

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: P954372

Luminaire Tested: **GALN-SB7C-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31684 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

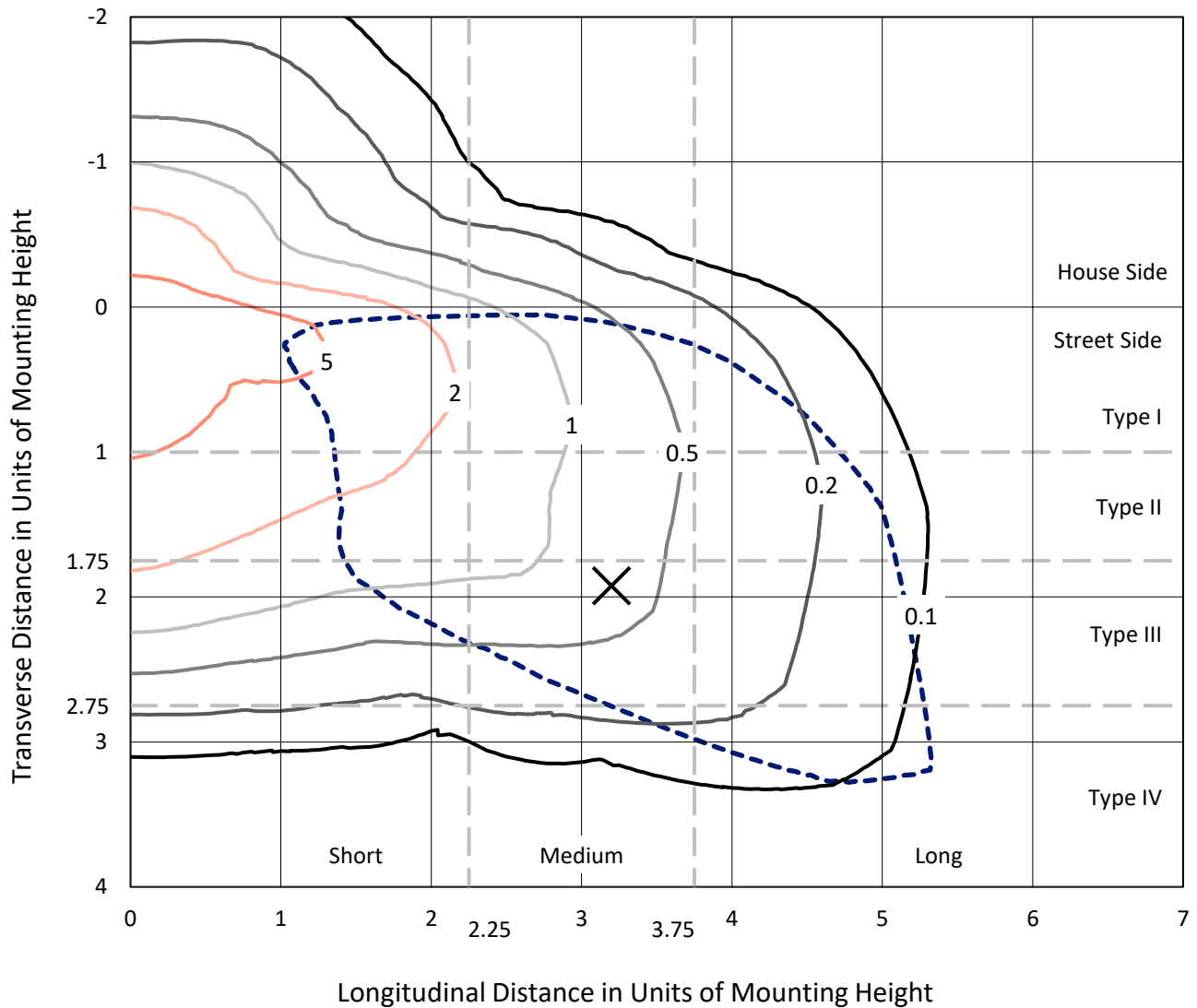
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

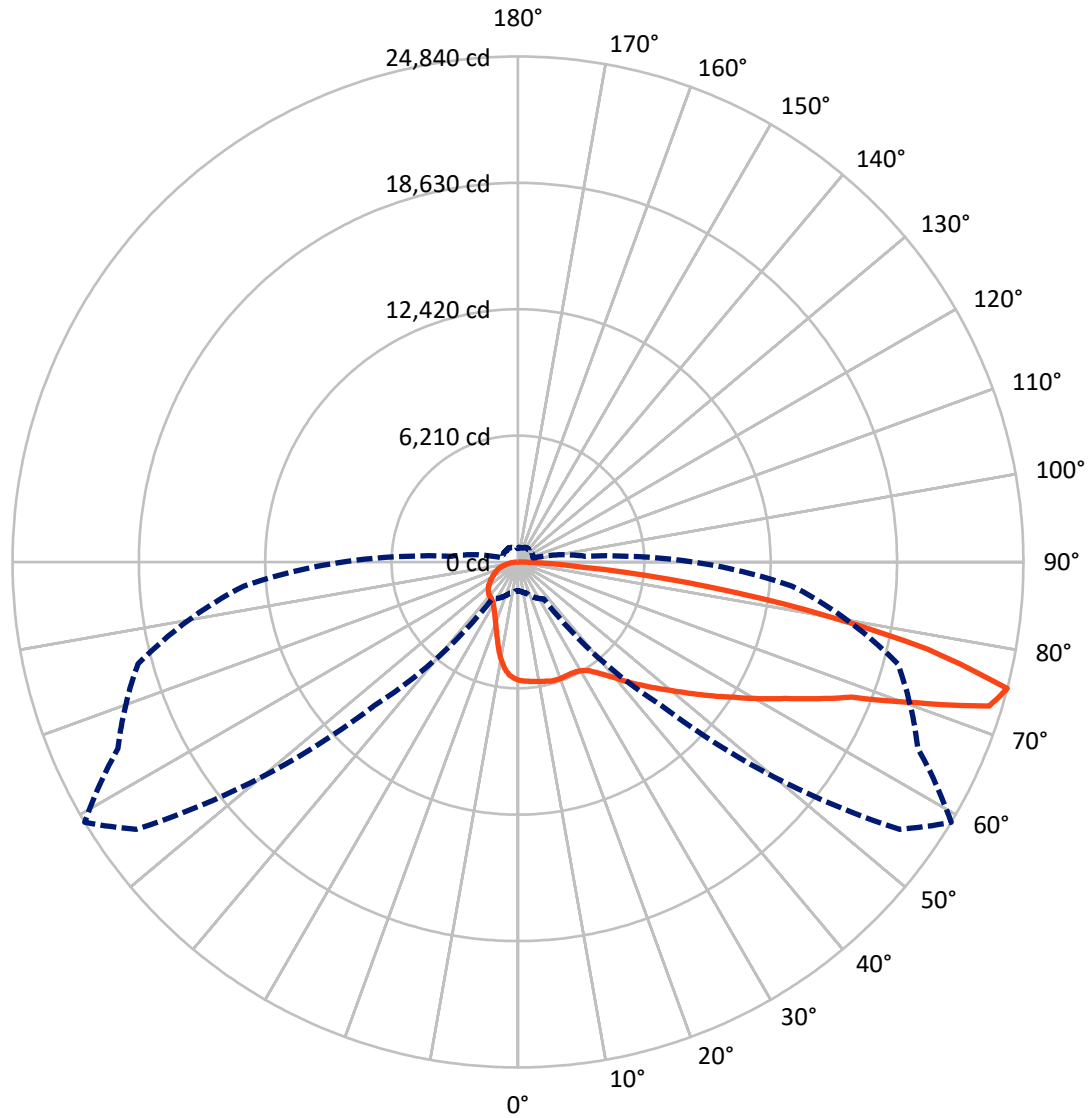
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5942.6 | 0.0 | 5942.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 25741.4 | 0.0 | 25741.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 31684.0 | 0.0 | 31684.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 521.5 | 1.6 |
| 10°-20° | 1332.9 | 4.2 |
| 20°-30° | 2024.5 | 6.4 |
| 30°-40° | 3009.4 | 9.5 |
| 40°-50° | 4475.5 | 14.1 |
| 50°-60° | 6075.0 | 19.2 |
| 60°-70° | 7416.6 | 23.4 |
| 70°-80° | 5820.4 | 18.4 |
| 80°-90° | 1008.2 | 3.2 |
| 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° | 31684.0 | 100.0 |
| 0°-180° | 31684.0 | 100.0 |

Coefficient of Utilization



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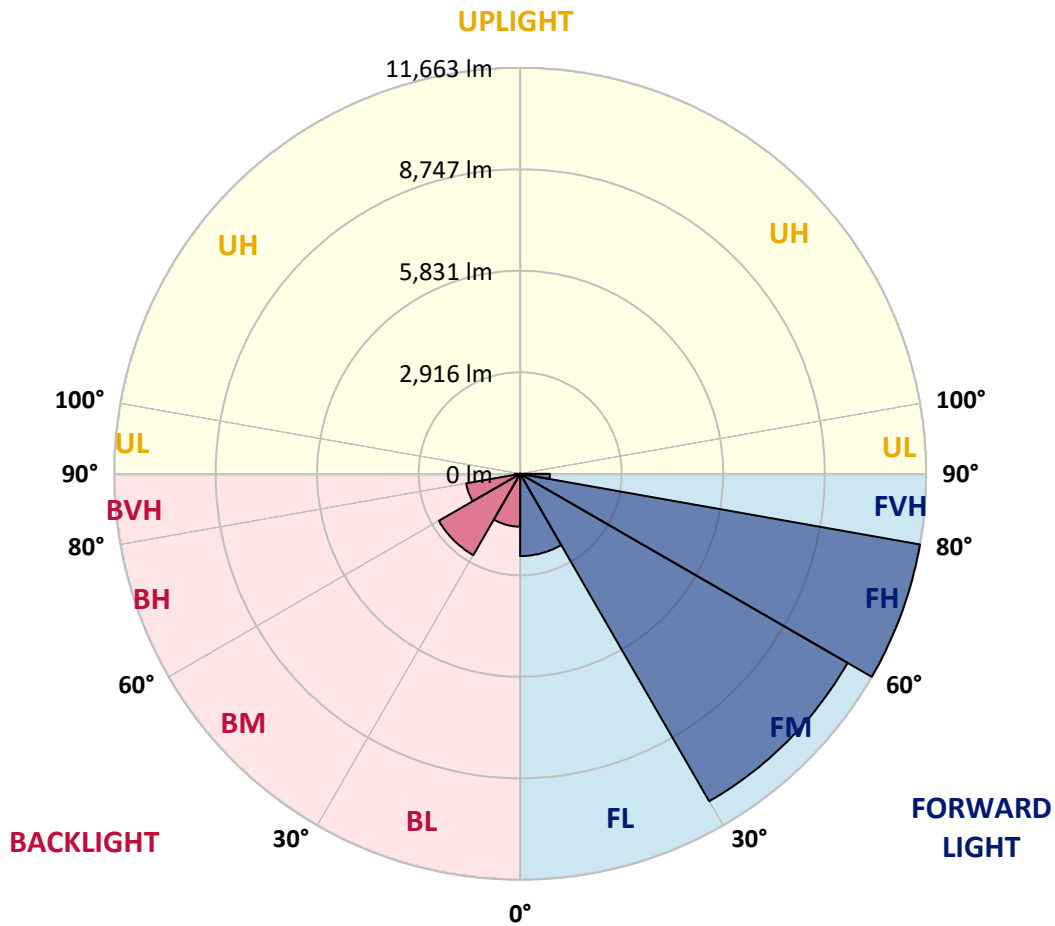
CATALOG NUMBER: GALN-SB7C-927-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2362.4 | 7.5 | | | |
| FM (30°-60°) | 10862.6 | 34.3 | | | |
| FH (60°-80°) | 11662.6 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 853.9 | 2.7 | | | G5 |
| BL (0°-30°) | 1516.5 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2697.3 | 8.5 | B3/5000 | | |
| BH (60°-80°) | 1574.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 154.3 | 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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 |
| 2.5° | 5865.0 | 5844.5 | 5865.0 | 5856.4 | 5853.0 | 5846.2 | 5847.9 | 5859.8 | 5853.0 | 5861.5 |
| 5° | 5825.8 | 5813.8 | 5834.3 | 5829.2 | 5851.3 | 5854.7 | 5876.9 | 5890.5 | 5899.0 | 5900.7 |
| 7.5° | 5761.0 | 5749.1 | 5778.0 | 5801.9 | 5849.6 | 5863.3 | 5909.3 | 5931.4 | 5943.4 | 5963.8 |
| 10° | 5524.1 | 5519.0 | 5590.5 | 5680.9 | 5793.4 | 5863.3 | 5933.1 | 5970.6 | 5989.4 | 6043.9 |
| 12.5° | 5104.8 | 5111.6 | 5205.3 | 5379.2 | 5604.2 | 5829.2 | 5960.4 | 6014.9 | 6043.9 | 6112.1 |
| 15° | 4704.2 | 4702.5 | 4804.8 | 4990.6 | 5305.9 | 5679.2 | 5974.0 | 6067.8 | 6117.2 | 6217.8 |
| 17.5° | 4472.4 | 4465.6 | 4537.2 | 4678.7 | 4971.8 | 5449.1 | 5940.0 | 6096.8 | 6202.4 | 6328.6 |
| 20° | 4429.8 | 4416.2 | 4453.7 | 4523.6 | 4731.5 | 5196.8 | 5851.3 | 6096.8 | 6270.6 | 6434.2 |
| 22.5° | 4584.9 | 4562.8 | 4547.4 | 4538.9 | 4630.9 | 4988.9 | 5750.8 | 6076.3 | 6371.2 | 6585.9 |
| 25° | 4896.8 | 4862.7 | 4784.3 | 4707.6 | 4680.4 | 4895.1 | 5662.1 | 6071.2 | 6521.2 | 6790.5 |
| 27.5° | 5401.4 | 5358.7 | 5200.2 | 5016.1 | 4850.8 | 4942.9 | 5622.9 | 6101.9 | 6686.5 | 7006.9 |
| 30° | 6026.9 | 5980.9 | 5781.4 | 5498.5 | 5201.9 | 5120.1 | 5672.4 | 6192.2 | 6897.8 | 7295.0 |
| 32.5° | 6587.6 | 6536.5 | 6366.1 | 6078.0 | 5677.5 | 5426.9 | 5829.2 | 6364.4 | 7230.2 | 7695.5 |
| 35° | 7085.3 | 7025.7 | 6872.3 | 6606.4 | 6260.4 | 5858.1 | 6112.1 | 6669.4 | 7702.3 | 8346.6 |
| 37.5° | 7572.8 | 7502.9 | 7335.9 | 7054.7 | 6812.6 | 6432.5 | 6502.4 | 7061.5 | 8329.6 | 9137.5 |
| 40° | 8118.2 | 8017.7 | 7814.8 | 7537.0 | 7301.8 | 7105.8 | 7015.4 | 7542.1 | 8967.0 | 10020.4 |
| 42.5° | 8646.6 | 8551.1 | 8309.1 | 8072.2 | 7777.3 | 7721.1 | 7610.3 | 8104.6 | 9664.1 | 10990.2 |
| 45° | 9215.9 | 9101.7 | 8808.5 | 8508.5 | 8322.7 | 8130.1 | 8186.4 | 8667.0 | 10347.6 | 11978.8 |
| 47.5° | 9749.4 | 9621.5 | 9275.5 | 8941.5 | 8839.2 | 8474.4 | 8714.8 | 9285.8 | 11058.4 | 12981.0 |
| 50° | 10037.4 | 9911.3 | 9623.2 | 9321.5 | 9241.4 | 8898.8 | 9287.5 | 9965.8 | 11803.2 | 13979.8 |
| 52.5° | 10277.7 | 10141.4 | 9764.7 | 9597.7 | 9573.8 | 9360.7 | 9993.1 | 10743.0 | 12548.0 | 14862.7 |
| 55° | 10533.4 | 10381.7 | 9901.1 | 9751.1 | 9860.1 | 9878.9 | 10830.0 | 11624.2 | 13335.5 | 15723.4 |
| 57.5° | 10828.3 | 10635.7 | 10032.3 | 9880.6 | 10139.7 | 10485.7 | 11791.3 | 12537.8 | 14109.3 | 16521.1 |
| 60° | 11106.1 | 10911.8 | 10284.6 | 10086.8 | 10441.4 | 11189.6 | 12894.0 | 13644.0 | 14985.4 | 17231.8 |
| 62.5° | 11160.6 | 11000.4 | 10485.7 | 10484.0 | 10850.4 | 12011.1 | 14199.6 | 14760.4 | 15750.7 | 17934.1 |
| 65° | 10216.4 | 10115.8 | 9810.7 | 10468.6 | 11436.7 | 13194.0 | 15653.5 | 16188.7 | 16723.9 | 18547.6 |
| 67.5° | 7775.6 | 7789.3 | 7767.1 | 9036.9 | 10962.9 | 14893.3 | 17758.5 | 17717.6 | 17925.5 | 19236.2 |
| 70° | 3555.4 | 3635.6 | 4157.1 | 6238.2 | 8782.9 | 15089.4 | 21238.9 | 20708.9 | 19434.0 | 20127.7 |
| 72.5° | 1920.9 | 1982.3 | 2195.3 | 3022.0 | 5280.3 | 13415.6 | 23839.9 | 24216.6 | 21440.1 | 20727.6 |
| 75° | 1409.6 | 1443.7 | 1591.9 | 1920.9 | 2217.5 | 9970.9 | 22907.6 | 24840.4 | 21690.6 | 19328.3 |
| 77.5° | 1055.0 | 1070.4 | 1191.4 | 1522.1 | 1135.2 | 5256.5 | 18303.9 | 20572.5 | 18568.1 | 15880.2 |
| 80° | 765.3 | 782.3 | 872.7 | 1142.0 | 796.0 | 1922.6 | 12568.5 | 14440.0 | 12716.8 | 10122.6 |
| 82.5° | 528.4 | 535.2 | 574.4 | 777.2 | 555.6 | 746.5 | 7131.4 | 8467.6 | 7099.0 | 3552.0 |
| 85° | 318.7 | 327.3 | 344.3 | 453.4 | 315.3 | 354.5 | 3078.2 | 3183.9 | 2122.0 | 848.8 |
| 87.5° | 131.2 | 139.8 | 153.4 | 190.9 | 124.4 | 98.9 | 507.9 | 637.5 | 397.1 | 248.8 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5815.5 | 0° | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 | 5815.5 |
| 5832.6 | 2.5° | 5824.0 | 5812.1 | 5779.7 | 5735.4 | 5694.5 | 5643.4 | 5621.2 | 5602.5 | 5585.4 | 5553.0 |
| 5878.6 | 5° | 5859.8 | 5827.5 | 5740.5 | 5628.0 | 5500.2 | 5360.4 | 5224.1 | 5130.3 | 5050.2 | 4990.6 |
| 5931.4 | 7.5° | 5914.4 | 5853.0 | 5694.5 | 5464.4 | 5171.3 | 4871.3 | 4600.3 | 4407.7 | 4262.8 | 4210.0 |
| 6006.4 | 10° | 5970.6 | 5897.3 | 5621.2 | 5215.6 | 4709.4 | 4247.4 | 3887.8 | 3690.1 | 3574.2 | 3536.7 |
| 6095.1 | 12.5° | 6037.1 | 5929.7 | 5507.0 | 4869.6 | 4192.9 | 3686.7 | 3373.1 | 3257.2 | 3197.5 | 3177.1 |
| 6204.1 | 15° | 6134.3 | 5957.0 | 5334.9 | 4436.6 | 3700.3 | 3277.6 | 3074.8 | 2994.7 | 2964.0 | 2962.3 |
| 6316.6 | 17.5° | 6207.5 | 5962.1 | 5067.3 | 3973.0 | 3321.9 | 3030.5 | 2863.4 | 2832.8 | 2853.2 | 2883.9 |
| 6427.4 | 20° | 6289.4 | 5916.1 | 4716.2 | 3550.3 | 3056.0 | 2814.0 | 2744.1 | 2764.6 | 2814.0 | 2858.3 |
| 6574.0 | 22.5° | 6347.3 | 5832.6 | 4291.8 | 3221.4 | 2826.0 | 2689.6 | 2686.2 | 2728.8 | 2756.1 | 2778.2 |
| 6746.1 | 25° | 6398.4 | 5691.1 | 3841.8 | 2945.3 | 2636.8 | 2614.6 | 2652.1 | 2638.5 | 2619.7 | 2638.5 |
| 6918.3 | 27.5° | 6435.9 | 5467.8 | 3439.5 | 2703.2 | 2503.8 | 2563.5 | 2541.3 | 2510.6 | 2508.9 | 2519.2 |
| 7121.1 | 30° | 6424.0 | 5169.5 | 3108.9 | 2473.1 | 2410.1 | 2468.0 | 2415.2 | 2410.1 | 2405.0 | 2410.1 |
| 7426.2 | 32.5° | 6424.0 | 4830.4 | 2854.9 | 2314.6 | 2350.4 | 2328.3 | 2323.1 | 2311.2 | 2290.8 | 2289.1 |
| 7840.4 | 35° | 6459.8 | 4491.2 | 2636.8 | 2229.4 | 2301.0 | 2248.1 | 2251.6 | 2222.6 | 2180.0 | 2159.5 |
| 8389.2 | 37.5° | 6533.1 | 4218.5 | 2420.3 | 2188.5 | 2214.1 | 2212.4 | 2198.7 | 2149.3 | 2074.3 | 2009.5 |
| 9074.4 | 40° | 6710.4 | 4138.4 | 2272.0 | 2169.7 | 2173.2 | 2193.6 | 2157.8 | 2062.4 | 1891.9 | 1786.2 |
| 9769.8 | 42.5° | 6988.2 | 4273.0 | 2239.6 | 2123.7 | 2145.9 | 2166.3 | 2096.5 | 1874.9 | 1753.9 | 1690.8 |
| 10499.3 | 45° | 7341.0 | 4508.2 | 2309.5 | 2057.3 | 2081.1 | 2116.9 | 1909.0 | 1803.3 | 1748.7 | 1750.5 |
| 11222.0 | 47.5° | 7787.6 | 4755.4 | 2439.0 | 1999.3 | 1987.4 | 2007.8 | 1784.5 | 1719.8 | 1644.8 | 1663.5 |
| 11915.7 | 50° | 8304.0 | 5005.9 | 2561.8 | 1920.9 | 1883.4 | 1816.9 | 1704.4 | 1643.1 | 1547.6 | 1503.3 |
| 12585.5 | 52.5° | 8863.1 | 5248.0 | 2611.2 | 1825.4 | 1770.9 | 1694.2 | 1649.9 | 1574.9 | 1459.0 | 1385.7 |
| 13217.9 | 55° | 9393.1 | 5467.8 | 2556.7 | 1711.3 | 1658.4 | 1598.8 | 1591.9 | 1545.9 | 1421.5 | 1319.2 |
| 13780.3 | 57.5° | 9894.2 | 5651.9 | 2420.3 | 1595.3 | 1544.2 | 1508.4 | 1554.4 | 1532.3 | 1375.5 | 1244.2 |
| 14312.1 | 60° | 10318.6 | 5778.0 | 2222.6 | 1477.7 | 1442.0 | 1423.2 | 1493.1 | 1486.3 | 1310.7 | 1164.1 |
| 14789.4 | 62.5° | 10656.1 | 5827.5 | 2004.4 | 1365.3 | 1356.7 | 1322.6 | 1407.9 | 1407.9 | 1228.9 | 1085.7 |
| 15208.7 | 65° | 10920.3 | 5779.7 | 1782.8 | 1254.5 | 1271.5 | 1220.4 | 1303.9 | 1293.7 | 1142.0 | 1015.8 |
| 15691.0 | 67.5° | 11153.8 | 5622.9 | 1537.4 | 1145.4 | 1184.6 | 1119.8 | 1194.8 | 1170.9 | 1046.5 | 946.0 |
| 16108.6 | 70° | 11257.8 | 5258.2 | 1257.9 | 1036.3 | 1084.0 | 1021.0 | 1085.7 | 1041.4 | 939.1 | 871.0 |
| 15650.1 | 72.5° | 10422.6 | 4370.2 | 990.3 | 922.1 | 963.0 | 911.9 | 968.1 | 917.0 | 823.2 | 792.6 |
| 13514.5 | 75° | 8622.7 | 3279.3 | 761.9 | 797.7 | 828.4 | 789.2 | 826.7 | 789.2 | 703.9 | 726.1 |
| 9982.9 | 77.5° | 6262.1 | 2214.1 | 582.9 | 666.4 | 680.1 | 659.6 | 692.0 | 649.4 | 572.7 | 567.6 |
| 4975.2 | 80° | 3114.0 | 1297.1 | 456.8 | 526.7 | 521.6 | 507.9 | 545.4 | 525.0 | 460.2 | 487.5 |
| 1343.1 | 82.5° | 901.6 | 555.6 | 332.4 | 369.9 | 359.6 | 363.0 | 390.3 | 400.5 | 600.0 | 594.8 |
| 417.6 | 85° | 282.9 | 218.2 | 199.4 | 206.2 | 196.0 | 201.1 | 230.1 | 456.8 | 422.7 | 247.1 |
| 129.5 | 87.5° | 73.3 | 75.0 | 49.4 | 52.8 | 54.5 | 64.8 | 73.3 | 277.8 | 132.9 | 86.9 |
| 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> |
|-------------|
| 5815.5 |
| 5537.7 |
| 4941.2 |
| 4117.9 |
| 3478.7 |
| 3182.2 |
| 2969.1 |
| 2895.8 |
| 2873.7 |
| 2790.2 |
| 2650.4 |
| 2536.2 |
| 2428.8 |
| 2311.2 |
| 2180.0 |
| 2031.7 |
| 1799.9 |
| 1690.8 |
| 1759.0 |
| 1711.3 |
| 1515.2 |
| 1384.0 |
| 1319.2 |
| 1237.4 |
| 1159.0 |
| 1080.6 |
| 1009.0 |
| 939.1 |
| 857.3 |
| 767.0 |
| 663.0 |
| 542.0 |
| 482.4 |
| 608.5 |
| 267.6 |
| 92.0 |
| 0.0 |

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