

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: P956010

Luminaire Tested: **GALN-SB8D-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956010
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-SB8D-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85082 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

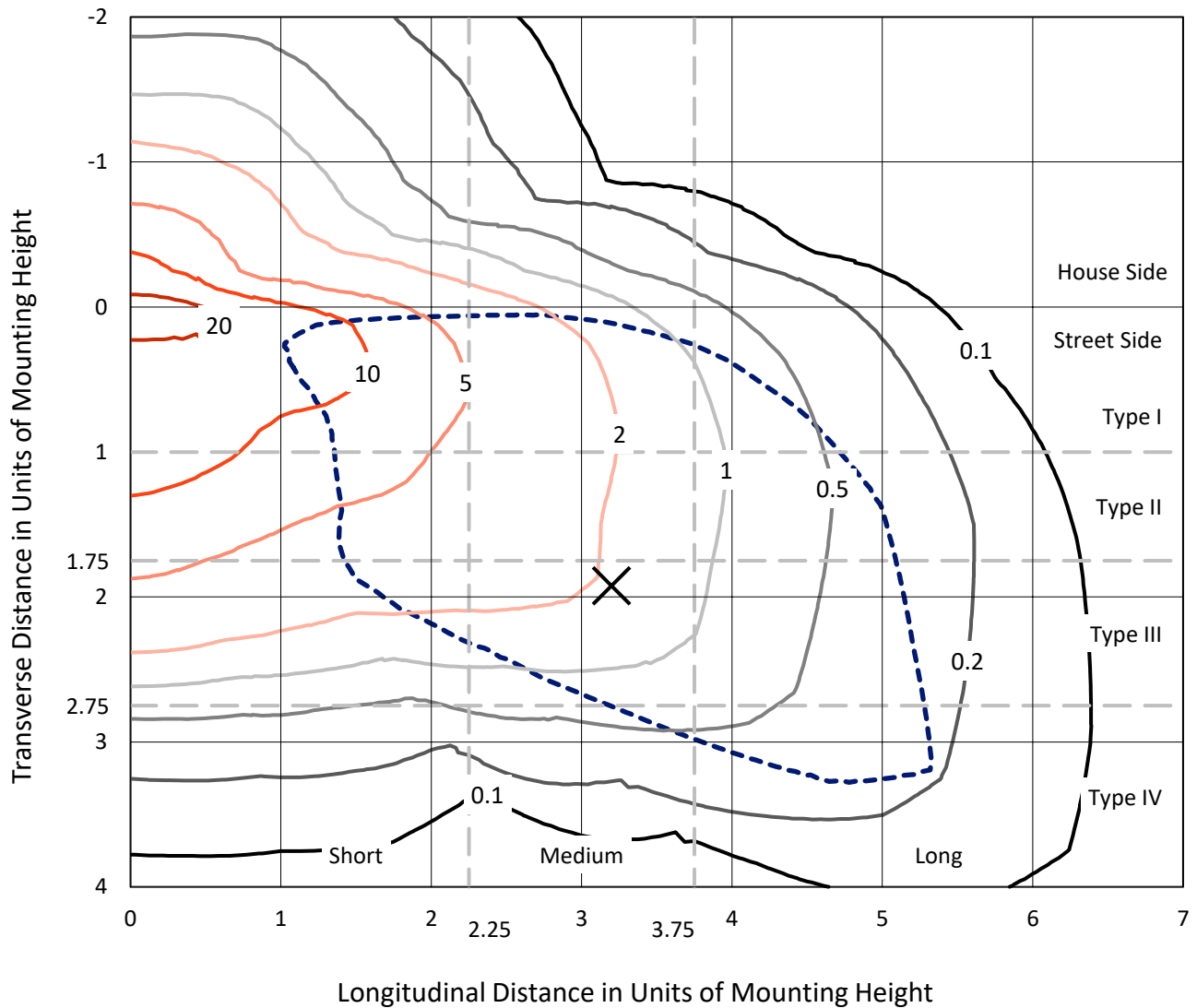
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

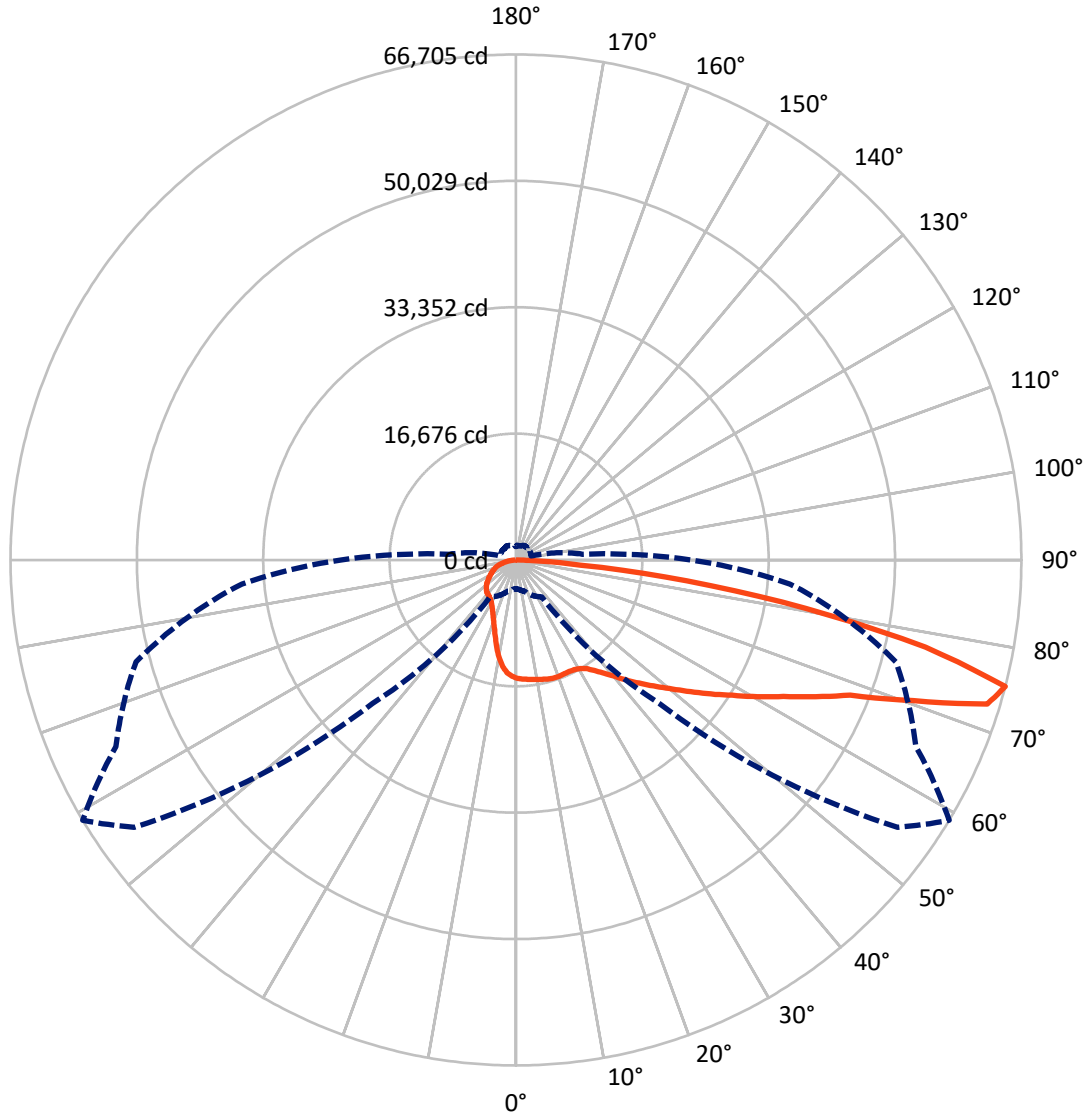
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 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 | 15957.7 | 0.0 | 15957.7 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 69124.3 | 0.0 | 69124.3 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 85082.0 | 0.0 | 85082.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1400.3 | 1.6 |
| 10°-20° | 3579.2 | 4.2 |
| 20°-30° | 5436.5 | 6.4 |
| 30°-40° | 8081.3 | 9.5 |
| 40°-50° | 12018.3 | 14.1 |
| 50°-60° | 16313.3 | 19.2 |
| 60°-70° | 19915.9 | 23.4 |
| 70°-80° | 15629.7 | 18.4 |
| 80°-90° | 2707.5 | 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° | 85082.0 | 100.0 |
| 0°-180° | 85082.0 | 100.0 |

Coefficient of Utilization



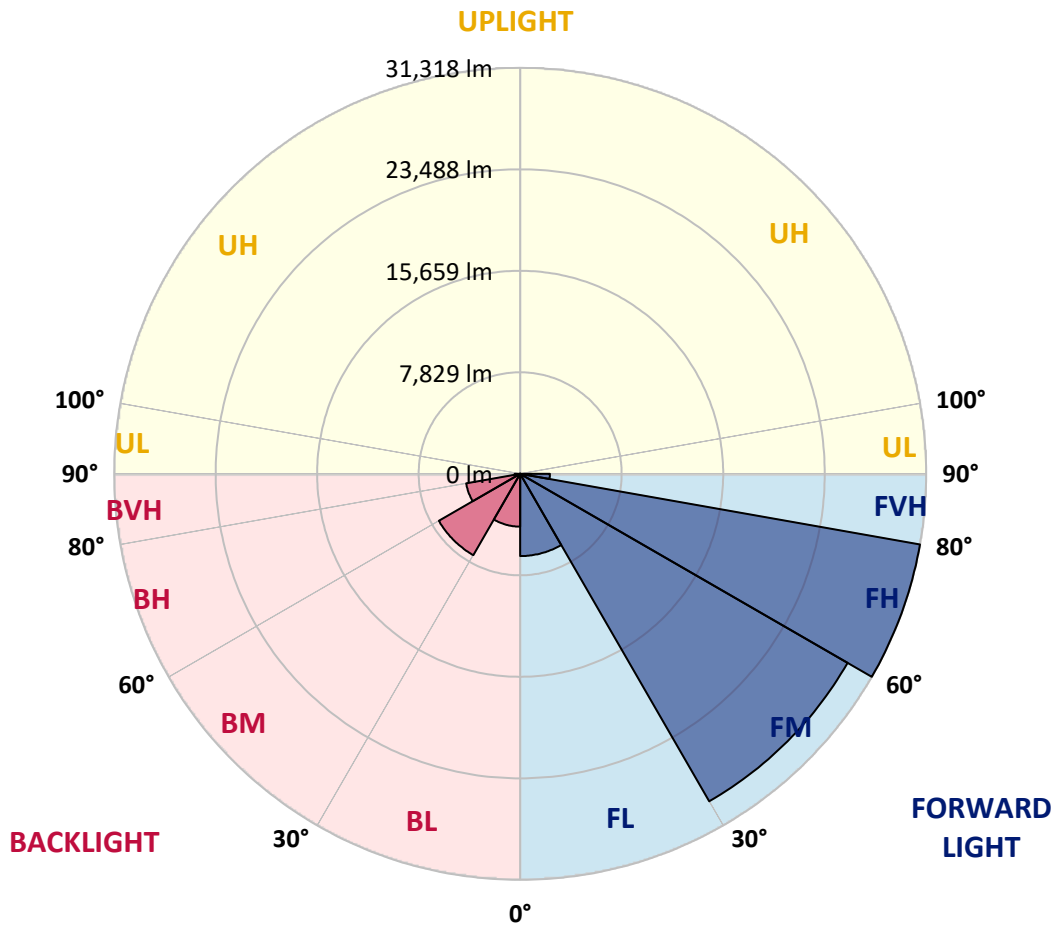
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6343.8 | 7.5 | | | |
| FM (30°-60°) | 29169.6 | 34.3 | | | |
| FH (60°-80°) | 31317.8 | 36.8 | | | G5 |
| FVH (80°-90°) | 2293.0 | 2.7 | | | G5 |
| BL (0°-30°) | 4072.2 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 7243.2 | 8.5 | B4/8500 | | |
| BH (60°-80°) | 4227.8 | 5.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 414.4 | 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 IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 |
| 2.5° | 15749.3 | 15694.4 | 15749.3 | 15726.5 | 15717.3 | 15699.0 | 15703.6 | 15735.6 | 15717.3 | 15740.2 |
| 5° | 15644.1 | 15612.0 | 15667.0 | 15653.2 | 15712.7 | 15721.9 | 15781.4 | 15818.0 | 15840.9 | 15845.5 |
| 7.5° | 15470.1 | 15438.1 | 15515.9 | 15580.0 | 15708.2 | 15744.8 | 15868.3 | 15927.8 | 15959.9 | 16014.8 |
| 10° | 14834.0 | 14820.2 | 15012.5 | 15255.0 | 15557.1 | 15744.8 | 15932.4 | 16033.1 | 16083.5 | 16229.9 |
| 12.5° | 13708.0 | 13726.3 | 13978.1 | 14444.9 | 15049.1 | 15653.2 | 16005.7 | 16152.1 | 16229.9 | 16413.0 |
| 15° | 12632.4 | 12627.9 | 12902.5 | 13401.4 | 14248.1 | 15250.5 | 16042.3 | 16294.0 | 16426.7 | 16696.8 |
| 17.5° | 12010.0 | 11991.7 | 12183.9 | 12563.8 | 13351.0 | 14632.6 | 15950.7 | 16371.8 | 16655.6 | 16994.3 |
| 20° | 11895.5 | 11858.9 | 11959.6 | 12147.3 | 12705.7 | 13955.2 | 15712.7 | 16371.8 | 16838.7 | 17278.1 |
| 22.5° | 12312.0 | 12252.5 | 12211.3 | 12188.5 | 12435.6 | 13396.8 | 15442.7 | 16316.9 | 17108.7 | 17685.4 |
| 25° | 13149.6 | 13058.1 | 12847.5 | 12641.6 | 12568.4 | 13145.0 | 15204.7 | 16303.2 | 17511.5 | 18234.6 |
| 27.5° | 14504.4 | 14390.0 | 13964.3 | 13470.0 | 13026.0 | 13273.2 | 15099.4 | 16385.5 | 17955.4 | 18815.9 |
| 30° | 16184.2 | 16060.6 | 15525.1 | 14765.3 | 13968.9 | 13749.2 | 15232.1 | 16628.1 | 18523.0 | 19589.4 |
| 32.5° | 17690.0 | 17552.7 | 17095.0 | 16321.5 | 15245.9 | 14573.1 | 15653.2 | 17090.4 | 19415.5 | 20665.0 |
| 35° | 19026.5 | 18866.3 | 18454.3 | 17740.3 | 16811.2 | 15731.0 | 16413.0 | 17909.7 | 20683.3 | 22413.4 |
| 37.5° | 20335.5 | 20147.8 | 19699.3 | 18944.1 | 18294.1 | 17273.5 | 17461.1 | 18962.4 | 22367.6 | 24537.1 |
| 40° | 21800.1 | 21530.1 | 20985.4 | 20239.3 | 19607.7 | 19081.4 | 18838.8 | 20253.1 | 24079.4 | 26908.0 |
| 42.5° | 23219.0 | 22962.6 | 22312.7 | 21676.5 | 20884.7 | 20733.7 | 20436.2 | 21763.5 | 25951.4 | 29512.3 |
| 45° | 24747.7 | 24441.0 | 23653.8 | 22848.2 | 22349.3 | 21832.1 | 21983.2 | 23273.9 | 27786.8 | 32166.9 |
| 47.5° | 26180.3 | 25837.0 | 24907.9 | 24010.8 | 23736.2 | 22756.7 | 23402.0 | 24935.3 | 29695.4 | 34858.2 |
| 50° | 26953.8 | 26615.1 | 25841.6 | 25031.4 | 24816.3 | 23896.3 | 24939.9 | 26761.5 | 31695.5 | 37540.3 |
| 52.5° | 27599.1 | 27233.0 | 26221.4 | 25772.9 | 25708.8 | 25136.7 | 26834.8 | 28848.6 | 33695.6 | 39911.2 |
| 55° | 28285.7 | 27878.3 | 26587.6 | 26184.8 | 26477.8 | 26528.1 | 29082.0 | 31214.9 | 35810.2 | 42222.5 |
| 57.5° | 29077.5 | 28560.3 | 26940.0 | 26532.7 | 27228.4 | 28157.5 | 31663.5 | 33668.2 | 37888.1 | 44364.5 |
| 60° | 29823.5 | 29301.7 | 27617.4 | 27086.5 | 28038.5 | 30047.8 | 34624.8 | 36638.6 | 40240.7 | 46273.1 |
| 62.5° | 29970.0 | 29539.7 | 28157.5 | 28152.9 | 29137.0 | 32253.9 | 38130.7 | 39636.5 | 42295.8 | 48158.8 |
| 65° | 27434.3 | 27164.3 | 26345.0 | 28111.7 | 30711.4 | 35430.3 | 42034.9 | 43472.0 | 44909.2 | 49806.6 |
| 67.5° | 20880.1 | 20916.7 | 20857.2 | 24267.1 | 29439.1 | 39993.5 | 47687.4 | 47577.6 | 48136.0 | 51655.6 |
| 70° | 9547.6 | 9762.7 | 11163.2 | 16751.7 | 23585.1 | 40519.9 | 57033.6 | 55610.1 | 52186.6 | 54049.4 |
| 72.5° | 5158.2 | 5323.0 | 5895.1 | 8115.0 | 14179.4 | 36025.3 | 64018.0 | 65029.5 | 57573.7 | 55660.5 |
| 75° | 3785.2 | 3876.7 | 4274.9 | 5158.2 | 5954.6 | 26775.3 | 61514.4 | 66704.7 | 58246.5 | 51902.8 |
| 77.5° | 2833.1 | 2874.3 | 3199.3 | 4087.2 | 3048.3 | 14115.4 | 49152.0 | 55244.0 | 49861.5 | 42643.6 |
| 80° | 2055.1 | 2100.8 | 2343.4 | 3066.6 | 2137.4 | 5162.8 | 33750.6 | 38776.1 | 34148.8 | 27182.6 |
| 82.5° | 1418.9 | 1437.2 | 1542.4 | 2087.1 | 1492.1 | 2004.7 | 19150.0 | 22738.4 | 19063.1 | 9538.4 |
| 85° | 855.9 | 878.8 | 924.5 | 1217.5 | 846.7 | 952.0 | 8266.0 | 8549.8 | 5698.3 | 2279.3 |
| 87.5° | 352.4 | 375.3 | 411.9 | 512.6 | 334.1 | 265.5 | 1363.9 | 1711.8 | 1066.4 | 668.2 |
| 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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 CATALOG NUMBER: GALN-SB8D-750-U-SL3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15616.6 | 0° | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 |
| 15662.4 | 2.5° | 15639.5 | 15607.5 | 15520.5 | 15401.5 | 15291.6 | 15154.3 | 15094.8 | 15044.5 | 14998.7 | 14911.8 |
| 15786.0 | 5° | 15735.6 | 15648.7 | 15415.2 | 15113.1 | 14769.9 | 14394.6 | 14028.4 | 13776.7 | 13561.6 | 13401.4 |
| 15927.8 | 7.5° | 15882.1 | 15717.3 | 15291.6 | 14673.8 | 13886.5 | 13081.0 | 12353.2 | 11836.0 | 11447.0 | 11305.1 |
| 16129.2 | 10° | 16033.1 | 15836.3 | 15094.8 | 14005.5 | 12646.2 | 11405.8 | 10440.1 | 9909.1 | 9597.9 | 9497.2 |
| 16367.2 | 12.5° | 16211.6 | 15923.3 | 14788.2 | 13076.4 | 11259.3 | 9900.0 | 9057.8 | 8746.6 | 8586.4 | 8531.5 |
| 16660.2 | 15° | 16472.5 | 15996.5 | 14325.9 | 11913.8 | 9936.6 | 8801.5 | 8256.8 | 8041.7 | 7959.3 | 7954.8 |
| 16962.2 | 17.5° | 16669.3 | 16010.2 | 13607.3 | 10668.9 | 8920.5 | 8137.8 | 7689.3 | 7606.9 | 7661.8 | 7744.2 |
| 17259.7 | 20° | 16889.0 | 15886.7 | 12664.5 | 9533.8 | 8206.5 | 7556.6 | 7368.9 | 7423.8 | 7556.6 | 7675.6 |
| 17653.4 | 22.5° | 17044.6 | 15662.4 | 11524.8 | 8650.5 | 7588.6 | 7222.5 | 7213.3 | 7327.7 | 7401.0 | 7460.5 |
| 18115.6 | 25° | 17181.9 | 15282.5 | 10316.5 | 7909.0 | 7080.6 | 7021.1 | 7121.8 | 7085.1 | 7034.8 | 7085.1 |
| 18577.9 | 27.5° | 17282.6 | 14682.9 | 9236.3 | 7259.1 | 6723.6 | 6883.8 | 6824.3 | 6741.9 | 6737.3 | 6764.8 |
| 19122.6 | 30° | 17250.6 | 13881.9 | 8348.4 | 6641.2 | 6471.8 | 6627.4 | 6485.6 | 6471.8 | 6458.1 | 6471.8 |
| 19941.8 | 32.5° | 17250.6 | 12971.1 | 7666.4 | 6215.5 | 6311.6 | 6252.1 | 6238.4 | 6206.4 | 6151.4 | 6146.9 |
| 21054.0 | 35° | 17346.7 | 12060.3 | 7080.6 | 5986.7 | 6178.9 | 6037.0 | 6046.2 | 5968.4 | 5853.9 | 5799.0 |
| 22527.8 | 37.5° | 17543.5 | 11328.0 | 6499.3 | 5876.8 | 5945.5 | 5940.9 | 5904.3 | 5771.6 | 5570.2 | 5396.2 |
| 24367.8 | 40° | 18019.5 | 11112.9 | 6101.1 | 5826.5 | 5835.6 | 5890.6 | 5794.4 | 5538.1 | 5080.4 | 4796.7 |
| 26235.2 | 42.5° | 18765.6 | 11474.5 | 6014.1 | 5702.9 | 5762.4 | 5817.3 | 5629.7 | 5034.7 | 4709.7 | 4540.4 |
| 28194.1 | 45° | 19713.0 | 12106.1 | 6201.8 | 5524.4 | 5588.5 | 5684.6 | 5126.2 | 4842.4 | 4696.0 | 4700.5 |
| 30134.8 | 47.5° | 20912.2 | 12769.7 | 6549.6 | 5368.8 | 5336.7 | 5391.7 | 4792.1 | 4618.2 | 4416.8 | 4467.1 |
| 31997.6 | 50° | 22299.0 | 13442.6 | 6879.2 | 5158.2 | 5057.5 | 4879.0 | 4577.0 | 4412.2 | 4155.9 | 4036.9 |
| 33796.3 | 52.5° | 23800.2 | 14092.5 | 7011.9 | 4901.9 | 4755.5 | 4549.5 | 4430.5 | 4229.1 | 3917.9 | 3721.1 |
| 35494.4 | 55° | 25223.7 | 14682.9 | 6865.5 | 4595.3 | 4453.4 | 4293.2 | 4274.9 | 4151.3 | 3817.2 | 3542.6 |
| 37004.8 | 57.5° | 26569.3 | 15177.2 | 6499.3 | 4284.0 | 4146.7 | 4050.6 | 4174.2 | 4114.7 | 3693.6 | 3341.2 |
| 38432.8 | 60° | 27709.0 | 15515.9 | 5968.4 | 3968.2 | 3872.1 | 3821.8 | 4009.4 | 3991.1 | 3519.7 | 3126.1 |
| 39714.3 | 62.5° | 28615.2 | 15648.7 | 5382.5 | 3666.2 | 3643.3 | 3551.7 | 3780.6 | 3780.6 | 3300.0 | 2915.5 |
| 40840.3 | 65° | 29324.6 | 15520.5 | 4787.5 | 3368.6 | 3414.4 | 3277.1 | 3501.4 | 3473.9 | 3066.6 | 2727.9 |
| 42135.6 | 67.5° | 29951.7 | 15099.4 | 4128.4 | 3075.7 | 3181.0 | 3007.1 | 3208.5 | 3144.4 | 2810.3 | 2540.2 |
| 43256.9 | 70° | 30230.9 | 14119.9 | 3377.8 | 2782.8 | 2911.0 | 2741.6 | 2915.5 | 2796.5 | 2521.9 | 2338.8 |
| 42025.7 | 72.5° | 27988.2 | 11735.3 | 2659.2 | 2476.1 | 2586.0 | 2448.7 | 2599.7 | 2462.4 | 2210.7 | 2128.3 |
| 36290.8 | 75° | 23154.9 | 8806.1 | 2045.9 | 2142.0 | 2224.4 | 2119.1 | 2219.8 | 2119.1 | 1890.3 | 1949.8 |
| 26807.3 | 77.5° | 16815.8 | 5945.5 | 1565.3 | 1789.6 | 1826.2 | 1771.3 | 1858.2 | 1743.8 | 1537.9 | 1524.1 |
| 13360.2 | 80° | 8362.1 | 3483.1 | 1226.6 | 1414.3 | 1400.6 | 1363.9 | 1464.6 | 1409.7 | 1235.8 | 1309.0 |
| 3606.7 | 82.5° | 2421.2 | 1492.1 | 892.5 | 993.2 | 965.7 | 974.9 | 1048.1 | 1075.6 | 1611.1 | 1597.4 |
| 1121.4 | 85° | 759.8 | 585.9 | 535.5 | 553.8 | 526.4 | 540.1 | 617.9 | 1226.6 | 1135.1 | 663.7 |
| 347.8 | 87.5° | 196.8 | 201.4 | 132.7 | 141.9 | 146.5 | 173.9 | 196.8 | 746.0 | 357.0 | 233.4 |
| 0.0 | 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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| <u>180°</u> |
|-------------|
| 15616.6 |
| 14870.6 |
| 13268.6 |
| 11058.0 |
| 9341.6 |
| 8545.2 |
| 7973.1 |
| 7776.3 |
| 7716.8 |
| 7492.5 |
| 7117.2 |
| 6810.5 |
| 6522.2 |
| 6206.4 |
| 5853.9 |
| 5455.7 |
| 4833.3 |
| 4540.4 |
| 4723.4 |
| 4595.3 |
| 4068.9 |
| 3716.5 |
| 3542.6 |
| 3322.9 |
| 3112.3 |
| 2901.8 |
| 2709.6 |
| 2521.9 |
| 2302.2 |
| 2059.6 |
| 1780.4 |
| 1455.5 |
| 1295.3 |
| 1634.0 |
| 718.6 |
| 247.2 |
| 0.0 |

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