

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: P951797

Luminaire Tested: **GALN-SB5D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951797
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-SB5D-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46808 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

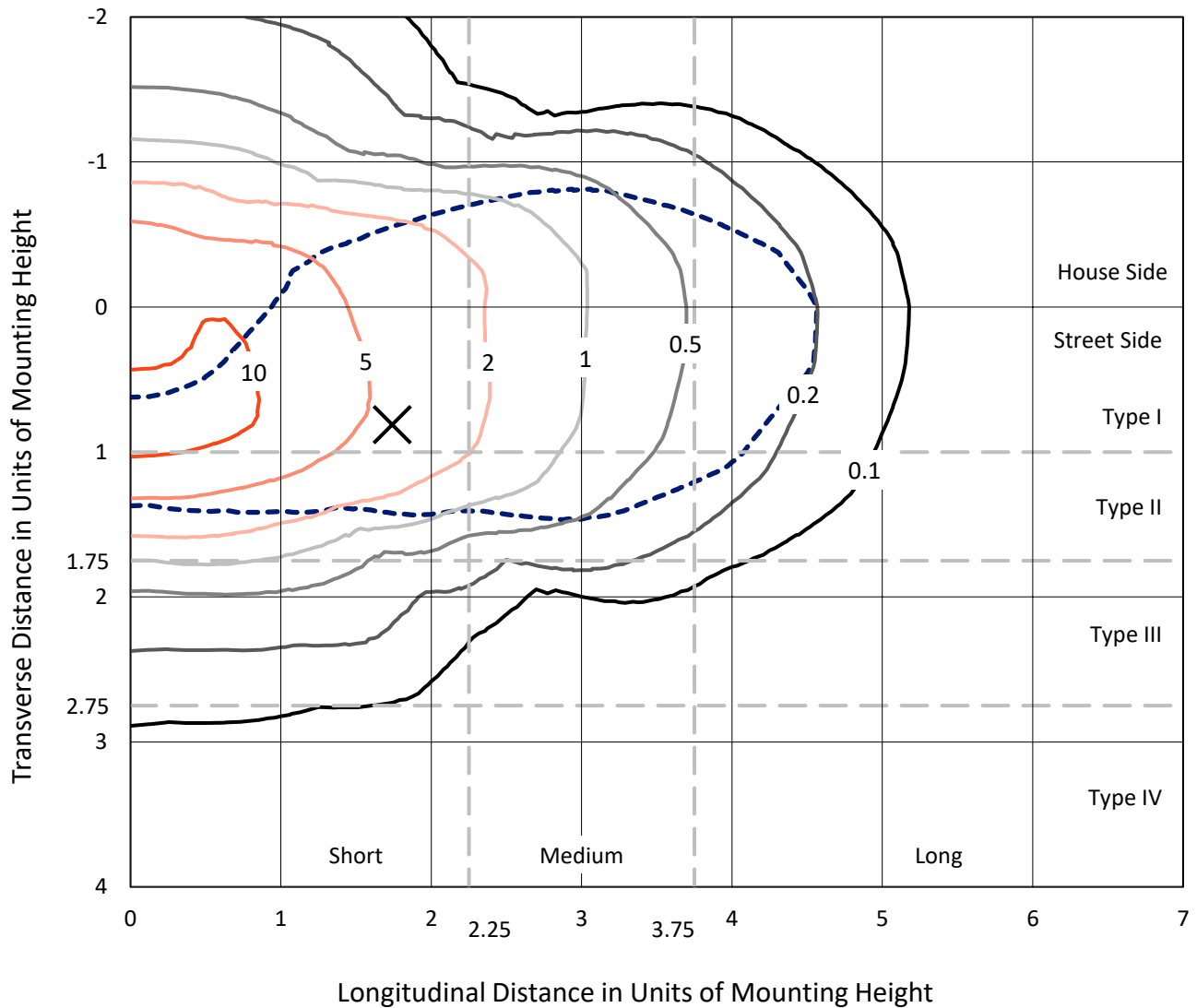
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

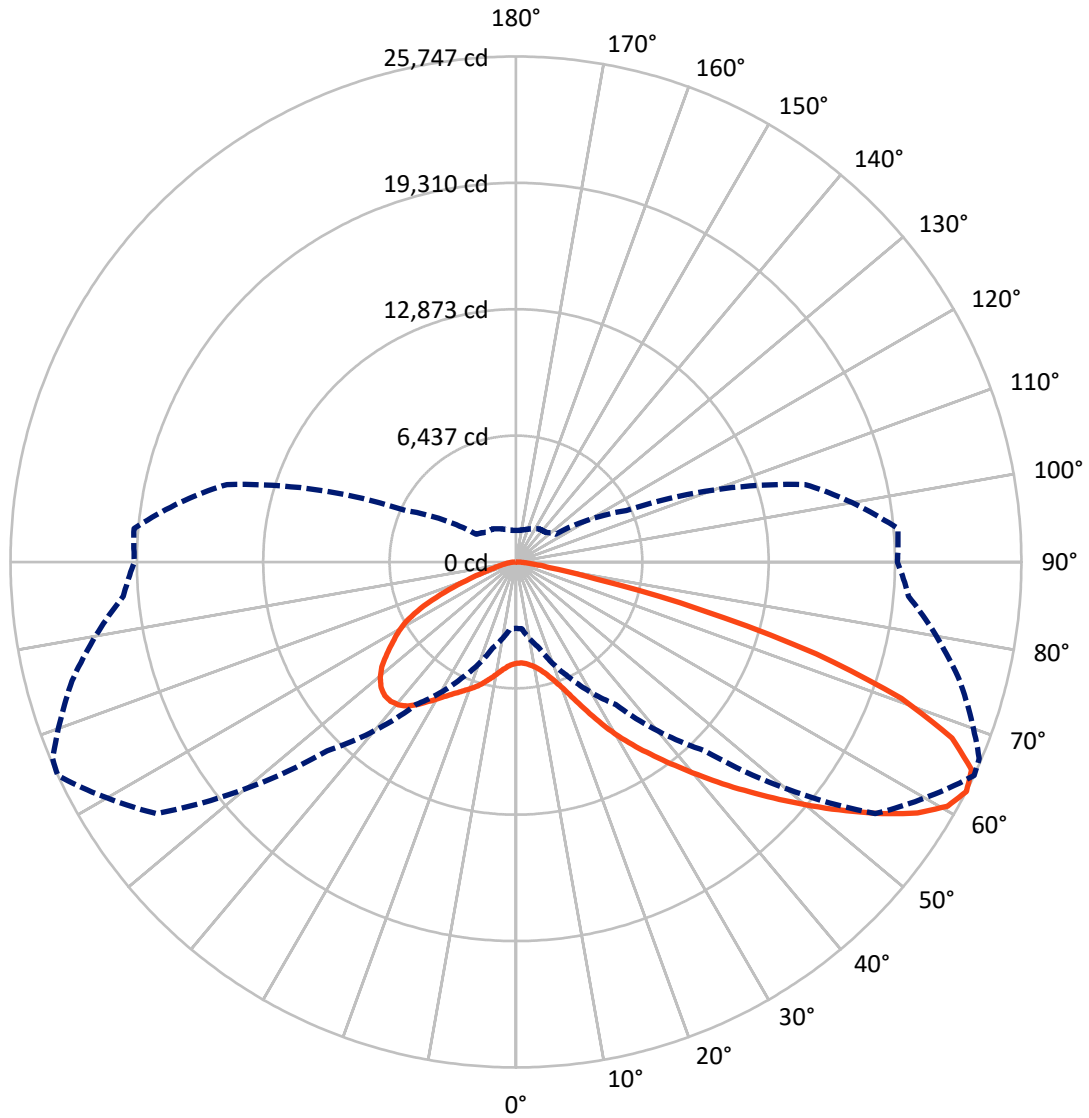
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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 | 14770.6 | 0.0 | 14770.6 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 32037.4 | 0.0 | 32037.4 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 46808.0 | 0.0 | 46808.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 514.3 | 1.1 |
| 10°-20° | 1743.9 | 3.7 |
| 20°-30° | 3535.9 | 7.6 |
| 30°-40° | 6118.8 | 13.1 |
| 40°-50° | 9259.6 | 19.8 |
| 50°-60° | 10856.3 | 23.2 |
| 60°-70° | 9101.7 | 19.4 |
| 70°-80° | 5024.9 | 10.7 |
| 80°-90° | 652.7 | 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° | 46808.0 | 100.0 |
| 0°-180° | 46808.0 | 100.0 |

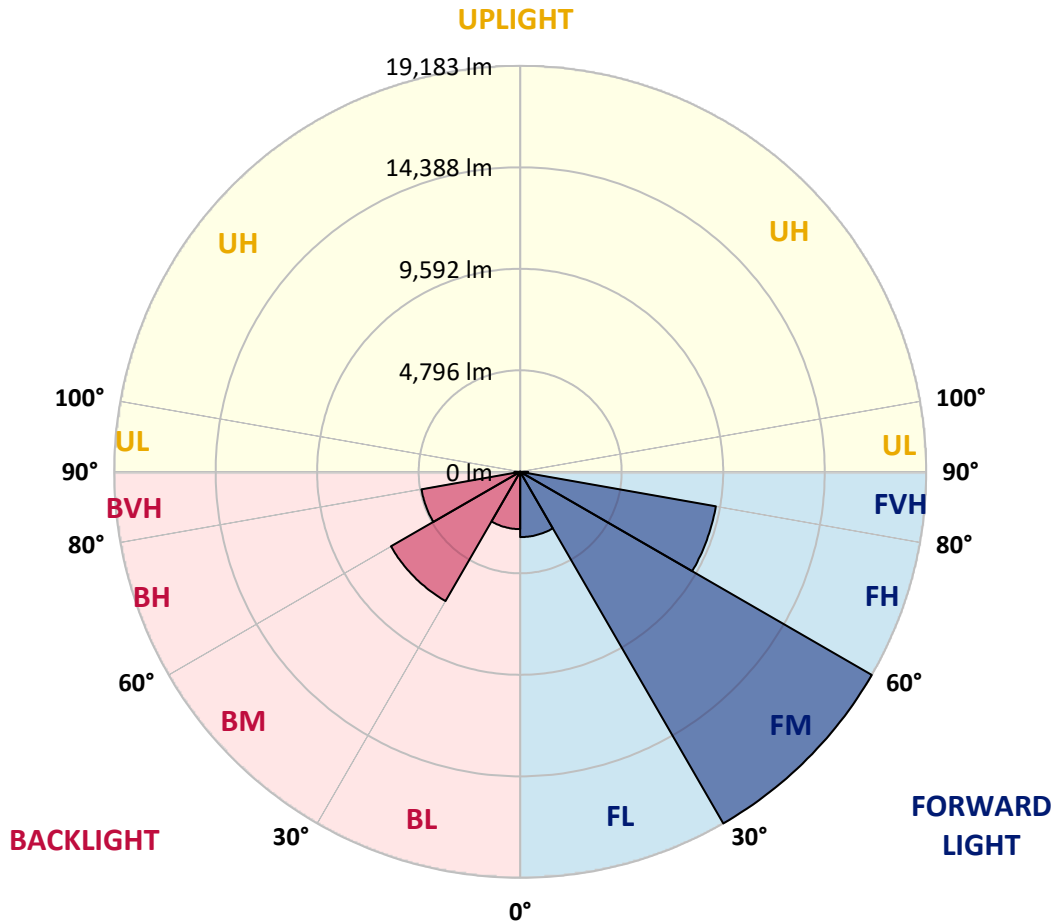


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3085.3 | 6.6 | | | |
| FM (30°-60°) | 19183.4 | 41.0 | | | |
| FH (60°-80°) | 9388.3 | 20.1 | | | G4/12000 |
| FVH (80°-90°) | 380.4 | 0.8 | | | G3/500 |
| BL (0°-30°) | 2708.7 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 7051.3 | 15.1 | B4/8500 | | |
| BH (60°-80°) | 4738.3 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 272.3 | 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° | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 |
| 2.5° | 5124.0 | 5109.5 | 5121.6 | 5121.6 | 5126.5 | 5124.0 | 5141.0 | 5145.9 | 5153.2 | 5167.8 |
| 5° | 5073.0 | 5070.6 | 5092.5 | 5111.9 | 5131.3 | 5148.3 | 5170.2 | 5201.8 | 5206.6 | 5223.6 |
| 7.5° | 5056.0 | 5041.5 | 5075.5 | 5099.8 | 5145.9 | 5187.2 | 5245.5 | 5298.9 | 5320.7 | 5328.0 |
| 10° | 5187.2 | 5162.9 | 5194.5 | 5209.0 | 5247.9 | 5289.2 | 5357.2 | 5442.2 | 5466.5 | 5495.6 |
| 12.5° | 5410.6 | 5383.9 | 5430.0 | 5451.9 | 5488.3 | 5524.7 | 5570.9 | 5653.4 | 5665.6 | 5719.0 |
| 15° | 5716.6 | 5685.0 | 5714.2 | 5740.9 | 5801.6 | 5835.6 | 5881.7 | 5961.9 | 5961.9 | 6003.1 |
| 17.5° | 6131.8 | 6090.6 | 6112.4 | 6122.1 | 6161.0 | 6212.0 | 6289.7 | 6360.1 | 6396.6 | 6382.0 |
| 20° | 6751.1 | 6700.1 | 6700.1 | 6651.5 | 6637.0 | 6678.3 | 6780.2 | 6877.4 | 6916.2 | 6841.0 |
| 22.5° | 7681.2 | 7608.3 | 7567.1 | 7401.9 | 7336.4 | 7341.2 | 7443.2 | 7562.2 | 7593.8 | 7460.2 |
| 25° | 8863.9 | 8749.7 | 8693.9 | 8451.0 | 8302.9 | 8174.2 | 8254.3 | 8407.3 | 8451.0 | 8285.9 |
| 27.5° | 10046.5 | 10053.8 | 10000.4 | 9709.0 | 9463.7 | 9228.1 | 9186.8 | 9347.1 | 9393.3 | 9206.3 |
| 30° | 11705.2 | 11532.7 | 11430.7 | 11081.0 | 10731.3 | 10401.1 | 10231.1 | 10296.6 | 10308.8 | 10085.4 |
| 32.5° | 13135.5 | 13091.8 | 12873.2 | 12567.3 | 12118.0 | 11600.7 | 11316.6 | 11212.2 | 11192.7 | 10874.6 |
| 35° | 14765.0 | 14740.7 | 14510.0 | 14145.8 | 13660.1 | 12941.2 | 12428.8 | 12130.1 | 12105.8 | 11659.0 |
| 37.5° | 16421.2 | 16421.2 | 16195.4 | 15797.1 | 15294.4 | 14395.9 | 13616.3 | 13142.8 | 13065.1 | 12482.3 |
| 40° | 17742.3 | 17662.2 | 17703.4 | 17535.9 | 16960.3 | 16005.9 | 14935.0 | 14247.7 | 14143.3 | 13443.9 |
| 42.5° | 18492.7 | 18466.0 | 18713.7 | 18900.7 | 18665.1 | 17902.6 | 16387.2 | 15445.0 | 15299.3 | 14502.7 |
| 45° | 18660.2 | 18631.1 | 19073.1 | 19757.9 | 20088.2 | 19774.9 | 17965.7 | 16705.3 | 16528.1 | 15610.1 |
| 47.5° | 18274.1 | 18215.8 | 18864.2 | 19944.9 | 21003.7 | 21555.0 | 19675.3 | 18072.6 | 17815.1 | 16688.3 |
| 50° | 17113.3 | 17057.5 | 18038.6 | 19473.8 | 21312.1 | 22764.3 | 21530.7 | 19522.4 | 19128.9 | 17844.3 |
| 52.5° | 14590.2 | 14616.9 | 16154.1 | 18126.0 | 20906.6 | 23517.2 | 23128.6 | 21049.8 | 20576.3 | 19026.9 |
| 55° | 11365.2 | 11423.5 | 13312.8 | 15483.8 | 19284.4 | 23403.0 | 24219.0 | 22623.5 | 22152.4 | 20139.2 |
| 57.5° | 8137.8 | 8395.2 | 10165.5 | 12314.7 | 16168.7 | 21593.8 | 24457.0 | 24119.4 | 23662.9 | 21353.4 |
| 60° | 5274.6 | 5320.7 | 7142.1 | 9308.3 | 12312.3 | 18378.5 | 23973.7 | 25253.5 | 24896.5 | 22591.9 |
| 62.5° | 3380.4 | 3412.0 | 4521.8 | 6510.7 | 8861.4 | 13596.9 | 22346.6 | 25746.5 | 25637.2 | 23410.3 |
| 65° | 2484.3 | 2460.0 | 3038.0 | 4303.2 | 5969.1 | 8385.5 | 19187.2 | 25508.5 | 25724.6 | 23922.7 |
| 67.5° | 2073.9 | 2039.9 | 2324.0 | 2979.7 | 4397.9 | 4762.2 | 14196.7 | 23961.6 | 24753.2 | 23864.4 |
| 70° | 1889.3 | 1860.2 | 2032.6 | 2212.3 | 3431.4 | 3188.6 | 7156.7 | 20831.3 | 22050.4 | 23201.5 |
| 72.5° | 1600.4 | 1549.4 | 1784.9 | 1964.6 | 2668.9 | 2445.5 | 2957.9 | 16001.1 | 17487.3 | 21076.6 |
| 75° | 1240.9 | 1206.9 | 1408.5 | 1729.1 | 2005.9 | 1908.8 | 1869.9 | 9716.2 | 11338.5 | 16299.8 |
| 77.5° | 983.5 | 937.4 | 1121.9 | 1347.8 | 1804.3 | 1440.1 | 1362.4 | 4184.2 | 5791.9 | 10405.9 |
| 80° | 740.7 | 699.4 | 852.4 | 1066.1 | 1386.6 | 1085.5 | 881.5 | 1707.2 | 2183.2 | 5272.2 |
| 82.5° | 527.0 | 490.5 | 595.0 | 782.0 | 932.5 | 973.8 | 541.5 | 956.8 | 1075.8 | 2032.6 |
| 85° | 337.6 | 315.7 | 398.3 | 490.5 | 592.5 | 626.5 | 330.3 | 500.3 | 548.8 | 837.8 |
| 87.5° | 184.6 | 150.6 | 213.7 | 228.3 | 274.4 | 250.1 | 157.8 | 182.1 | 196.7 | 303.6 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 5158.0 | 0° | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 | 5158.0 |
| 5167.8 | 2.5° | 5177.5 | 5184.8 | 5209.0 | 5216.3 | 5233.3 | 5255.2 | 5269.7 | 5284.3 | 5284.3 | 5298.9 |
| 5245.5 | 5° | 5247.9 | 5264.9 | 5315.9 | 5342.6 | 5386.3 | 5430.0 | 5456.7 | 5488.3 | 5507.7 | 5517.4 |
| 5369.3 | 7.5° | 5383.9 | 5410.6 | 5483.5 | 5529.6 | 5604.9 | 5665.6 | 5706.9 | 5750.6 | 5760.3 | 5787.0 |
| 5541.7 | 10° | 5568.4 | 5600.0 | 5682.6 | 5770.0 | 5859.9 | 5935.1 | 5974.0 | 6005.6 | 6017.7 | 6022.6 |
| 5762.7 | 12.5° | 5779.7 | 5825.9 | 5932.7 | 6039.6 | 6134.3 | 6199.8 | 6209.6 | 6202.3 | 6168.3 | 6139.1 |
| 6034.7 | 15° | 6039.6 | 6080.9 | 6199.8 | 6316.4 | 6408.7 | 6420.8 | 6360.1 | 6321.3 | 6280.0 | 6272.7 |
| 6338.3 | 17.5° | 6350.4 | 6372.3 | 6481.5 | 6595.7 | 6603.0 | 6561.7 | 6471.8 | 6435.4 | 6396.6 | 6369.8 |
| 6734.1 | 20° | 6712.2 | 6705.0 | 6782.7 | 6831.2 | 6780.2 | 6654.0 | 6518.0 | 6457.3 | 6418.4 | 6386.8 |
| 7219.8 | 22.5° | 7144.5 | 7088.7 | 7078.9 | 7066.8 | 6930.8 | 6666.1 | 6481.5 | 6403.8 | 6343.1 | 6299.4 |
| 7897.3 | 25° | 7773.5 | 7559.8 | 7411.6 | 7329.1 | 7023.1 | 6600.5 | 6365.0 | 6192.6 | 6078.4 | 6003.1 |
| 8725.4 | 27.5° | 8560.3 | 8200.9 | 7826.9 | 7625.3 | 7023.1 | 6467.0 | 6083.3 | 5804.0 | 5617.0 | 5539.3 |
| 9526.8 | 30° | 9310.7 | 8934.3 | 8383.0 | 7982.3 | 7006.1 | 6248.4 | 5629.2 | 5240.6 | 5022.0 | 4944.3 |
| 10211.7 | 32.5° | 9951.8 | 9541.4 | 8973.1 | 8373.3 | 6964.8 | 5893.9 | 5065.8 | 4635.9 | 4424.6 | 4332.4 |
| 10889.2 | 35° | 10546.8 | 10109.7 | 9565.7 | 8803.1 | 6855.5 | 5374.2 | 4446.5 | 4118.7 | 3883.1 | 3735.0 |
| 11578.9 | 37.5° | 11156.3 | 10636.6 | 10126.7 | 9191.7 | 6658.8 | 4767.1 | 3970.5 | 3691.3 | 3414.4 | 3215.3 |
| 12312.3 | 40° | 11819.3 | 11197.6 | 10726.5 | 9422.4 | 6335.8 | 4189.1 | 3601.4 | 3346.4 | 3052.6 | 2841.3 |
| 13157.4 | 42.5° | 12594.0 | 11870.3 | 11394.3 | 9541.4 | 5893.9 | 3778.7 | 3361.0 | 3110.9 | 2834.0 | 2661.6 |
| 14063.2 | 45° | 13402.6 | 12611.0 | 12003.9 | 9539.0 | 5400.9 | 3586.8 | 3283.3 | 3035.6 | 2729.6 | 2549.9 |
| 14993.3 | 47.5° | 14250.2 | 13385.6 | 12530.8 | 9383.6 | 4973.5 | 3613.5 | 3239.6 | 2872.9 | 2535.3 | 2360.5 |
| 15933.1 | 50° | 15100.1 | 14233.2 | 13040.8 | 9092.1 | 4791.3 | 3555.3 | 3076.9 | 2644.6 | 2246.3 | 2088.5 |
| 16814.6 | 52.5° | 15942.8 | 15134.1 | 13480.4 | 8676.9 | 4606.8 | 3339.1 | 2868.0 | 2348.3 | 2127.3 | 2018.0 |
| 17725.3 | 55° | 16790.3 | 16025.4 | 13958.8 | 8072.2 | 4145.4 | 3086.6 | 2518.3 | 2236.6 | 2032.6 | 1933.1 |
| 18616.5 | 57.5° | 17640.3 | 17055.0 | 14412.9 | 7467.5 | 3565.0 | 2775.7 | 2326.5 | 2100.6 | 1937.9 | 1852.9 |
| 19362.1 | 60° | 18524.3 | 18232.8 | 14881.6 | 6911.4 | 2991.9 | 2377.5 | 2185.6 | 1991.3 | 1826.2 | 1731.5 |
| 20078.5 | 62.5° | 19434.9 | 19529.6 | 15248.3 | 6195.0 | 2464.9 | 2134.6 | 2059.3 | 1860.2 | 1699.9 | 1610.1 |
| 20671.0 | 65° | 20352.9 | 20780.3 | 15488.7 | 5201.8 | 1998.6 | 1903.9 | 1923.3 | 1716.9 | 1554.2 | 1476.5 |
| 21105.7 | 67.5° | 21045.0 | 21681.2 | 15420.7 | 3936.5 | 1639.2 | 1685.3 | 1753.3 | 1566.4 | 1413.4 | 1352.6 |
| 21035.3 | 70° | 21122.7 | 21574.4 | 14750.4 | 2695.6 | 1372.1 | 1471.6 | 1563.9 | 1418.2 | 1260.4 | 1216.7 |
| 20044.5 | 72.5° | 20088.2 | 20117.3 | 12883.0 | 1760.6 | 1160.8 | 1291.9 | 1364.8 | 1267.7 | 1114.7 | 1070.9 |
| 17535.9 | 75° | 17375.6 | 16637.3 | 9458.8 | 1160.8 | 971.4 | 1109.8 | 1177.8 | 1109.8 | 961.7 | 971.4 |
| 13120.9 | 77.5° | 13164.7 | 11782.9 | 5743.3 | 825.7 | 811.1 | 932.5 | 1024.8 | 976.2 | 850.0 | 954.4 |
| 6598.1 | 80° | 6782.7 | 6374.7 | 2562.0 | 616.8 | 641.1 | 745.5 | 842.7 | 779.5 | 672.7 | 641.1 |
| 1474.1 | 82.5° | 1554.2 | 1806.8 | 1010.2 | 442.0 | 463.8 | 536.7 | 643.5 | 585.3 | 483.3 | 408.0 |
| 614.4 | 85° | 544.0 | 595.0 | 446.8 | 276.8 | 272.0 | 335.1 | 437.1 | 391.0 | 327.8 | 262.3 |
| 259.8 | 87.5° | 172.4 | 225.8 | 167.6 | 111.7 | 116.6 | 150.6 | 201.6 | 184.6 | 153.0 | 99.6 |
| 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> |
|-------------|
| 5158.0 |
| 5298.9 |
| 5522.3 |
| 5777.3 |
| 6010.4 |
| 6139.1 |
| 6272.7 |
| 6372.3 |
| 6389.3 |
| 6314.0 |
| 6032.3 |
| 5578.2 |
| 4990.5 |
| 4378.5 |
| 3783.5 |
| 3268.7 |
| 2882.6 |
| 2695.6 |
| 2579.0 |
| 2384.7 |
| 2098.2 |
| 2018.0 |
| 1923.3 |
| 1838.3 |
| 1724.2 |
| 1607.6 |
| 1474.1 |
| 1355.1 |
| 1219.1 |
| 1068.5 |
| 937.4 |
| 840.2 |
| 585.3 |
| 403.1 |
| 276.8 |
| 104.4 |
| 0.0 |

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