

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: P954926

Luminaire Tested: **GALN-SB8A-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38890 lumens
Efficiency: N/A
Efficacy: 171.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

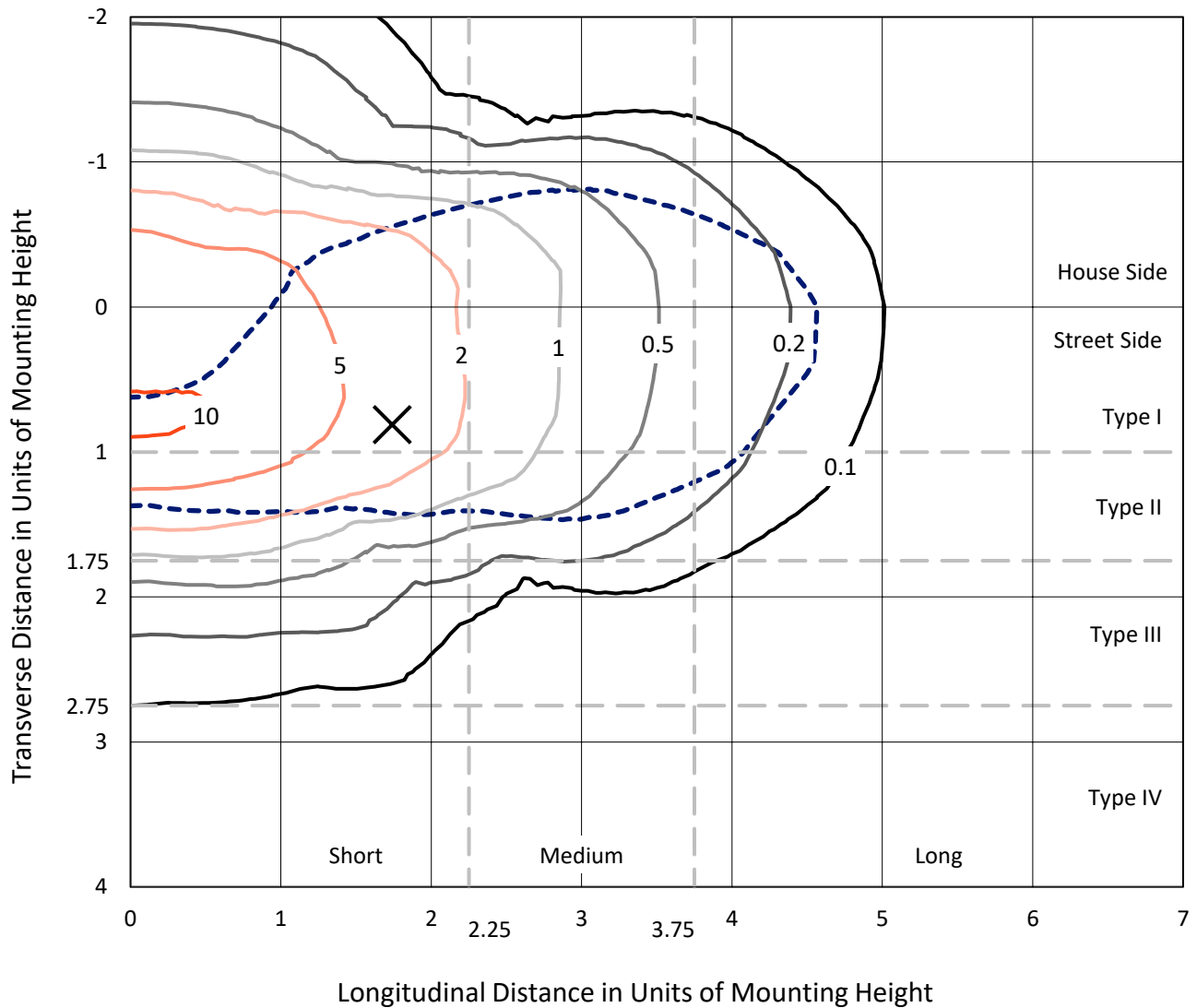
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

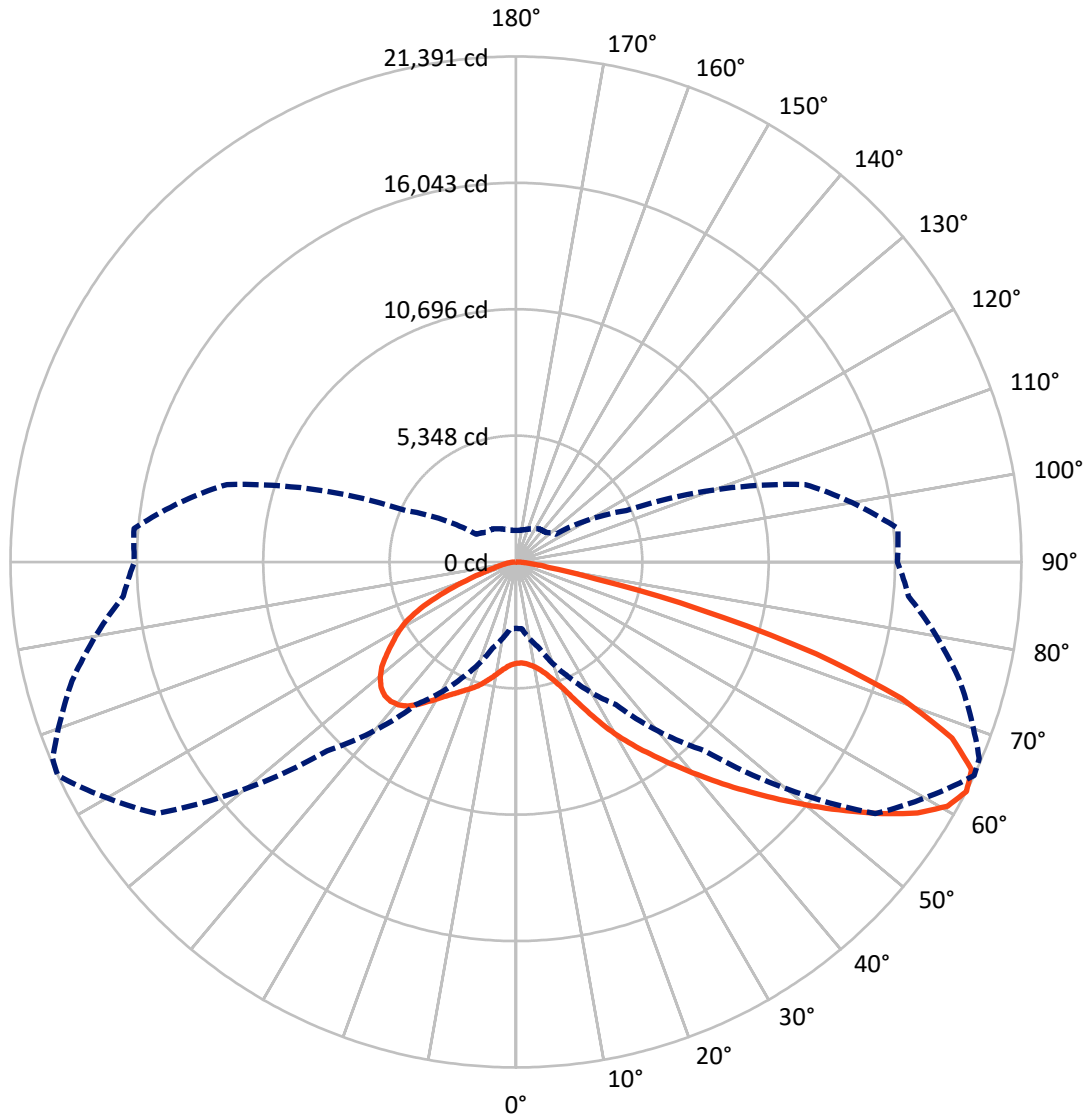
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12272.0 | 0.0 | 12272.0 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 26618.0 | 0.0 | 26618.0 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 38890.0 | 0.0 | 38890.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 427.3 | 1.1 |
| 10°-20° | 1448.9 | 3.7 |
| 20°-30° | 2937.8 | 7.6 |
| 30°-40° | 5083.7 | 13.1 |
| 40°-50° | 7693.3 | 19.8 |
| 50°-60° | 9019.9 | 23.2 |
| 60°-70° | 7562.1 | 19.4 |
| 70°-80° | 4174.9 | 10.7 |
| 80°-90° | 542.3 | 1.4 |
| 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° | 38890.0 | 100.0 |
| 0°-180° | 38890.0 | 100.0 |



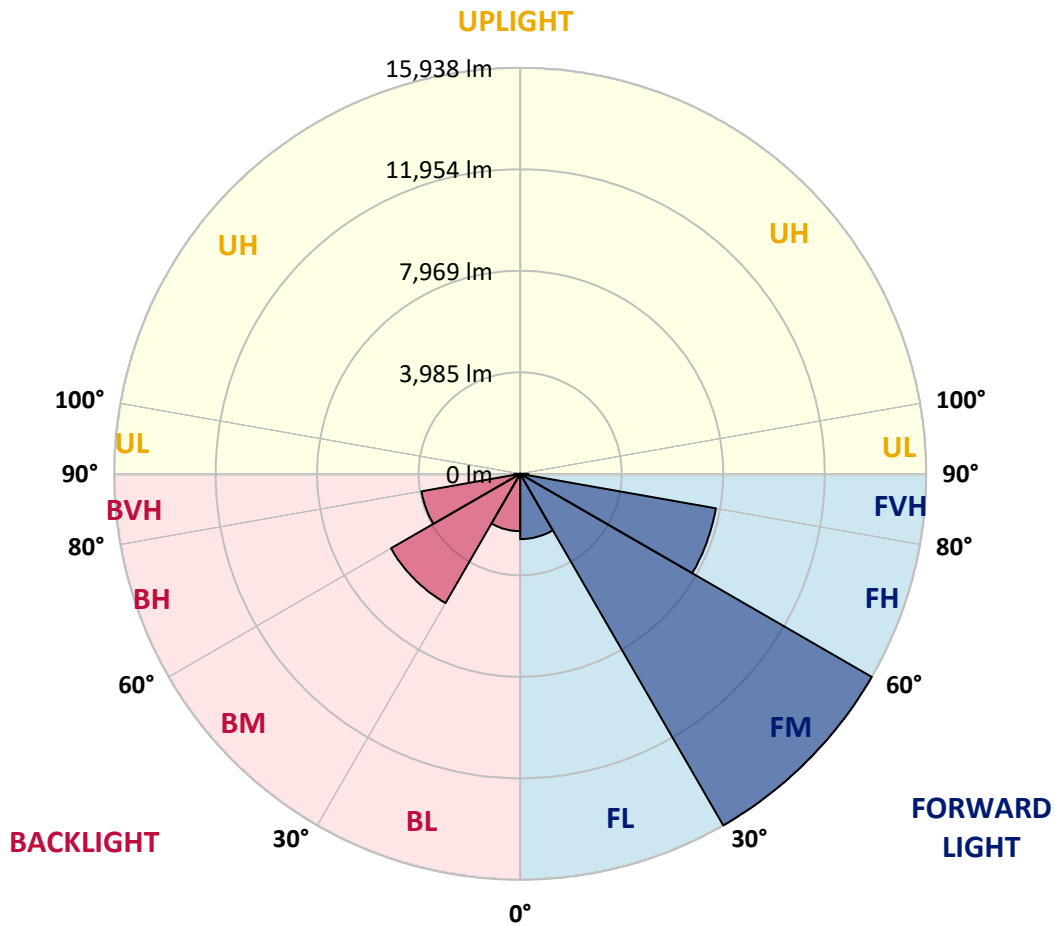
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2563.4 | 6.6 | | | |
| FM (30°-60°) | 15938.4 | 41.0 | | | |
| FH (60°-80°) | 7800.2 | 20.1 | | | G4/12000 |
| FVH (80°-90°) | 316.1 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2250.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 5858.5 | 15.1 | B4/8500 | | |
| BH (60°-80°) | 3936.8 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 226.2 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 |
| 2.5° | 4257.3 | 4245.2 | 4255.2 | 4255.2 | 4259.3 | 4257.3 | 4271.4 | 4275.4 | 4281.5 | 4293.6 |
| 5° | 4214.9 | 4212.9 | 4231.0 | 4247.2 | 4263.3 | 4277.4 | 4295.6 | 4321.8 | 4325.9 | 4340.0 |
| 7.5° | 4200.8 | 4188.7 | 4216.9 | 4237.1 | 4275.4 | 4309.7 | 4358.1 | 4402.5 | 4420.7 | 4426.7 |
| 10° | 4309.7 | 4289.5 | 4315.8 | 4327.9 | 4360.2 | 4394.5 | 4451.0 | 4521.6 | 4541.8 | 4566.0 |
| 12.5° | 4495.3 | 4473.2 | 4511.5 | 4529.6 | 4559.9 | 4590.2 | 4628.5 | 4697.1 | 4707.2 | 4751.6 |
| 15° | 4749.6 | 4723.3 | 4747.6 | 4769.7 | 4820.2 | 4848.4 | 4886.8 | 4953.4 | 4953.4 | 4987.7 |
| 17.5° | 5094.6 | 5060.3 | 5078.4 | 5086.5 | 5118.8 | 5161.2 | 5225.7 | 5284.3 | 5314.5 | 5302.4 |
| 20° | 5609.1 | 5566.7 | 5566.7 | 5526.4 | 5514.3 | 5548.6 | 5633.3 | 5714.0 | 5746.3 | 5683.7 |
| 22.5° | 6381.9 | 6321.3 | 6287.0 | 6149.8 | 6095.4 | 6099.4 | 6184.1 | 6283.0 | 6309.2 | 6198.3 |
| 25° | 7364.5 | 7269.6 | 7223.2 | 7021.5 | 6898.4 | 6791.4 | 6858.0 | 6985.1 | 7021.5 | 6884.3 |
| 27.5° | 8347.1 | 8353.1 | 8308.7 | 8066.6 | 7862.8 | 7667.1 | 7632.8 | 7766.0 | 7804.3 | 7648.9 |
| 30° | 9725.1 | 9581.9 | 9497.1 | 9206.6 | 8916.0 | 8641.6 | 8500.4 | 8554.9 | 8565.0 | 8379.3 |
| 32.5° | 10913.5 | 10877.2 | 10695.6 | 10441.4 | 10068.1 | 9638.4 | 9402.3 | 9315.5 | 9299.4 | 9035.1 |
| 35° | 12267.4 | 12247.2 | 12055.5 | 11752.9 | 11349.3 | 10752.1 | 10326.4 | 10078.2 | 10058.0 | 9686.8 |
| 37.5° | 13643.4 | 13643.4 | 13455.8 | 13124.9 | 12707.2 | 11960.7 | 11313.0 | 10919.6 | 10855.0 | 10370.8 |
| 40° | 14741.0 | 14674.4 | 14708.7 | 14569.5 | 14091.3 | 13298.4 | 12408.6 | 11837.6 | 11750.9 | 11169.8 |
| 42.5° | 15364.5 | 15342.3 | 15548.1 | 15703.4 | 15507.7 | 14874.2 | 13615.2 | 12832.3 | 12711.3 | 12049.5 |
| 45° | 15503.7 | 15479.5 | 15846.7 | 16415.7 | 16690.1 | 16429.8 | 14926.6 | 13879.5 | 13732.2 | 12969.5 |
| 47.5° | 15182.9 | 15134.5 | 15673.2 | 16571.0 | 17450.7 | 17908.7 | 16347.1 | 15015.4 | 14801.6 | 13865.4 |
| 50° | 14218.4 | 14172.0 | 14987.2 | 16179.6 | 17707.0 | 18913.5 | 17888.6 | 16220.0 | 15893.1 | 14825.8 |
| 52.5° | 12122.1 | 12144.3 | 13421.5 | 15059.8 | 17370.0 | 19539.0 | 19216.2 | 17489.1 | 17095.6 | 15808.4 |
| 55° | 9442.6 | 9491.1 | 11060.8 | 12864.6 | 16022.2 | 19444.2 | 20122.1 | 18796.5 | 18405.1 | 16732.5 |
| 57.5° | 6761.2 | 6975.0 | 8445.9 | 10231.6 | 13433.6 | 17941.0 | 20319.9 | 20039.4 | 19660.1 | 17741.3 |
| 60° | 4382.4 | 4420.7 | 5933.9 | 7733.7 | 10229.5 | 15269.6 | 19918.3 | 20981.6 | 20685.0 | 18770.3 |
| 62.5° | 2808.6 | 2834.8 | 3756.9 | 5409.3 | 7362.4 | 11296.9 | 18566.5 | 21391.2 | 21300.4 | 19450.2 |
| 65° | 2064.1 | 2043.9 | 2524.1 | 3575.3 | 4959.4 | 6967.0 | 15941.5 | 21193.5 | 21373.1 | 19876.0 |
| 67.5° | 1723.1 | 1694.8 | 1930.9 | 2475.7 | 3654.0 | 3956.6 | 11795.2 | 19908.2 | 20566.0 | 19827.5 |
| 70° | 1569.7 | 1545.5 | 1688.8 | 1838.1 | 2851.0 | 2649.2 | 5946.0 | 17307.5 | 18320.4 | 19276.7 |
| 72.5° | 1329.6 | 1287.3 | 1483.0 | 1632.3 | 2217.4 | 2031.8 | 2457.5 | 13294.4 | 14529.2 | 17511.3 |
| 75° | 1031.0 | 1002.8 | 1170.2 | 1436.6 | 1666.6 | 1585.9 | 1553.6 | 8072.7 | 9420.5 | 13542.5 |
| 77.5° | 817.2 | 778.8 | 932.2 | 1119.8 | 1499.1 | 1196.5 | 1131.9 | 3476.4 | 4812.1 | 8645.7 |
| 80° | 615.4 | 581.1 | 708.2 | 885.8 | 1152.1 | 901.9 | 732.4 | 1418.4 | 1813.9 | 4380.3 |
| 82.5° | 437.8 | 407.6 | 494.3 | 649.7 | 774.8 | 809.1 | 449.9 | 795.0 | 893.8 | 1688.8 |
| 85° | 280.5 | 262.3 | 330.9 | 407.6 | 492.3 | 520.6 | 274.4 | 415.6 | 456.0 | 696.1 |
| 87.5° | 153.3 | 125.1 | 177.6 | 189.7 | 228.0 | 207.8 | 131.1 | 151.3 | 163.4 | 252.2 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4285.5 | 0° | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 | 4285.5 |
| 4293.6 | 2.5° | 4301.7 | 4307.7 | 4327.9 | 4333.9 | 4348.1 | 4366.2 | 4378.3 | 4390.4 | 4390.4 | 4402.5 |
| 4358.1 | 5° | 4360.2 | 4374.3 | 4416.7 | 4438.9 | 4475.2 | 4511.5 | 4533.7 | 4559.9 | 4576.1 | 4584.1 |
| 4461.0 | 7.5° | 4473.2 | 4495.3 | 4555.9 | 4594.2 | 4656.8 | 4707.2 | 4741.5 | 4777.8 | 4785.9 | 4808.1 |
| 4604.3 | 10° | 4626.5 | 4652.7 | 4721.3 | 4794.0 | 4868.6 | 4931.2 | 4963.4 | 4989.7 | 4999.8 | 5003.8 |
| 4787.9 | 12.5° | 4802.0 | 4840.4 | 4929.1 | 5017.9 | 5096.6 | 5151.1 | 5159.2 | 5153.1 | 5124.9 | 5100.6 |
| 5013.9 | 15° | 5017.9 | 5052.2 | 5151.1 | 5247.9 | 5324.6 | 5334.7 | 5284.3 | 5252.0 | 5217.7 | 5211.6 |
| 5266.1 | 17.5° | 5276.2 | 5294.3 | 5385.1 | 5480.0 | 5486.0 | 5451.7 | 5377.1 | 5346.8 | 5314.5 | 5292.3 |
| 5595.0 | 20° | 5576.8 | 5570.8 | 5635.3 | 5675.7 | 5633.3 | 5528.4 | 5415.4 | 5365.0 | 5332.7 | 5306.4 |
| 5998.5 | 22.5° | 5936.0 | 5889.5 | 5881.5 | 5871.4 | 5758.4 | 5538.5 | 5385.1 | 5320.6 | 5270.1 | 5233.8 |
| 6561.4 | 25° | 6458.5 | 6281.0 | 6157.9 | 6089.3 | 5835.1 | 5484.0 | 5288.3 | 5145.0 | 5050.2 | 4987.7 |
| 7249.5 | 27.5° | 7112.3 | 6813.6 | 6502.9 | 6335.5 | 5835.1 | 5373.0 | 5054.2 | 4822.2 | 4666.8 | 4602.3 |
| 7915.3 | 30° | 7735.7 | 7423.0 | 6965.0 | 6632.0 | 5820.9 | 5191.4 | 4676.9 | 4354.1 | 4172.5 | 4108.0 |
| 8484.3 | 32.5° | 8268.4 | 7927.4 | 7455.3 | 6956.9 | 5786.6 | 4896.9 | 4208.8 | 3851.7 | 3676.2 | 3599.5 |
| 9047.2 | 35° | 8762.7 | 8399.5 | 7947.6 | 7314.0 | 5695.9 | 4465.1 | 3694.3 | 3422.0 | 3226.2 | 3103.2 |
| 9620.2 | 37.5° | 9269.1 | 8837.3 | 8413.6 | 7636.8 | 5532.4 | 3960.7 | 3298.9 | 3066.8 | 2836.8 | 2671.4 |
| 10229.5 | 40° | 9820.0 | 9303.4 | 8912.0 | 7828.5 | 5264.1 | 3480.5 | 2992.2 | 2780.3 | 2536.2 | 2360.7 |
| 10931.7 | 42.5° | 10463.6 | 9862.3 | 9466.9 | 7927.4 | 4896.9 | 3139.5 | 2792.4 | 2584.6 | 2354.6 | 2211.4 |
| 11684.3 | 45° | 11135.5 | 10477.7 | 9973.3 | 7925.4 | 4487.3 | 2980.1 | 2727.9 | 2522.1 | 2267.8 | 2118.5 |
| 12457.0 | 47.5° | 11839.6 | 11121.3 | 10411.1 | 7796.2 | 4132.2 | 3002.3 | 2691.6 | 2386.9 | 2106.4 | 1961.2 |
| 13237.9 | 50° | 12545.8 | 11825.5 | 10834.8 | 7554.1 | 3980.8 | 2953.9 | 2556.4 | 2197.2 | 1866.3 | 1735.2 |
| 13970.3 | 52.5° | 13245.9 | 12574.1 | 11200.0 | 7209.1 | 3827.5 | 2774.3 | 2382.9 | 1951.1 | 1767.5 | 1676.7 |
| 14726.9 | 55° | 13950.1 | 13314.5 | 11597.5 | 6706.7 | 3444.1 | 2564.4 | 2092.3 | 1858.3 | 1688.8 | 1606.1 |
| 15467.4 | 57.5° | 14656.3 | 14170.0 | 11974.8 | 6204.3 | 2961.9 | 2306.2 | 1932.9 | 1745.3 | 1610.1 | 1539.5 |
| 16086.8 | 60° | 15390.7 | 15148.6 | 12364.2 | 5742.3 | 2485.8 | 1975.3 | 1815.9 | 1654.5 | 1517.3 | 1438.6 |
| 16682.0 | 62.5° | 16147.3 | 16226.0 | 12668.9 | 5147.1 | 2047.9 | 1773.5 | 1711.0 | 1545.5 | 1412.4 | 1337.7 |
| 17174.3 | 65° | 16910.0 | 17265.1 | 12868.6 | 4321.8 | 1660.5 | 1581.8 | 1598.0 | 1426.5 | 1291.3 | 1226.7 |
| 17535.5 | 67.5° | 17485.0 | 18013.7 | 12812.1 | 3270.6 | 1361.9 | 1400.3 | 1456.8 | 1301.4 | 1174.3 | 1123.8 |
| 17477.0 | 70° | 17549.6 | 17924.9 | 12255.3 | 2239.6 | 1140.0 | 1222.7 | 1299.4 | 1178.3 | 1047.2 | 1010.8 |
| 16653.8 | 72.5° | 16690.1 | 16714.3 | 10703.7 | 1462.8 | 964.4 | 1073.4 | 1133.9 | 1053.2 | 926.1 | 889.8 |
| 14569.5 | 75° | 14436.4 | 13823.0 | 7858.8 | 964.4 | 807.1 | 922.1 | 978.6 | 922.1 | 799.0 | 807.1 |
| 10901.4 | 77.5° | 10937.7 | 9789.7 | 4771.8 | 686.0 | 673.9 | 774.8 | 851.5 | 811.1 | 706.2 | 792.9 |
| 5482.0 | 80° | 5635.3 | 5296.4 | 2128.6 | 512.5 | 532.7 | 619.4 | 700.1 | 647.7 | 558.9 | 532.7 |
| 1224.7 | 82.5° | 1291.3 | 1501.1 | 839.3 | 367.2 | 385.4 | 445.9 | 534.7 | 486.3 | 401.5 | 339.0 |
| 510.5 | 85° | 452.0 | 494.3 | 371.2 | 230.0 | 226.0 | 278.4 | 363.2 | 324.8 | 272.4 | 217.9 |
| 215.9 | 87.5° | 143.3 | 187.6 | 139.2 | 92.8 | 96.8 | 125.1 | 167.5 | 153.3 | 127.1 | 82.7 |
| 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> |
|-------------|
| 4285.5 |
| 4402.5 |
| 4588.2 |
| 4800.0 |
| 4993.7 |
| 5100.6 |
| 5211.6 |
| 5294.3 |
| 5308.5 |
| 5245.9 |
| 5011.9 |
| 4634.6 |
| 4146.3 |
| 3637.8 |
| 3143.5 |
| 2715.8 |
| 2395.0 |
| 2239.6 |
| 2142.8 |
| 1981.3 |
| 1743.3 |
| 1676.7 |
| 1598.0 |
| 1527.4 |
| 1432.5 |
| 1335.7 |
| 1224.7 |
| 1125.9 |
| 1012.9 |
| 887.8 |
| 778.8 |
| 698.1 |
| 486.3 |
| 334.9 |
| 230.0 |
| 86.8 |
| 0.0 |

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