

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: P943192

Luminaire Tested: **GALN-SB7C-760-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-760-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

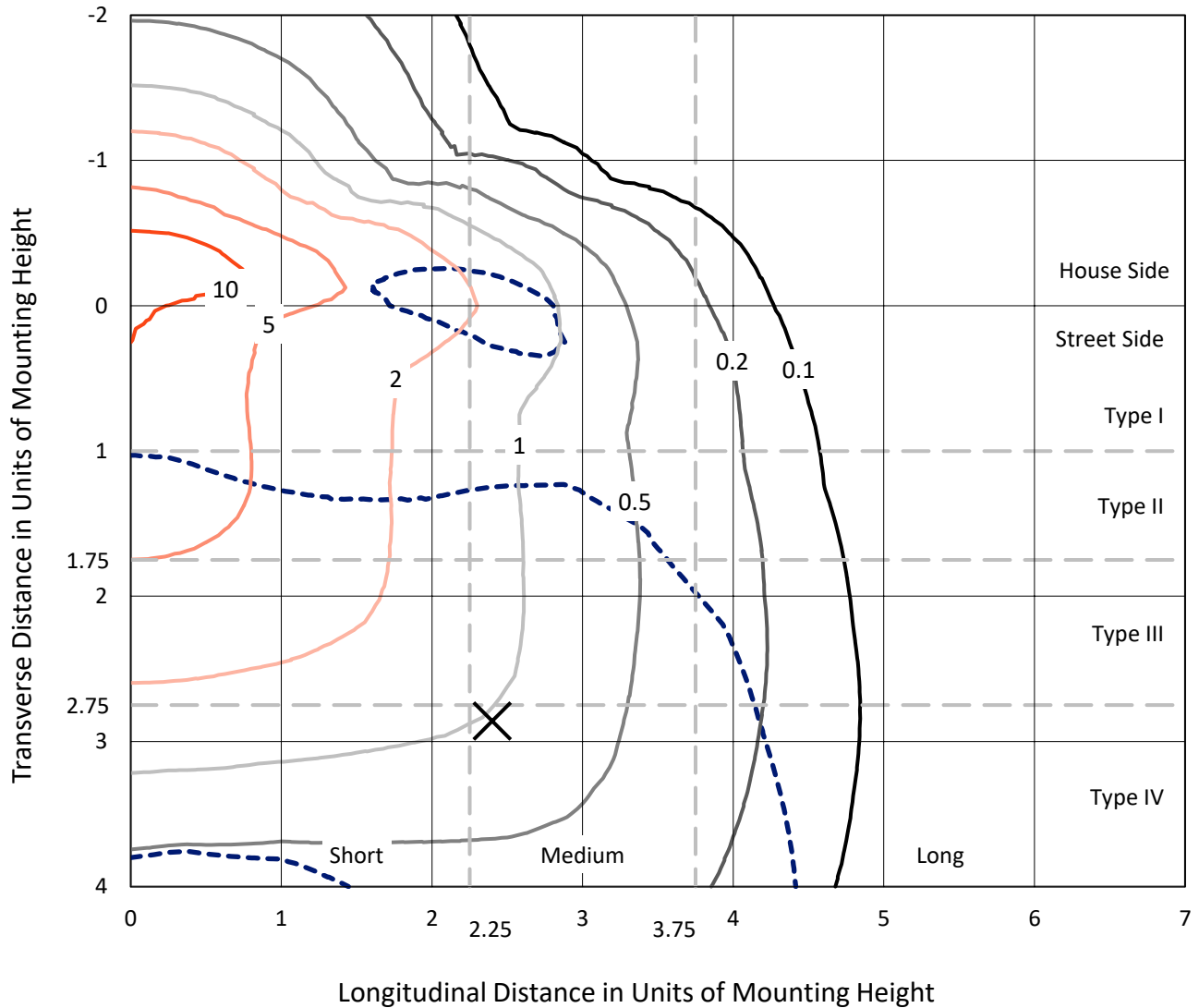
Lumens per Lamp: N/A  
Luminaire Lumens: 55855 lumens  
Efficiency: N/A  
Efficacy: 159.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

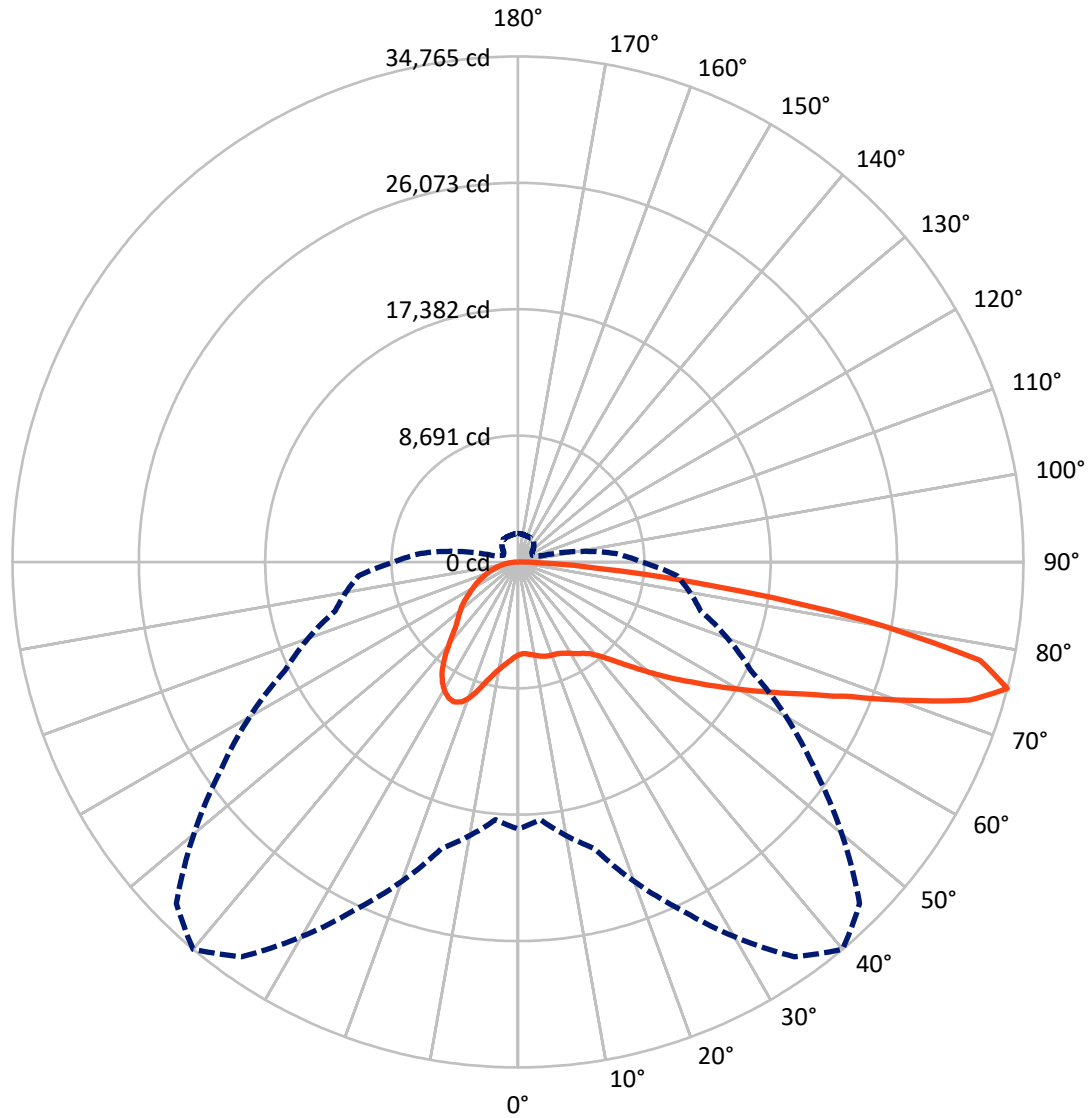
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17305.7  | 0.0    | 17305.7 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 38549.3  | 0.0    | 38549.3 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 55855.0  | 0.0    | 55855.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 637.6   | 1.1       |
| 10°-20°   | 2140.6  | 3.8       |
| 20°-30°   | 3908.5  | 7.0       |
| 30°-40°   | 5543.3  | 9.9       |
| 40°-50°   | 7485.1  | 13.4      |
| 50°-60°   | 10069.5 | 18.0      |
| 60°-70°   | 12780.5 | 22.9      |
| 70°-80°   | 11599.1 | 20.8      |
| 80°-90°   | 1690.8  | 3.0       |
| 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°    | 55855.0 | 100.0     |
| 0°-180°   | 55855.0 | 100.0     |



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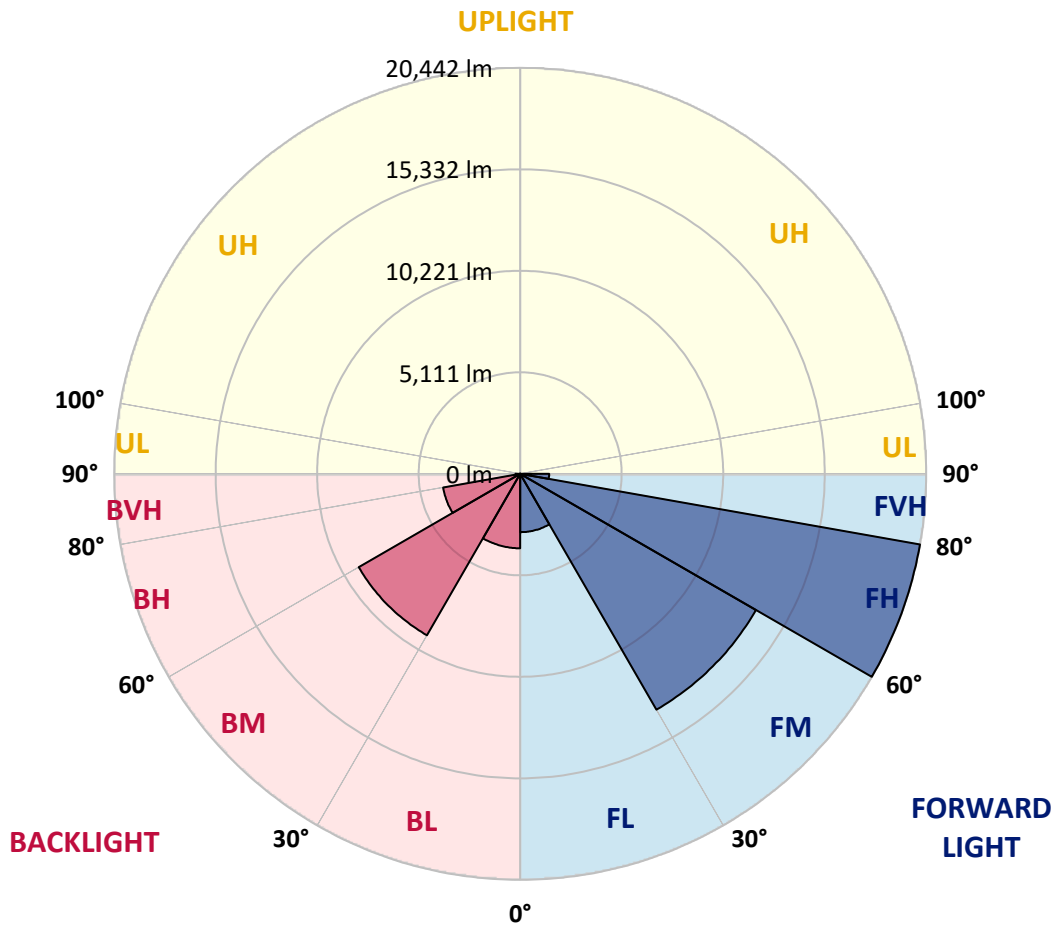
CATALOG NUMBER: GALN-SB7C-760-U-SL4

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2938.0  | 5.3       |                         |      |         |
| FM (30°-60°)   | 13711.1 | 24.5      |                         |      |         |
| FH (60°-80°)   | 20442.1 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 1458.0  | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 3748.6  | 6.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 9386.8  | 16.8      | B5                      |      |         |
| BH (60°-80°)   | 3937.6  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 232.8   | 0.4       |                         |      | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  |
| 2.5°  | 6289.3  | 6324.9  | 6316.0  | 6304.1  | 6304.1  | 6307.1  | 6304.1  | 6324.9  | 6345.6  | 6366.4  |
| 5°    | 6354.5  | 6390.1  | 6372.3  | 6357.5  | 6345.6  | 6342.7  | 6333.8  | 6330.8  | 6342.7  | 6369.3  |
| 7.5°  | 6481.9  | 6517.4  | 6490.8  | 6464.1  | 6440.4  | 6428.6  | 6416.7  | 6398.9  | 6390.1  | 6404.9  |
| 10°   | 6624.1  | 6659.6  | 6627.1  | 6579.7  | 6541.1  | 6526.3  | 6514.5  | 6496.7  | 6484.9  | 6493.7  |
| 12.5° | 6766.3  | 6801.8  | 6757.4  | 6692.2  | 6641.9  | 6633.0  | 6618.2  | 6612.2  | 6609.3  | 6606.3  |
| 15°   | 6899.6  | 6929.2  | 6872.9  | 6795.9  | 6742.6  | 6727.8  | 6713.0  | 6721.9  | 6736.7  | 6754.4  |
| 17.5° | 7003.3  | 7032.9  | 6950.0  | 6849.2  | 6798.9  | 6793.0  | 6784.1  | 6813.7  | 6855.2  | 6899.6  |
| 20°   | 7098.1  | 7127.7  | 7021.1  | 6884.8  | 6825.5  | 6825.5  | 6828.5  | 6890.7  | 6950.0  | 7015.1  |
| 22.5° | 7231.4  | 7255.1  | 7124.7  | 6938.1  | 6852.2  | 6858.1  | 6881.8  | 6944.0  | 7018.1  | 7107.0  |
| 25°   | 7429.9  | 7447.7  | 7287.7  | 7038.8  | 6941.1  | 6958.9  | 6979.6  | 7009.2  | 7080.3  | 7184.0  |
| 27.5° | 7749.8  | 7764.6  | 7554.3  | 7216.6  | 7068.5  | 7098.1  | 7127.7  | 7107.0  | 7139.6  | 7228.4  |
| 30°   | 8200.1  | 8209.0  | 7942.4  | 7495.1  | 7284.7  | 7299.5  | 7305.5  | 7219.5  | 7157.3  | 7228.4  |
| 32.5° | 8733.4  | 8730.4  | 8413.4  | 7832.8  | 7530.6  | 7515.8  | 7465.4  | 7296.6  | 7151.4  | 7213.6  |
| 35°   | 9559.9  | 9527.3  | 9118.5  | 8306.8  | 7809.1  | 7717.2  | 7598.7  | 7382.5  | 7181.0  | 7198.8  |
| 37.5° | 10928.6 | 10827.8 | 10262.0 | 9082.9  | 8223.8  | 7989.8  | 7815.0  | 7521.7  | 7246.2  | 7192.9  |
| 40°   | 12472.0 | 12344.6 | 11722.5 | 10146.5 | 8845.9  | 8469.7  | 8188.3  | 7720.2  | 7352.9  | 7219.5  |
| 42.5° | 14302.8 | 14122.1 | 13452.6 | 11399.6 | 9634.0  | 9088.9  | 8665.2  | 7972.0  | 7509.9  | 7305.5  |
| 45°   | 16551.3 | 16311.4 | 15363.4 | 12812.7 | 10626.4 | 9900.6  | 9334.8  | 8354.2  | 7749.8  | 7471.4  |
| 47.5° | 18823.6 | 18882.8 | 17534.9 | 14430.2 | 11817.3 | 10901.9 | 10173.1 | 8928.9  | 8099.4  | 7738.0  |
| 50°   | 21238.0 | 21279.4 | 19694.5 | 16222.5 | 13168.2 | 12033.6 | 11115.2 | 9571.8  | 8585.2  | 8117.2  |
| 52.5° | 23122.1 | 23128.0 | 21655.7 | 18097.8 | 14575.4 | 13277.8 | 12131.3 | 10306.4 | 9148.1  | 8620.8  |
| 55°   | 24301.2 | 24286.4 | 23030.3 | 19872.3 | 16192.9 | 14584.3 | 13257.1 | 11141.9 | 9835.4  | 9213.3  |
| 57.5° | 25157.3 | 25112.9 | 23978.3 | 21397.9 | 17917.0 | 16127.7 | 14530.9 | 12089.9 | 10647.1 | 9918.4  |
| 60°   | 25483.2 | 25456.5 | 24621.1 | 22716.2 | 19730.1 | 17834.1 | 16000.3 | 13150.4 | 11568.5 | 10750.8 |
| 62.5° | 25607.6 | 25658.0 | 25252.1 | 23993.1 | 21670.5 | 19724.2 | 17614.9 | 14418.4 | 12605.3 | 11692.9 |
| 65°   | 26046.1 | 26137.9 | 26055.0 | 25663.9 | 23862.7 | 21937.1 | 19756.7 | 15926.3 | 13737.0 | 12703.1 |
| 67.5° | 26914.1 | 27005.9 | 27041.5 | 27663.6 | 26540.8 | 24695.2 | 22428.9 | 17804.5 | 15061.2 | 13751.8 |
| 70°   | 26893.3 | 26866.7 | 27494.7 | 29254.4 | 29894.3 | 28513.8 | 26031.3 | 20115.2 | 16640.2 | 14622.8 |
| 72.5° | 24478.9 | 24265.6 | 25749.8 | 29236.7 | 32685.0 | 32501.3 | 30430.5 | 23095.4 | 18003.0 | 14729.4 |
| 75°   | 18364.4 | 17795.6 | 20417.4 | 26348.2 | 33150.1 | 34764.6 | 33227.1 | 24944.0 | 17680.0 | 13014.1 |
| 77.5° | 7853.5  | 7281.8  | 10371.6 | 19504.9 | 29669.2 | 32498.3 | 30661.6 | 21762.3 | 14113.2 | 8606.0  |
| 80°   | 2056.0  | 2053.0  | 3134.3  | 8843.0  | 20177.4 | 23999.0 | 21054.3 | 14054.0 | 8063.9  | 3075.0  |
| 82.5° | 850.2   | 829.5   | 1152.4  | 3439.4  | 9859.1  | 13467.4 | 10990.8 | 6268.6  | 2912.1  | 832.5   |
| 85°   | 317.0   | 314.0   | 559.9   | 1188.0  | 3477.9  | 5554.6  | 4020.1  | 1602.7  | 725.8   | 405.9   |
| 87.5° | 88.9    | 85.9    | 121.5   | 411.8   | 847.3   | 1285.7  | 687.3   | 263.7   | 204.4   | 160.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 6387.1  | 0°    | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  | 6387.1  |
| 6398.9  | 2.5°  | 6407.8  | 6422.6  | 6449.3  | 6470.0  | 6496.7  | 6526.3  | 6567.8  | 6594.5  | 6621.1  | 6638.9  |
| 6413.8  | 5°    | 6434.5  | 6467.1  | 6535.2  | 6603.4  | 6683.3  | 6757.4  | 6843.3  | 6905.5  | 6955.9  | 6970.7  |
| 6467.1  | 7.5°  | 6493.7  | 6547.1  | 6662.6  | 6778.1  | 6905.5  | 7027.0  | 7151.4  | 7258.1  | 7344.0  | 7376.6  |
| 6561.9  | 10°   | 6597.4  | 6668.5  | 6831.5  | 6994.4  | 7163.3  | 7349.9  | 7509.9  | 7663.9  | 7785.4  | 7835.7  |
| 6674.5  | 12.5° | 6727.8  | 6816.7  | 7030.0  | 7255.1  | 7489.1  | 7746.9  | 7954.2  | 8143.8  | 8294.9  | 8363.1  |
| 6831.5  | 15°   | 6896.6  | 7012.2  | 7284.7  | 7586.9  | 7930.5  | 8289.0  | 8552.7  | 8763.0  | 8931.9  | 9014.8  |
| 6994.4  | 17.5° | 7080.3  | 7234.4  | 7578.0  | 8034.2  | 8526.0  | 8997.0  | 9305.1  | 9459.2  | 9634.0  | 9714.0  |
| 7145.5  | 20°   | 7258.1  | 7447.7  | 7939.4  | 8603.0  | 9257.7  | 9758.4  | 10007.2 | 10048.7 | 10060.6 | 10069.4 |
| 7287.7  | 22.5° | 7441.7  | 7696.5  | 8392.7  | 9319.9  | 10022.0 | 10368.7 | 10404.2 | 10226.5 | 9977.6  | 9862.1  |
| 7426.9  | 25°   | 7643.2  | 7980.9  | 8985.2  | 10110.9 | 10679.7 | 10721.2 | 10448.6 | 10016.1 | 9545.1  | 9328.8  |
| 7539.5  | 27.5° | 7838.7  | 8309.7  | 9696.2  | 10866.4 | 11153.7 | 10789.3 | 10202.8 | 9589.5  | 9020.7  | 8792.6  |
| 7619.5  | 30°   | 8034.2  | 8686.0  | 10481.2 | 11527.0 | 11370.0 | 10620.5 | 9814.7  | 9130.3  | 8558.6  | 8318.6  |
| 7690.6  | 32.5° | 8232.7  | 9124.4  | 11384.8 | 12003.9 | 11331.5 | 10262.0 | 9331.8  | 8614.9  | 8111.3  | 7859.4  |
| 7752.8  | 35°   | 8457.9  | 9663.6  | 12240.9 | 12264.6 | 11073.7 | 9734.7  | 8694.9  | 7998.7  | 7560.2  | 7358.8  |
| 7826.9  | 37.5° | 8751.1  | 10347.9 | 12996.4 | 12329.8 | 10623.4 | 8961.5  | 7903.9  | 7269.9  | 6908.5  | 6816.7  |
| 7936.5  | 40°   | 9115.5  | 11171.5 | 13574.1 | 12226.1 | 9956.9  | 8022.4  | 7038.8  | 6532.3  | 6327.8  | 6348.6  |
| 8084.6  | 42.5° | 9589.5  | 12092.8 | 13979.9 | 11959.5 | 9029.6  | 7053.7  | 6280.4  | 6055.3  | 6153.1  | 6236.0  |
| 8306.8  | 45°   | 10205.7 | 13049.7 | 14231.7 | 11506.2 | 7980.9  | 6233.0  | 5833.1  | 5886.4  | 5960.5  | 5969.4  |
| 8665.2  | 47.5° | 10993.7 | 14018.4 | 14397.6 | 10821.9 | 6911.5  | 5655.4  | 5548.7  | 5560.6  | 5545.8  | 5483.5  |
| 9201.4  | 50°   | 11977.3 | 14960.5 | 14545.7 | 9915.4  | 6002.0  | 5293.9  | 5151.7  | 5110.3  | 4905.9  | 4704.4  |
| 9915.4  | 52.5° | 13097.1 | 15825.5 | 14608.0 | 8789.7  | 5293.9  | 4991.8  | 4760.7  | 4500.0  | 4117.8  | 4055.6  |
| 10813.0 | 55°   | 14341.3 | 16625.4 | 14448.0 | 7406.2  | 4698.5  | 4603.7  | 4254.1  | 3940.1  | 3898.6  | 3845.3  |
| 11995.1 | 57.5° | 15828.5 | 17487.5 | 14122.1 | 5862.7  | 4088.2  | 4150.4  | 3809.7  | 3845.3  | 3771.2  | 3688.3  |
| 13514.8 | 60°   | 17454.9 | 18379.2 | 13550.4 | 4455.6  | 3457.2  | 3584.6  | 3694.2  | 3691.2  | 3670.5  | 3602.4  |
| 15117.5 | 62.5° | 18918.4 | 18965.8 | 12424.6 | 3412.8  | 2903.2  | 3146.1  | 3445.4  | 3442.4  | 3424.6  | 3386.1  |
| 16791.3 | 65°   | 19789.3 | 18876.9 | 10546.4 | 2687.0  | 2447.0  | 2784.7  | 3107.6  | 3131.3  | 3134.3  | 3131.3  |
| 18050.4 | 67.5° | 19635.3 | 17837.1 | 7969.1  | 2138.9  | 2070.8  | 2417.4  | 2772.9  | 2805.5  | 2829.2  | 2835.1  |
| 18210.3 | 70°   | 17893.3 | 15553.0 | 5196.2  | 1706.4  | 1736.0  | 2094.5  | 2455.9  | 2488.5  | 2509.2  | 2532.9  |
| 15801.8 | 72.5° | 13947.3 | 11435.1 | 2974.3  | 1380.5  | 1442.7  | 1816.0  | 2141.9  | 2180.4  | 2192.2  | 2236.7  |
| 10996.7 | 75°   | 8499.3  | 6724.8  | 1605.7  | 1087.2  | 1185.0  | 1552.3  | 1830.8  | 1875.2  | 1896.0  | 1949.3  |
| 5400.6  | 77.5° | 4040.8  | 2912.1  | 915.4   | 847.3   | 953.9   | 1267.9  | 1546.4  | 1596.8  | 1540.5  | 1570.1  |
| 1490.1  | 80°   | 1365.7  | 1081.3  | 577.7   | 645.8   | 728.8   | 989.5   | 1238.3  | 1288.7  | 1170.2  | 1164.3  |
| 494.7   | 82.5° | 477.0   | 438.4   | 367.3   | 429.6   | 471.0   | 708.0   | 936.1   | 1001.3  | 871.0   | 868.0   |
| 222.2   | 85°   | 186.6   | 177.7   | 204.4   | 234.0   | 281.4   | 435.5   | 616.2   | 648.8   | 536.2   | 432.5   |
| 65.2    | 87.5° | 38.5    | 41.5    | 50.4    | 53.3    | 85.9    | 151.1   | 222.2   | 272.5   | 216.3   | 183.7   |
| 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> |
|-------------|
| 6387.1      |
| 6627.1      |
| 6976.6      |
| 7379.5      |
| 7838.7      |
| 8363.1      |
| 9008.9      |
| 9711.0      |
| 10093.1     |
| 9894.7      |
| 9361.4      |
| 8819.3      |
| 8345.3      |
| 7892.0      |
| 7403.2      |
| 6881.8      |
| 6419.7      |
| 6313.0      |
| 6028.6      |
| 5530.9      |
| 4731.1      |
| 4076.4      |
| 3854.2      |
| 3673.5      |
| 3578.7      |
| 3371.3      |
| 3131.3      |
| 2841.0      |
| 2544.8      |
| 2254.4      |
| 1955.2      |
| 1546.4      |
| 1152.4      |
| 826.5       |
| 426.6       |
| 168.9       |
| 0.0         |

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