

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: P956857

Luminaire Tested: **GALN-SB9B-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37494 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

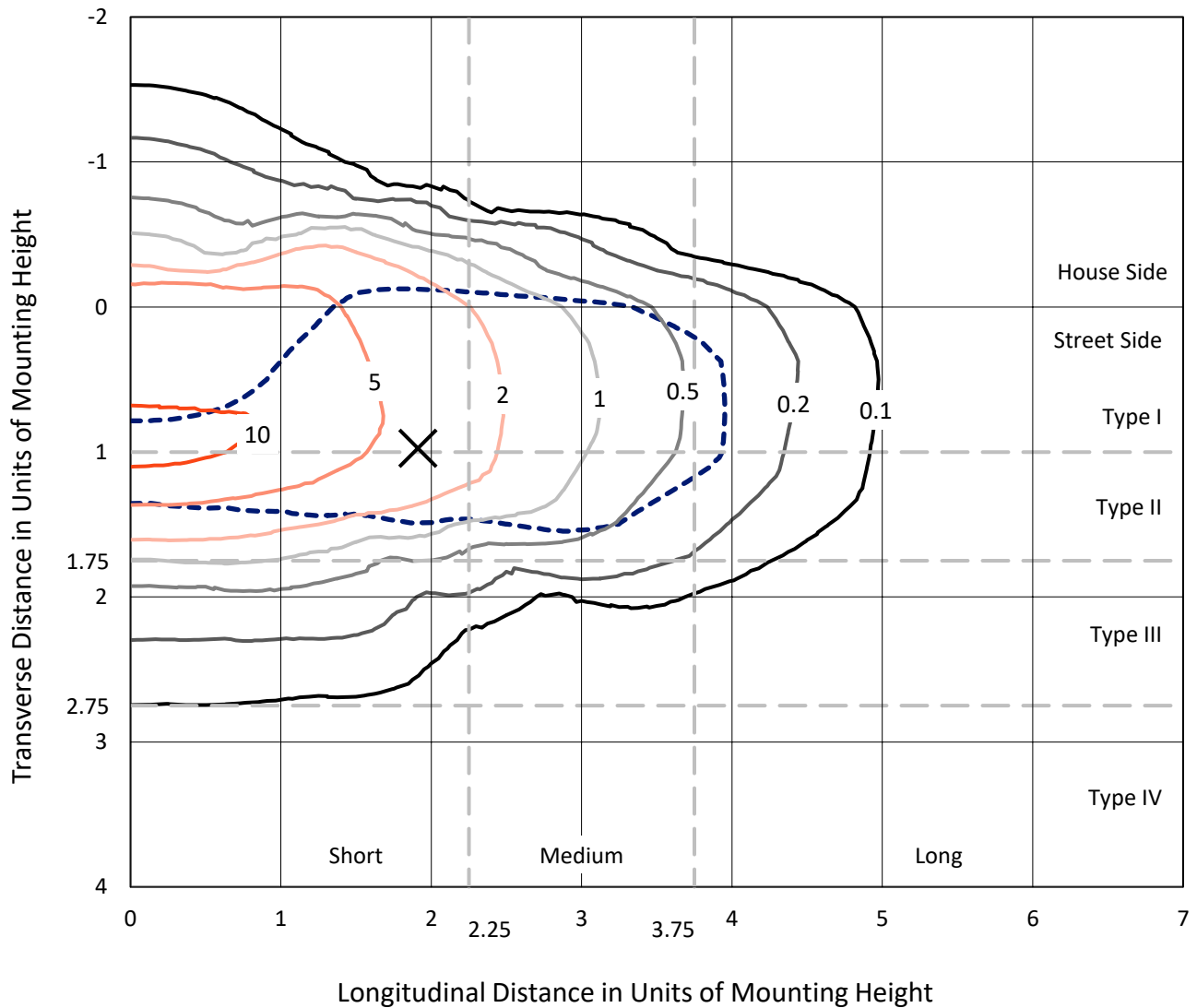
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

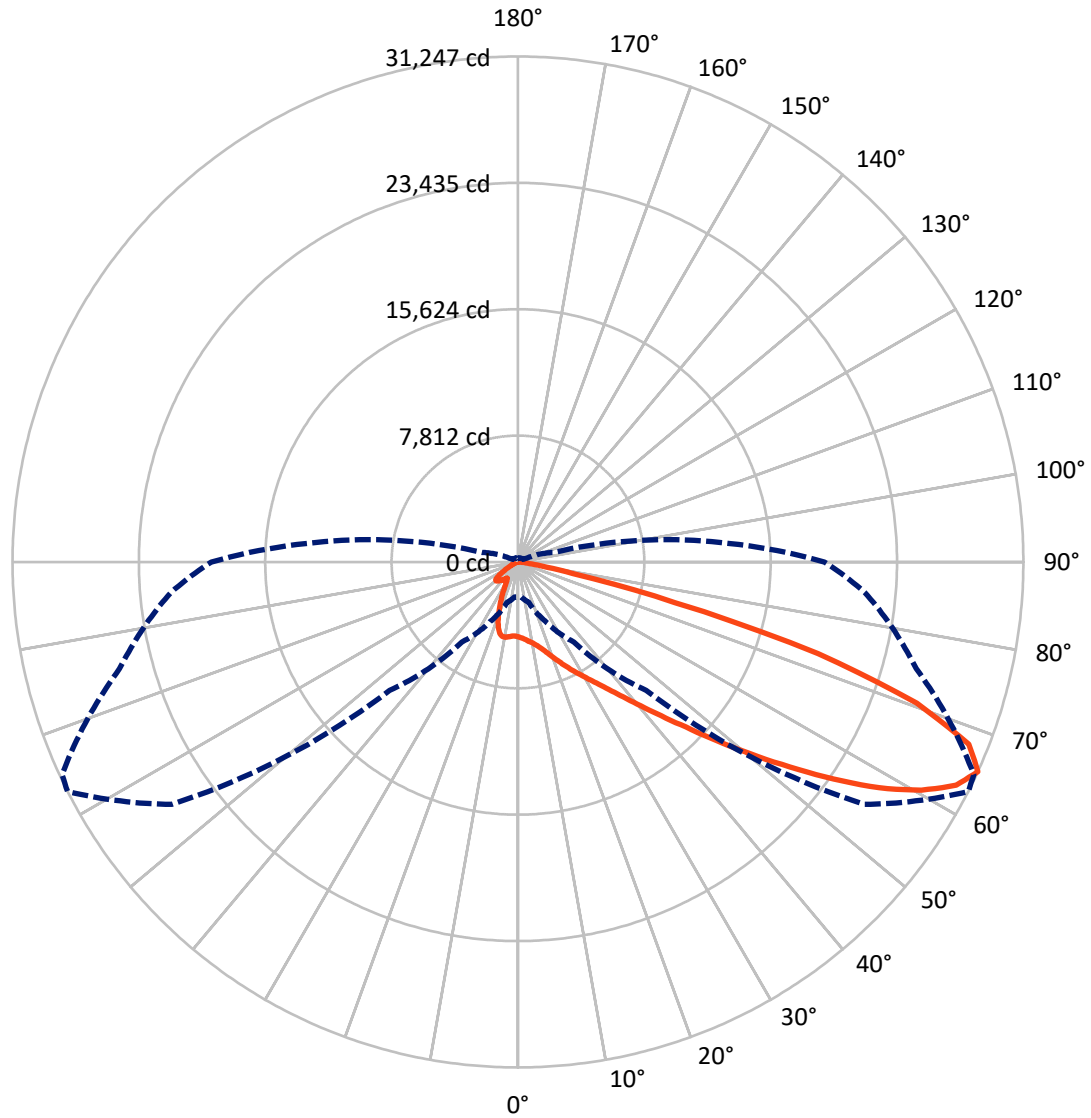
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5511.3 | 0.0 | 5511.3 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 31982.7 | 0.0 | 31982.7 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 37494.0 | 0.0 | 37494.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.0 | 1.2 |
| 10°-20° | 1209.7 | 3.2 |
| 20°-30° | 2106.4 | 5.6 |
| 30°-40° | 3796.6 | 10.1 |
| 40°-50° | 7529.9 | 20.1 |
| 50°-60° | 10257.0 | 27.4 |
| 60°-70° | 8187.1 | 21.8 |
| 70°-80° | 3704.8 | 9.9 |
| 80°-90° | 266.3 | 0.7 |
| 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° | 37494.0 | 100.0 |
| 0°-180° | 37494.0 | 100.0 |

Coefficient of Utilization



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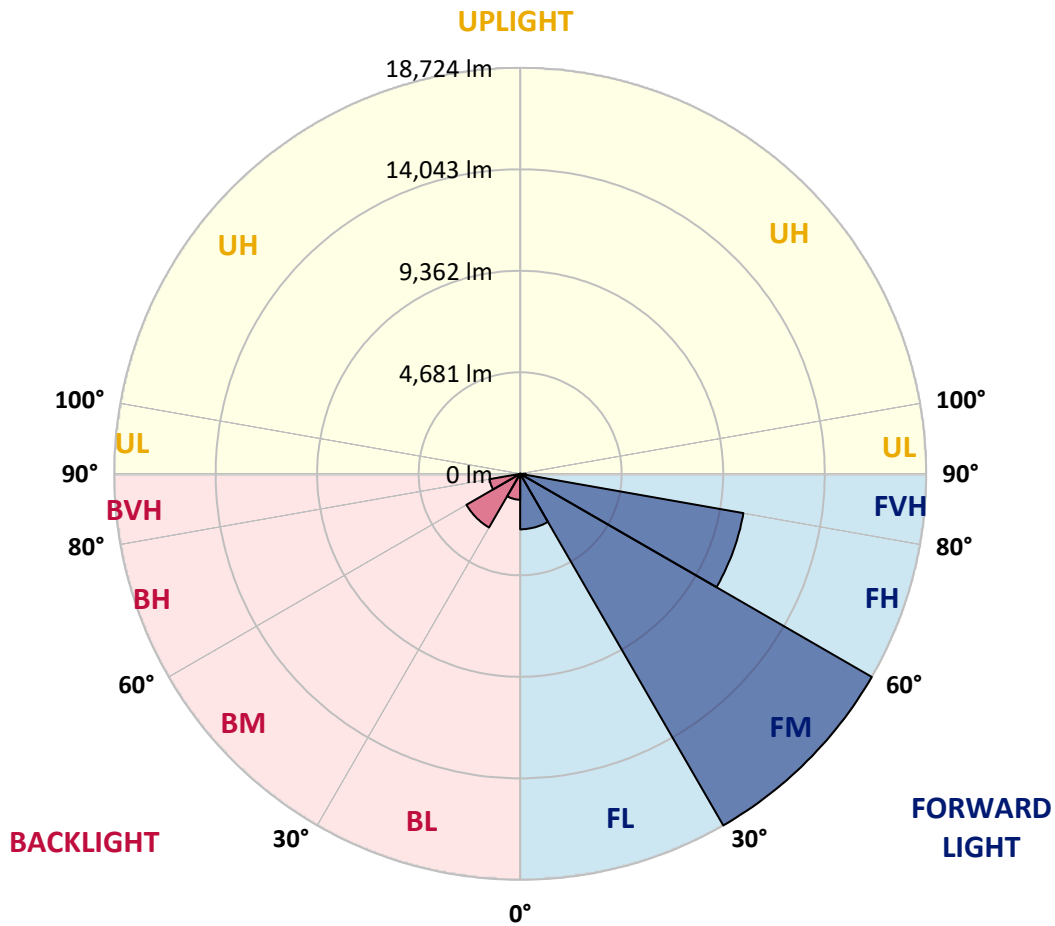
CATALOG NUMBER: GALN-SB9B-850-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2559.4 | 6.8 | | | |
| FM (30°-60°) | 18723.6 | 49.9 | | | |
| FH (60°-80°) | 10453.1 | 27.9 | | | G4/12000 |
| FVH (80°-90°) | 246.5 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1192.7 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 2860.0 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1438.8 | 3.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 19.8 | 0.1 | | | G1/100 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 |
| 2.5° | 4735.8 | 4722.9 | 4741.0 | 4733.2 | 4728.1 | 4717.7 | 4712.6 | 4707.4 | 4697.1 | 4689.4 |
| 5° | 4748.7 | 4741.0 | 4759.0 | 4774.5 | 4790.0 | 4805.4 | 4813.2 | 4823.5 | 4813.2 | 4792.6 |
| 7.5° | 4640.4 | 4635.2 | 4673.9 | 4720.3 | 4790.0 | 4849.3 | 4913.8 | 4949.9 | 4952.5 | 4944.7 |
| 10° | 4632.6 | 4619.7 | 4658.4 | 4715.2 | 4805.4 | 4911.2 | 5024.7 | 5102.1 | 5112.4 | 5145.9 |
| 12.5° | 4753.9 | 4741.0 | 4795.1 | 4857.0 | 4949.9 | 5060.8 | 5200.1 | 5308.4 | 5323.9 | 5370.3 |
| 15° | 4957.6 | 4939.6 | 5001.5 | 5081.4 | 5200.1 | 5326.5 | 5473.5 | 5571.5 | 5584.4 | 5641.2 |
| 17.5° | 5194.9 | 5176.9 | 5249.1 | 5334.2 | 5463.2 | 5636.0 | 5806.3 | 5914.6 | 5930.1 | 5966.2 |
| 20° | 5499.3 | 5476.1 | 5532.8 | 5610.2 | 5746.9 | 5953.3 | 6157.1 | 6311.8 | 6309.2 | 6309.2 |
| 22.5° | 5852.7 | 5816.6 | 5865.6 | 5927.5 | 6056.5 | 6306.7 | 6577.5 | 6760.6 | 6760.6 | 6688.4 |
| 25° | 6231.9 | 6195.8 | 6249.9 | 6306.7 | 6420.2 | 6703.9 | 7021.2 | 7248.2 | 7258.5 | 7134.7 |
| 27.5° | 6706.5 | 6660.0 | 6701.3 | 6768.4 | 6835.4 | 7124.3 | 7500.9 | 7764.0 | 7769.2 | 7578.3 |
| 30° | 7619.6 | 7488.0 | 7359.1 | 7286.8 | 7317.8 | 7604.1 | 8006.5 | 8298.0 | 8323.8 | 8060.7 |
| 32.5° | 9291.0 | 9265.3 | 8811.3 | 8218.0 | 7908.5 | 8120.0 | 8571.4 | 8922.2 | 8937.7 | 8599.8 |
| 35° | 11888.5 | 11857.6 | 11127.6 | 9997.8 | 8989.3 | 8811.3 | 9257.5 | 9672.8 | 9662.5 | 9280.7 |
| 37.5° | 14989.0 | 14960.6 | 13998.5 | 12486.9 | 10854.2 | 9855.9 | 10142.3 | 10578.2 | 10642.7 | 10142.3 |
| 40° | 17638.0 | 17532.3 | 16923.5 | 15466.2 | 13330.4 | 11589.3 | 11401.0 | 11689.9 | 11757.0 | 11163.7 |
| 42.5° | 19644.8 | 19554.5 | 19245.0 | 18334.5 | 16327.7 | 14153.2 | 12884.2 | 12995.1 | 13069.9 | 12358.0 |
| 45° | 20684.3 | 20663.7 | 20787.5 | 20702.4 | 19381.7 | 17300.1 | 15004.4 | 14542.7 | 14571.1 | 13681.2 |
| 47.5° | 20831.3 | 20821.0 | 21385.9 | 22185.5 | 22007.6 | 20849.4 | 17725.7 | 16472.1 | 16371.5 | 15174.7 |
| 50° | 19964.7 | 19944.0 | 21027.4 | 22526.0 | 23761.6 | 23831.2 | 20815.9 | 18646.6 | 18424.8 | 16719.8 |
| 52.5° | 17197.0 | 17191.8 | 18971.6 | 21465.9 | 24378.0 | 26441.6 | 23869.9 | 21035.1 | 20663.7 | 18355.1 |
| 55° | 13232.4 | 13327.8 | 15368.1 | 18316.4 | 23253.4 | 27697.7 | 26611.8 | 23686.8 | 23116.7 | 20000.8 |
| 57.5° | 9373.6 | 9512.9 | 11530.0 | 14155.8 | 19766.0 | 26954.9 | 28466.4 | 26343.6 | 25729.7 | 21641.3 |
| 60° | 5035.0 | 5158.8 | 7178.5 | 10312.5 | 14705.2 | 24184.6 | 29444.0 | 28649.5 | 28069.2 | 23199.2 |
| 62.5° | 2999.9 | 3041.1 | 3876.9 | 6657.5 | 9946.2 | 18476.3 | 29028.7 | 30406.1 | 29928.9 | 24507.0 |
| 65° | 2153.8 | 2161.5 | 2582.0 | 4065.2 | 6038.4 | 11225.6 | 26116.6 | 31247.0 | 31100.0 | 25492.3 |
| 67.5° | 1813.3 | 1808.2 | 1983.6 | 2700.6 | 4114.2 | 5623.1 | 20016.2 | 30057.9 | 30682.1 | 26116.6 |
| 70° | 1555.4 | 1563.1 | 1769.5 | 1978.4 | 3092.7 | 3183.0 | 9951.4 | 26170.7 | 27501.7 | 26281.6 |
| 72.5° | 1158.2 | 1184.0 | 1374.8 | 1803.0 | 2334.4 | 2189.9 | 3435.8 | 19404.9 | 21811.5 | 24762.4 |
| 75° | 817.7 | 830.6 | 967.3 | 1516.7 | 1741.1 | 1594.1 | 1754.0 | 10031.3 | 13116.3 | 18984.5 |
| 77.5° | 629.4 | 652.6 | 732.6 | 1060.1 | 1715.3 | 1119.5 | 1073.0 | 3471.9 | 5334.2 | 11468.1 |
| 80° | 340.5 | 381.8 | 528.8 | 766.1 | 1204.6 | 791.9 | 531.4 | 1382.6 | 1808.2 | 5362.6 |
| 82.5° | 175.4 | 196.0 | 368.9 | 552.0 | 686.1 | 691.3 | 263.1 | 575.2 | 745.5 | 1656.0 |
| 85° | 69.6 | 85.1 | 247.6 | 304.4 | 353.4 | 340.5 | 118.7 | 232.1 | 268.3 | 459.1 |
| 87.5° | 15.5 | 25.8 | 90.3 | 69.6 | 67.1 | 72.2 | 28.4 | 54.2 | 51.6 | 54.2 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4627.5 | 0° | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 | 4627.5 |
| 4658.4 | 2.5° | 4655.8 | 4645.5 | 4617.2 | 4586.2 | 4550.1 | 4529.5 | 4516.6 | 4514.0 | 4495.9 | 4483.0 |
| 4761.6 | 5° | 4733.2 | 4722.9 | 4668.7 | 4604.3 | 4534.6 | 4480.4 | 4428.9 | 4382.4 | 4315.4 | 4302.5 |
| 4911.2 | 7.5° | 4888.0 | 4859.6 | 4771.9 | 4684.2 | 4552.7 | 4395.3 | 4204.4 | 3985.2 | 3789.2 | 3729.8 |
| 5109.8 | 10° | 5078.9 | 5040.2 | 4929.3 | 4774.5 | 4483.0 | 4054.8 | 3593.1 | 3164.9 | 2824.5 | 2729.0 |
| 5344.5 | 12.5° | 5295.5 | 5262.0 | 5115.0 | 4828.7 | 4191.5 | 3415.1 | 2708.4 | 2177.0 | 1846.9 | 1764.3 |
| 5594.7 | 15° | 5553.5 | 5504.5 | 5300.7 | 4746.1 | 3670.5 | 2594.9 | 1859.8 | 1545.1 | 1426.4 | 1410.9 |
| 5881.1 | 17.5° | 5826.9 | 5746.9 | 5465.8 | 4449.5 | 2968.9 | 1844.3 | 1436.7 | 1346.5 | 1294.9 | 1279.4 |
| 6170.0 | 20° | 6077.1 | 5973.9 | 5563.8 | 4000.7 | 2218.3 | 1436.7 | 1287.1 | 1227.8 | 1181.4 | 1163.3 |
| 6458.9 | 22.5° | 6327.3 | 6180.3 | 5563.8 | 3389.3 | 1663.7 | 1274.2 | 1181.4 | 1127.2 | 1073.0 | 1049.8 |
| 6768.4 | 25° | 6587.8 | 6391.8 | 5465.8 | 2708.4 | 1338.7 | 1168.5 | 1080.8 | 1021.4 | 975.0 | 946.6 |
| 7062.4 | 27.5° | 6840.6 | 6569.8 | 5241.4 | 2063.5 | 1191.7 | 1075.6 | 987.9 | 931.2 | 887.3 | 866.7 |
| 7382.3 | 30° | 7080.5 | 6745.2 | 4926.7 | 1565.7 | 1096.3 | 985.3 | 902.8 | 853.8 | 809.9 | 789.3 |
| 7797.6 | 32.5° | 7405.5 | 6967.0 | 4591.4 | 1284.5 | 1013.7 | 900.2 | 825.4 | 779.0 | 740.3 | 724.8 |
| 8336.7 | 35° | 7856.9 | 7294.6 | 4302.5 | 1261.3 | 944.1 | 830.6 | 755.8 | 711.9 | 673.2 | 660.3 |
| 9033.1 | 37.5° | 8496.6 | 7823.4 | 4150.3 | 1416.1 | 887.3 | 768.7 | 699.0 | 652.6 | 616.5 | 606.2 |
| 9917.8 | 40° | 9285.9 | 8540.4 | 4232.8 | 1570.9 | 848.6 | 714.5 | 647.4 | 601.0 | 570.1 | 557.2 |
| 10934.1 | 42.5° | 10222.2 | 9425.2 | 4689.4 | 1689.5 | 822.8 | 668.1 | 598.4 | 546.8 | 526.2 | 521.0 |
| 12087.1 | 45° | 11297.8 | 10397.6 | 5388.4 | 1815.9 | 781.6 | 624.2 | 549.4 | 510.7 | 495.2 | 492.7 |
| 13340.7 | 47.5° | 12520.5 | 11465.5 | 6198.3 | 1973.3 | 740.3 | 582.9 | 510.7 | 484.9 | 472.0 | 466.9 |
| 14648.5 | 50° | 13732.8 | 12541.1 | 7031.5 | 2061.0 | 706.8 | 544.3 | 479.8 | 459.1 | 448.8 | 446.2 |
| 16031.1 | 52.5° | 15001.9 | 13647.7 | 7704.7 | 1978.4 | 678.4 | 513.3 | 454.0 | 438.5 | 428.2 | 425.6 |
| 17305.3 | 55° | 16211.6 | 14542.7 | 7820.8 | 1679.2 | 621.6 | 482.4 | 425.6 | 417.9 | 405.0 | 405.0 |
| 18597.6 | 57.5° | 17253.7 | 14991.6 | 7000.5 | 1233.0 | 564.9 | 435.9 | 397.2 | 389.5 | 379.2 | 376.6 |
| 19763.5 | 60° | 18210.7 | 14862.6 | 5403.9 | 830.6 | 503.0 | 389.5 | 361.1 | 356.0 | 345.6 | 332.7 |
| 20777.2 | 62.5° | 18749.8 | 14295.1 | 3696.3 | 541.7 | 441.1 | 340.5 | 319.8 | 317.3 | 294.1 | 268.3 |
| 21527.8 | 65° | 18953.5 | 13129.2 | 2306.0 | 394.7 | 368.9 | 291.5 | 276.0 | 270.8 | 237.3 | 208.9 |
| 21953.4 | 67.5° | 18775.6 | 11210.1 | 1163.3 | 312.1 | 291.5 | 242.5 | 227.0 | 227.0 | 203.8 | 178.0 |
| 21927.6 | 70° | 18063.6 | 8403.7 | 490.1 | 250.2 | 224.4 | 185.7 | 185.7 | 196.0 | 172.8 | 144.4 |
| 20790.1 | 72.5° | 16518.6 | 5654.1 | 260.5 | 190.9 | 167.7 | 131.6 | 152.2 | 159.9 | 136.7 | 108.3 |
| 17016.4 | 75° | 13131.8 | 3448.7 | 180.6 | 141.9 | 105.8 | 92.9 | 116.1 | 121.2 | 92.9 | 72.2 |
| 11666.7 | 77.5° | 8981.5 | 1981.0 | 121.2 | 90.3 | 67.1 | 54.2 | 80.0 | 74.8 | 49.0 | 33.5 |
| 4498.5 | 80° | 3943.9 | 825.4 | 69.6 | 41.3 | 25.8 | 20.6 | 28.4 | 20.6 | 15.5 | 10.3 |
| 616.5 | 82.5° | 461.7 | 193.5 | 25.8 | 15.5 | 10.3 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 188.3 | 85° | 95.4 | 23.2 | 12.9 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.5 | 87.5° | 18.1 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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> |
|-------------|
| 4627.5 |
| 4495.9 |
| 4297.3 |
| 3701.5 |
| 2692.9 |
| 1741.1 |
| 1395.5 |
| 1271.7 |
| 1153.0 |
| 1036.9 |
| 936.3 |
| 866.7 |
| 791.9 |
| 724.8 |
| 660.3 |
| 603.6 |
| 554.6 |
| 521.0 |
| 490.1 |
| 466.9 |
| 446.2 |
| 425.6 |
| 402.4 |
| 374.0 |
| 330.2 |
| 263.1 |
| 206.4 |
| 175.4 |
| 141.9 |
| 108.3 |
| 69.6 |
| 36.1 |
| 10.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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