

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: P955766

Luminaire Tested: **GALN-SB8C-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955766  
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-SB8C-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

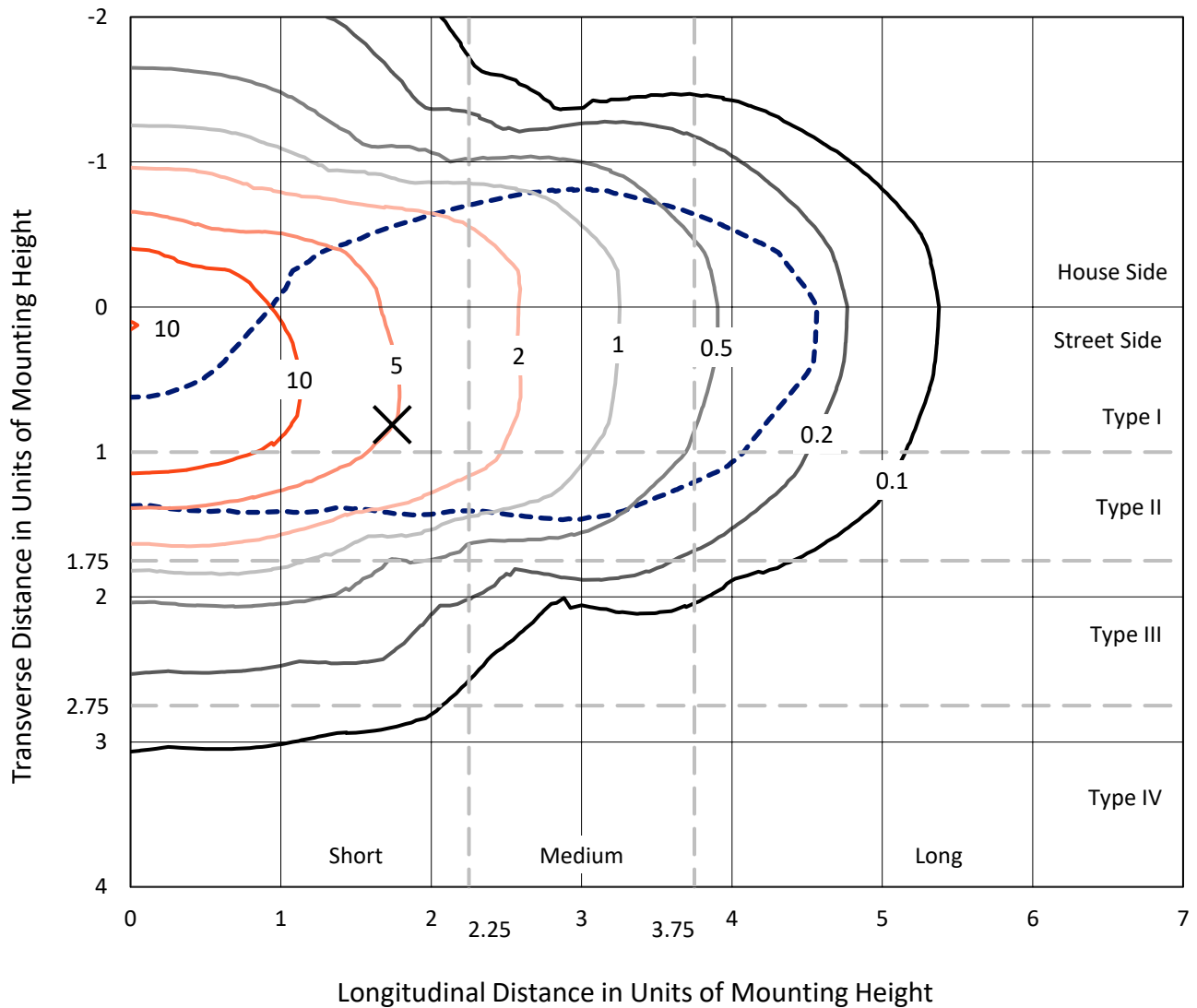
Lumens per Lamp: N/A  
Luminaire Lumens: 58701 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

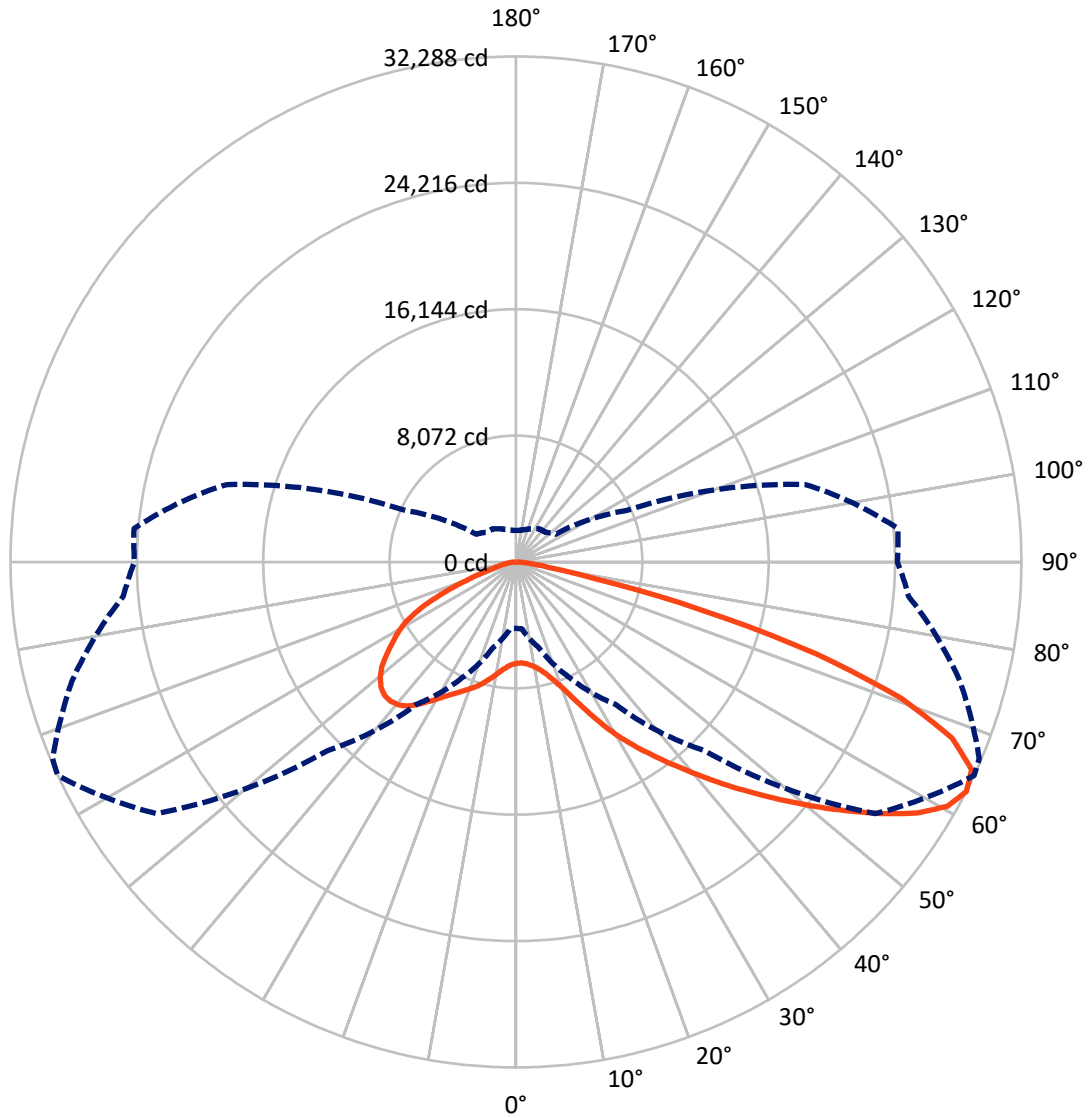
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18523.5  | 0.0    | 18523.5 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 40177.5  | 0.0    | 40177.5 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 58701.0  | 0.0    | 58701.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 644.9   | 1.1       |
| 10°-20°   | 2187.0  | 3.7       |
| 20°-30°   | 4434.3  | 7.6       |
| 30°-40°   | 7673.4  | 13.1      |
| 40°-50°   | 11612.3 | 19.8      |
| 50°-60°   | 13614.7 | 23.2      |
| 60°-70°   | 11414.3 | 19.4      |
| 70°-80°   | 6301.6  | 10.7      |
| 80°-90°   | 818.6   | 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°    | 58701.0 | 100.0     |
| 0°-180°   | 58701.0 | 100.0     |

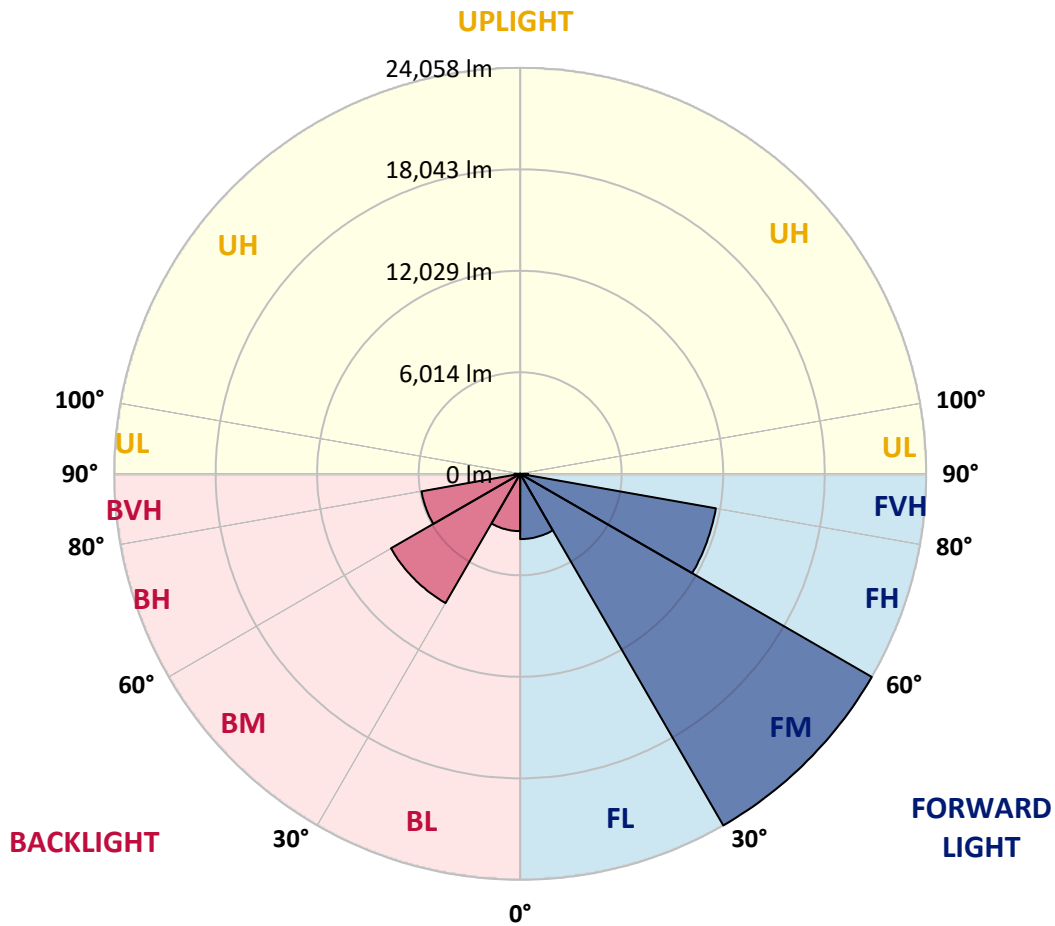


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3869.2  | 6.6       |                         |      |          |
| FM (30°-60°)   | 24057.6 | 41.0      |                         |      |          |
| FH (60°-80°)   | 11773.7 | 20.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 477.1   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 3397.0  | 5.8       | B4/5000                 |      |          |
| BM (30°-60°)   | 8842.8  | 15.1      | B5                      |      |          |
| BH (60°-80°)   | 5942.2  | 10.1      | B5                      |      | G5       |
| BVH (80°-90°)  | 341.5   | 0.6       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6  |
| 2.5°  | 6426.0  | 6407.7  | 6422.9  | 6422.9  | 6429.0  | 6426.0  | 6447.3  | 6453.4  | 6462.5  | 6480.8  |
| 5°    | 6362.0  | 6359.0  | 6386.4  | 6410.7  | 6435.1  | 6456.4  | 6483.8  | 6523.4  | 6529.5  | 6550.8  |
| 7.5°  | 6340.7  | 6322.4  | 6365.0  | 6395.5  | 6453.4  | 6505.1  | 6578.2  | 6645.2  | 6672.6  | 6681.8  |
| 10°   | 6505.1  | 6474.7  | 6514.3  | 6532.6  | 6581.3  | 6633.1  | 6718.3  | 6824.9  | 6855.4  | 6891.9  |
| 12.5° | 6785.3  | 6751.8  | 6809.7  | 6837.1  | 6882.8  | 6928.5  | 6986.3  | 7089.9  | 7105.1  | 7172.1  |
| 15°   | 7169.1  | 7129.5  | 7166.0  | 7199.5  | 7275.6  | 7318.3  | 7376.1  | 7476.6  | 7476.6  | 7528.4  |
| 17.5° | 7689.8  | 7638.1  | 7665.5  | 7677.7  | 7726.4  | 7790.3  | 7887.8  | 7976.1  | 8021.8  | 8003.5  |
| 20°   | 8466.4  | 8402.5  | 8402.5  | 8341.6  | 8323.3  | 8375.1  | 8503.0  | 8624.8  | 8673.5  | 8579.1  |
| 22.5° | 9632.8  | 9541.5  | 9489.7  | 9282.6  | 9200.4  | 9206.5  | 9334.4  | 9483.6  | 9523.2  | 9355.7  |
| 25°   | 11116.0 | 10972.9 | 10902.8 | 10598.3 | 10412.5 | 10251.1 | 10351.6 | 10543.4 | 10598.3 | 10391.2 |
| 27.5° | 12599.1 | 12608.3 | 12541.3 | 12175.8 | 11868.2 | 11572.8 | 11521.0 | 11722.0 | 11779.9 | 11545.4 |
| 30°   | 14679.2 | 14463.0 | 14335.1 | 13896.5 | 13458.0 | 13043.8 | 12830.6 | 12912.8 | 12928.1 | 12647.9 |
| 32.5° | 16473.0 | 16418.2 | 16144.1 | 15760.3 | 15196.9 | 14548.2 | 14191.9 | 14061.0 | 14036.6 | 13637.7 |
| 35°   | 18516.5 | 18486.1 | 18196.7 | 17739.9 | 17130.8 | 16229.4 | 15586.8 | 15212.2 | 15181.7 | 14621.3 |
| 37.5° | 20593.5 | 20593.5 | 20310.3 | 19810.8 | 19180.4 | 18053.6 | 17076.0 | 16482.1 | 16384.7 | 15653.8 |
| 40°   | 22250.3 | 22149.8 | 22201.5 | 21991.4 | 21269.6 | 20072.7 | 18729.7 | 17867.8 | 17736.9 | 16859.8 |
| 42.5° | 23191.3 | 23157.8 | 23468.5 | 23703.0 | 23407.5 | 22451.3 | 20550.9 | 19369.2 | 19186.5 | 18187.6 |
| 45°   | 23401.5 | 23364.9 | 23919.2 | 24778.0 | 25192.2 | 24799.3 | 22530.4 | 20949.8 | 20727.5 | 19576.3 |
| 47.5° | 22917.2 | 22844.1 | 23657.3 | 25012.5 | 26340.3 | 27031.7 | 24674.5 | 22664.4 | 22341.6 | 20928.5 |
| 50°   | 21461.5 | 21391.4 | 22621.8 | 24421.7 | 26727.1 | 28548.3 | 27001.2 | 24482.6 | 23989.2 | 22378.2 |
| 52.5° | 18297.2 | 18330.7 | 20258.5 | 22731.4 | 26218.5 | 29492.4 | 29005.1 | 26398.2 | 25804.3 | 23861.3 |
| 55°   | 14252.8 | 14325.9 | 16695.3 | 19418.0 | 24184.1 | 29349.3 | 30372.6 | 28371.7 | 27780.9 | 25256.2 |
| 57.5° | 10205.4 | 10528.2 | 12748.4 | 15443.6 | 20276.8 | 27080.4 | 30671.0 | 30247.7 | 29675.1 | 26778.9 |
| 60°   | 6614.8  | 6672.6  | 8956.8  | 11673.3 | 15440.6 | 23048.2 | 30065.0 | 31669.9 | 31222.2 | 28332.1 |
| 62.5° | 4239.3  | 4278.9  | 5670.7  | 8164.9  | 11112.9 | 17051.6 | 28024.5 | 32288.2 | 32151.1 | 29358.4 |
| 65°   | 3115.5  | 3085.1  | 3809.9  | 5396.6  | 7485.8  | 10516.0 | 24062.3 | 31989.7 | 32260.8 | 30001.0 |
| 67.5° | 2600.8  | 2558.2  | 2914.5  | 3736.8  | 5515.4  | 5972.2  | 17803.9 | 30049.7 | 31042.6 | 29927.9 |
| 70°   | 2369.4  | 2332.8  | 2549.1  | 2774.4  | 4303.3  | 3998.7  | 8975.0  | 26124.1 | 27652.9 | 29096.5 |
| 72.5° | 2007.0  | 1943.0  | 2238.4  | 2463.8  | 3347.0  | 3066.8  | 3709.4  | 20066.7 | 21930.5 | 26431.7 |
| 75°   | 1556.2  | 1513.6  | 1766.4  | 2168.4  | 2515.6  | 2393.7  | 2345.0  | 12185.0 | 14219.3 | 20441.2 |
| 77.5° | 1233.4  | 1175.6  | 1407.0  | 1690.2  | 2262.8  | 1806.0  | 1708.5  | 5247.4  | 7263.5  | 13049.9 |
| 80°   | 928.9   | 877.1   | 1069.0  | 1337.0  | 1739.0  | 1361.3  | 1105.5  | 2141.0  | 2737.9  | 6611.7  |
| 82.5° | 660.9   | 615.2   | 746.1   | 980.6   | 1169.5  | 1221.2  | 679.1   | 1199.9  | 1349.1  | 2549.1  |
| 85°   | 423.3   | 395.9   | 499.5   | 615.2   | 743.1   | 785.7   | 414.2   | 627.4   | 688.3   | 1050.7  |
| 87.5° | 231.5   | 188.8   | 268.0   | 286.3   | 344.1   | 313.7   | 198.0   | 228.4   | 246.7   | 380.7   |
| 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°   |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 6468.6  | 0°    | 6468.6  | 6468.6  | 6468.6  | 6468.6  | 6468.6 | 6468.6 | 6468.6 | 6468.6 | 6468.6 | 6468.6 |
| 6480.8  | 2.5°  | 6493.0  | 6502.1  | 6532.6  | 6541.7  | 6563.0 | 6590.4 | 6608.7 | 6627.0 | 6627.0 | 6645.2 |
| 6578.2  | 5°    | 6581.3  | 6602.6  | 6666.6  | 6700.1  | 6754.9 | 6809.7 | 6843.2 | 6882.8 | 6907.1 | 6919.3 |
| 6733.6  | 7.5°  | 6751.8  | 6785.3  | 6876.7  | 6934.6  | 7029.0 | 7105.1 | 7156.9 | 7211.7 | 7223.9 | 7257.4 |
| 6949.8  | 10°   | 6983.3  | 7022.9  | 7126.4  | 7236.1  | 7348.7 | 7443.1 | 7491.9 | 7531.5 | 7546.7 | 7552.8 |
| 7226.9  | 12.5° | 7248.2  | 7306.1  | 7440.1  | 7574.1  | 7692.9 | 7775.1 | 7787.3 | 7778.2 | 7735.5 | 7699.0 |
| 7568.0  | 15°   | 7574.1  | 7625.9  | 7775.1  | 7921.3  | 8037.0 | 8052.2 | 7976.1 | 7927.4 | 7875.6 | 7866.5 |
| 7948.7  | 17.5° | 7963.9  | 7991.3  | 8128.4  | 8271.5  | 8280.7 | 8228.9 | 8116.2 | 8070.5 | 8021.8 | 7988.3 |
| 8445.1  | 20°   | 8417.7  | 8408.6  | 8506.0  | 8566.9  | 8503.0 | 8344.6 | 8174.1 | 8097.9 | 8049.2 | 8009.6 |
| 9054.2  | 22.5° | 8959.8  | 8889.8  | 8877.6  | 8862.3  | 8691.8 | 8359.8 | 8128.4 | 8030.9 | 7954.8 | 7900.0 |
| 9903.9  | 25°   | 9748.6  | 9480.6  | 9294.8  | 9191.3  | 8807.5 | 8277.6 | 7982.2 | 7766.0 | 7622.8 | 7528.4 |
| 10942.4 | 27.5° | 10735.3 | 10284.6 | 9815.6  | 9562.8  | 8807.5 | 8110.1 | 7628.9 | 7278.7 | 7044.2 | 6946.7 |
| 11947.4 | 30°   | 11676.4 | 11204.3 | 10513.0 | 10010.5 | 8786.2 | 7836.0 | 7059.4 | 6572.1 | 6298.0 | 6200.6 |
| 12806.2 | 32.5° | 12480.4 | 11965.7 | 11253.0 | 10500.8 | 8734.4 | 7391.4 | 6352.9 | 5813.8 | 5548.9 | 5433.1 |
| 13655.9 | 35°   | 13226.5 | 12678.3 | 11996.1 | 11039.9 | 8597.4 | 6739.6 | 5576.3 | 5165.1 | 4869.7 | 4683.9 |
| 14520.8 | 37.5° | 13990.9 | 13339.2 | 12699.6 | 11527.1 | 8350.7 | 5978.3 | 4979.4 | 4629.1 | 4281.9 | 4032.2 |
| 15440.6 | 40°   | 14822.3 | 14042.7 | 13451.9 | 11816.5 | 7945.7 | 5253.4 | 4516.4 | 4196.7 | 3828.2 | 3563.2 |
| 16500.4 | 42.5° | 15793.8 | 14886.3 | 14289.4 | 11965.7 | 7391.4 | 4738.8 | 4214.9 | 3901.3 | 3554.1 | 3337.8 |
| 17636.4 | 45°   | 16808.0 | 15815.2 | 15053.8 | 11962.6 | 6773.1 | 4498.2 | 4117.5 | 3806.8 | 3423.1 | 3197.8 |
| 18802.8 | 47.5° | 17870.9 | 16786.7 | 15714.7 | 11767.7 | 6237.1 | 4531.7 | 4062.7 | 3602.8 | 3179.5 | 2960.2 |
| 19981.4 | 50°   | 18936.8 | 17849.5 | 16354.2 | 11402.3 | 6008.7 | 4458.6 | 3858.6 | 3316.5 | 2817.1 | 2619.1 |
| 21086.9 | 52.5° | 19993.6 | 18979.4 | 16905.4 | 10881.5 | 5777.3 | 4187.5 | 3596.7 | 2945.0 | 2667.8 | 2530.8 |
| 22228.9 | 55°   | 21056.4 | 20097.1 | 17505.4 | 10123.2 | 5198.6 | 3870.8 | 3158.2 | 2804.9 | 2549.1 | 2424.2 |
| 23346.6 | 57.5° | 22122.4 | 21388.4 | 18074.9 | 9364.8  | 4470.8 | 3481.0 | 2917.6 | 2634.3 | 2430.3 | 2323.7 |
| 24281.6 | 60°   | 23230.9 | 22865.5 | 18662.7 | 8667.4  | 3752.0 | 2981.5 | 2740.9 | 2497.3 | 2290.2 | 2171.4 |
| 25180.0 | 62.5° | 24373.0 | 24491.7 | 19122.6 | 7769.0  | 3091.2 | 2677.0 | 2582.6 | 2332.8 | 2131.8 | 2019.2 |
| 25923.1 | 65°   | 25524.2 | 26060.2 | 19424.1 | 6523.4  | 2506.4 | 2387.7 | 2412.0 | 2153.2 | 1949.1 | 1851.7 |
| 26468.3 | 67.5° | 26392.1 | 27190.0 | 19338.8 | 4936.7  | 2055.7 | 2113.6 | 2198.8 | 1964.3 | 1772.5 | 1696.3 |
| 26379.9 | 70°   | 26489.6 | 27056.0 | 18498.2 | 3380.5  | 1720.7 | 1845.6 | 1961.3 | 1778.6 | 1580.6 | 1525.8 |
| 25137.4 | 72.5° | 25192.2 | 25228.7 | 16156.3 | 2208.0  | 1455.7 | 1620.2 | 1711.6 | 1589.7 | 1397.9 | 1343.1 |
| 21991.4 | 75°   | 21790.4 | 20864.6 | 11862.1 | 1455.7  | 1218.2 | 1391.8 | 1477.1 | 1391.8 | 1206.0 | 1218.2 |
| 16454.7 | 77.5° | 16509.5 | 14776.7 | 7202.6  | 1035.5  | 1017.2 | 1169.5 | 1285.2 | 1224.3 | 1065.9 | 1196.9 |
| 8274.6  | 80°   | 8506.0  | 7994.4  | 3213.0  | 773.6   | 804.0  | 935.0  | 1056.8 | 977.6  | 843.6  | 804.0  |
| 1848.6  | 82.5° | 1949.1  | 2265.8  | 1266.9  | 554.3   | 581.7  | 673.1  | 807.1  | 734.0  | 606.1  | 511.6  |
| 770.5   | 85°   | 682.2   | 746.1   | 560.4   | 347.2   | 341.1  | 420.3  | 548.2  | 490.3  | 411.1  | 328.9  |
| 325.9   | 87.5° | 216.2   | 283.2   | 210.1   | 140.1   | 146.2  | 188.8  | 252.8  | 231.5  | 191.9  | 124.9  |
| 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> |
|-------------|
| 6468.6      |
| 6645.2      |
| 6925.4      |
| 7245.2      |
| 7537.6      |
| 7699.0      |
| 7866.5      |
| 7991.3      |
| 8012.7      |
| 7918.2      |
| 7565.0      |
| 6995.5      |
| 6258.5      |
| 5491.0      |
| 4744.9      |
| 4099.2      |
| 3615.0      |
| 3380.5      |
| 3234.3      |
| 2990.7      |
| 2631.3      |
| 2530.8      |
| 2412.0      |
| 2305.4      |
| 2162.3      |
| 2016.1      |
| 1848.6      |
| 1699.4      |
| 1528.8      |
| 1340.0      |
| 1175.6      |
| 1053.7      |
| 734.0       |
| 505.5       |
| 347.2       |
| 131.0       |
| 0.0         |

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