

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: P957553

Luminaire Tested: **GALN-SB9D-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 91015 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

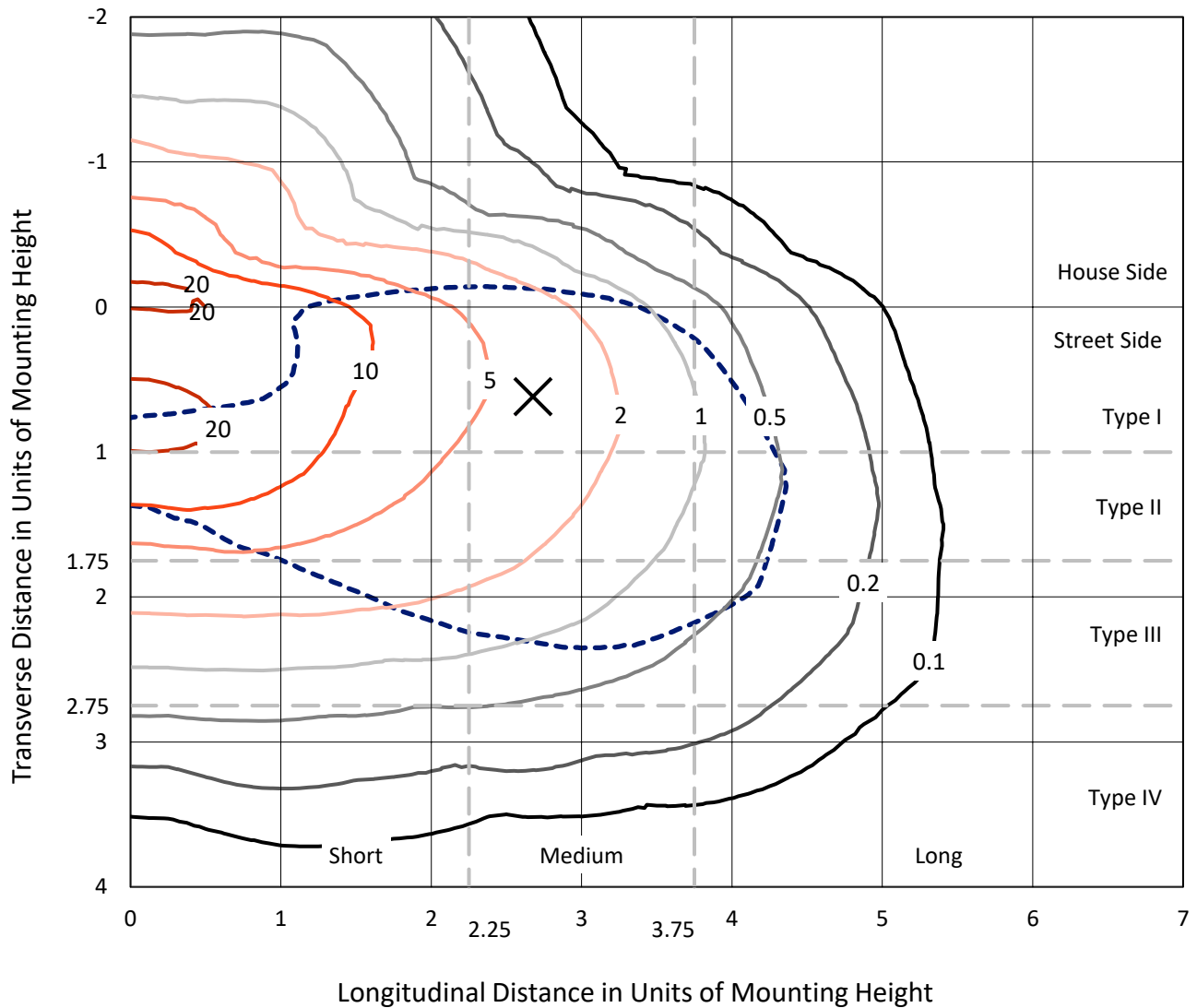
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

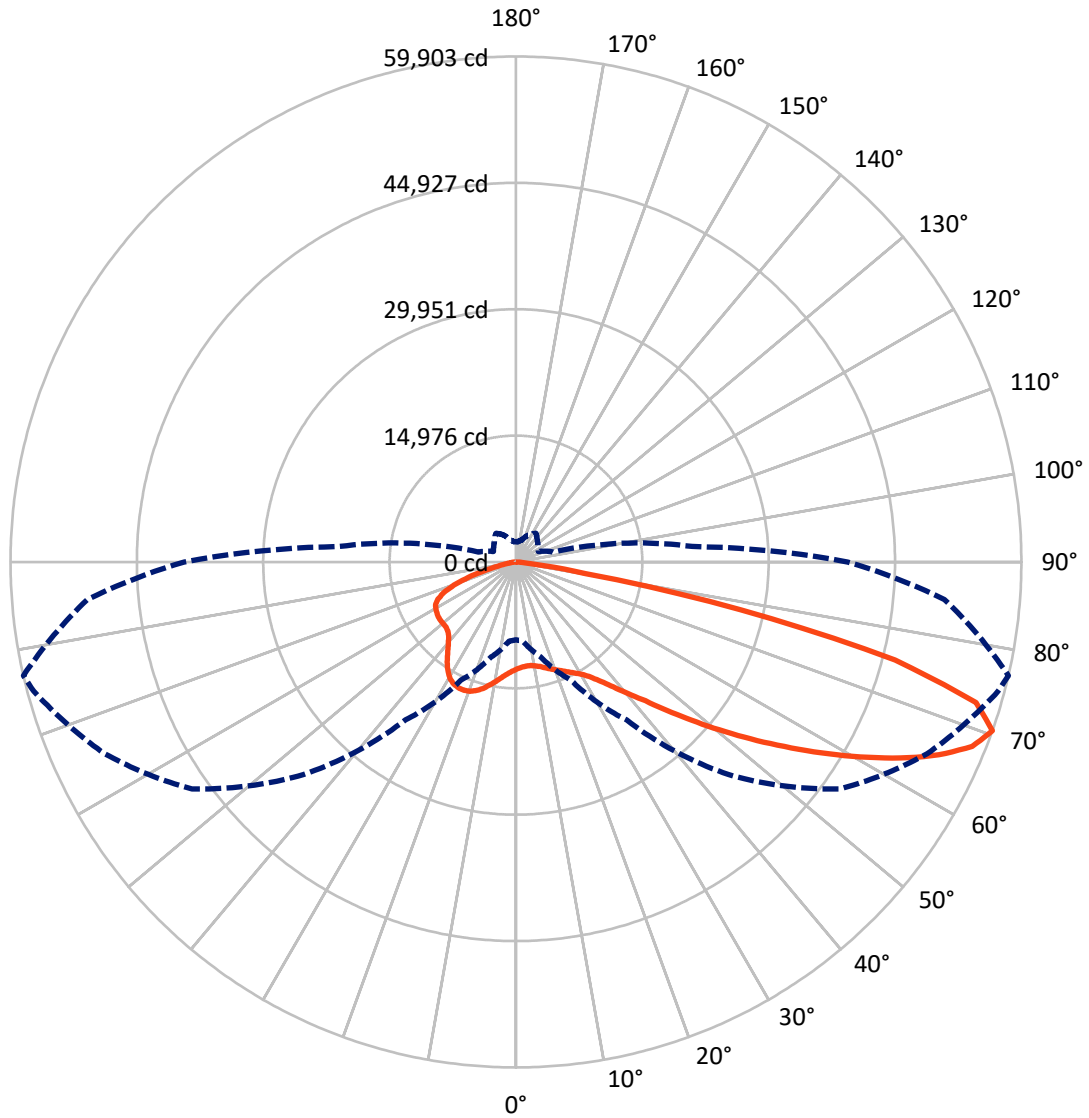
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19930.9 | 0.0 | 19930.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 71084.1 | 0.0 | 71084.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 91015.0 | 0.0 | 91015.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1211.0 | 1.3 |
| 10°-20° | 3495.0 | 3.8 |
| 20°-30° | 5977.0 | 6.6 |
| 30°-40° | 9611.6 | 10.6 |
| 40°-50° | 15006.3 | 16.5 |
| 50°-60° | 20044.8 | 22.0 |
| 60°-70° | 21364.7 | 23.5 |
| 70°-80° | 13152.0 | 14.5 |
| 80°-90° | 1152.5 | 1.3 |
| 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° | 91015.0 | 100.0 |
| 0°-180° | 91015.0 | 100.0 |

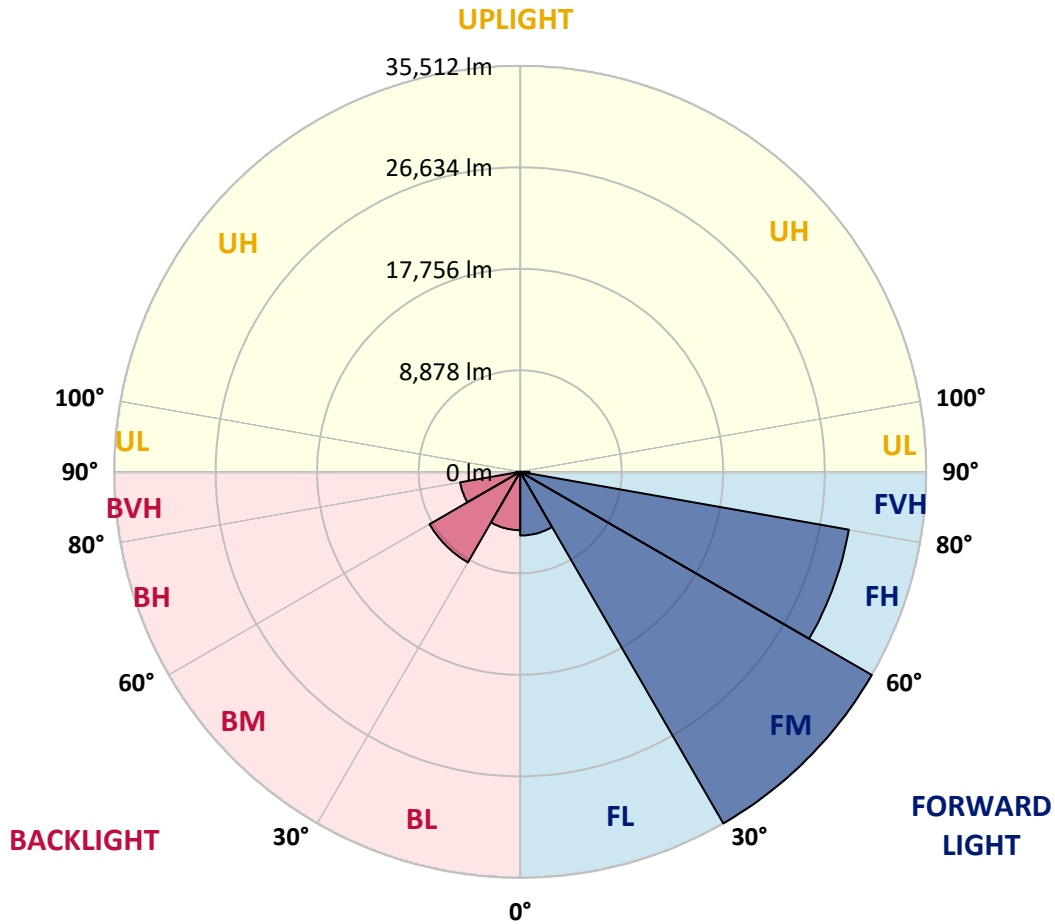


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 5576.1 | 6.1 | | | |
| FM (30°-60°) | 35512.1 | 39.0 | | | |
| FH (60°-80°) | 29190.0 | 32.1 | | | G5 |
| FVH (80°-90°) | 805.9 | 0.9 | | | G5 |
| BL (0°-30°) | 5106.9 | 5.6 | B5 | | |
| BM (30°-60°) | 9150.7 | 10.1 | B5 | | |
| BH (60°-80°) | 5326.7 | 5.9 | B5 | | G5 |
| BVH (80°-90°) | 346.6 | 0.4 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 |
| 2.5° | 11704.6 | 11699.9 | 11760.5 | 11779.1 | 11891.0 | 11970.3 | 12119.4 | 12277.9 | 12483.0 | 12506.3 |
| 5° | 11028.7 | 11028.7 | 11098.6 | 11173.2 | 11317.7 | 11476.2 | 11704.6 | 11979.6 | 12333.8 | 12389.8 |
| 7.5° | 10455.3 | 10492.6 | 10553.2 | 10697.7 | 10865.5 | 11093.9 | 11443.5 | 11835.1 | 12301.2 | 12389.8 |
| 10° | 9993.9 | 10035.8 | 10110.4 | 10226.9 | 10478.6 | 10795.6 | 11252.4 | 11755.8 | 12380.5 | 12520.3 |
| 12.5° | 9849.4 | 9891.3 | 9933.3 | 10021.8 | 10254.9 | 10627.8 | 11173.2 | 11793.1 | 12571.6 | 12711.4 |
| 15° | 10185.0 | 10236.2 | 10203.6 | 10180.3 | 10301.5 | 10641.8 | 11210.5 | 11928.3 | 12809.3 | 13009.7 |
| 17.5° | 10958.8 | 10977.4 | 10902.8 | 10683.7 | 10665.1 | 10846.9 | 11387.6 | 12114.8 | 13107.6 | 13326.7 |
| 20° | 12208.0 | 12175.4 | 12021.5 | 11588.0 | 11341.0 | 11303.7 | 11690.6 | 12394.4 | 13415.3 | 13648.3 |
| 22.5° | 13904.7 | 13867.4 | 13559.8 | 12874.6 | 12324.5 | 11960.9 | 12128.7 | 12758.0 | 13760.2 | 14021.2 |
| 25° | 16020.9 | 15969.7 | 15517.5 | 14585.3 | 13732.2 | 12832.6 | 12725.4 | 13238.1 | 14184.4 | 14426.8 |
| 27.5° | 18491.4 | 18449.5 | 17960.0 | 16729.5 | 15498.9 | 14025.9 | 13466.5 | 13802.2 | 14627.2 | 14902.2 |
| 30° | 21148.4 | 21269.6 | 20402.6 | 19078.8 | 17521.9 | 15582.8 | 14464.1 | 14496.7 | 15200.5 | 15447.6 |
| 32.5° | 24271.5 | 24481.2 | 23437.1 | 21759.0 | 19633.5 | 17274.8 | 15722.6 | 15466.2 | 16034.9 | 16240.0 |
| 35° | 27366.6 | 27604.3 | 26737.3 | 24882.1 | 22434.9 | 19269.9 | 17037.1 | 16580.3 | 17144.3 | 17368.1 |
| 37.5° | 30042.2 | 30359.1 | 29911.7 | 28298.8 | 25432.1 | 21675.1 | 18752.5 | 17890.1 | 18510.1 | 18789.8 |
| 40° | 32153.8 | 32638.5 | 32605.9 | 31599.1 | 28965.4 | 24593.1 | 20929.3 | 19507.6 | 20206.8 | 20509.8 |
| 42.5° | 33869.1 | 34288.6 | 34652.2 | 34600.9 | 32652.5 | 27907.3 | 23488.4 | 21609.9 | 22141.2 | 22490.8 |
| 45° | 35053.1 | 35500.6 | 36283.7 | 37127.4 | 36199.8 | 31454.6 | 26420.3 | 24103.7 | 24588.4 | 25115.2 |
| 47.5° | 36111.2 | 36619.3 | 37635.5 | 38973.3 | 39211.0 | 35015.8 | 29632.0 | 27007.7 | 27450.5 | 27995.9 |
| 50° | 36204.4 | 36642.6 | 38218.1 | 40115.3 | 41350.5 | 38437.2 | 33081.4 | 30265.9 | 30680.8 | 31263.4 |
| 52.5° | 33953.0 | 34642.9 | 37393.1 | 40082.6 | 42334.1 | 41299.3 | 36507.4 | 33654.7 | 34120.8 | 34820.0 |
| 55° | 26355.1 | 27366.6 | 34973.8 | 38833.4 | 41984.5 | 43149.8 | 39765.7 | 37257.9 | 37854.5 | 38586.4 |
| 57.5° | 22700.6 | 23143.4 | 27762.8 | 36558.7 | 40390.3 | 43629.9 | 42515.9 | 40898.4 | 41858.6 | 42660.4 |
| 60° | 20402.6 | 20770.8 | 23502.4 | 33020.8 | 38292.7 | 42870.1 | 44641.4 | 44291.8 | 45951.2 | 46906.8 |
| 62.5° | 17941.4 | 18291.0 | 20775.5 | 27571.7 | 35607.8 | 41606.9 | 45983.9 | 47424.2 | 50146.4 | 51190.6 |
| 65° | 15498.9 | 15797.2 | 18179.1 | 23166.7 | 32195.7 | 40343.7 | 46678.4 | 50132.4 | 54029.3 | 55110.7 |
| 67.5° | 12776.7 | 13023.7 | 15275.1 | 19544.9 | 28047.1 | 38614.3 | 47023.3 | 52262.7 | 57408.8 | 58336.4 |
| 70° | 9220.1 | 9411.2 | 11737.2 | 15456.9 | 22840.4 | 35640.4 | 46883.5 | 53772.9 | 59161.4 | 59902.6 |
| 72.5° | 4358.3 | 4530.8 | 7262.3 | 10035.8 | 16132.8 | 29851.1 | 44054.1 | 52575.0 | 57380.8 | 57012.5 |
| 75° | 2326.0 | 2475.2 | 4171.9 | 5505.0 | 8520.9 | 20463.2 | 36050.6 | 45289.3 | 48184.0 | 46394.1 |
| 77.5° | 1575.5 | 1692.1 | 2582.4 | 3304.9 | 3892.2 | 9714.2 | 23171.4 | 31356.7 | 30168.0 | 27212.8 |
| 80° | 1249.2 | 1370.4 | 2116.2 | 2237.4 | 1883.2 | 3510.0 | 9574.3 | 14515.3 | 10427.4 | 8339.1 |
| 82.5° | 960.2 | 1095.4 | 1780.6 | 1622.1 | 1025.5 | 1440.3 | 2787.5 | 4591.4 | 2670.9 | 2032.3 |
| 85° | 587.3 | 731.8 | 1398.4 | 1034.8 | 578.0 | 657.2 | 946.2 | 1277.2 | 815.7 | 680.6 |
| 87.5° | 298.3 | 419.5 | 708.5 | 377.6 | 261.0 | 153.8 | 251.7 | 251.7 | 214.4 | 186.5 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12697.4 | 0° | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 | 12697.4 |
| 12632.2 | 2.5° | 12744.0 | 12837.3 | 12995.7 | 13144.9 | 13261.4 | 13373.3 | 13485.2 | 13545.8 | 13564.4 | 13639.0 |
| 12702.1 | 5° | 12893.2 | 13065.7 | 13373.3 | 13662.3 | 13844.1 | 13956.0 | 14035.2 | 14081.8 | 14091.2 | 14114.5 |
| 12893.2 | 7.5° | 13168.2 | 13443.2 | 13872.1 | 14161.1 | 14296.3 | 14286.9 | 14254.3 | 14137.8 | 14091.2 | 14049.2 |
| 13172.9 | 10° | 13555.1 | 13918.7 | 14445.4 | 14645.9 | 14561.9 | 14338.2 | 14049.2 | 13708.9 | 13550.4 | 13396.6 |
| 13555.1 | 12.5° | 14035.2 | 14496.7 | 15014.1 | 15004.8 | 14589.9 | 14016.6 | 13345.3 | 12823.3 | 12492.3 | 12254.6 |
| 14025.9 | 15° | 14617.9 | 15149.3 | 15545.5 | 15228.5 | 14319.6 | 13289.4 | 12305.9 | 11625.3 | 11327.0 | 11066.0 |
| 14501.4 | 17.5° | 15219.2 | 15787.9 | 15969.7 | 15158.6 | 13639.0 | 12212.6 | 11098.6 | 10562.5 | 10268.9 | 10129.0 |
| 15014.1 | 20° | 15806.5 | 16370.5 | 16221.4 | 14757.7 | 12604.2 | 10991.4 | 9998.5 | 9704.9 | 9644.3 | 9676.9 |
| 15512.9 | 22.5° | 16426.5 | 16929.9 | 16272.7 | 13983.9 | 11285.0 | 9742.1 | 9196.8 | 9206.1 | 9341.3 | 9439.2 |
| 16034.9 | 25° | 17060.4 | 17400.7 | 16137.5 | 12865.2 | 9868.0 | 8823.9 | 8688.7 | 8837.9 | 9103.5 | 9294.7 |
| 16622.3 | 27.5° | 17671.0 | 17820.2 | 15843.8 | 11480.8 | 8651.4 | 8166.6 | 8189.9 | 8497.6 | 8898.5 | 9164.1 |
| 17335.4 | 30° | 18360.9 | 18193.1 | 15279.8 | 9923.9 | 7807.7 | 7602.6 | 7798.4 | 8157.3 | 8558.2 | 8795.9 |
| 18235.1 | 32.5° | 19139.4 | 18514.7 | 14384.8 | 8483.6 | 7211.1 | 7150.5 | 7472.1 | 7705.2 | 7882.3 | 7952.2 |
| 19428.4 | 35° | 20108.9 | 18966.9 | 13238.1 | 7472.1 | 6675.0 | 6819.5 | 7127.2 | 7010.6 | 6940.7 | 6903.4 |
| 21031.9 | 37.5° | 21367.5 | 19577.5 | 11895.7 | 6814.8 | 6241.5 | 6581.8 | 6707.6 | 6344.1 | 6069.0 | 5933.9 |
| 22975.6 | 40° | 22882.4 | 20472.5 | 10604.5 | 6306.8 | 5966.5 | 6376.7 | 6157.6 | 5719.4 | 5369.8 | 5178.7 |
| 25161.8 | 42.5° | 24565.1 | 21409.4 | 9518.4 | 5924.5 | 5812.7 | 6208.9 | 5752.1 | 5230.0 | 4666.0 | 4605.4 |
| 27767.5 | 45° | 26331.8 | 22374.3 | 8777.3 | 5630.9 | 5738.1 | 6064.4 | 5519.0 | 4675.3 | 4274.4 | 4521.5 |
| 30382.5 | 47.5° | 28098.4 | 23260.0 | 8329.8 | 5411.8 | 5700.8 | 5901.2 | 5313.9 | 4367.7 | 4083.3 | 4442.2 |
| 33183.9 | 50° | 30065.5 | 24052.4 | 8129.3 | 5253.3 | 5658.8 | 5836.0 | 5006.3 | 4288.4 | 3882.9 | 4120.6 |
| 36083.2 | 52.5° | 32018.6 | 24667.7 | 7980.2 | 5094.8 | 5598.2 | 5784.7 | 4857.1 | 4195.2 | 3640.5 | 3654.5 |
| 39001.2 | 55° | 33967.0 | 25068.6 | 7817.0 | 4885.1 | 5463.1 | 5672.8 | 4843.1 | 4092.6 | 3458.7 | 3393.4 |
| 42087.0 | 57.5° | 36046.0 | 25297.0 | 7616.6 | 4652.0 | 5230.0 | 5388.5 | 4829.1 | 4013.4 | 3402.8 | 3295.5 |
| 45242.7 | 60° | 38162.2 | 25632.6 | 7355.6 | 4367.7 | 4917.7 | 5048.2 | 4796.5 | 3985.4 | 3370.1 | 3188.3 |
| 48216.6 | 62.5° | 40059.3 | 25749.1 | 7043.2 | 4097.3 | 4516.8 | 4712.6 | 4726.6 | 3962.1 | 3281.6 | 2969.3 |
| 50687.1 | 65° | 41303.9 | 25245.7 | 6497.9 | 3789.6 | 4083.3 | 4367.7 | 4591.4 | 3882.9 | 3123.1 | 2810.8 |
| 51908.4 | 67.5° | 41252.6 | 23810.0 | 5644.9 | 3393.4 | 3663.8 | 3985.4 | 4395.6 | 3747.7 | 2932.0 | 2615.0 |
| 50985.5 | 70° | 39332.2 | 20975.9 | 4563.4 | 2932.0 | 3202.3 | 3575.2 | 4143.9 | 3547.3 | 2703.6 | 2400.6 |
| 45336.0 | 72.5° | 33733.9 | 16417.2 | 3314.2 | 2391.3 | 2666.3 | 3151.0 | 3817.6 | 3304.9 | 2470.5 | 2209.5 |
| 33505.5 | 75° | 24099.0 | 10390.1 | 2246.8 | 1836.6 | 2074.3 | 2670.9 | 3412.1 | 3020.5 | 2256.1 | 2218.8 |
| 16780.7 | 77.5° | 12310.5 | 4964.3 | 1487.0 | 1342.5 | 1445.0 | 2106.9 | 2866.7 | 2698.9 | 2288.7 | 1831.9 |
| 4773.2 | 80° | 4004.1 | 1831.9 | 936.9 | 913.6 | 960.2 | 1403.1 | 2218.8 | 2214.1 | 1734.0 | 1244.6 |
| 1156.0 | 82.5° | 1277.2 | 787.8 | 610.6 | 587.3 | 564.0 | 881.0 | 1547.6 | 1752.7 | 1170.0 | 787.8 |
| 414.9 | 85° | 508.1 | 470.8 | 358.9 | 331.0 | 237.7 | 414.9 | 811.1 | 1165.3 | 871.7 | 568.7 |
| 107.2 | 87.5° | 186.5 | 186.5 | 97.9 | 69.9 | 51.3 | 139.8 | 219.1 | 349.6 | 498.8 | 293.7 |
| 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> |
|-------------|
| 12697.4 |
| 13681.0 |
| 14151.8 |
| 14058.5 |
| 13350.0 |
| 12198.7 |
| 11038.0 |
| 10171.0 |
| 9662.9 |
| 9462.5 |
| 9345.9 |
| 9229.4 |
| 8851.8 |
| 7989.5 |
| 6940.7 |
| 5966.5 |
| 5192.7 |
| 4666.0 |
| 4652.0 |
| 4610.0 |
| 4297.7 |
| 3752.4 |
| 3440.1 |
| 3309.5 |
| 3202.3 |
| 2969.3 |
| 2810.8 |
| 2629.0 |
| 2428.5 |
| 2195.5 |
| 2092.9 |
| 1631.5 |
| 1100.1 |
| 783.1 |
| 582.7 |
| 289.0 |
| 0.0 |

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