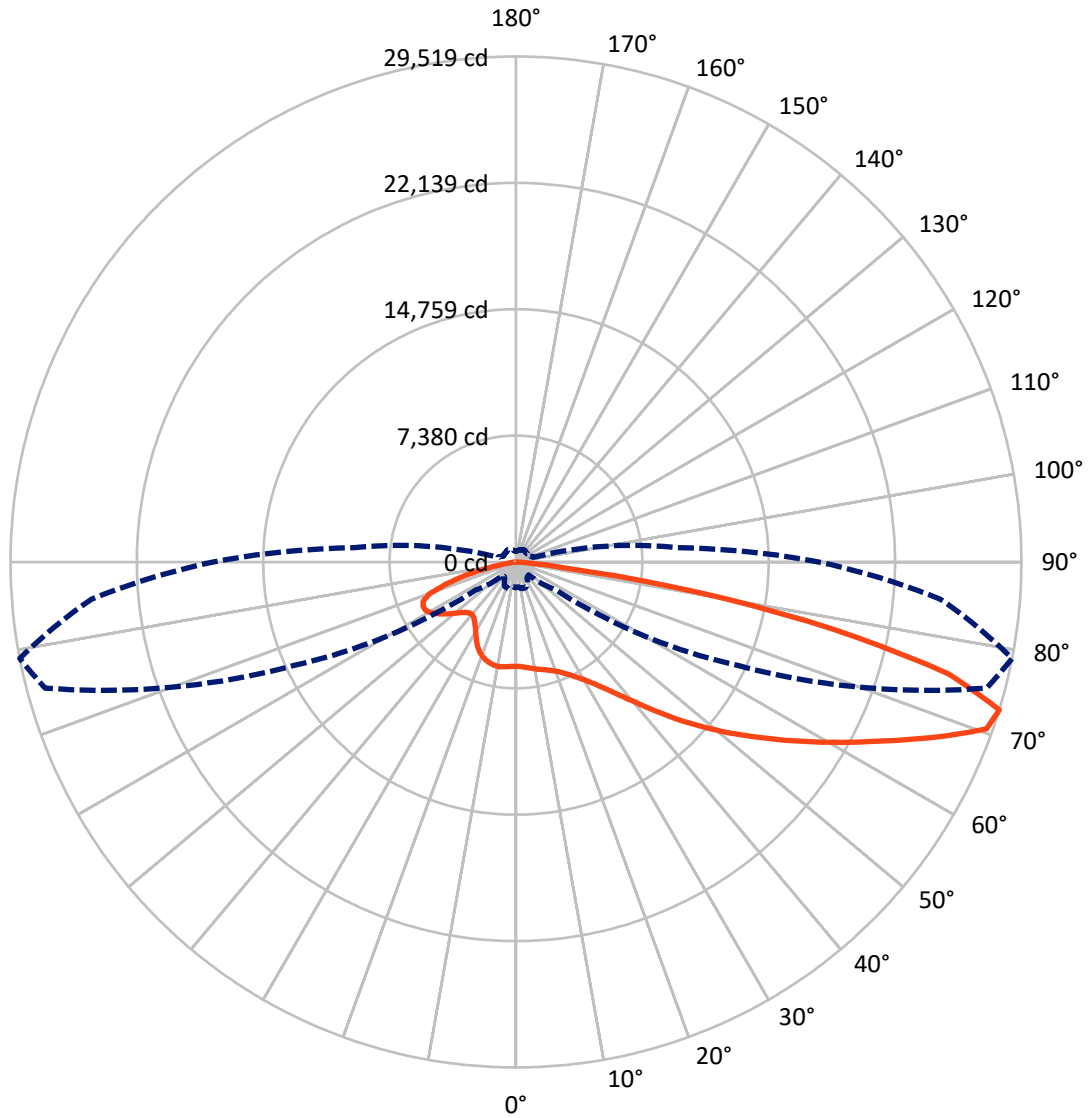
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6678.0 | 0.0 | 6678.0 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 23669.0 | 0.0 | 23669.0 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 30347.0 | 0.0 | 30347.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 553.0 | 1.8 |
| 10°-20° | 1445.7 | 4.8 |
| 20°-30° | 2332.8 | 7.7 |
| 30°-40° | 3501.2 | 11.5 |
| 40°-50° | 4966.7 | 16.4 |
| 50°-60° | 6272.3 | 20.7 |
| 60°-70° | 6370.3 | 21.0 |
| 70°-80° | 4341.7 | 14.3 |
| 80°-90° | 563.3 | 1.9 |
| 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° | 30347.0 | 100.0 |
| 0°-180° | 30347.0 | 100.0 |



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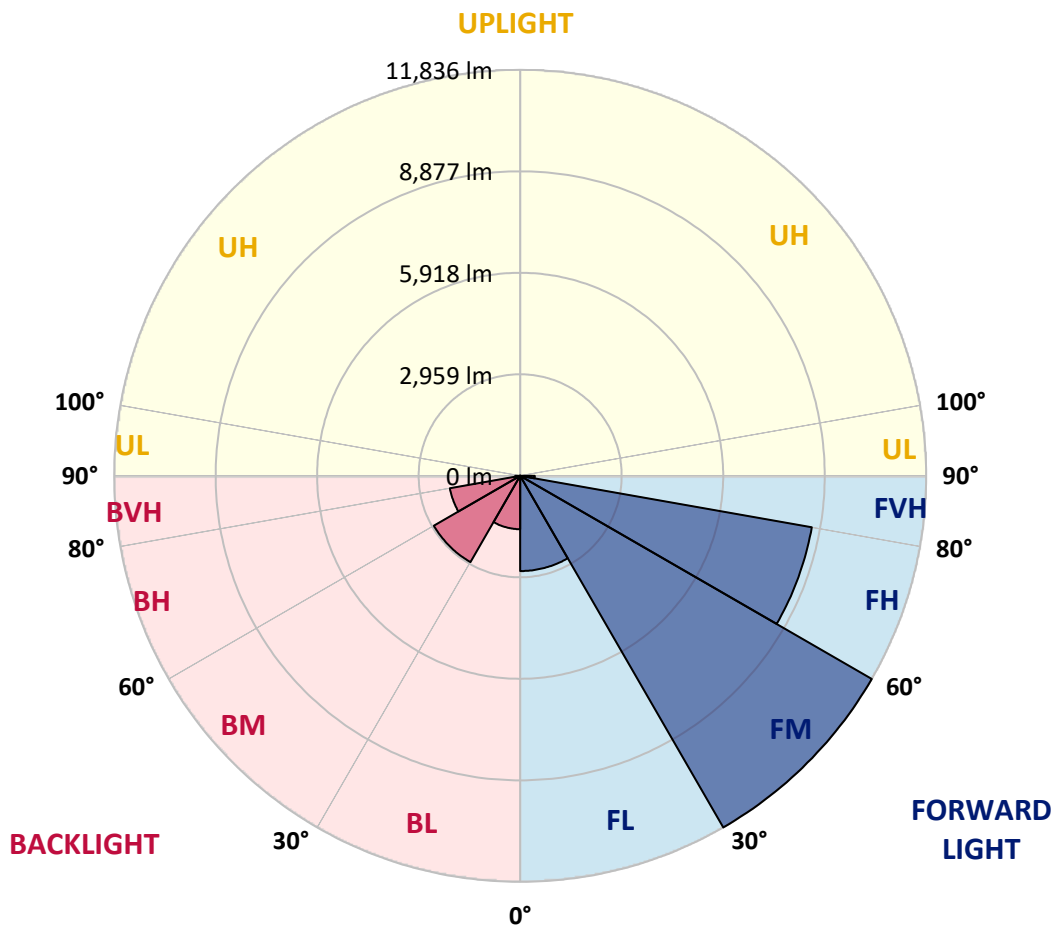
CATALOG NUMBER: GALN-SB3D-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2776.0 | 9.1 | | | |
| FM (30°-60°) | 11836.0 | 39.0 | | | |
| FH (60°-80°) | 8632.7 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 424.3 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1555.5 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2904.2 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 2079.3 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 139.0 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|---------|---------|---------|--------|---------|---------|---------|---------|
| 0° | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 |
| 2.5° | 6095.1 | 6066.2 | 6083.8 | 6077.4 | 6085.5 | 6095.1 | 6098.3 | 6103.1 | 6119.2 | 6117.6 |
| 5° | 6082.2 | 6053.3 | 6077.4 | 6069.4 | 6090.3 | 6112.7 | 6132.0 | 6149.7 | 6175.3 | 6186.6 |
| 7.5° | 6055.0 | 6035.7 | 6059.8 | 6083.8 | 6122.4 | 6156.1 | 6183.4 | 6223.5 | 6260.4 | 6266.8 |
| 10° | 5896.0 | 5881.6 | 5937.8 | 6000.4 | 6106.3 | 6197.8 | 6257.2 | 6303.8 | 6343.9 | 6350.3 |
| 12.5° | 5730.7 | 5713.0 | 5775.6 | 5860.7 | 6032.5 | 6197.8 | 6323.0 | 6384.0 | 6419.3 | 6440.2 |
| 15° | 5703.4 | 5689.0 | 5724.3 | 5798.1 | 5941.0 | 6154.5 | 6368.0 | 6480.3 | 6510.8 | 6534.9 |
| 17.5° | 5835.0 | 5807.7 | 5822.2 | 5847.9 | 5931.3 | 6114.3 | 6403.3 | 6589.5 | 6636.0 | 6661.7 |
| 20° | 6140.0 | 6101.5 | 6079.0 | 6027.7 | 6013.2 | 6120.8 | 6400.1 | 6721.1 | 6782.1 | 6814.2 |
| 22.5° | 6546.2 | 6520.5 | 6472.3 | 6342.3 | 6201.0 | 6199.4 | 6461.1 | 6889.7 | 7003.6 | 7034.1 |
| 25° | 7037.4 | 6998.8 | 6937.8 | 6761.3 | 6490.0 | 6355.1 | 6563.8 | 7104.8 | 7295.8 | 7303.8 |
| 27.5° | 7602.4 | 7544.6 | 7461.1 | 7228.4 | 6862.4 | 6599.1 | 6721.1 | 7352.0 | 7631.3 | 7628.1 |
| 30° | 8197.9 | 8140.2 | 8051.9 | 7769.3 | 7308.6 | 6928.2 | 6939.4 | 7618.5 | 8029.4 | 8011.7 |
| 32.5° | 8633.0 | 8589.6 | 8572.0 | 8353.6 | 7822.3 | 7316.7 | 7189.9 | 7913.8 | 8520.6 | 8504.5 |
| 35° | 8966.8 | 8910.7 | 8931.5 | 8820.8 | 8382.5 | 7751.7 | 7496.5 | 8265.4 | 9117.7 | 9116.1 |
| 37.5° | 9297.5 | 9247.8 | 9265.4 | 9191.6 | 8901.0 | 8303.9 | 7870.5 | 8695.6 | 9857.8 | 9893.1 |
| 40° | 9599.3 | 9546.3 | 9617.0 | 9547.9 | 9303.9 | 8891.4 | 8295.9 | 9182.0 | 10715.0 | 10782.4 |
| 42.5° | 9780.7 | 9739.0 | 9856.2 | 9857.8 | 9653.9 | 9387.4 | 8763.0 | 9718.1 | 11707.0 | 11857.9 |
| 45° | 9843.3 | 9828.9 | 10005.4 | 10042.4 | 9963.7 | 9674.8 | 9183.6 | 10302.4 | 12776.1 | 13045.8 |
| 47.5° | 9775.9 | 9748.6 | 9992.6 | 10129.0 | 10191.6 | 9809.6 | 9531.9 | 10934.9 | 13867.6 | 14262.5 |
| 50° | 9435.6 | 9382.6 | 9745.4 | 10032.7 | 10255.9 | 9897.9 | 9883.4 | 11665.3 | 15108.5 | 15540.3 |
| 52.5° | 8824.0 | 8783.9 | 9196.4 | 9695.6 | 10114.6 | 9941.2 | 10278.3 | 12463.1 | 16286.7 | 16845.3 |
| 55° | 8042.2 | 7989.3 | 8443.5 | 9095.3 | 9763.0 | 9926.8 | 10673.2 | 13355.6 | 17676.9 | 18243.5 |
| 57.5° | 6803.0 | 6697.0 | 7271.7 | 8042.2 | 9190.0 | 9909.1 | 11084.2 | 14243.3 | 19089.5 | 19768.5 |
| 60° | 4995.5 | 4838.2 | 5542.9 | 6456.3 | 8069.5 | 9737.4 | 11593.0 | 15238.5 | 20784.6 | 21396.2 |
| 62.5° | 2908.7 | 2817.2 | 3277.9 | 4130.3 | 6082.2 | 8726.1 | 11878.7 | 16395.9 | 22450.8 | 23092.9 |
| 65° | 2258.6 | 2232.9 | 2273.0 | 2338.8 | 3385.4 | 6533.3 | 10997.5 | 17524.4 | 24569.7 | 25019.2 |
| 67.5° | 2065.9 | 2046.7 | 2064.3 | 1940.7 | 1717.6 | 3639.1 | 8700.4 | 17810.1 | 26839.6 | 27112.4 |
| 70° | 1836.4 | 1813.9 | 1871.7 | 1765.8 | 1351.6 | 1655.0 | 5621.5 | 16773.1 | 28645.4 | 29157.5 |
| 72.5° | 1496.1 | 1470.4 | 1605.2 | 1557.1 | 1138.1 | 1062.7 | 2823.6 | 14309.1 | 28456.0 | 29518.7 |
| 75° | 1149.3 | 1134.9 | 1295.4 | 1335.6 | 927.8 | 836.3 | 1354.8 | 10636.3 | 25041.7 | 26112.4 |
| 77.5° | 892.5 | 881.3 | 963.1 | 1109.2 | 748.0 | 648.5 | 833.1 | 6746.8 | 18871.2 | 19059.0 |
| 80° | 669.4 | 637.3 | 712.7 | 858.8 | 582.7 | 473.5 | 565.0 | 3934.4 | 11928.5 | 10812.9 |
| 82.5° | 419.0 | 402.9 | 465.5 | 573.1 | 410.9 | 325.9 | 367.6 | 2173.5 | 4780.4 | 2815.6 |
| 85° | 239.2 | 232.8 | 253.6 | 327.5 | 223.1 | 187.8 | 210.3 | 959.9 | 873.2 | 600.4 |
| 87.5° | 96.3 | 93.1 | 115.6 | 146.1 | 81.9 | 69.0 | 73.8 | 231.2 | 192.6 | 178.2 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6091.9 | 0° | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 | 6091.9 |
| 6116.0 | 2.5° | 6109.5 | 6109.5 | 6087.1 | 6051.7 | 6011.6 | 5985.9 | 5944.2 | 5933.0 | 5889.6 | 5876.8 |
| 6170.5 | 5° | 6183.4 | 6170.5 | 6101.5 | 6002.0 | 5865.5 | 5740.3 | 5602.3 | 5515.6 | 5393.6 | 5350.3 |
| 6278.1 | 7.5° | 6276.5 | 6241.2 | 6122.4 | 5904.1 | 5618.3 | 5337.4 | 5045.3 | 4823.7 | 4611.8 | 4536.4 |
| 6366.4 | 10° | 6361.6 | 6311.8 | 6109.5 | 5727.5 | 5233.1 | 4746.7 | 4281.2 | 3955.3 | 3708.1 | 3607.0 |
| 6464.3 | 12.5° | 6446.6 | 6355.1 | 6024.5 | 5433.7 | 4685.7 | 4025.9 | 3529.9 | 3276.3 | 3123.8 | 3001.8 |
| 6544.5 | 15° | 6526.9 | 6398.5 | 5892.8 | 5040.4 | 4085.3 | 3415.9 | 3049.9 | 2847.7 | 2725.7 | 2645.4 |
| 6661.7 | 17.5° | 6620.0 | 6435.4 | 5695.4 | 4541.2 | 3513.9 | 2993.8 | 2695.2 | 2573.2 | 2549.1 | 2539.5 |
| 6822.3 | 20° | 6750.0 | 6469.1 | 5435.3 | 3982.6 | 3093.3 | 2656.7 | 2502.6 | 2491.3 | 2489.7 | 2484.9 |
| 7014.9 | 22.5° | 6889.7 | 6509.2 | 5091.8 | 3475.3 | 2735.3 | 2446.4 | 2419.1 | 2396.6 | 2382.2 | 2380.6 |
| 7247.6 | 25° | 7055.0 | 6522.1 | 4661.6 | 3059.6 | 2430.3 | 2346.9 | 2314.8 | 2281.0 | 2271.4 | 2271.4 |
| 7512.5 | 27.5° | 7215.5 | 6478.7 | 4160.8 | 2698.4 | 2258.6 | 2255.4 | 2213.6 | 2202.4 | 2200.8 | 2205.6 |
| 7814.3 | 30° | 7376.1 | 6396.9 | 3663.1 | 2364.5 | 2159.0 | 2159.0 | 2144.6 | 2152.6 | 2159.0 | 2175.1 |
| 8228.4 | 32.5° | 7592.8 | 6310.2 | 3247.4 | 2117.3 | 2072.4 | 2056.3 | 2070.8 | 2086.8 | 2093.2 | 2114.1 |
| 8772.6 | 35° | 7910.6 | 6249.2 | 2916.7 | 1982.5 | 1982.5 | 1961.6 | 1969.6 | 1966.4 | 1952.0 | 1942.3 |
| 9430.8 | 37.5° | 8331.2 | 6246.0 | 2643.8 | 1919.9 | 1907.0 | 1903.8 | 1905.4 | 1884.5 | 1828.4 | 1760.9 |
| 10227.0 | 40° | 8836.8 | 6332.7 | 2433.5 | 1876.5 | 1866.9 | 1886.2 | 1876.5 | 1820.3 | 1666.2 | 1549.1 |
| 11206.2 | 42.5° | 9515.8 | 6579.9 | 2298.7 | 1823.5 | 1852.4 | 1876.5 | 1838.0 | 1643.8 | 1539.4 | 1460.8 |
| 12321.8 | 45° | 10315.2 | 6981.2 | 2229.7 | 1767.4 | 1825.2 | 1854.0 | 1667.8 | 1582.8 | 1499.3 | 1404.6 |
| 13538.6 | 47.5° | 11220.6 | 7486.8 | 2213.6 | 1714.4 | 1764.2 | 1781.8 | 1595.6 | 1557.1 | 1462.4 | 1359.6 |
| 14761.8 | 50° | 12206.2 | 8085.6 | 2257.0 | 1651.8 | 1675.9 | 1614.9 | 1571.5 | 1536.2 | 1438.3 | 1337.2 |
| 16015.4 | 52.5° | 13225.5 | 8745.3 | 2343.6 | 1566.7 | 1587.6 | 1520.2 | 1561.9 | 1531.4 | 1423.8 | 1287.4 |
| 17310.9 | 55° | 14227.2 | 9409.9 | 2427.1 | 1467.2 | 1497.7 | 1435.1 | 1534.6 | 1512.1 | 1358.0 | 1203.9 |
| 18693.0 | 57.5° | 15244.9 | 10071.3 | 2509.0 | 1378.9 | 1411.0 | 1353.2 | 1491.3 | 1460.8 | 1284.2 | 1126.9 |
| 20201.9 | 60° | 16302.8 | 10713.3 | 2547.5 | 1293.8 | 1316.3 | 1277.8 | 1425.4 | 1372.5 | 1200.7 | 1048.2 |
| 21685.1 | 62.5° | 17293.2 | 11247.9 | 2484.9 | 1208.7 | 1223.2 | 1207.1 | 1338.8 | 1268.1 | 1117.2 | 959.9 |
| 23231.0 | 65° | 18286.9 | 11565.7 | 2292.3 | 1125.3 | 1128.5 | 1120.5 | 1216.8 | 1155.8 | 1019.3 | 882.9 |
| 24584.2 | 67.5° | 19187.4 | 11743.9 | 1985.7 | 1035.4 | 1027.4 | 1024.1 | 1102.8 | 1033.8 | 924.6 | 805.8 |
| 25613.2 | 70° | 19378.4 | 11291.2 | 1516.9 | 929.4 | 929.4 | 921.4 | 977.6 | 907.0 | 820.3 | 724.0 |
| 24876.3 | 72.5° | 17699.3 | 9498.2 | 1077.1 | 809.0 | 821.9 | 805.8 | 852.4 | 793.0 | 714.3 | 650.1 |
| 21439.5 | 75° | 14272.2 | 6965.1 | 783.4 | 685.4 | 707.9 | 680.6 | 724.0 | 682.2 | 614.8 | 613.2 |
| 14774.6 | 77.5° | 9806.4 | 4306.8 | 568.3 | 565.0 | 581.1 | 545.8 | 595.5 | 573.1 | 512.1 | 484.8 |
| 6430.6 | 80° | 4184.9 | 1717.6 | 414.2 | 436.6 | 436.6 | 404.5 | 462.3 | 468.7 | 415.8 | 402.9 |
| 1240.8 | 82.5° | 833.1 | 488.0 | 290.5 | 300.2 | 282.5 | 272.9 | 327.5 | 362.8 | 500.8 | 557.0 |
| 374.0 | 85° | 250.4 | 179.8 | 175.0 | 163.7 | 144.5 | 146.1 | 192.6 | 364.4 | 449.5 | 256.8 |
| 123.6 | 87.5° | 69.0 | 44.9 | 46.6 | 36.9 | 30.5 | 40.1 | 65.8 | 276.1 | 150.9 | 64.2 |
| 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> |
|-------------|
| 6091.9 |
| 5897.6 |
| 5382.4 |
| 4546.0 |
| 3629.4 |
| 3041.9 |
| 2659.9 |
| 2545.9 |
| 2501.0 |
| 2398.2 |
| 2281.0 |
| 2218.4 |
| 2186.3 |
| 2131.8 |
| 1964.8 |
| 1762.5 |
| 1545.8 |
| 1457.6 |
| 1398.2 |
| 1351.6 |
| 1325.9 |
| 1277.8 |
| 1195.9 |
| 1123.7 |
| 1043.4 |
| 958.3 |
| 873.2 |
| 796.2 |
| 720.8 |
| 630.9 |
| 552.2 |
| 454.3 |
| 402.9 |
| 558.6 |
| 221.5 |
| 54.6 |
| 0.0 |

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