

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: P944076

Luminaire Tested: **GALN-SB8D-835-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

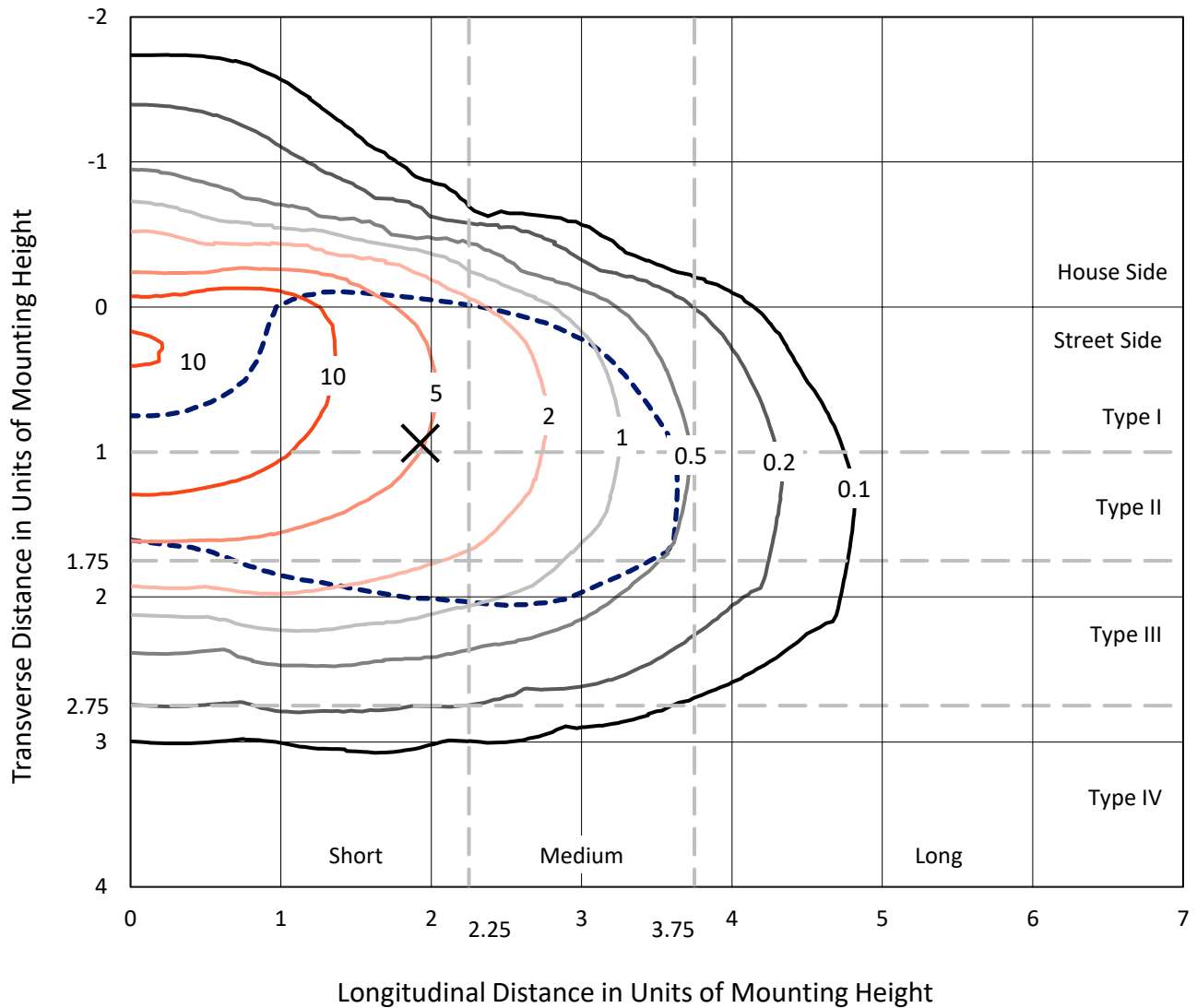
Lumens per Lamp: N/A  
Luminaire Lumens: 59858 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

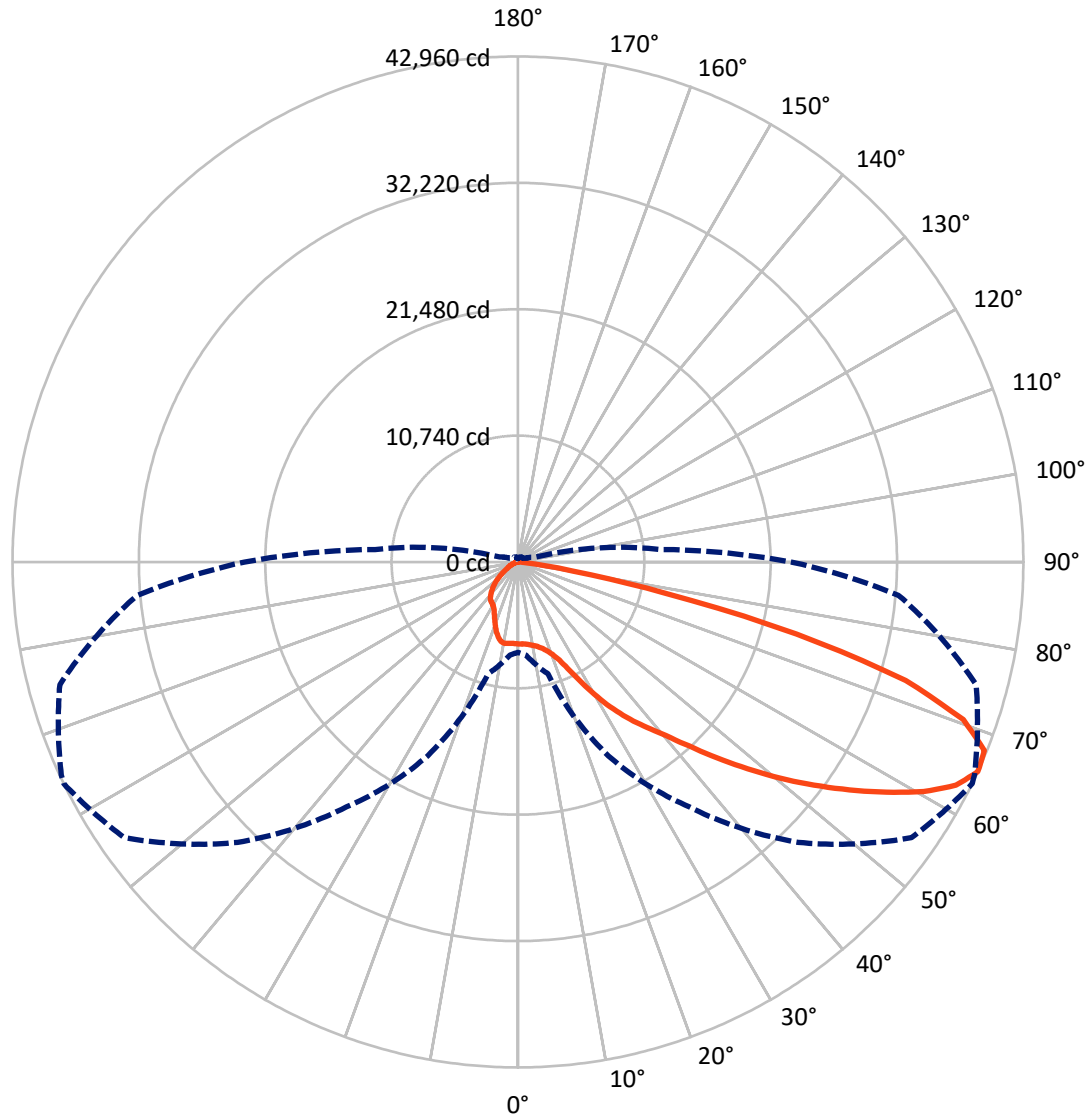
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8004.8   | 0.0    | 8004.8  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 51853.2  | 0.0    | 51853.2 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 59858.0  | 0.0    | 59858.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 642.3   | 1.1       |
| 10°-20°   | 1742.2  | 2.9       |
| 20°-30°   | 3301.2  | 5.5       |
| 30°-40°   | 6680.2  | 11.2      |
| 40°-50°   | 11379.8 | 19.0      |
| 50°-60°   | 15475.6 | 25.9      |
| 60°-70°   | 14532.4 | 24.3      |
| 70°-80°   | 5822.3  | 9.7       |
| 80°-90°   | 282.1   | 0.5       |
| 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°    | 59858.0 | 100.0     |
| 0°-180°   | 59858.0 | 100.0     |

**Coefficient of Utilization**



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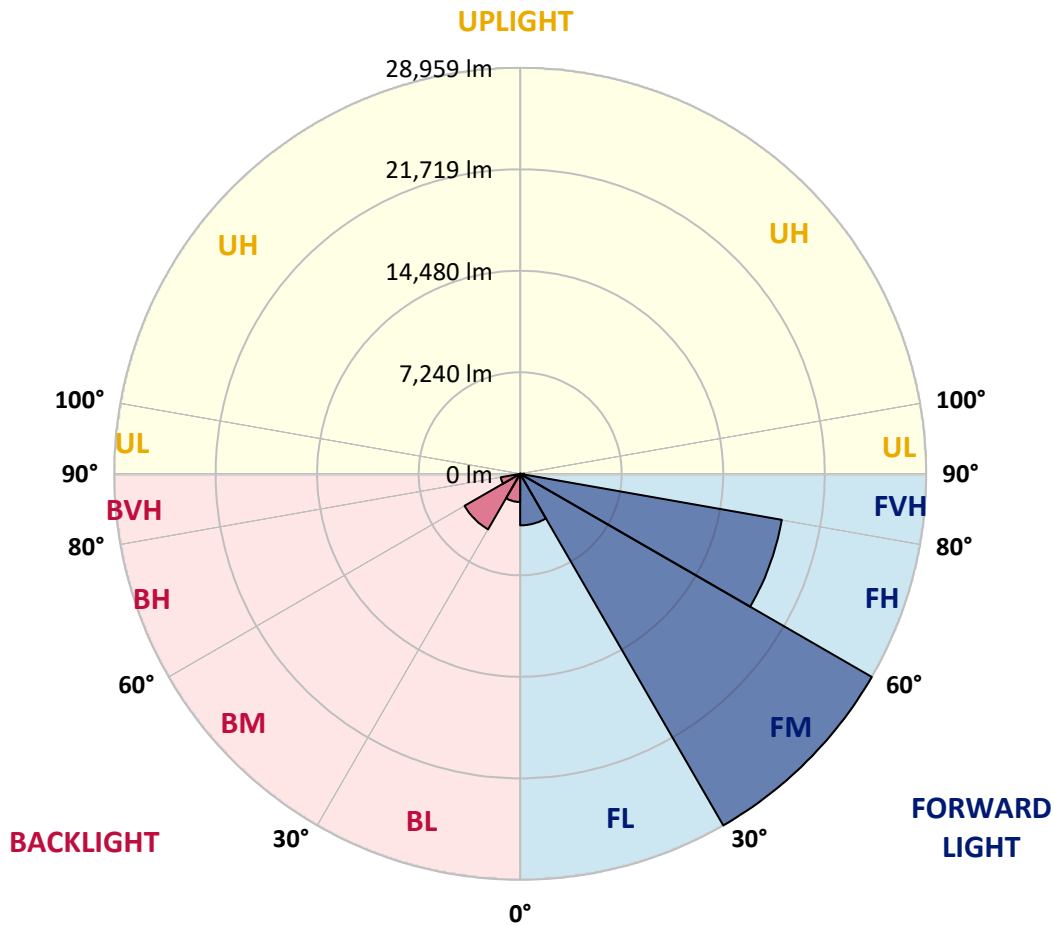
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3676.0  | 6.1       |                         |      |         |
| FM (30°-60°)   | 28959.2 | 48.4      |                         |      |         |
| FH (60°-80°)   | 18949.7 | 31.7      |                         |      | G5      |
| FVH (80°-90°)  | 268.3   | 0.4       |                         |      | G3/500  |
| BL (0°-30°)    | 2009.8  | 3.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 4576.3  | 7.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 1405.0  | 2.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 13.8    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6962.1  | 6962.1  | 6962.1  | 6962.1  | 6962.1  | 6962.1  | 6962.1  | 6962.1  | 6962.1  | 6962.1  |
| 2.5°  | 6938.0  | 6986.2  | 6974.1  | 6962.1  | 6958.1  | 6966.1  | 6970.1  | 6966.1  | 6966.1  | 6966.1  |
| 5°    | 6805.6  | 6845.7  | 6845.7  | 6873.8  | 6914.0  | 6962.1  | 6998.2  | 7006.2  | 7014.3  | 7026.3  |
| 7.5°  | 6552.8  | 6584.9  | 6609.0  | 6701.3  | 6801.6  | 6930.0  | 7038.3  | 7094.5  | 7102.6  | 7146.7  |
| 10°   | 6380.3  | 6420.4  | 6460.5  | 6556.8  | 6701.3  | 6893.9  | 7078.5  | 7214.9  | 7235.0  | 7339.3  |
| 12.5° | 6372.2  | 6412.4  | 6464.5  | 6568.9  | 6737.4  | 6942.0  | 7166.8  | 7363.4  | 7399.5  | 7552.0  |
| 15°   | 6456.5  | 6504.7  | 6552.8  | 6681.2  | 6861.8  | 7110.6  | 7351.3  | 7596.1  | 7632.2  | 7848.9  |
| 17.5° | 6629.0  | 6693.3  | 6729.4  | 6857.8  | 7050.4  | 7327.3  | 7644.3  | 7925.2  | 7957.3  | 8210.1  |
| 20°   | 6970.1  | 7046.4  | 7058.4  | 7162.7  | 7351.3  | 7648.3  | 8025.5  | 8374.6  | 8414.7  | 8703.6  |
| 22.5° | 7676.4  | 7784.7  | 7688.4  | 7740.6  | 7909.1  | 8206.1  | 8615.4  | 9056.8  | 9112.9  | 9442.0  |
| 25°   | 8920.3  | 9072.8  | 8824.0  | 8735.7  | 8808.0  | 9116.9  | 9630.6  | 10188.4 | 10252.6 | 10517.4 |
| 27.5° | 11364.1 | 11167.5 | 10790.3 | 10421.1 | 10204.4 | 10381.0 | 10958.8 | 11649.0 | 11729.2 | 11986.1 |
| 30°   | 14048.6 | 13876.1 | 13366.4 | 12547.8 | 12034.2 | 12006.1 | 12539.8 | 13310.3 | 13402.6 | 13647.3 |
| 32.5° | 16737.1 | 16572.6 | 16018.9 | 15011.7 | 14120.8 | 13679.4 | 14048.6 | 14903.3 | 14951.5 | 15108.0 |
| 35°   | 19381.5 | 19213.0 | 18659.2 | 17628.0 | 16532.5 | 15529.3 | 15457.1 | 16420.1 | 16436.2 | 16600.7 |
| 37.5° | 22042.0 | 21901.5 | 21311.7 | 20300.5 | 19221.0 | 17836.6 | 17166.5 | 17856.7 | 17876.8 | 18037.3 |
| 40°   | 23940.0 | 24000.2 | 23594.9 | 22812.4 | 21885.5 | 20372.7 | 19084.6 | 19385.6 | 19265.2 | 19534.0 |
| 42.5° | 25569.2 | 25689.6 | 25336.5 | 24943.2 | 24405.5 | 23073.3 | 21460.1 | 21408.0 | 21215.4 | 21359.8 |
| 45°   | 26977.7 | 27078.0 | 26761.0 | 26668.7 | 26656.6 | 25721.7 | 24056.4 | 23743.4 | 23474.5 | 23446.5 |
| 47.5° | 27495.3 | 27687.9 | 27824.4 | 28133.3 | 28735.2 | 28342.0 | 26740.9 | 26255.4 | 25954.4 | 25733.7 |
| 50°   | 27691.9 | 27896.6 | 28362.1 | 29260.9 | 30685.4 | 30854.0 | 29413.4 | 28867.7 | 28498.5 | 28097.2 |
| 52.5° | 27427.1 | 27792.2 | 28418.2 | 29931.0 | 31997.6 | 32868.4 | 31977.5 | 31500.0 | 31078.7 | 30424.6 |
| 55°   | 25866.1 | 26231.3 | 27511.4 | 29923.0 | 32651.7 | 34280.9 | 34401.2 | 34188.6 | 33715.1 | 32683.8 |
| 57.5° | 22575.7 | 23117.4 | 25143.8 | 28903.8 | 32639.6 | 35496.7 | 36776.8 | 36929.3 | 36399.6 | 34922.9 |
| 60°   | 18017.2 | 18751.5 | 21223.4 | 26644.6 | 31632.4 | 36154.8 | 38859.4 | 39621.8 | 39060.0 | 37129.9 |
| 62.5° | 12571.9 | 13422.6 | 15762.0 | 23105.4 | 29329.1 | 35681.3 | 40380.2 | 41788.7 | 41363.3 | 39104.2 |
| 65°   | 7668.3  | 7941.2  | 9827.2  | 18181.7 | 25412.7 | 33699.0 | 40849.7 | 42960.4 | 42820.0 | 40312.0 |
| 67.5° | 5108.2  | 5336.9  | 5878.7  | 12467.6 | 19726.6 | 29738.4 | 39726.1 | 42755.8 | 42795.9 | 40115.4 |
| 70°   | 3077.8  | 3274.4  | 3627.5  | 7251.0  | 12784.6 | 23538.7 | 36247.1 | 40147.5 | 40380.2 | 37487.0 |
| 72.5° | 1268.0  | 1400.4  | 1721.5  | 3286.4  | 6621.0  | 14939.4 | 28863.7 | 34469.5 | 35011.2 | 31520.1 |
| 75°   | 718.3   | 786.5   | 1011.2  | 1649.2  | 2873.1  | 6962.1  | 17483.5 | 24469.7 | 25268.2 | 21725.0 |
| 77.5° | 477.5   | 509.6   | 654.1   | 1067.4  | 1617.1  | 2375.5  | 7471.7  | 12748.5 | 14273.3 | 11865.7 |
| 80°   | 321.0   | 349.1   | 449.4   | 714.3   | 1051.3  | 1019.2  | 2379.6  | 4723.0  | 5810.5  | 4076.9  |
| 82.5° | 216.7   | 220.7   | 321.0   | 469.5   | 666.1   | 493.6   | 702.2   | 1468.7  | 1845.9  | 1179.7  |
| 85°   | 124.4   | 120.4   | 236.8   | 272.9   | 296.9   | 204.6   | 212.7   | 441.4   | 577.8   | 497.6   |
| 87.5° | 16.1    | 24.1    | 92.3    | 72.2    | 40.1    | 44.1    | 44.1    | 76.2    | 112.4   | 120.4   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6962.1  | 0°    | 6962.1  | 6962.1  | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 | 6962.1 |
| 6970.1  | 2.5°  | 6970.1  | 6966.1  | 6954.1 | 6942.0 | 6914.0 | 6897.9 | 6905.9 | 6897.9 | 6893.9 | 6897.9 |
| 7022.3  | 5°    | 7022.3  | 7010.3  | 6978.2 | 6938.0 | 6881.9 | 6813.6 | 6769.5 | 6705.3 | 6645.1 | 6609.0 |
| 7162.7  | 7.5°  | 7162.7  | 7150.7  | 7106.6 | 6994.2 | 6813.6 | 6528.7 | 6267.9 | 6039.2 | 5866.6 | 5766.3 |
| 7387.5  | 10°   | 7387.5  | 7367.4  | 7299.2 | 7050.4 | 6576.9 | 5954.9 | 5437.3 | 5007.9 | 4727.0 | 4594.6 |
| 7652.3  | 12.5° | 7652.3  | 7628.2  | 7507.8 | 6998.2 | 6127.5 | 5156.4 | 4442.1 | 3964.6 | 3703.8 | 3587.4 |
| 7957.3  | 15°   | 7965.3  | 7933.2  | 7696.4 | 6749.4 | 5473.4 | 4273.6 | 3619.5 | 3262.4 | 3093.8 | 2989.5 |
| 8346.5  | 17.5° | 8354.5  | 8298.3  | 7836.9 | 6376.2 | 4763.1 | 3599.4 | 3113.9 | 2845.0 | 2696.6 | 2596.2 |
| 8856.1  | 20°   | 8860.1  | 8767.8  | 7949.2 | 5930.8 | 4109.0 | 3174.1 | 2772.8 | 2548.1 | 2435.7 | 2347.5 |
| 9578.4  | 22.5° | 9566.4  | 9434.0  | 8085.7 | 5449.3 | 3647.6 | 2881.1 | 2520.0 | 2355.5 | 2263.2 | 2162.9 |
| 10585.6 | 25°   | 10441.2 | 10284.7 | 8254.2 | 5003.9 | 3330.6 | 2628.3 | 2335.4 | 2199.0 | 2090.6 | 1974.3 |
| 11905.8 | 27.5° | 11665.0 | 11384.1 | 8454.8 | 4638.7 | 3057.7 | 2411.7 | 2166.9 | 2014.4 | 1890.0 | 1793.7 |
| 13402.6 | 30°   | 13029.4 | 12567.9 | 8631.4 | 4418.0 | 2808.9 | 2211.0 | 1946.2 | 1793.7 | 1677.3 | 1609.1 |
| 14746.8 | 32.5° | 14321.5 | 13695.5 | 8747.8 | 4321.7 | 2584.2 | 1982.3 | 1705.4 | 1540.9 | 1452.6 | 1432.5 |
| 16063.0 | 35°   | 15541.3 | 14714.7 | 8735.7 | 4229.4 | 2383.6 | 1753.6 | 1468.7 | 1300.1 | 1231.9 | 1243.9 |
| 17479.5 | 37.5° | 16945.8 | 15802.2 | 8651.5 | 4085.0 | 2219.0 | 1544.9 | 1264.0 | 1115.5 | 1055.4 | 1059.4 |
| 19201.0 | 40°   | 18579.0 | 17058.2 | 8599.3 | 3812.1 | 2038.5 | 1352.3 | 1095.5 | 975.1  | 931.0  | 914.9  |
| 21014.7 | 42.5° | 20320.5 | 18274.0 | 8607.3 | 3503.1 | 1813.8 | 1179.7 | 979.1  | 878.8  | 838.7  | 826.6  |
| 23033.1 | 45°   | 22070.1 | 19433.7 | 8619.4 | 3182.1 | 1577.0 | 1047.3 | 894.8  | 810.6  | 786.5  | 770.4  |
| 25079.6 | 47.5° | 23715.3 | 20420.8 | 8394.7 | 2837.0 | 1344.3 | 947.0  | 826.6  | 770.4  | 750.4  | 730.3  |
| 27134.2 | 50°   | 25248.2 | 21078.9 | 7852.9 | 2435.7 | 1159.7 | 866.8  | 774.5  | 734.3  | 714.3  | 694.2  |
| 28996.1 | 52.5° | 26440.0 | 21183.3 | 6958.1 | 2022.4 | 1031.3 | 806.6  | 742.4  | 706.2  | 682.2  | 662.1  |
| 30500.9 | 55°   | 26969.6 | 20529.2 | 5686.1 | 1637.2 | 931.0  | 754.4  | 710.3  | 674.1  | 646.1  | 626.0  |
| 31684.6 | 57.5° | 26833.2 | 19152.8 | 4434.1 | 1316.2 | 834.7  | 702.2  | 670.1  | 646.1  | 613.9  | 581.8  |
| 32643.7 | 60°   | 26163.1 | 17311.0 | 3342.6 | 1095.5 | 746.4  | 646.1  | 626.0  | 605.9  | 561.8  | 513.6  |
| 33012.8 | 62.5° | 25003.4 | 14995.6 | 2383.6 | 906.9  | 650.1  | 581.8  | 573.8  | 557.8  | 493.6  | 405.3  |
| 32467.1 | 65°   | 23229.8 | 12182.7 | 1605.1 | 754.4  | 557.8  | 509.6  | 513.6  | 485.5  | 401.3  | 301.0  |
| 30468.7 | 67.5° | 20637.5 | 8908.3  | 1027.3 | 618.0  | 465.5  | 425.4  | 429.4  | 413.3  | 341.1  | 256.8  |
| 26680.7 | 70°   | 17335.0 | 5898.7  | 670.1  | 469.5  | 373.2  | 329.0  | 353.1  | 357.1  | 288.9  | 208.7  |
| 20477.0 | 72.5° | 12708.4 | 3483.1  | 469.5  | 349.1  | 272.9  | 228.7  | 288.9  | 296.9  | 232.7  | 156.5  |
| 12319.1 | 75°   | 7243.0  | 1653.2  | 353.1  | 252.8  | 168.5  | 160.5  | 224.7  | 224.7  | 160.5  | 104.3  |
| 5332.9  | 77.5° | 3041.7  | 690.2   | 248.8  | 164.5  | 96.3   | 92.3   | 152.5  | 140.4  | 80.3   | 48.2   |
| 1300.1  | 80°   | 878.8   | 309.0   | 132.4  | 80.3   | 40.1   | 36.1   | 60.2   | 44.1   | 20.1   | 8.0    |
| 493.6   | 82.5° | 345.1   | 136.4   | 52.2   | 32.1   | 16.1   | 16.1   | 8.0    | 0.0    | 0.0    | 0.0    |
| 280.9   | 85°   | 204.6   | 56.2    | 24.1   | 12.0   | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60.2    | 87.5° | 52.2    | 12.0    | 8.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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> |
|-------------|
| 6962.1      |
| 6914.0      |
| 6617.0      |
| 5770.3      |
| 4582.6      |
| 3575.4      |
| 2993.5      |
| 2588.2      |
| 2331.4      |
| 2146.8      |
| 1962.2      |
| 1773.6      |
| 1597.1      |
| 1444.6      |
| 1243.9      |
| 1075.4      |
| 910.9       |
| 822.6       |
| 770.4       |
| 730.3       |
| 694.2       |
| 658.1       |
| 622.0       |
| 577.8       |
| 505.6       |
| 397.3       |
| 292.9       |
| 244.8       |
| 200.6       |
| 148.5       |
| 96.3        |
| 48.2        |
| 8.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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