

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: P951799

Luminaire Tested: **GALN-SB5D-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951799  
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-SB5D-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

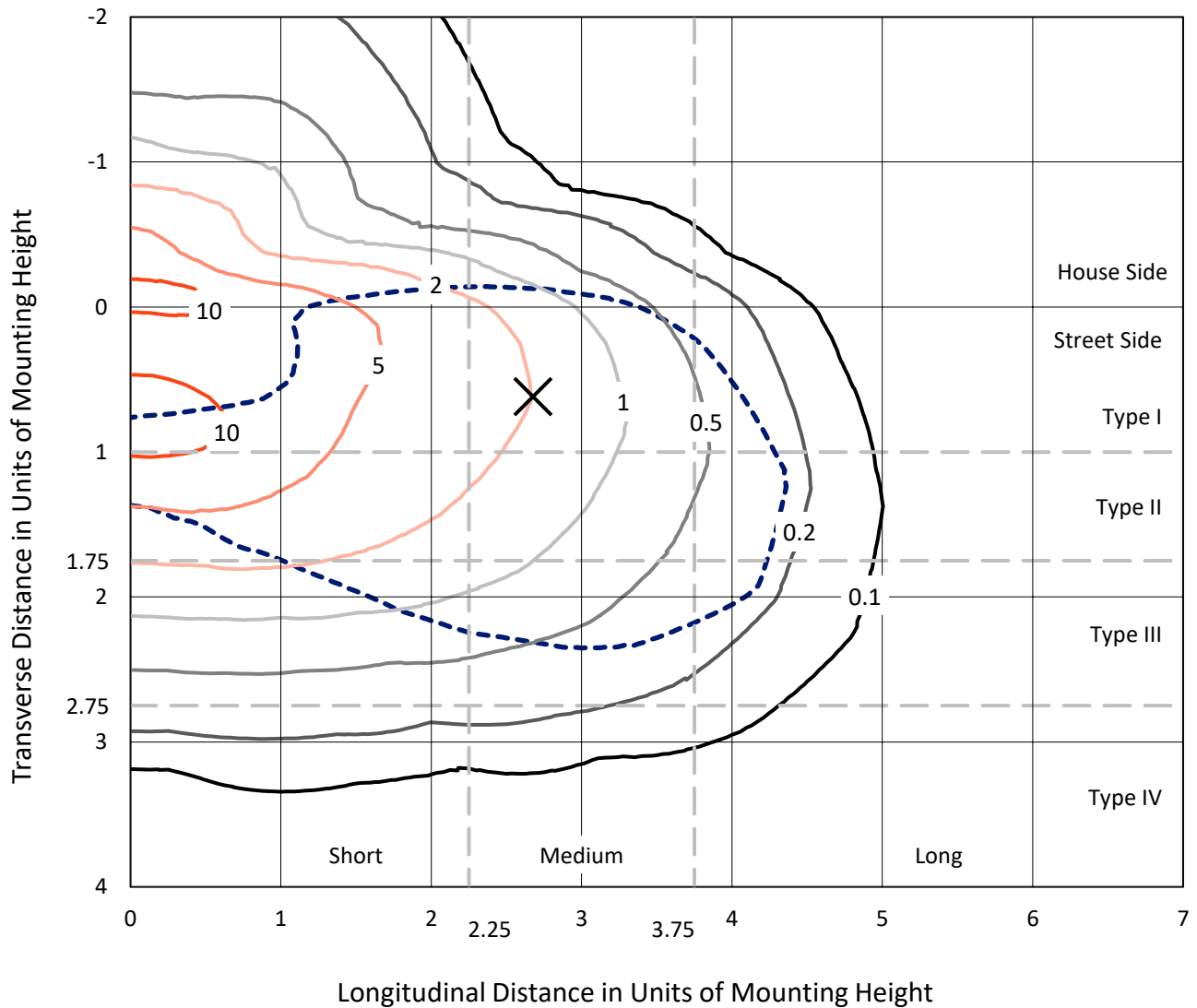
Lumens per Lamp: N/A  
Luminaire Lumens: 47417 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

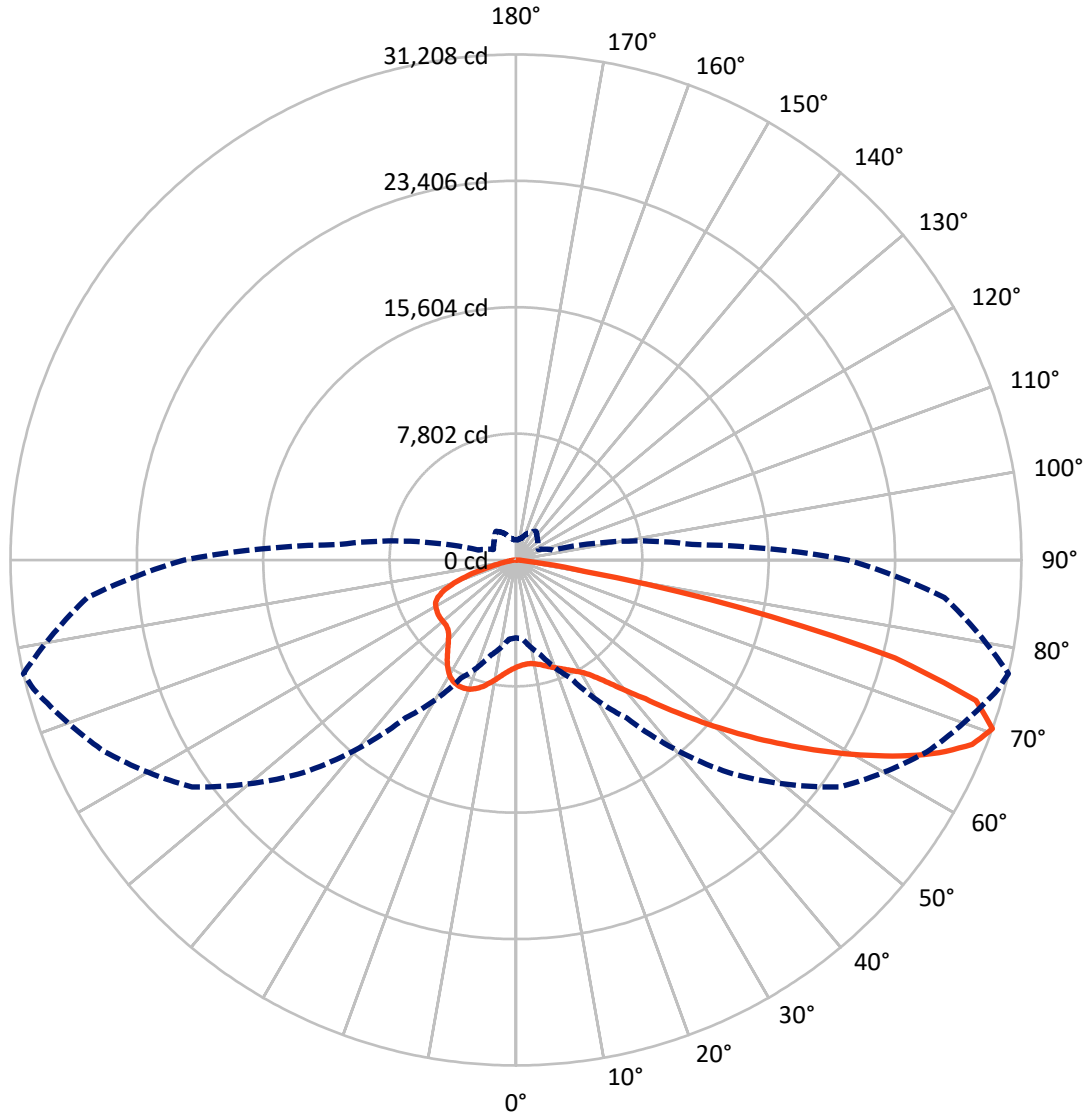
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10383.6  | 0.0    | 10383.6 |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 37033.4  | 0.0    | 37033.4 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 47417.0  | 0.0    | 47417.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 630.9   | 1.3       |
| 10°-20°   | 1820.9  | 3.8       |
| 20°-30°   | 3113.9  | 6.6       |
| 30°-40°   | 5007.5  | 10.6      |
| 40°-50°   | 7818.0  | 16.5      |
| 50°-60°   | 10443.0 | 22.0      |
| 60°-70°   | 11130.6 | 23.5      |
| 70°-80°   | 6851.9  | 14.5      |
| 80°-90°   | 600.4   | 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°    | 47417.0 | 100.0     |
| 0°-180°   | 47417.0 | 100.0     |



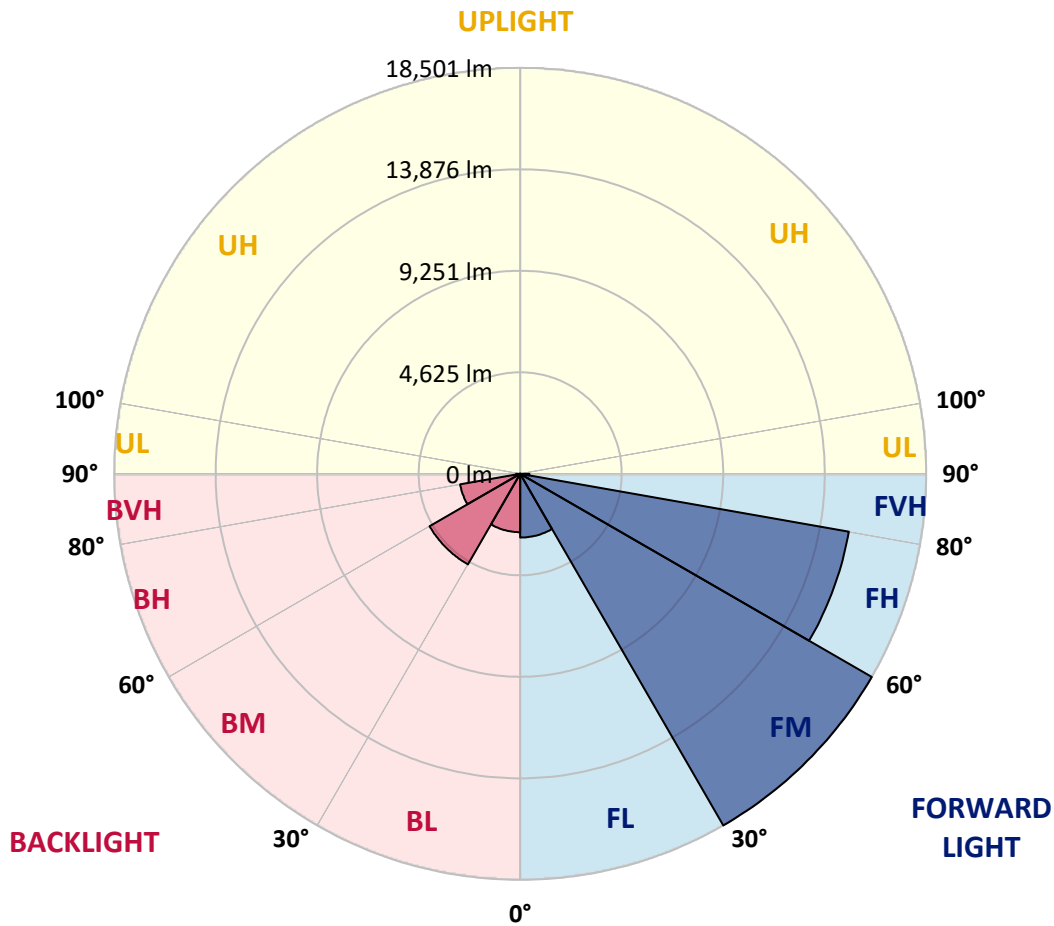
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2905.1  | 6.1       |                         |      |         |
| FM (30°-60°)   | 18501.1 | 39.0      |                         |      |         |
| FH (60°-80°)   | 15207.4 | 32.1      |                         |      | G5      |
| FVH (80°-90°)  | 419.8   | 0.9       |                         |      | G3/500  |
| BL (0°-30°)    | 2660.6  | 5.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 4767.3  | 10.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2775.1  | 5.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 180.6   | 0.4       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6615.1  | 6615.1  | 6615.1  | 6615.1  | 6615.1  | 6615.1  | 6615.1  | 6615.1  | 6615.1  | 6615.1  |
| 2.5°  | 6097.8  | 6095.4  | 6127.0  | 6136.7  | 6195.0  | 6236.3  | 6314.0  | 6396.5  | 6503.4  | 6515.5  |
| 5°    | 5745.7  | 5745.7  | 5782.1  | 5821.0  | 5896.3  | 5978.8  | 6097.8  | 6241.1  | 6425.7  | 6454.8  |
| 7.5°  | 5447.0  | 5466.4  | 5498.0  | 5573.3  | 5660.7  | 5779.7  | 5961.9  | 6165.8  | 6408.7  | 6454.8  |
| 10°   | 5206.6  | 5228.5  | 5267.3  | 5328.0  | 5459.2  | 5624.3  | 5862.3  | 6124.6  | 6450.0  | 6522.8  |
| 12.5° | 5131.3  | 5153.2  | 5175.0  | 5221.2  | 5342.6  | 5536.9  | 5821.0  | 6144.0  | 6549.5  | 6622.4  |
| 15°   | 5306.2  | 5332.9  | 5315.9  | 5303.7  | 5366.9  | 5544.2  | 5840.4  | 6214.4  | 6673.4  | 6777.8  |
| 17.5° | 5709.3  | 5719.0  | 5680.1  | 5566.0  | 5556.3  | 5651.0  | 5932.7  | 6311.5  | 6828.8  | 6942.9  |
| 20°   | 6360.1  | 6343.1  | 6263.0  | 6037.1  | 5908.4  | 5889.0  | 6090.6  | 6457.3  | 6989.1  | 7110.5  |
| 22.5° | 7244.1  | 7224.6  | 7064.4  | 6707.4  | 6420.8  | 6231.4  | 6318.8  | 6646.7  | 7168.8  | 7304.8  |
| 25°   | 8346.6  | 8319.9  | 8084.3  | 7598.6  | 7154.2  | 6685.5  | 6629.7  | 6896.8  | 7389.8  | 7516.1  |
| 27.5° | 9633.7  | 9611.8  | 9356.8  | 8715.7  | 8074.6  | 7307.2  | 7015.8  | 7190.6  | 7620.5  | 7763.8  |
| 30°   | 11017.9 | 11081.0 | 10629.3 | 9939.7  | 9128.6  | 8118.3  | 7535.5  | 7552.5  | 7919.2  | 8047.9  |
| 32.5° | 12645.0 | 12754.2 | 12210.3 | 11336.0 | 10228.6 | 8999.8  | 8191.2  | 8057.6  | 8353.9  | 8460.7  |
| 35°   | 14257.4 | 14381.3 | 13929.6 | 12963.1 | 11688.1 | 10039.2 | 8876.0  | 8638.0  | 8931.8  | 9048.4  |
| 37.5° | 15651.4 | 15816.5 | 15583.4 | 14743.1 | 13249.6 | 11292.3 | 9769.7  | 9320.4  | 9643.4  | 9789.1  |
| 40°   | 16751.5 | 17004.0 | 16987.0 | 16462.5 | 15090.4 | 12812.5 | 10903.8 | 10163.1 | 10527.3 | 10685.2 |
| 42.5° | 17645.1 | 17863.7 | 18053.1 | 18026.4 | 17011.3 | 14539.1 | 12237.0 | 11258.3 | 11535.1 | 11717.3 |
| 45°   | 18262.0 | 18495.1 | 18903.1 | 19342.6 | 18859.4 | 16387.2 | 13764.5 | 12557.5 | 12810.1 | 13084.5 |
| 47.5° | 18813.2 | 19077.9 | 19607.3 | 20304.3 | 20428.1 | 18242.5 | 15437.7 | 14070.5 | 14301.2 | 14585.3 |
| 50°   | 18861.8 | 19090.1 | 19910.9 | 20899.3 | 21542.8 | 20025.0 | 17234.7 | 15767.9 | 15984.1 | 16287.6 |
| 52.5° | 17688.8 | 18048.3 | 19481.0 | 20882.3 | 22055.2 | 21516.1 | 19019.6 | 17533.4 | 17776.3 | 18140.5 |
| 55°   | 13730.5 | 14257.4 | 18220.7 | 20231.4 | 21873.1 | 22480.2 | 20717.1 | 19410.6 | 19721.5 | 20102.7 |
| 57.5° | 11826.6 | 12057.3 | 14463.9 | 19046.4 | 21042.5 | 22730.3 | 22149.9 | 21307.2 | 21807.5 | 22225.2 |
| 60°   | 10629.3 | 10821.2 | 12244.3 | 17203.2 | 19949.7 | 22334.5 | 23257.3 | 23075.2 | 23939.7 | 24437.5 |
| 62.5° | 9347.1  | 9529.2  | 10823.6 | 14364.3 | 18550.9 | 21676.4 | 23956.7 | 24707.1 | 26125.3 | 26669.3 |
| 65°   | 8074.6  | 8230.0  | 9471.0  | 12069.4 | 16773.3 | 21018.3 | 24318.5 | 26118.0 | 28148.2 | 28711.6 |
| 67.5° | 6656.4  | 6785.1  | 7958.0  | 10182.5 | 14612.0 | 20117.3 | 24498.2 | 27227.8 | 29908.8 | 30392.1 |
| 70°   | 4803.5  | 4903.0  | 6114.8  | 8052.7  | 11899.4 | 18567.9 | 24425.4 | 28014.6 | 30821.9 | 31208.0 |
| 72.5° | 2270.6  | 2360.5  | 3783.5  | 5228.5  | 8404.9  | 15551.8 | 22951.3 | 27390.5 | 29894.2 | 29702.4 |
| 75°   | 1211.8  | 1289.5  | 2173.5  | 2868.0  | 4439.2  | 10660.9 | 18781.7 | 23594.8 | 25102.9 | 24170.4 |
| 77.5° | 820.8   | 881.5   | 1345.4  | 1721.8  | 2027.8  | 5060.9  | 12071.8 | 16336.2 | 15716.9 | 14177.3 |
| 80°   | 650.8   | 714.0   | 1102.5  | 1165.7  | 981.1   | 1828.6  | 4988.0  | 7562.2  | 5432.4  | 4344.5  |
| 82.5° | 500.3   | 570.7   | 927.7   | 845.1   | 534.3   | 750.4   | 1452.2  | 2392.0  | 1391.5  | 1058.8  |
| 85°   | 306.0   | 381.3   | 728.5   | 539.1   | 301.1   | 342.4   | 493.0   | 665.4   | 425.0   | 354.6   |
| 87.5° | 155.4   | 218.6   | 369.1   | 196.7   | 136.0   | 80.1    | 131.1   | 131.1   | 111.7   | 97.1    |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6615.1  | 0°    | 6615.1  | 6615.1  | 6615.1 | 6615.1 | 6615.1 | 6615.1 | 6615.1 | 6615.1 | 6615.1 | 6615.1 |
| 6581.1  | 2.5°  | 6639.4  | 6688.0  | 6770.5 | 6848.2 | 6908.9 | 6967.2 | 7025.5 | 7057.1 | 7066.8 | 7105.7 |
| 6617.5  | 5°    | 6717.1  | 6807.0  | 6967.2 | 7117.8 | 7212.5 | 7270.8 | 7312.1 | 7336.4 | 7341.2 | 7353.4 |
| 6717.1  | 7.5°  | 6860.4  | 7003.7  | 7227.1 | 7377.6 | 7448.1 | 7443.2 | 7426.2 | 7365.5 | 7341.2 | 7319.4 |
| 6862.8  | 10°   | 7061.9  | 7251.4  | 7525.8 | 7630.2 | 7586.5 | 7469.9 | 7319.4 | 7142.1 | 7059.5 | 6979.4 |
| 7061.9  | 12.5° | 7312.1  | 7552.5  | 7822.0 | 7817.2 | 7601.1 | 7302.4 | 6952.7 | 6680.7 | 6508.3 | 6384.4 |
| 7307.2  | 15°   | 7615.6  | 7892.5  | 8098.9 | 7933.8 | 7460.2 | 6923.5 | 6411.1 | 6056.6 | 5901.1 | 5765.1 |
| 7554.9  | 17.5° | 7928.9  | 8225.2  | 8319.9 | 7897.3 | 7105.7 | 6362.5 | 5782.1 | 5502.9 | 5349.9 | 5277.0 |
| 7822.0  | 20°   | 8234.9  | 8528.7  | 8451.0 | 7688.5 | 6566.5 | 5726.3 | 5209.0 | 5056.0 | 5024.5 | 5041.5 |
| 8081.9  | 22.5° | 8557.9  | 8820.1  | 8477.7 | 7285.4 | 5879.3 | 5075.5 | 4791.3 | 4796.2 | 4866.6 | 4917.6 |
| 8353.9  | 25°   | 8888.1  | 9065.4  | 8407.3 | 6702.5 | 5141.0 | 4597.1 | 4526.6 | 4604.3 | 4742.8 | 4842.3 |
| 8659.9  | 27.5° | 9206.3  | 9284.0  | 8254.3 | 5981.3 | 4507.2 | 4254.6 | 4266.8 | 4427.1 | 4635.9 | 4774.3 |
| 9031.4  | 30°   | 9565.7  | 9478.2  | 7960.5 | 5170.2 | 4067.7 | 3960.8 | 4062.8 | 4249.8 | 4458.6 | 4582.5 |
| 9500.1  | 32.5° | 9971.2  | 9645.8  | 7494.2 | 4419.8 | 3756.8 | 3725.2 | 3892.8 | 4014.2 | 4106.5 | 4142.9 |
| 10121.8 | 35°   | 10476.3 | 9881.4  | 6896.8 | 3892.8 | 3477.5 | 3552.8 | 3713.1 | 3652.4 | 3616.0 | 3596.5 |
| 10957.2 | 37.5° | 11132.0 | 10199.5 | 6197.4 | 3550.4 | 3251.7 | 3429.0 | 3494.5 | 3305.1 | 3161.8 | 3091.4 |
| 11969.8 | 40°   | 11921.3 | 10665.8 | 5524.7 | 3285.7 | 3108.4 | 3322.1 | 3208.0 | 2979.7 | 2797.6 | 2698.0 |
| 13108.8 | 42.5° | 12797.9 | 11153.9 | 4958.9 | 3086.6 | 3028.3 | 3234.7 | 2996.7 | 2724.7 | 2430.9 | 2399.3 |
| 14466.3 | 45°   | 13718.3 | 11656.6 | 4572.8 | 2933.6 | 2989.4 | 3159.4 | 2875.3 | 2435.7 | 2226.9 | 2355.6 |
| 15828.7 | 47.5° | 14638.7 | 12118.0 | 4339.6 | 2819.4 | 2970.0 | 3074.4 | 2768.4 | 2275.5 | 2127.3 | 2314.3 |
| 17288.2 | 50°   | 15663.5 | 12530.8 | 4235.2 | 2736.9 | 2948.1 | 3040.4 | 2608.2 | 2234.2 | 2022.9 | 2146.8 |
| 18798.6 | 52.5° | 16681.0 | 12851.4 | 4157.5 | 2654.3 | 2916.6 | 3013.7 | 2530.4 | 2185.6 | 1896.6 | 1903.9 |
| 20318.9 | 55°   | 17696.1 | 13060.2 | 4072.5 | 2545.0 | 2846.1 | 2955.4 | 2523.2 | 2132.2 | 1801.9 | 1767.9 |
| 21926.5 | 57.5° | 18779.2 | 13179.2 | 3968.1 | 2423.6 | 2724.7 | 2807.3 | 2515.9 | 2090.9 | 1772.8 | 1716.9 |
| 23570.6 | 60°   | 19881.7 | 13354.1 | 3832.1 | 2275.5 | 2562.0 | 2630.0 | 2498.9 | 2076.3 | 1755.8 | 1661.1 |
| 25119.9 | 62.5° | 20870.1 | 13414.8 | 3669.4 | 2134.6 | 2353.2 | 2455.2 | 2462.5 | 2064.2 | 1709.6 | 1546.9 |
| 26407.0 | 65°   | 21518.5 | 13152.5 | 3385.3 | 1974.3 | 2127.3 | 2275.5 | 2392.0 | 2022.9 | 1627.1 | 1464.4 |
| 27043.2 | 67.5° | 21491.8 | 12404.5 | 2940.9 | 1767.9 | 1908.8 | 2076.3 | 2290.0 | 1952.5 | 1527.5 | 1362.4 |
| 26562.4 | 70°   | 20491.3 | 10928.0 | 2377.5 | 1527.5 | 1668.3 | 1862.6 | 2158.9 | 1848.1 | 1408.5 | 1250.7 |
| 23619.1 | 72.5° | 17574.7 | 8553.0  | 1726.6 | 1245.8 | 1389.1 | 1641.6 | 1988.9 | 1721.8 | 1287.1 | 1151.1 |
| 17455.7 | 75°   | 12555.1 | 5413.0  | 1170.5 | 956.8  | 1080.7 | 1391.5 | 1777.6 | 1573.6 | 1175.4 | 1155.9 |
| 8742.4  | 77.5° | 6413.5  | 2586.3  | 774.7  | 699.4  | 752.8  | 1097.7 | 1493.5 | 1406.1 | 1192.4 | 954.4  |
| 2486.7  | 80°   | 2086.0  | 954.4   | 488.1  | 476.0  | 500.3  | 731.0  | 1155.9 | 1153.5 | 903.4  | 648.4  |
| 602.3   | 82.5° | 665.4   | 410.4   | 318.1  | 306.0  | 293.8  | 459.0  | 806.2  | 913.1  | 609.5  | 410.4  |
| 216.1   | 85°   | 264.7   | 245.3   | 187.0  | 172.4  | 123.9  | 216.1  | 422.6  | 607.1  | 454.1  | 296.3  |
| 55.9    | 87.5° | 97.1    | 97.1    | 51.0   | 36.4   | 26.7   | 72.9   | 114.1  | 182.1  | 259.8  | 153.0  |
| 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> |
|-------------|
| 6615.1      |
| 7127.5      |
| 7372.8      |
| 7324.2      |
| 6955.1      |
| 6355.3      |
| 5750.6      |
| 5298.9      |
| 5034.2      |
| 4929.8      |
| 4869.0      |
| 4808.3      |
| 4611.6      |
| 4162.4      |
| 3616.0      |
| 3108.4      |
| 2705.3      |
| 2430.9      |
| 2423.6      |
| 2401.7      |
| 2239.0      |
| 1954.9      |
| 1792.2      |
| 1724.2      |
| 1668.3      |
| 1546.9      |
| 1464.4      |
| 1369.6      |
| 1265.2      |
| 1143.8      |
| 1090.4      |
| 850.0       |
| 573.1       |
| 408.0       |
| 303.6       |
| 150.6       |
| 0.0         |

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