

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: P957100

Luminaire Tested: **GALN-SB9C-760-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957100
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-SB9C-760-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71731 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

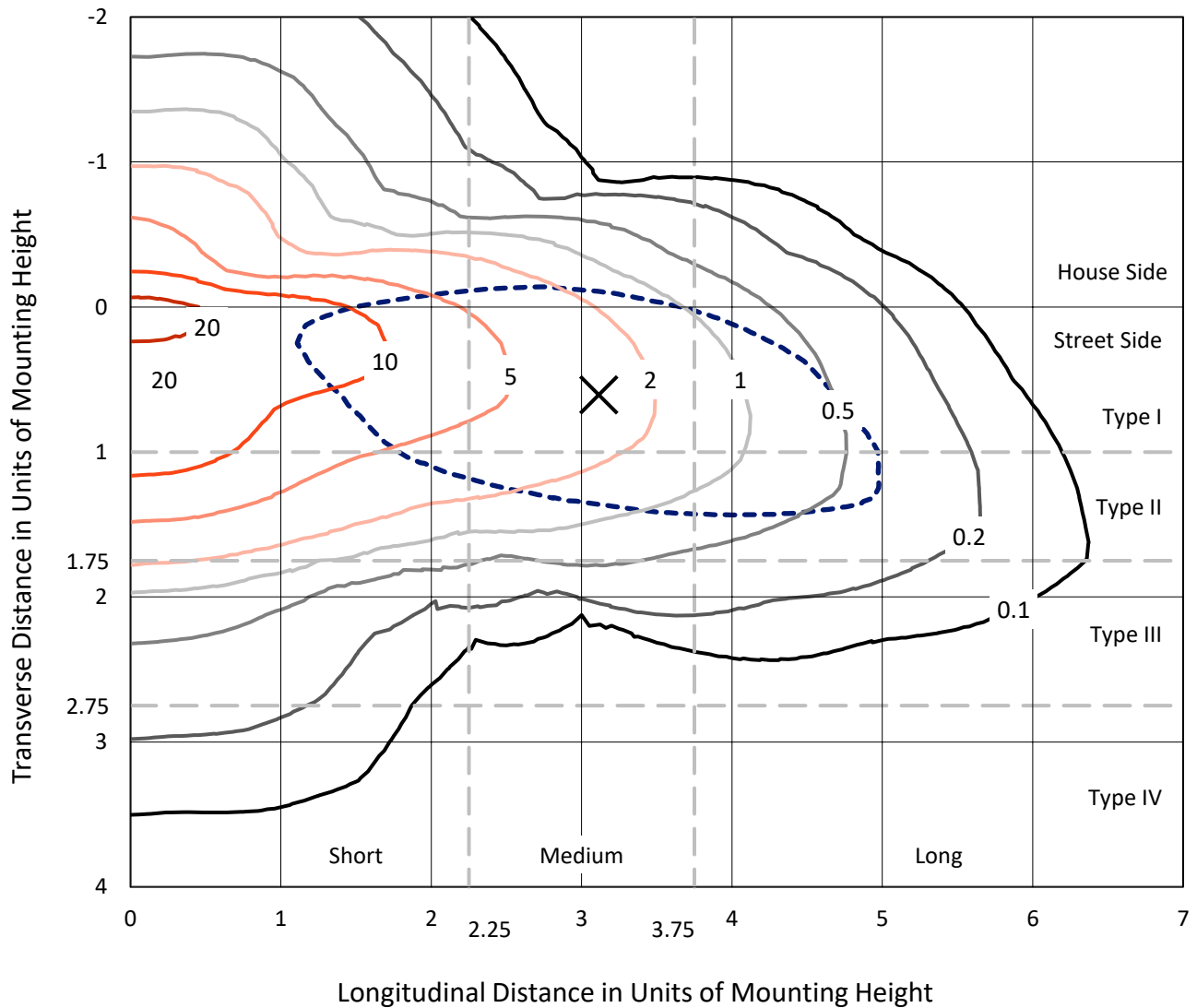
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

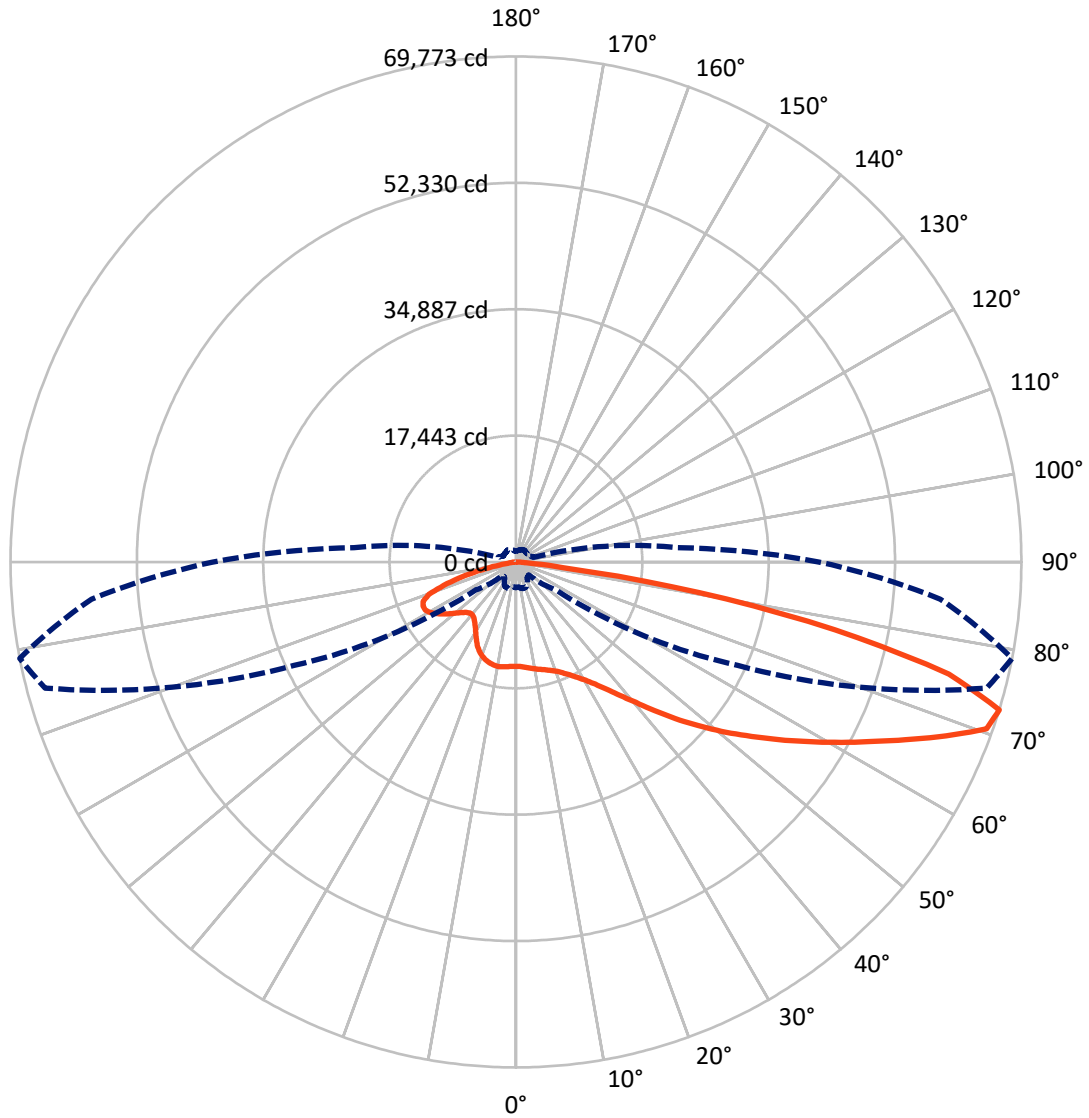
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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 | 15784.8 | 0.0 | 15784.8 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 55946.2 | 0.0 | 55946.2 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 71731.0 | 0.0 | 71731.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1307.0 | 1.8 |
| 10°-20° | 3417.3 | 4.8 |
| 20°-30° | 5514.1 | 7.7 |
| 30°-40° | 8275.8 | 11.5 |
| 40°-50° | 11739.7 | 16.4 |
| 50°-60° | 14825.7 | 20.7 |
| 60°-70° | 15057.5 | 21.0 |
| 70°-80° | 10262.4 | 14.3 |
| 80°-90° | 1331.5 | 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° | 71731.0 | 100.0 |
| 0°-180° | 71731.0 | 100.0 |

Coefficient of Utilization

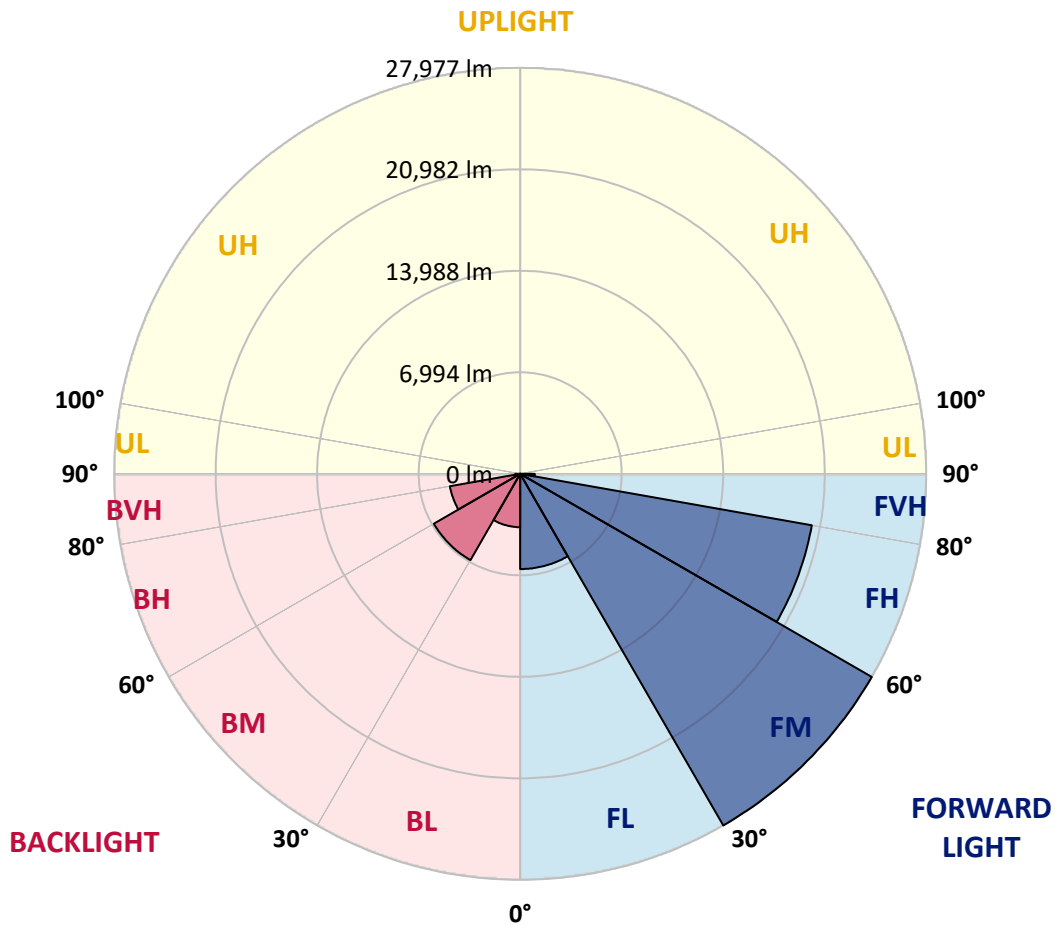


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6561.6 | 9.1 | | | |
| FM (30°-60°) | 27976.6 | 39.0 | | | |
| FH (60°-80°) | 20405.0 | 28.4 | | | G5 |
| FVH (80°-90°) | 1003.0 | 1.4 | | | G5 |
| BL (0°-30°) | 3676.7 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 6864.7 | 9.6 | B4/8500 | | |
| BH (60°-80°) | 4914.9 | 6.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 328.5 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 |
| 2.5° | 14406.9 | 14338.6 | 14380.3 | 14365.2 | 14384.1 | 14406.9 | 14414.5 | 14425.9 | 14463.8 | 14460.0 |
| 5° | 14376.6 | 14308.3 | 14365.2 | 14346.2 | 14395.5 | 14448.6 | 14494.2 | 14535.9 | 14596.6 | 14623.2 |
| 7.5° | 14312.0 | 14266.5 | 14323.4 | 14380.3 | 14471.4 | 14551.1 | 14615.6 | 14710.4 | 14797.7 | 14812.9 |
| 10° | 13936.4 | 13902.3 | 14035.1 | 14183.0 | 14433.5 | 14649.7 | 14790.1 | 14900.2 | 14995.0 | 15010.2 |
| 12.5° | 13545.6 | 13503.9 | 13651.8 | 13852.9 | 14258.9 | 14649.7 | 14945.7 | 15089.9 | 15173.4 | 15222.7 |
| 15° | 13481.1 | 13447.0 | 13530.4 | 13705.0 | 14042.7 | 14547.3 | 15051.9 | 15317.5 | 15389.6 | 15446.5 |
| 17.5° | 13792.2 | 13727.7 | 13761.9 | 13822.6 | 14019.9 | 14452.4 | 15135.4 | 15575.5 | 15685.6 | 15746.3 |
| 20° | 14513.1 | 14422.1 | 14369.0 | 14247.5 | 14213.4 | 14467.6 | 15127.8 | 15886.7 | 16030.9 | 16106.7 |
| 22.5° | 15473.1 | 15412.4 | 15298.6 | 14991.2 | 14657.3 | 14653.5 | 15272.0 | 16285.1 | 16554.5 | 16626.6 |
| 25° | 16634.2 | 16543.1 | 16398.9 | 15981.5 | 15340.3 | 15021.6 | 15514.8 | 16793.5 | 17245.0 | 17264.0 |
| 27.5° | 17969.7 | 17833.1 | 17635.8 | 17085.7 | 16220.6 | 15598.3 | 15886.7 | 17377.8 | 18038.0 | 18030.4 |
| 30° | 19377.4 | 19240.8 | 19032.1 | 18364.3 | 17275.4 | 16376.1 | 16402.7 | 18007.7 | 18979.0 | 18937.3 |
| 32.5° | 20405.7 | 20303.2 | 20261.5 | 19745.5 | 18489.6 | 17294.4 | 16994.6 | 18705.8 | 20140.1 | 20102.1 |
| 35° | 21194.9 | 21062.1 | 21111.4 | 20849.6 | 19813.8 | 18322.6 | 17719.3 | 19536.8 | 21551.5 | 21547.8 |
| 37.5° | 21976.5 | 21858.9 | 21900.6 | 21726.1 | 21039.3 | 19627.8 | 18603.4 | 20553.6 | 23300.7 | 23384.2 |
| 40° | 22689.8 | 22564.6 | 22731.6 | 22568.4 | 21991.7 | 21016.6 | 19608.9 | 21703.3 | 25326.9 | 25486.2 |
| 42.5° | 23118.6 | 23019.9 | 23296.9 | 23300.7 | 22818.8 | 22189.0 | 20713.0 | 22970.6 | 27671.7 | 28028.4 |
| 45° | 23266.6 | 23232.4 | 23649.8 | 23737.1 | 23551.1 | 22868.2 | 21707.1 | 24351.7 | 30198.7 | 30836.2 |
| 47.5° | 23107.2 | 23042.7 | 23619.4 | 23941.9 | 24089.9 | 23186.9 | 22530.5 | 25846.7 | 32778.8 | 33712.2 |
| 50° | 22302.8 | 22177.6 | 23035.1 | 23714.3 | 24241.7 | 23395.6 | 23361.4 | 27573.1 | 35711.8 | 36732.5 |
| 52.5° | 20857.2 | 20762.3 | 21737.5 | 22917.5 | 23907.8 | 23498.0 | 24294.8 | 29458.8 | 38496.8 | 39817.2 |
| 55° | 19009.4 | 18884.2 | 19957.9 | 21498.4 | 23076.8 | 23463.9 | 25228.2 | 31568.5 | 41782.7 | 43122.1 |
| 57.5° | 16080.2 | 15829.8 | 17188.1 | 19009.4 | 21722.3 | 23422.1 | 26199.5 | 33666.7 | 45121.7 | 46726.6 |
| 60° | 11807.8 | 11436.0 | 13101.7 | 15260.6 | 19073.9 | 23016.1 | 27402.3 | 36019.2 | 49128.4 | 50574.0 |
| 62.5° | 6875.2 | 6659.0 | 7747.9 | 9762.7 | 14376.6 | 20625.7 | 28077.7 | 38754.8 | 53066.9 | 54584.6 |
| 65° | 5338.6 | 5277.9 | 5372.7 | 5528.3 | 8002.1 | 15442.7 | 25994.7 | 41422.2 | 58075.3 | 59137.7 |
| 67.5° | 4883.2 | 4837.7 | 4879.5 | 4587.3 | 4059.9 | 8601.6 | 20565.0 | 42097.6 | 63440.5 | 64085.5 |
| 70° | 4340.7 | 4287.5 | 4424.1 | 4173.7 | 3194.8 | 3911.9 | 13287.6 | 39646.5 | 67709.0 | 68919.4 |
| 72.5° | 3536.3 | 3475.6 | 3794.3 | 3680.5 | 2690.1 | 2511.8 | 6674.1 | 33822.3 | 67261.3 | 69773.1 |
| 75° | 2716.7 | 2682.6 | 3062.0 | 3156.8 | 2193.1 | 1976.8 | 3202.4 | 25140.9 | 59190.9 | 61721.7 |
| 77.5° | 2109.6 | 2083.1 | 2276.6 | 2621.9 | 1768.1 | 1532.9 | 1969.2 | 15947.4 | 44605.6 | 45049.6 |
| 80° | 1582.2 | 1506.3 | 1684.7 | 2029.9 | 1377.3 | 1119.3 | 1335.6 | 9299.8 | 28195.3 | 25558.3 |
| 82.5° | 990.3 | 952.4 | 1100.3 | 1354.6 | 971.3 | 770.2 | 868.9 | 5137.5 | 11299.4 | 6655.2 |
| 85° | 565.3 | 550.2 | 599.5 | 774.0 | 527.4 | 443.9 | 497.1 | 2269.0 | 2064.1 | 1419.1 |
| 87.5° | 227.7 | 220.1 | 273.2 | 345.3 | 193.5 | 163.2 | 174.5 | 546.4 | 455.3 | 421.2 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 14399.3 | 0° | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 |
| 14456.2 | 2.5° | 14441.1 | 14441.1 | 14387.9 | 14304.5 | 14209.6 | 14148.9 | 14050.2 | 14023.7 | 13921.2 | 13890.9 |
| 14585.2 | 5° | 14615.6 | 14585.2 | 14422.1 | 14186.8 | 13864.3 | 13568.4 | 13242.1 | 13037.2 | 12748.8 | 12646.4 |
| 14839.5 | 7.5° | 14835.7 | 14752.2 | 14471.4 | 13955.4 | 13280.0 | 12616.0 | 11925.4 | 11401.8 | 10901.0 | 10722.7 |
| 15048.1 | 10° | 15036.8 | 14919.1 | 14441.1 | 13538.0 | 12369.4 | 11219.7 | 10119.4 | 9349.1 | 8764.8 | 8525.8 |
| 15279.6 | 12.5° | 15237.9 | 15021.6 | 14240.0 | 12843.7 | 11075.5 | 9516.1 | 8343.6 | 7744.1 | 7383.7 | 7095.3 |
| 15469.3 | 15° | 15427.6 | 15124.0 | 13928.8 | 11914.1 | 9656.5 | 8074.2 | 7209.1 | 6731.1 | 6442.7 | 6253.0 |
| 15746.3 | 17.5° | 15647.6 | 15211.3 | 13462.1 | 10734.0 | 8305.7 | 7076.3 | 6370.6 | 6082.2 | 6025.3 | 6002.6 |
| 16125.7 | 20° | 15955.0 | 15291.0 | 12847.5 | 9413.6 | 7311.6 | 6279.5 | 5915.3 | 5888.7 | 5884.9 | 5873.6 |
| 16581.0 | 22.5° | 16285.1 | 15385.8 | 12035.5 | 8214.6 | 6465.5 | 5782.5 | 5718.0 | 5664.9 | 5630.7 | 5626.9 |
| 17131.2 | 25° | 16675.9 | 15416.2 | 11018.6 | 7231.9 | 5744.5 | 5547.2 | 5471.4 | 5391.7 | 5368.9 | 5368.9 |
| 17757.3 | 27.5° | 17055.3 | 15313.7 | 9834.8 | 6378.2 | 5338.6 | 5331.0 | 5232.3 | 5205.8 | 5202.0 | 5213.3 |
| 18470.6 | 30° | 17434.7 | 15120.2 | 8658.6 | 5589.0 | 5103.3 | 5103.3 | 5069.2 | 5088.1 | 5103.3 | 5141.3 |
| 19449.5 | 32.5° | 17947.0 | 14915.3 | 7675.8 | 5004.7 | 4898.4 | 4860.5 | 4894.6 | 4932.6 | 4947.7 | 4997.1 |
| 20735.8 | 35° | 18698.2 | 14771.2 | 6894.2 | 4685.9 | 4685.9 | 4636.6 | 4655.6 | 4648.0 | 4613.9 | 4591.1 |
| 22291.4 | 37.5° | 19692.3 | 14763.6 | 6249.2 | 4538.0 | 4507.6 | 4500.0 | 4503.8 | 4454.5 | 4321.7 | 4162.3 |
| 24173.4 | 40° | 20887.5 | 14968.5 | 5752.1 | 4435.5 | 4412.8 | 4458.3 | 4435.5 | 4302.7 | 3938.5 | 3661.5 |
| 26487.9 | 42.5° | 22492.5 | 15552.8 | 5433.4 | 4310.3 | 4378.6 | 4435.5 | 4344.5 | 3885.3 | 3638.7 | 3452.8 |
| 29124.9 | 45° | 24382.1 | 16501.4 | 5270.3 | 4177.5 | 4314.1 | 4382.4 | 3942.3 | 3741.2 | 3543.9 | 3320.0 |
| 32001.0 | 47.5° | 26522.1 | 17696.6 | 5232.3 | 4052.3 | 4169.9 | 4211.7 | 3771.5 | 3680.5 | 3456.6 | 3213.8 |
| 34892.3 | 50° | 28851.8 | 19111.8 | 5334.8 | 3904.3 | 3961.2 | 3817.1 | 3714.6 | 3631.1 | 3399.7 | 3160.6 |
| 37855.6 | 52.5° | 31261.1 | 20671.3 | 5539.7 | 3703.2 | 3752.5 | 3593.2 | 3691.8 | 3619.7 | 3365.5 | 3043.0 |
| 40917.6 | 55° | 33628.8 | 22242.1 | 5737.0 | 3468.0 | 3540.1 | 3392.1 | 3627.3 | 3574.2 | 3210.0 | 2845.7 |
| 44184.5 | 57.5° | 36034.3 | 23805.4 | 5930.5 | 3259.3 | 3335.2 | 3198.6 | 3524.9 | 3452.8 | 3035.4 | 2663.6 |
| 47751.1 | 60° | 38534.8 | 25323.1 | 6021.5 | 3058.2 | 3111.3 | 3020.3 | 3369.3 | 3244.1 | 2838.1 | 2477.7 |
| 51257.0 | 62.5° | 40875.8 | 26586.6 | 5873.6 | 2857.1 | 2891.2 | 2853.3 | 3164.4 | 2997.5 | 2640.8 | 2269.0 |
| 54910.9 | 65° | 43224.5 | 27337.8 | 5418.2 | 2659.8 | 2667.4 | 2648.4 | 2876.1 | 2731.9 | 2409.4 | 2086.9 |
| 58109.5 | 67.5° | 45353.1 | 27759.0 | 4693.5 | 2447.3 | 2428.3 | 2420.8 | 2606.7 | 2443.5 | 2185.5 | 1904.7 |
| 60541.6 | 70° | 45804.6 | 26689.0 | 3585.6 | 2196.9 | 2196.9 | 2177.9 | 2310.7 | 2143.8 | 1938.9 | 1711.2 |
| 58800.1 | 72.5° | 41835.8 | 22450.8 | 2546.0 | 1912.3 | 1942.7 | 1904.7 | 2014.8 | 1874.4 | 1688.5 | 1536.7 |
| 50676.5 | 75° | 33735.0 | 16463.4 | 1851.6 | 1620.2 | 1673.3 | 1608.8 | 1711.2 | 1612.6 | 1453.2 | 1449.4 |
| 34922.6 | 77.5° | 23179.3 | 10180.1 | 1343.2 | 1335.6 | 1373.5 | 1290.1 | 1407.7 | 1354.6 | 1210.4 | 1145.9 |
| 15199.9 | 80° | 9891.7 | 4059.9 | 978.9 | 1032.0 | 1032.0 | 956.2 | 1092.8 | 1107.9 | 982.7 | 952.4 |
| 2933.0 | 82.5° | 1969.2 | 1153.5 | 686.8 | 709.5 | 667.8 | 645.0 | 774.0 | 857.5 | 1183.8 | 1316.6 |
| 884.1 | 85° | 591.9 | 425.0 | 413.6 | 387.0 | 341.5 | 345.3 | 455.3 | 861.3 | 1062.4 | 607.1 |
| 292.2 | 87.5° | 163.2 | 106.2 | 110.0 | 87.3 | 72.1 | 94.9 | 155.6 | 652.6 | 356.7 | 151.8 |
| 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> |
|-------------|
| 14399.3 |
| 13940.2 |
| 12722.2 |
| 10745.4 |
| 8578.9 |
| 7190.2 |
| 6287.1 |
| 6017.7 |
| 5911.5 |
| 5668.7 |
| 5391.7 |
| 5243.7 |
| 5167.8 |
| 5038.8 |
| 4644.2 |
| 4166.1 |
| 3653.9 |
| 3445.2 |
| 3304.8 |
| 3194.8 |
| 3134.1 |
| 3020.3 |
| 2826.7 |
| 2656.0 |
| 2466.3 |
| 2265.2 |
| 2064.1 |
| 1882.0 |
| 1703.6 |
| 1491.2 |
| 1305.2 |
| 1073.8 |
| 952.4 |
| 1320.4 |
| 523.6 |
| 129.0 |
| 0.0 |

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