

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: P950970

Luminaire Tested: **GALN-SB5B-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950970
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-SB5B-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27800 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

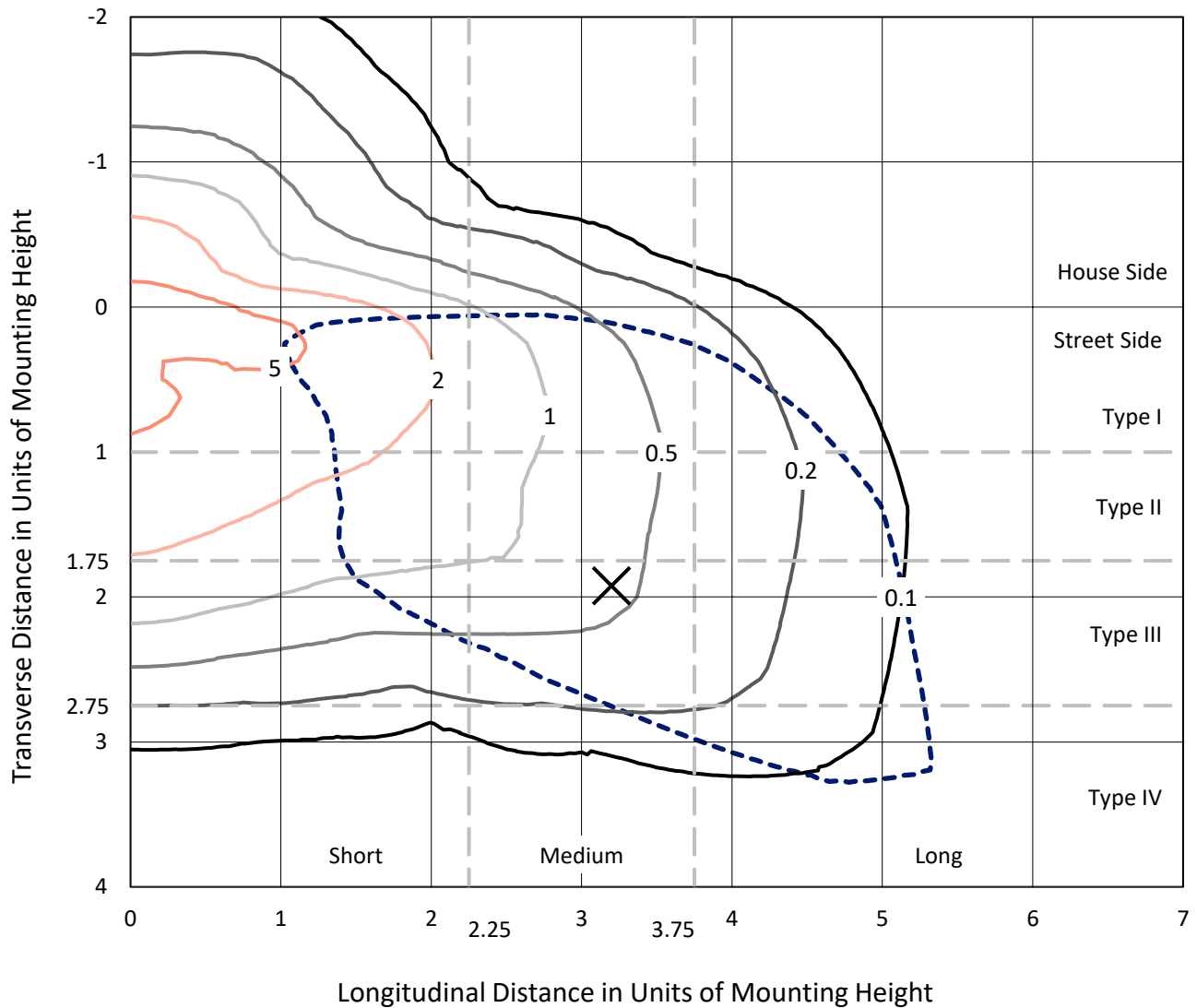
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

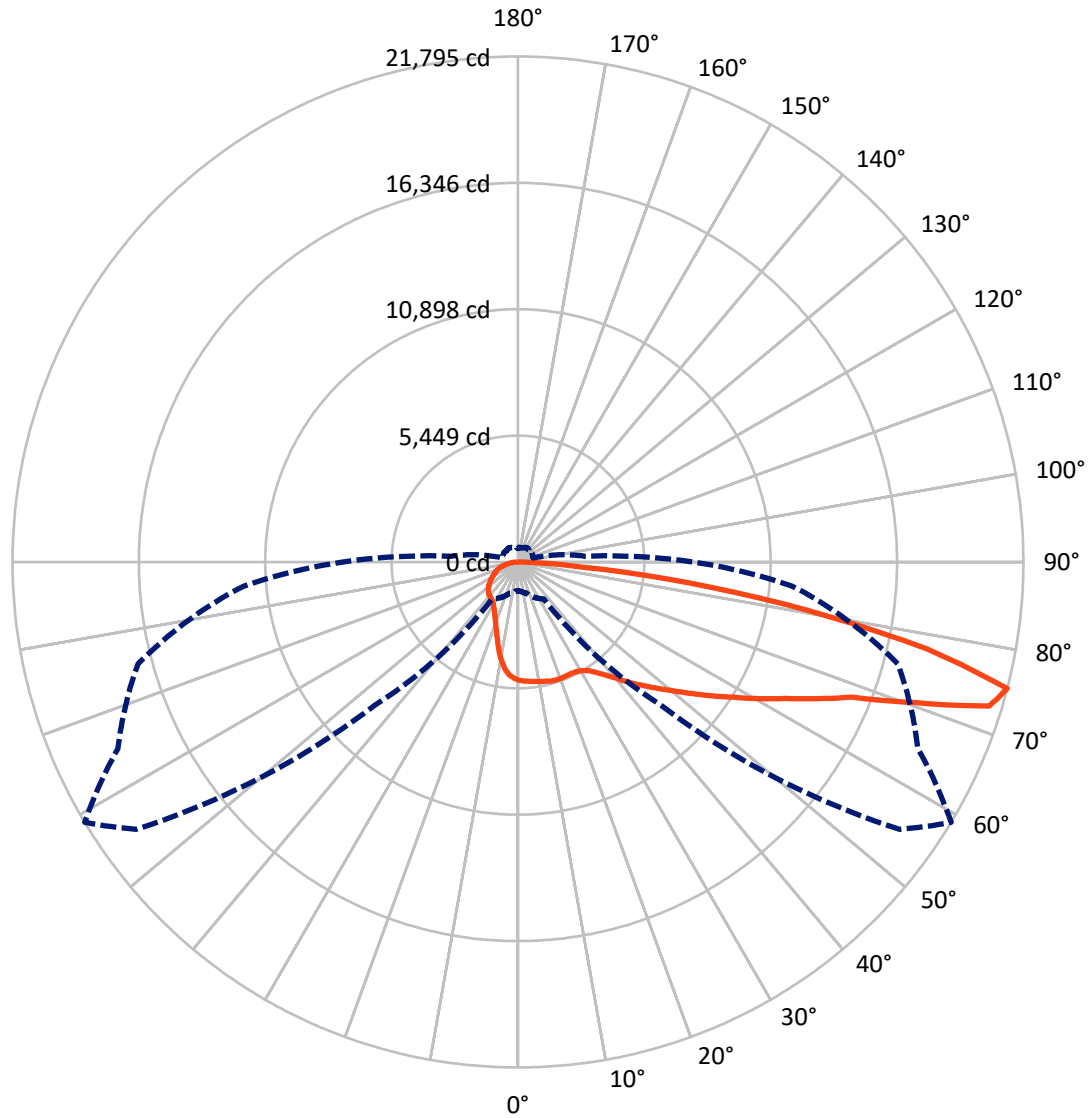
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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 | 5214.1 | 0.0 | 5214.1 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 22585.9 | 0.0 | 22585.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 27800.0 | 0.0 | 27800.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 457.5 | 1.6 |
| 10°-20° | 1169.5 | 4.2 |
| 20°-30° | 1776.4 | 6.4 |
| 30°-40° | 2640.5 | 9.5 |
| 40°-50° | 3926.9 | 14.1 |
| 50°-60° | 5330.3 | 19.2 |
| 60°-70° | 6507.4 | 23.4 |
| 70°-80° | 5106.9 | 18.4 |
| 80°-90° | 884.6 | 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° | 27800.0 | 100.0 |
| 0°-180° | 27800.0 | 100.0 |

Coefficient of Utilization



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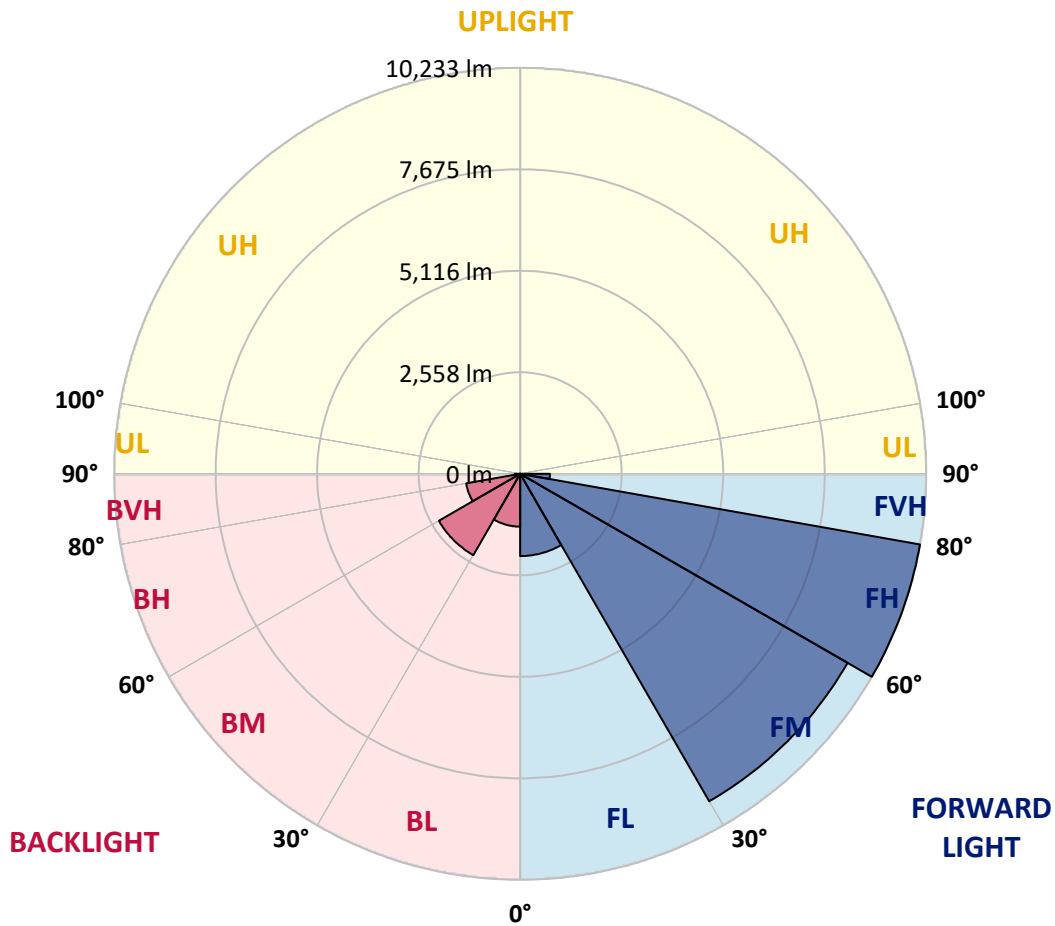
CATALOG NUMBER: GALN-SB5B-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2072.8 | 7.5 | | | |
| FM (30°-60°) | 9531.0 | 34.3 | | | |
| FH (60°-80°) | 10232.9 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 749.2 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1330.6 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2366.7 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1381.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 135.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 |
| 2.5° | 5146.0 | 5128.1 | 5146.0 | 5138.5 | 5135.5 | 5129.5 | 5131.0 | 5141.5 | 5135.5 | 5143.0 |
| 5° | 5111.6 | 5101.1 | 5119.1 | 5114.6 | 5134.0 | 5137.0 | 5156.5 | 5168.4 | 5175.9 | 5177.4 |
| 7.5° | 5054.8 | 5044.3 | 5069.7 | 5090.7 | 5132.5 | 5144.5 | 5184.9 | 5204.3 | 5214.8 | 5232.7 |
| 10° | 4846.9 | 4842.4 | 4905.2 | 4984.5 | 5083.2 | 5144.5 | 5205.8 | 5238.7 | 5255.2 | 5303.0 |
| 12.5° | 4479.0 | 4485.0 | 4567.2 | 4719.8 | 4917.2 | 5114.6 | 5229.7 | 5277.6 | 5303.0 | 5362.8 |
| 15° | 4127.6 | 4126.1 | 4215.8 | 4378.8 | 4655.5 | 4983.0 | 5241.7 | 5324.0 | 5367.3 | 5455.6 |
| 17.5° | 3924.2 | 3918.2 | 3981.0 | 4105.1 | 4362.4 | 4781.1 | 5211.8 | 5349.4 | 5442.1 | 5552.8 |
| 20° | 3886.8 | 3874.8 | 3907.7 | 3969.0 | 4151.5 | 4559.8 | 5134.0 | 5349.4 | 5501.9 | 5645.5 |
| 22.5° | 4022.9 | 4003.4 | 3990.0 | 3982.5 | 4063.3 | 4377.3 | 5045.8 | 5331.4 | 5590.2 | 5778.6 |
| 25° | 4296.6 | 4266.6 | 4197.9 | 4130.6 | 4106.6 | 4295.1 | 4968.0 | 5327.0 | 5721.8 | 5958.1 |
| 27.5° | 4739.2 | 4701.8 | 4562.8 | 4401.2 | 4256.2 | 4336.9 | 4933.6 | 5353.9 | 5866.8 | 6148.0 |
| 30° | 5288.1 | 5247.7 | 5072.7 | 4824.5 | 4564.2 | 4492.5 | 4977.0 | 5433.1 | 6052.3 | 6400.7 |
| 32.5° | 5780.1 | 5735.2 | 5585.7 | 5332.9 | 4981.5 | 4761.7 | 5114.6 | 5584.2 | 6343.9 | 6752.2 |
| 35° | 6216.8 | 6164.4 | 6029.8 | 5796.5 | 5493.0 | 5140.0 | 5362.8 | 5851.9 | 6758.1 | 7323.4 |
| 37.5° | 6644.5 | 6583.2 | 6436.6 | 6189.9 | 5977.5 | 5644.0 | 5705.3 | 6195.8 | 7308.5 | 8017.3 |
| 40° | 7123.0 | 7034.8 | 6856.8 | 6613.1 | 6406.7 | 6234.7 | 6155.5 | 6617.6 | 7867.8 | 8792.0 |
| 42.5° | 7586.6 | 7502.9 | 7290.5 | 7082.7 | 6823.9 | 6774.6 | 6677.4 | 7111.1 | 8479.5 | 9643.0 |
| 45° | 8086.1 | 7985.9 | 7728.7 | 7465.5 | 7302.5 | 7133.5 | 7182.9 | 7604.6 | 9079.1 | 10510.3 |
| 47.5° | 8554.2 | 8442.1 | 8138.5 | 7845.4 | 7755.6 | 7435.6 | 7646.5 | 8147.5 | 9702.8 | 11389.7 |
| 50° | 8807.0 | 8696.3 | 8443.6 | 8178.9 | 8108.6 | 7808.0 | 8149.0 | 8744.2 | 10356.3 | 12266.0 |
| 52.5° | 9017.8 | 8898.2 | 8567.7 | 8421.1 | 8400.2 | 8213.3 | 8768.1 | 9426.1 | 11009.8 | 13040.7 |
| 55° | 9242.2 | 9109.1 | 8687.3 | 8555.7 | 8651.4 | 8667.9 | 9502.4 | 10199.3 | 11700.8 | 13795.9 |
| 57.5° | 9500.9 | 9331.9 | 8802.5 | 8669.4 | 8896.7 | 9200.3 | 10345.8 | 11000.9 | 12379.7 | 14495.8 |
| 60° | 9744.6 | 9574.2 | 9023.8 | 8850.3 | 9161.4 | 9817.9 | 11313.4 | 11971.4 | 13148.4 | 15119.5 |
| 62.5° | 9792.5 | 9651.9 | 9200.3 | 9198.8 | 9520.3 | 10538.8 | 12459.0 | 12951.0 | 13819.9 | 15735.6 |
| 65° | 8964.0 | 8875.8 | 8608.1 | 9185.3 | 10034.8 | 11576.6 | 13734.6 | 14204.2 | 14673.8 | 16274.0 |
| 67.5° | 6822.4 | 6834.4 | 6815.0 | 7929.1 | 9619.0 | 13067.6 | 15581.6 | 15545.7 | 15728.1 | 16878.2 |
| 70° | 3119.6 | 3189.9 | 3647.5 | 5473.5 | 7706.3 | 13239.6 | 18635.4 | 18170.3 | 17051.6 | 17660.3 |
| 72.5° | 1685.4 | 1739.3 | 1926.2 | 2651.5 | 4633.0 | 11771.0 | 20917.5 | 21248.0 | 18811.8 | 18186.7 |
| 75° | 1236.8 | 1266.7 | 1396.8 | 1685.4 | 1945.6 | 8748.6 | 20099.4 | 21795.3 | 19031.7 | 16958.9 |
| 77.5° | 925.7 | 939.2 | 1045.4 | 1335.5 | 996.0 | 4612.1 | 16060.1 | 18050.6 | 16291.9 | 13933.5 |
| 80° | 671.5 | 686.4 | 765.7 | 1002.0 | 698.4 | 1686.9 | 11027.8 | 12669.8 | 11157.9 | 8881.7 |
| 82.5° | 463.6 | 469.6 | 504.0 | 681.9 | 487.5 | 655.0 | 6257.1 | 7429.6 | 6228.7 | 3116.6 |
| 85° | 279.7 | 287.1 | 302.1 | 397.8 | 276.7 | 311.1 | 2700.9 | 2793.6 | 1861.9 | 744.8 |
| 87.5° | 115.2 | 122.6 | 134.6 | 167.5 | 109.2 | 86.7 | 445.7 | 559.3 | 348.5 | 218.3 |
| 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-SB5B-735-U-SL3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5102.6 | 0° | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 | 5102.6 |
| 5117.6 | 2.5° | 5110.1 | 5099.6 | 5071.2 | 5032.3 | 4996.4 | 4951.6 | 4932.1 | 4915.7 | 4900.7 | 4872.3 |
| 5158.0 | 5° | 5141.5 | 5113.1 | 5036.8 | 4938.1 | 4826.0 | 4703.3 | 4583.7 | 4501.4 | 4431.2 | 4378.8 |
| 5204.3 | 7.5° | 5189.4 | 5135.5 | 4996.4 | 4794.6 | 4537.3 | 4274.1 | 4036.3 | 3867.3 | 3740.2 | 3693.9 |
| 5270.1 | 10° | 5238.7 | 5174.4 | 4932.1 | 4576.2 | 4132.1 | 3726.8 | 3411.2 | 3237.7 | 3136.1 | 3103.2 |
| 5347.9 | 12.5° | 5297.0 | 5202.8 | 4831.9 | 4272.6 | 3678.9 | 3234.8 | 2959.6 | 2857.9 | 2805.5 | 2787.6 |
| 5443.6 | 15° | 5382.3 | 5226.8 | 4680.9 | 3892.8 | 3246.7 | 2875.8 | 2697.9 | 2627.6 | 2600.7 | 2599.2 |
| 5542.3 | 17.5° | 5446.6 | 5231.2 | 4446.1 | 3486.0 | 2914.7 | 2659.0 | 2512.4 | 2485.5 | 2503.5 | 2530.4 |
| 5639.5 | 20° | 5518.4 | 5190.9 | 4138.0 | 3115.1 | 2681.4 | 2469.1 | 2407.7 | 2425.7 | 2469.1 | 2507.9 |
| 5768.1 | 22.5° | 5569.2 | 5117.6 | 3765.7 | 2826.5 | 2479.5 | 2359.9 | 2356.9 | 2394.3 | 2418.2 | 2437.7 |
| 5919.2 | 25° | 5614.1 | 4993.5 | 3370.8 | 2584.2 | 2313.5 | 2294.1 | 2327.0 | 2315.0 | 2298.6 | 2315.0 |
| 6070.2 | 27.5° | 5647.0 | 4797.5 | 3017.9 | 2371.9 | 2196.9 | 2249.2 | 2229.8 | 2202.9 | 2201.4 | 2210.3 |
| 6248.2 | 30° | 5636.5 | 4535.8 | 2727.8 | 2170.0 | 2114.6 | 2165.5 | 2119.1 | 2114.6 | 2110.1 | 2114.6 |
| 6515.9 | 32.5° | 5636.5 | 4238.2 | 2505.0 | 2030.9 | 2062.3 | 2042.8 | 2038.4 | 2027.9 | 2009.9 | 2008.4 |
| 6879.3 | 35° | 5667.9 | 3940.6 | 2313.5 | 1956.1 | 2018.9 | 1972.6 | 1975.5 | 1950.1 | 1912.7 | 1894.8 |
| 7360.8 | 37.5° | 5732.2 | 3701.3 | 2123.6 | 1920.2 | 1942.6 | 1941.2 | 1929.2 | 1885.8 | 1820.0 | 1763.2 |
| 7962.0 | 40° | 5887.8 | 3631.1 | 1993.5 | 1903.8 | 1906.8 | 1924.7 | 1893.3 | 1809.5 | 1660.0 | 1567.3 |
| 8572.2 | 42.5° | 6131.5 | 3749.2 | 1965.1 | 1863.4 | 1882.8 | 1900.8 | 1839.5 | 1645.0 | 1538.9 | 1483.5 |
| 9212.2 | 45° | 6441.1 | 3955.6 | 2026.4 | 1805.1 | 1826.0 | 1857.4 | 1675.0 | 1582.2 | 1534.4 | 1535.9 |
| 9846.3 | 47.5° | 6832.9 | 4172.4 | 2140.1 | 1754.2 | 1743.7 | 1761.7 | 1565.8 | 1509.0 | 1443.2 | 1459.6 |
| 10455.0 | 50° | 7286.1 | 4392.3 | 2247.7 | 1685.4 | 1652.5 | 1594.2 | 1495.5 | 1441.7 | 1357.9 | 1319.0 |
| 11042.7 | 52.5° | 7776.6 | 4604.6 | 2291.1 | 1601.7 | 1553.8 | 1486.5 | 1447.6 | 1381.8 | 1280.1 | 1215.8 |
| 11597.6 | 55° | 8241.7 | 4797.5 | 2243.2 | 1501.5 | 1455.1 | 1402.8 | 1396.8 | 1356.4 | 1247.2 | 1157.5 |
| 12091.1 | 57.5° | 8681.3 | 4959.1 | 2123.6 | 1399.8 | 1354.9 | 1323.5 | 1363.9 | 1344.4 | 1206.9 | 1091.7 |
| 12557.7 | 60° | 9053.7 | 5069.7 | 1950.1 | 1296.6 | 1265.2 | 1248.7 | 1310.1 | 1304.1 | 1150.0 | 1021.4 |
| 12976.4 | 62.5° | 9349.8 | 5113.1 | 1758.7 | 1197.9 | 1190.4 | 1160.5 | 1235.3 | 1235.3 | 1078.3 | 952.6 |
| 13344.3 | 65° | 9581.6 | 5071.2 | 1564.3 | 1100.7 | 1115.6 | 1070.8 | 1144.1 | 1135.1 | 1002.0 | 891.3 |
| 13767.5 | 67.5° | 9786.5 | 4933.6 | 1348.9 | 1005.0 | 1039.4 | 982.5 | 1048.3 | 1027.4 | 918.2 | 830.0 |
| 14133.9 | 70° | 9877.7 | 4613.6 | 1103.7 | 909.3 | 951.1 | 895.8 | 952.6 | 913.7 | 824.0 | 764.2 |
| 13731.6 | 72.5° | 9145.0 | 3834.4 | 868.9 | 809.1 | 845.0 | 800.1 | 849.4 | 804.6 | 722.3 | 695.4 |
| 11857.8 | 75° | 7565.7 | 2877.3 | 668.5 | 699.9 | 726.8 | 692.4 | 725.3 | 692.4 | 617.6 | 637.1 |
| 8759.1 | 77.5° | 5494.4 | 1942.6 | 511.5 | 584.7 | 596.7 | 578.8 | 607.2 | 569.8 | 502.5 | 498.0 |
| 4365.3 | 80° | 2732.3 | 1138.1 | 400.8 | 462.1 | 457.6 | 445.7 | 478.6 | 460.6 | 403.8 | 427.7 |
| 1178.4 | 82.5° | 791.1 | 487.5 | 291.6 | 324.5 | 315.5 | 318.5 | 342.5 | 351.4 | 526.4 | 521.9 |
| 366.4 | 85° | 248.3 | 191.4 | 175.0 | 181.0 | 172.0 | 176.5 | 201.9 | 400.8 | 370.9 | 216.8 |
| 113.7 | 87.5° | 64.3 | 65.8 | 43.4 | 46.4 | 47.9 | 56.8 | 64.3 | 243.8 | 116.6 | 76.3 |
| 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> |
|-------------|
| 5102.6 |
| 4858.9 |
| 4335.4 |
| 3613.1 |
| 3052.3 |
| 2792.1 |
| 2605.2 |
| 2540.8 |
| 2521.4 |
| 2448.1 |
| 2325.5 |
| 2225.3 |
| 2131.1 |
| 2027.9 |
| 1912.7 |
| 1782.6 |
| 1579.2 |
| 1483.5 |
| 1543.4 |
| 1501.5 |
| 1329.5 |
| 1214.3 |
| 1157.5 |
| 1085.7 |
| 1016.9 |
| 948.1 |
| 885.3 |
| 824.0 |
| 752.2 |
| 673.0 |
| 581.7 |
| 475.6 |
| 423.2 |
| 533.9 |
| 234.8 |
| 80.8 |
| 0.0 |

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