

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: P954664

Luminaire Tested: **GALN-SB7D-835-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7D-835-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

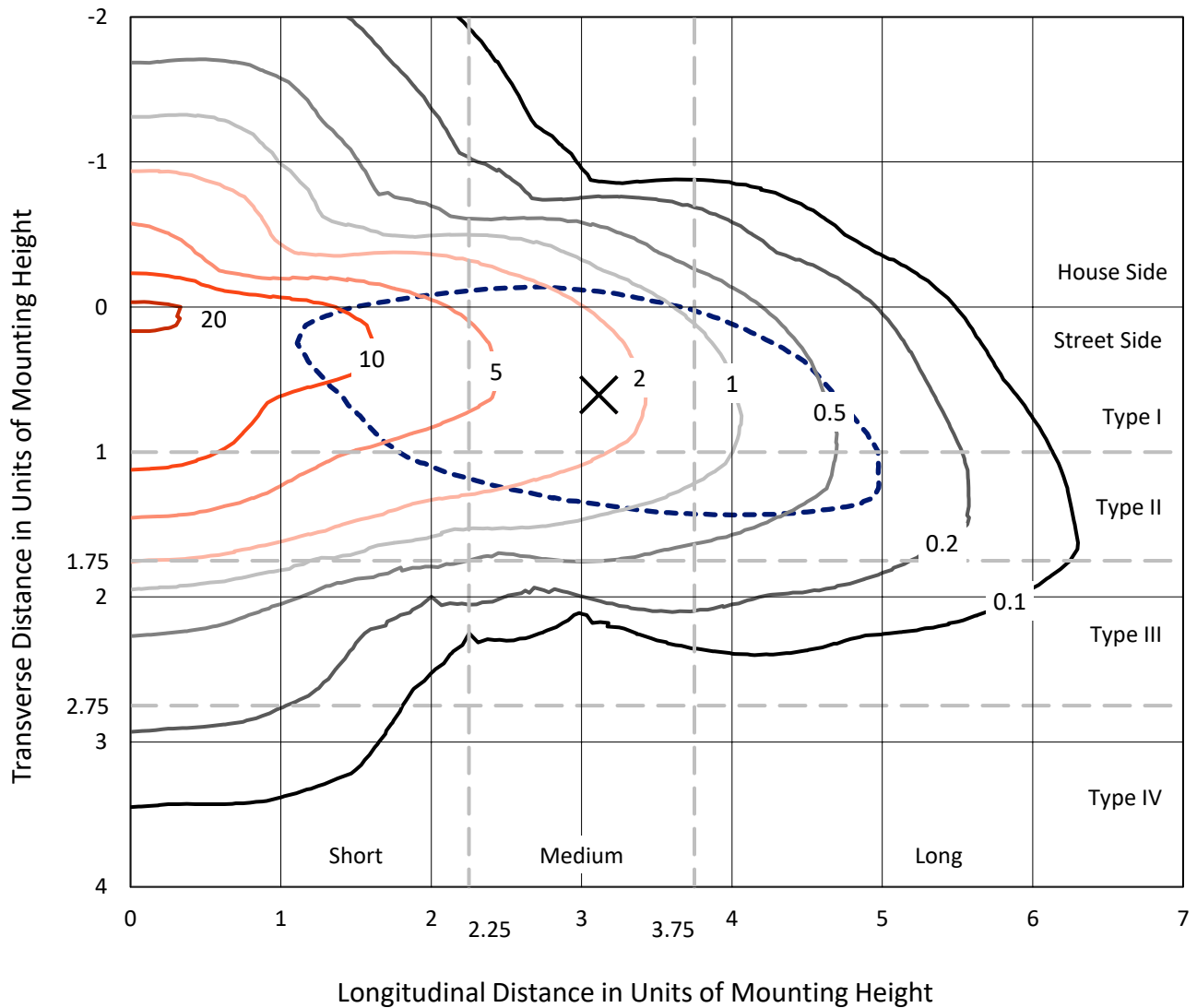
Lumens per Lamp: N/A  
Luminaire Lumens: 66718 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

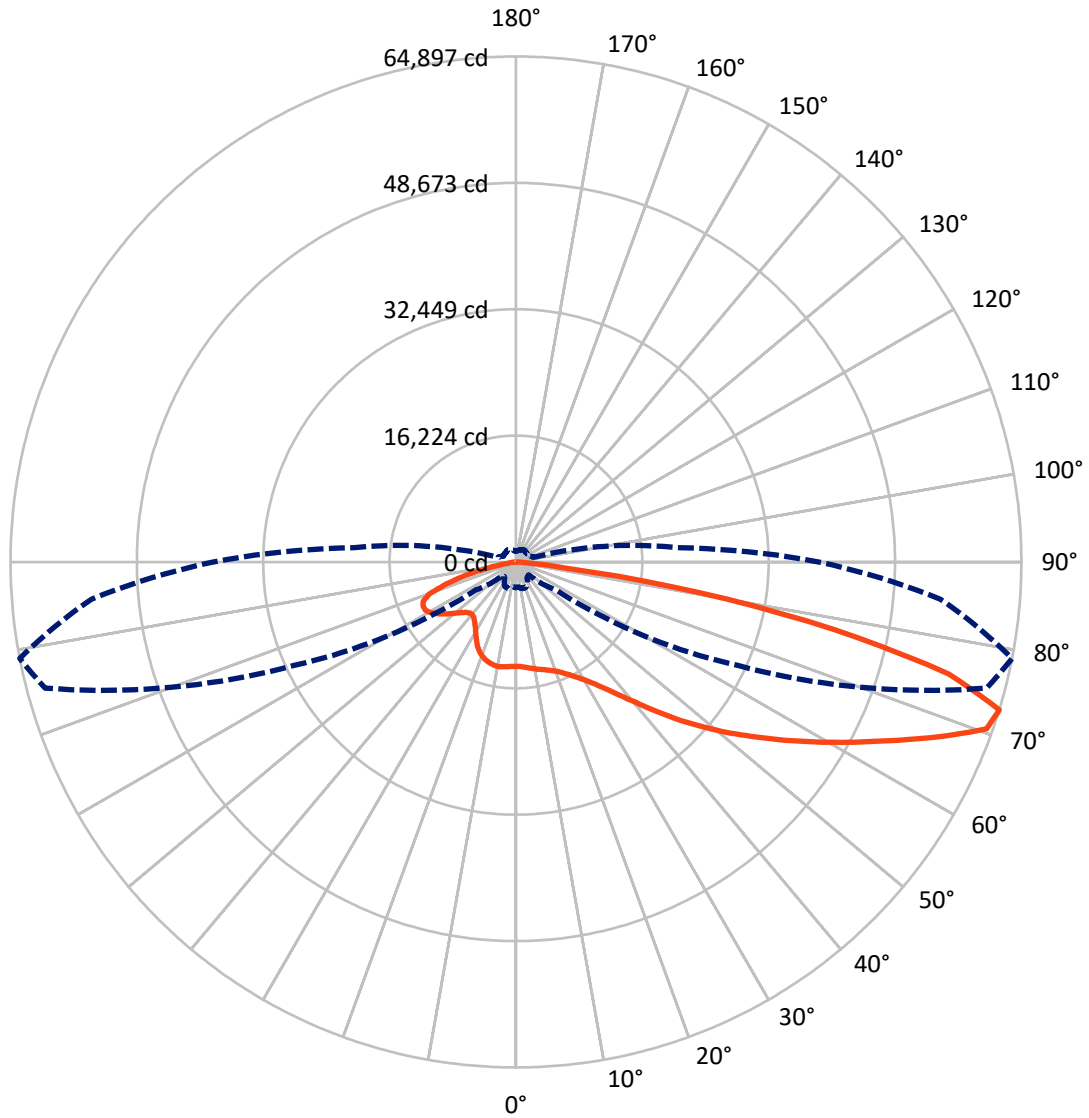
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14681.6  | 0.0    | 14681.6 |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 52036.4  | 0.0    | 52036.4 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 66718.0  | 0.0    | 66718.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1215.7  | 1.8       |
| 10°-20°   | 3178.5  | 4.8       |
| 20°-30°   | 5128.7  | 7.7       |
| 30°-40°   | 7697.5  | 11.5      |
| 40°-50°   | 10919.3 | 16.4      |
| 50°-60°   | 13789.6 | 20.7      |
| 60°-70°   | 14005.2 | 21.0      |
| 70°-80°   | 9545.2  | 14.3      |
| 80°-90°   | 1238.4  | 1.9       |
| 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°    | 66718.0 | 100.0     |
| 0°-180°   | 66718.0 | 100.0     |

**Coefficient of Utilization**



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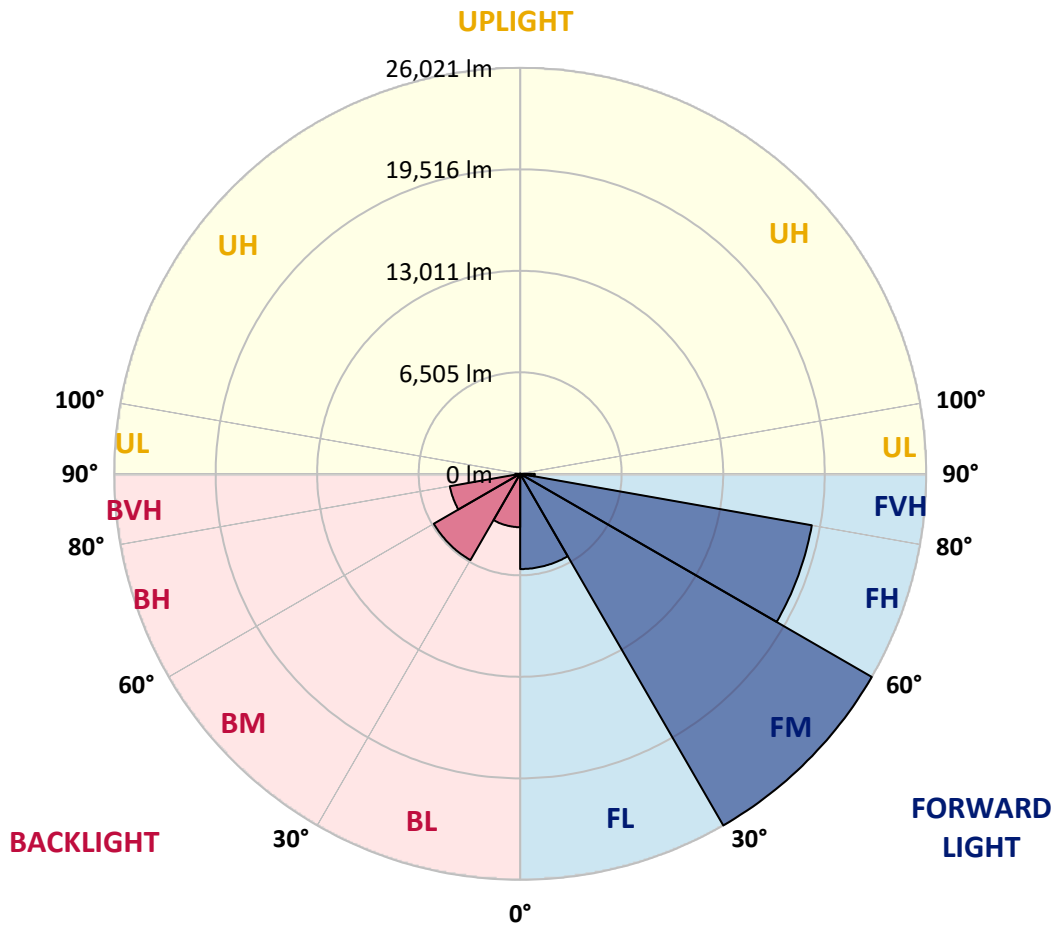
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6103.1  | 9.1       |                         |      |         |
| FM (30°-60°)   | 26021.4 | 39.0      |                         |      |         |
| FH (60°-80°)   | 18979.0 | 28.4      |                         |      | G5      |
| FVH (80°-90°)  | 932.9   | 1.4       |                         |      | G5      |
| BL (0°-30°)    | 3419.8  | 5.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 6385.0  | 9.6       | B4/8500                 |      |         |
| BH (60°-80°)   | 4571.4  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 305.5   | 0.5       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 |
| 2.5°  | 13400.1 | 13336.5 | 13375.4 | 13361.2 | 13378.9 | 13400.1 | 13407.1 | 13417.7 | 13453.0 | 13449.5 |
| 5°    | 13371.8 | 13308.3 | 13361.2 | 13343.6 | 13389.5 | 13438.9 | 13481.2 | 13520.1 | 13576.5 | 13601.2 |
| 7.5°  | 13311.8 | 13269.5 | 13322.4 | 13375.4 | 13460.1 | 13534.2 | 13594.2 | 13682.4 | 13763.6 | 13777.7 |
| 10°   | 12962.5 | 12930.7 | 13054.2 | 13191.8 | 13424.8 | 13625.9 | 13756.5 | 13858.8 | 13947.1 | 13961.2 |
| 12.5° | 12599.0 | 12560.1 | 12697.8 | 12884.8 | 13262.4 | 13625.9 | 13901.2 | 14035.3 | 14112.9 | 14158.8 |
| 15°   | 12539.0 | 12507.2 | 12584.8 | 12747.2 | 13061.3 | 13530.6 | 14000.0 | 14247.1 | 14314.1 | 14367.0 |
| 17.5° | 12828.3 | 12768.4 | 12800.1 | 12856.6 | 13040.1 | 13442.4 | 14077.7 | 14487.0 | 14589.4 | 14645.8 |
| 20°   | 13498.9 | 13414.2 | 13364.8 | 13251.8 | 13220.1 | 13456.5 | 14070.6 | 14776.4 | 14910.5 | 14981.1 |
| 22.5° | 14391.7 | 14335.3 | 14229.4 | 13943.5 | 13633.0 | 13629.5 | 14204.7 | 15147.0 | 15397.5 | 15464.6 |
| 25°   | 15471.7 | 15387.0 | 15252.8 | 14864.6 | 14268.2 | 13971.8 | 14430.6 | 15619.9 | 16039.8 | 16057.5 |
| 27.5° | 16713.9 | 16586.9 | 16403.3 | 15891.6 | 15087.0 | 14508.2 | 14776.4 | 16163.4 | 16777.4 | 16770.4 |
| 30°   | 18023.2 | 17896.2 | 17702.1 | 17080.9 | 16068.1 | 15231.7 | 15256.4 | 16749.2 | 17652.6 | 17613.8 |
| 32.5° | 18979.6 | 18884.3 | 18845.5 | 18365.5 | 17197.4 | 16085.7 | 15806.9 | 17398.6 | 18732.6 | 18697.3 |
| 35°   | 19713.7 | 19590.1 | 19636.0 | 19392.5 | 18429.1 | 17042.1 | 16481.0 | 18171.4 | 20045.4 | 20041.9 |
| 37.5° | 20440.7 | 20331.3 | 20370.1 | 20207.7 | 19569.0 | 18256.1 | 17303.3 | 19117.2 | 21672.3 | 21750.0 |
| 40°   | 21104.1 | 20987.7 | 21142.9 | 20991.2 | 20454.8 | 19547.8 | 18238.5 | 20186.6 | 23556.9 | 23705.1 |
| 42.5° | 21502.9 | 21411.2 | 21668.8 | 21672.3 | 21224.1 | 20638.3 | 19265.5 | 21365.3 | 25737.9 | 26069.6 |
| 45°   | 21640.6 | 21608.8 | 21997.0 | 22078.2 | 21905.2 | 21270.0 | 20190.1 | 22649.9 | 28088.3 | 28681.1 |
| 47.5° | 21492.3 | 21432.3 | 21968.8 | 22268.7 | 22406.4 | 21566.4 | 20955.9 | 24040.4 | 30488.1 | 31356.2 |
| 50°   | 20744.2 | 20627.7 | 21425.3 | 22057.0 | 22547.5 | 21760.5 | 21728.8 | 25646.1 | 33216.1 | 34165.4 |
| 52.5° | 19399.6 | 19311.3 | 20218.3 | 21315.9 | 22237.0 | 21855.8 | 22596.9 | 27400.1 | 35806.4 | 37034.6 |
| 55°   | 17680.9 | 17564.4 | 18563.2 | 19996.0 | 21464.1 | 21824.1 | 23465.1 | 29362.3 | 38862.7 | 40108.4 |
| 57.5° | 14956.4 | 14723.5 | 15986.9 | 17680.9 | 20204.2 | 21785.2 | 24368.6 | 31313.9 | 41968.3 | 43461.1 |
| 60°   | 10982.6 | 10636.8 | 12186.0 | 14194.1 | 17740.9 | 21407.6 | 25487.3 | 33501.9 | 45695.0 | 47039.6 |
| 62.5° | 6394.8  | 6193.6  | 7206.5  | 9080.4  | 13371.8 | 19184.3 | 26115.5 | 36046.4 | 49358.2 | 50769.9 |
| 65°   | 4965.5  | 4909.0  | 4997.2  | 5141.9  | 7442.9  | 14363.5 | 24178.0 | 38527.4 | 54016.7 | 55004.8 |
| 67.5° | 4542.0  | 4499.6  | 4538.4  | 4266.7  | 3776.2  | 8000.5  | 19127.8 | 39155.6 | 59006.9 | 59606.8 |
| 70°   | 4037.3  | 3987.9  | 4115.0  | 3882.0  | 2971.5  | 3638.5  | 12359.0 | 36875.8 | 62977.1 | 64102.9 |
| 72.5° | 3289.1  | 3232.7  | 3529.1  | 3423.2  | 2502.1  | 2336.3  | 6207.7  | 31458.6 | 62560.7 | 64897.0 |
| 75°   | 2526.8  | 2495.1  | 2848.0  | 2936.2  | 2039.8  | 1838.7  | 2978.6  | 23383.9 | 55054.2 | 57408.2 |
| 77.5° | 1962.2  | 1937.5  | 2117.5  | 2438.6  | 1644.6  | 1425.8  | 1831.6  | 14832.9 | 41488.3 | 41901.2 |
| 80°   | 1471.6  | 1401.1  | 1566.9  | 1888.1  | 1281.1  | 1041.1  | 1242.2  | 8649.9  | 26224.9 | 23772.1 |
| 82.5° | 921.1   | 885.8   | 1023.4  | 1259.9  | 903.5   | 716.4   | 808.2   | 4778.4  | 10509.7 | 6190.1  |
| 85°   | 525.8   | 511.7   | 557.6   | 719.9   | 490.5   | 412.9   | 462.3   | 2110.4  | 1919.8  | 1319.9  |
| 87.5° | 211.7   | 204.7   | 254.1   | 321.1   | 180.0   | 151.8   | 162.3   | 508.2   | 423.5   | 391.7   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13393.0 | 0°    | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 | 13393.0 |
| 13445.9 | 2.5°  | 13431.8 | 13431.8 | 13382.4 | 13304.8 | 13216.5 | 13160.1 | 13068.3 | 13043.6 | 12948.3 | 12920.1 |
| 13565.9 | 5°    | 13594.2 | 13565.9 | 13414.2 | 13195.4 | 12895.4 | 12620.1 | 12316.6 | 12126.1 | 11857.8 | 11762.6 |
| 13802.4 | 7.5°  | 13798.9 | 13721.2 | 13460.1 | 12980.1 | 12351.9 | 11734.3 | 11092.0 | 10605.0 | 10139.2 | 9973.3  |
| 13996.5 | 10°   | 13985.9 | 13876.5 | 13431.8 | 12591.9 | 11504.9 | 10435.6 | 9412.2  | 8695.7  | 8152.3  | 7929.9  |
| 14211.8 | 12.5° | 14172.9 | 13971.8 | 13244.8 | 11946.1 | 10301.5 | 8851.0  | 7760.5  | 7202.9  | 6867.7  | 6599.5  |
| 14388.2 | 15°   | 14349.4 | 14067.1 | 12955.4 | 11081.4 | 8981.6  | 7510.0  | 6705.3  | 6260.7  | 5992.4  | 5816.0  |
| 14645.8 | 17.5° | 14554.1 | 14148.2 | 12521.3 | 9983.9  | 7725.2  | 6581.8  | 5925.4  | 5657.2  | 5604.2  | 5583.1  |
| 14998.8 | 20°   | 14839.9 | 14222.3 | 11949.6 | 8755.7  | 6800.6  | 5840.7  | 5501.9  | 5477.2  | 5473.7  | 5463.1  |
| 15422.2 | 22.5° | 15147.0 | 14310.6 | 11194.4 | 7640.5  | 6013.6  | 5378.4  | 5318.4  | 5269.0  | 5237.2  | 5233.7  |
| 15934.0 | 25°   | 15510.5 | 14338.8 | 10248.6 | 6726.5  | 5343.1  | 5159.6  | 5089.0  | 5014.9  | 4993.7  | 4993.7  |
| 16516.3 | 27.5° | 15863.4 | 14243.5 | 9147.5  | 5932.4  | 4965.5  | 4958.4  | 4866.7  | 4842.0  | 4838.4  | 4849.0  |
| 17179.7 | 30°   | 16216.3 | 14063.5 | 8053.4  | 5198.4  | 4746.7  | 4746.7  | 4714.9  | 4732.5  | 4746.7  | 4782.0  |
| 18090.3 | 32.5° | 16692.7 | 13873.0 | 7139.4  | 4654.9  | 4556.1  | 4520.8  | 4552.6  | 4587.9  | 4602.0  | 4647.8  |
| 19286.6 | 35°   | 17391.5 | 13738.9 | 6412.4  | 4358.5  | 4358.5  | 4312.6  | 4330.2  | 4323.2  | 4291.4  | 4270.2  |
| 20733.6 | 37.5° | 18316.1 | 13731.8 | 5812.5  | 4220.8  | 4192.6  | 4185.5  | 4189.1  | 4143.2  | 4019.7  | 3871.4  |
| 22484.0 | 40°   | 19427.8 | 13922.4 | 5350.1  | 4125.5  | 4104.4  | 4146.7  | 4125.5  | 4002.0  | 3663.2  | 3405.6  |
| 24636.8 | 42.5° | 20920.6 | 14465.9 | 5053.7  | 4009.1  | 4072.6  | 4125.5  | 4040.8  | 3613.8  | 3384.4  | 3211.5  |
| 27089.5 | 45°   | 22678.1 | 15348.1 | 4901.9  | 3885.6  | 4012.6  | 4076.1  | 3666.8  | 3479.7  | 3296.2  | 3088.0  |
| 29764.6 | 47.5° | 24668.5 | 16459.8 | 4866.7  | 3769.1  | 3878.5  | 3917.3  | 3507.9  | 3423.2  | 3215.0  | 2989.2  |
| 32453.8 | 50°   | 26835.4 | 17776.2 | 4961.9  | 3631.5  | 3684.4  | 3550.3  | 3455.0  | 3377.4  | 3162.1  | 2939.8  |
| 35210.0 | 52.5° | 29076.4 | 19226.6 | 5152.5  | 3444.4  | 3490.3  | 3342.1  | 3433.8  | 3366.8  | 3130.3  | 2830.4  |
| 38058.0 | 55°   | 31278.6 | 20687.7 | 5336.0  | 3225.6  | 3292.7  | 3155.0  | 3373.8  | 3324.4  | 2985.6  | 2646.8  |
| 41096.6 | 57.5° | 33516.0 | 22141.7 | 5516.0  | 3031.5  | 3102.1  | 2975.0  | 3278.6  | 3211.5  | 2823.3  | 2477.4  |
| 44414.0 | 60°   | 35841.7 | 23553.3 | 5600.7  | 2844.5  | 2893.9  | 2809.2  | 3133.9  | 3017.4  | 2639.8  | 2304.5  |
| 47674.9 | 62.5° | 38019.2 | 24728.5 | 5463.1  | 2657.4  | 2689.2  | 2653.9  | 2943.3  | 2788.0  | 2456.3  | 2110.4  |
| 51073.4 | 65°   | 40203.7 | 25427.3 | 5039.6  | 2473.9  | 2481.0  | 2463.3  | 2675.1  | 2541.0  | 2241.0  | 1941.0  |
| 54048.4 | 67.5° | 42183.6 | 25819.0 | 4365.5  | 2276.3  | 2258.6  | 2251.6  | 2424.5  | 2272.8  | 2032.8  | 1771.6  |
| 56310.6 | 70°   | 42603.5 | 24823.8 | 3335.0  | 2043.4  | 2043.4  | 2025.7  | 2149.2  | 1994.0  | 1803.4  | 1591.6  |
| 54690.7 | 72.5° | 38912.1 | 20881.8 | 2368.0  | 1778.7  | 1806.9  | 1771.6  | 1874.0  | 1743.4  | 1570.5  | 1429.3  |
| 47134.9 | 75°   | 31377.4 | 15312.8 | 1722.2  | 1506.9  | 1556.3  | 1496.3  | 1591.6  | 1499.9  | 1351.7  | 1348.1  |
| 32482.0 | 77.5° | 21559.4 | 9468.6  | 1249.3  | 1242.2  | 1277.5  | 1199.9  | 1309.3  | 1259.9  | 1125.8  | 1065.8  |
| 14137.6 | 80°   | 9200.4  | 3776.2  | 910.5   | 959.9   | 959.9   | 889.3   | 1016.4  | 1030.5  | 914.0   | 885.8   |
| 2728.0  | 82.5° | 1831.6  | 1072.9  | 638.8   | 659.9   | 621.1   | 600.0   | 719.9   | 797.6   | 1101.1  | 1224.6  |
| 822.3   | 85°   | 550.5   | 395.3   | 384.7   | 360.0   | 317.6   | 321.1   | 423.5   | 801.1   | 988.2   | 564.7   |
| 271.7   | 87.5° | 151.8   | 98.8    | 102.3   | 81.2    | 67.1    | 88.2    | 144.7   | 607.0   | 331.7   | 141.2   |
| 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> |
|-------------|
| 13393.0     |
| 12966.0     |
| 11833.1     |
| 9994.5      |
| 7979.3      |
| 6687.7      |
| 5847.7      |
| 5597.2      |
| 5498.4      |
| 5272.5      |
| 5014.9      |
| 4877.2      |
| 4806.7      |
| 4686.7      |
| 4319.6      |
| 3875.0      |
| 3398.5      |
| 3204.4      |
| 3073.9      |
| 2971.5      |
| 2915.1      |
| 2809.2      |
| 2629.2      |
| 2470.4      |
| 2293.9      |
| 2106.9      |
| 1919.8      |
| 1750.4      |
| 1584.6      |
| 1386.9      |
| 1214.0      |
| 998.7       |
| 885.8       |
| 1228.1      |
| 487.0       |
| 120.0       |
| 0.0         |

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