

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: STREETWORKS

Report Number: P850018

Luminaire Tested: **GLAN-SB7B-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7B-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31951 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

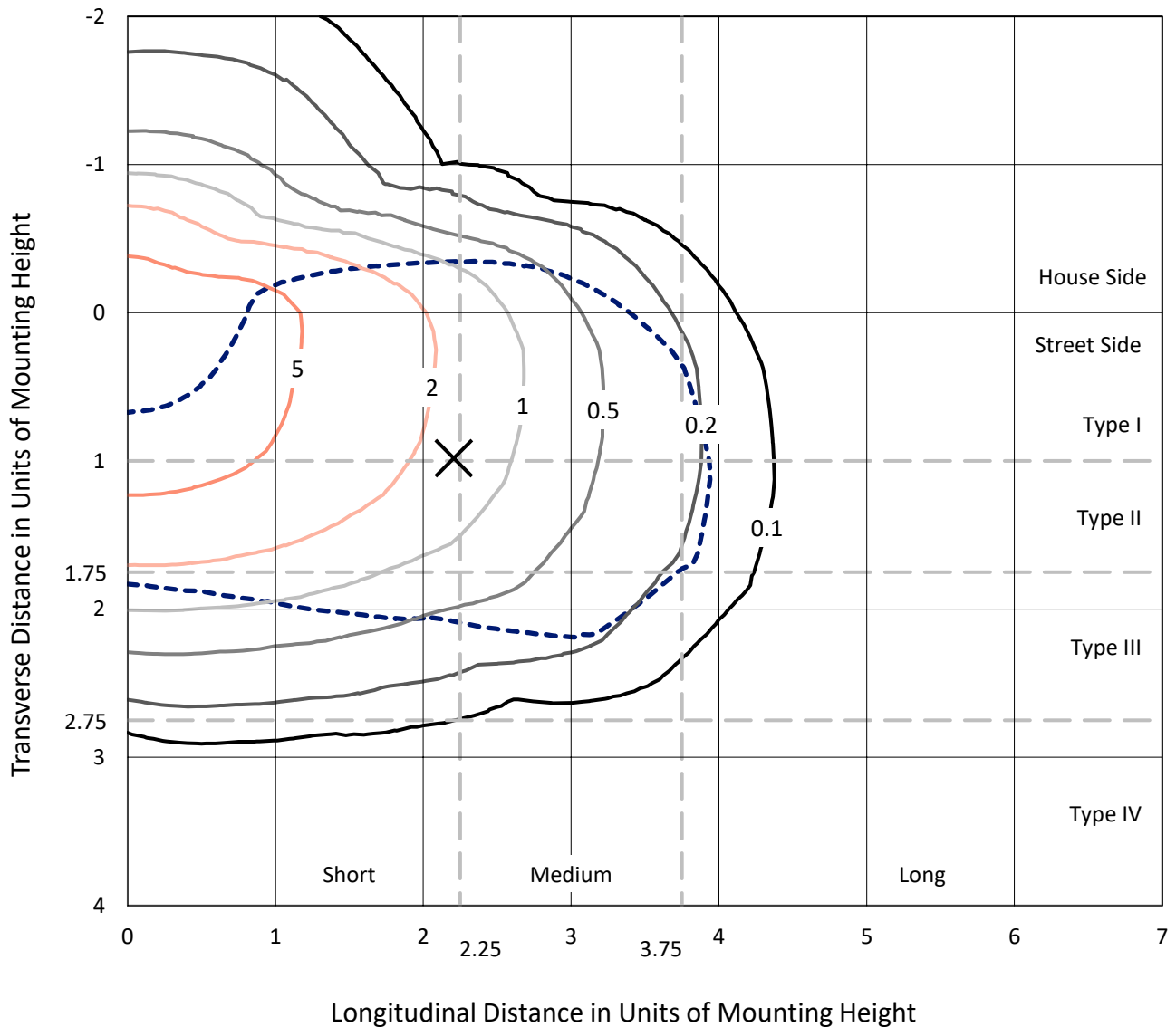
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

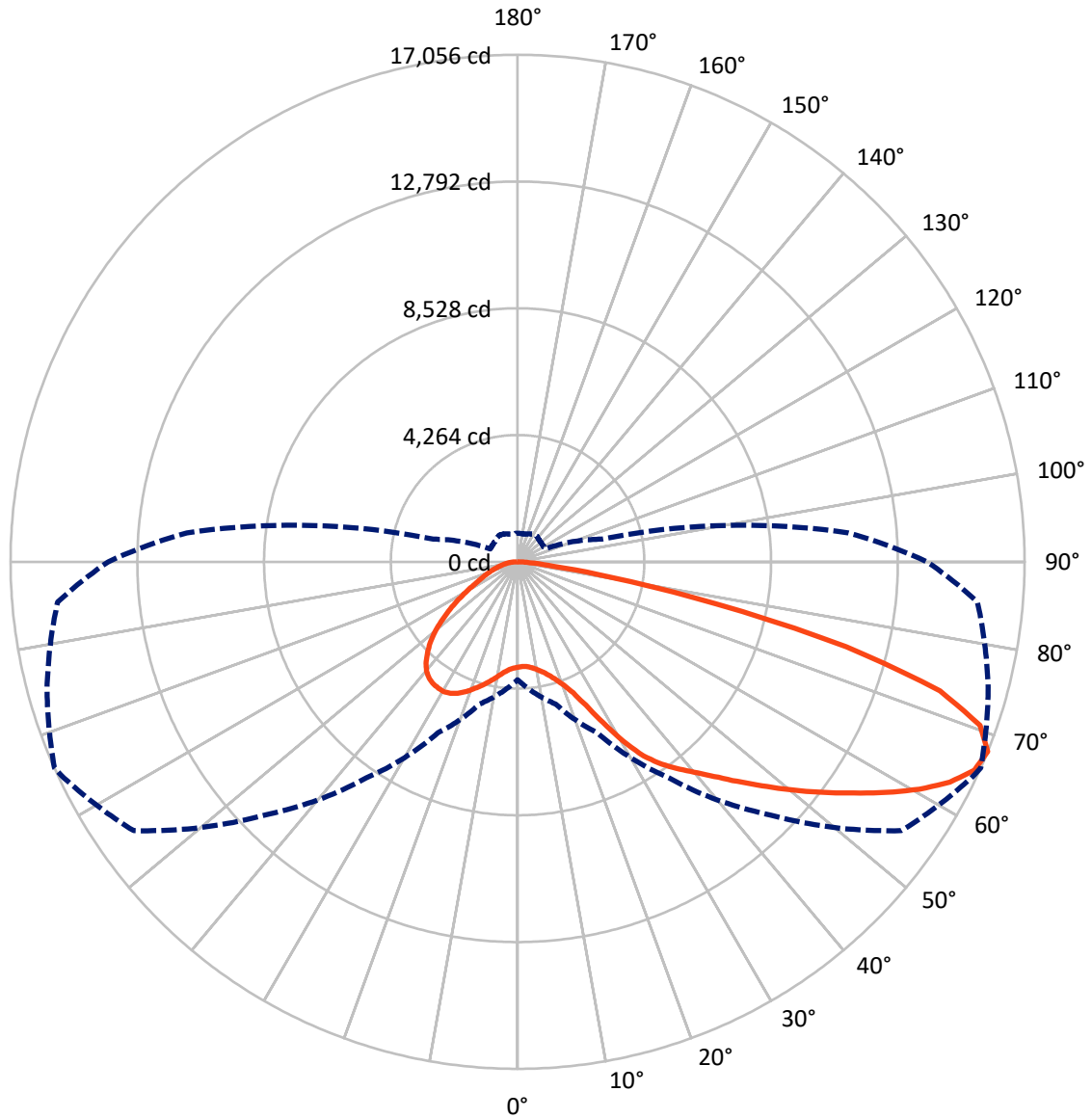
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7944.5 | 0.0 | 7944.5 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 24006.5 | 0.0 | 24006.5 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 31951.0 | 0.0 | 31951.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 351.3 | 1.1 |
| 10°-20° | 1160.8 | 3.6 |
| 20°-30° | 2237.4 | 7.0 |
| 30°-40° | 3923.0 | 12.3 |
| 40°-50° | 5832.2 | 18.3 |
| 50°-60° | 7392.9 | 23.1 |
| 60°-70° | 7233.8 | 22.6 |
| 70°-80° | 3450.6 | 10.8 |
| 80°-90° | 368.8 | 1.2 |
| 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° | 31951.0 | 100.0 |
| 0°-180° | 31951.0 | 100.0 |

Coefficient of Utilization



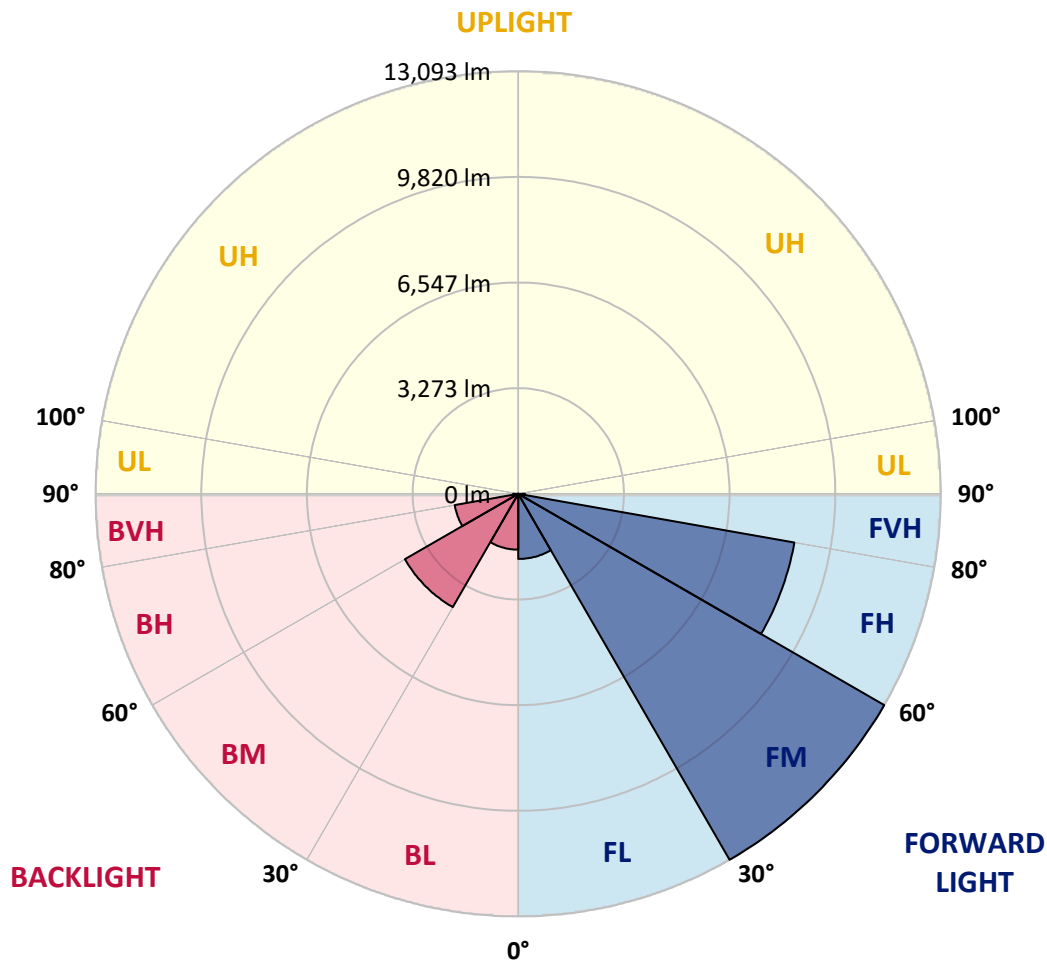
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2019.0 | 6.3 | | | |
| FM | (30°-60°) | 13093.2 | 41.0 | | | |
| FH | (60°-80°) | 8685.2 | 27.2 | | | G4/12000 |
| FVH | (80°-90°) | 209.1 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 1730.6 | 5.4 | B3/2500 | | |
| BM | (30°-60°) | 4055.0 | 12.7 | B3/5000 | | |
| BH | (60°-80°) | 1999.3 | 6.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 159.7 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 |
| 2.5° | 3506.9 | 3527.0 | 3522.0 | 3513.6 | 3511.9 | 3515.2 | 3520.3 | 3525.3 | 3523.6 | 3532.0 |
| 5° | 3496.8 | 3516.9 | 3515.2 | 3515.2 | 3522.0 | 3535.4 | 3543.8 | 3552.2 | 3543.8 | 3553.9 |
| 7.5° | 3503.5 | 3518.6 | 3525.3 | 3532.0 | 3548.8 | 3574.0 | 3594.1 | 3612.6 | 3602.5 | 3614.3 |
| 10° | 3589.1 | 3600.9 | 3607.6 | 3607.6 | 3619.3 | 3647.9 | 3668.0 | 3701.6 | 3693.2 | 3711.7 |
| 12.5° | 3745.2 | 3757.0 | 3757.0 | 3750.3 | 3758.7 | 3777.1 | 3783.8 | 3820.8 | 3805.7 | 3835.9 |
| 15° | 3936.6 | 3960.1 | 3941.6 | 3929.9 | 3933.3 | 3951.7 | 3950.0 | 3978.6 | 3963.5 | 3988.7 |
| 17.5° | 4148.1 | 4178.3 | 4148.1 | 4146.5 | 4139.7 | 4159.9 | 4161.6 | 4186.7 | 4159.9 | 4178.3 |
| 20° | 4398.3 | 4440.2 | 4415.0 | 4423.4 | 4408.3 | 4416.7 | 4425.1 | 4462.1 | 4420.1 | 4433.5 |
| 22.5° | 4750.8 | 4801.2 | 4774.3 | 4806.2 | 4796.1 | 4789.4 | 4787.7 | 4853.2 | 4787.7 | 4792.8 |
| 25° | 5264.5 | 5324.9 | 5277.9 | 5321.6 | 5321.6 | 5343.4 | 5368.6 | 5452.5 | 5343.4 | 5311.5 |
| 27.5° | 6023.3 | 6083.7 | 5991.4 | 6018.2 | 6009.8 | 6063.6 | 6036.7 | 6244.9 | 6127.3 | 6075.3 |
| 30° | 6936.5 | 7043.9 | 6869.3 | 6862.6 | 6854.2 | 6939.8 | 6978.5 | 7116.1 | 6996.9 | 6944.9 |
| 32.5° | 7923.6 | 8036.1 | 7827.9 | 7767.5 | 7735.6 | 7787.6 | 7755.7 | 7866.5 | 7784.2 | 7703.7 |
| 35° | 8967.7 | 9078.5 | 8880.5 | 8762.9 | 8635.4 | 8526.2 | 8412.1 | 8440.6 | 8363.4 | 8240.9 |
| 37.5° | 9954.8 | 10158.0 | 9948.1 | 9822.2 | 9587.2 | 9374.0 | 9055.0 | 8922.4 | 8850.2 | 8737.8 |
| 40° | 10960.4 | 11076.2 | 10916.7 | 10809.3 | 10554.1 | 10220.1 | 9709.7 | 9429.4 | 9332.0 | 9222.9 |
| 42.5° | 11700.7 | 11811.5 | 11725.9 | 11652.0 | 11452.3 | 11064.5 | 10404.7 | 10053.9 | 9912.9 | 9790.3 |
| 45° | 12288.3 | 12370.5 | 12316.8 | 12343.7 | 12258.0 | 11882.0 | 11124.9 | 10723.7 | 10577.6 | 10428.2 |
| 47.5° | 12525.0 | 12612.3 | 12697.9 | 12857.4 | 13003.4 | 12726.4 | 11898.8 | 11448.9 | 11294.5 | 11141.7 |
| 50° | 12498.1 | 12587.1 | 12835.5 | 13174.6 | 13627.9 | 13535.6 | 12714.7 | 12221.1 | 12078.4 | 11903.8 |
| 52.5° | 12283.2 | 12384.0 | 12702.9 | 13267.0 | 13988.8 | 14141.6 | 13545.6 | 13018.5 | 12884.2 | 12676.1 |
| 55° | 11719.2 | 11779.6 | 12258.0 | 13057.1 | 14074.4 | 14564.6 | 14359.8 | 13867.9 | 13733.6 | 13443.2 |
| 57.5° | 10673.3 | 10760.6 | 11457.3 | 12491.4 | 13859.6 | 14851.7 | 15074.9 | 14761.0 | 14631.8 | 14213.8 |
| 60° | 9308.5 | 9447.9 | 10245.3 | 11541.2 | 13312.3 | 14850.0 | 15724.6 | 15639.0 | 15531.6 | 14972.5 |
| 62.5° | 7764.1 | 7925.3 | 8692.4 | 10198.3 | 12355.4 | 14428.6 | 16130.9 | 16374.3 | 16318.9 | 15672.6 |
| 65° | 5962.8 | 6073.6 | 6837.4 | 8460.8 | 10866.4 | 13523.8 | 16177.9 | 16876.2 | 16886.3 | 16204.7 |
| 67.5° | 3970.2 | 4289.1 | 4952.2 | 6348.9 | 8872.1 | 12044.9 | 15764.9 | 16958.5 | 17055.8 | 16387.7 |
| 70° | 1937.2 | 2356.9 | 3006.6 | 4126.3 | 6348.9 | 9776.9 | 14685.5 | 16283.6 | 16500.2 | 15853.9 |
| 72.5° | 804.1 | 940.1 | 1294.3 | 2036.3 | 3644.5 | 6597.4 | 12516.6 | 14453.8 | 14855.0 | 14047.6 |
| 75° | 542.2 | 587.6 | 740.3 | 1044.2 | 1660.3 | 3253.4 | 9026.5 | 10777.4 | 11423.7 | 10609.5 |
| 77.5° | 418.0 | 446.5 | 538.9 | 730.2 | 987.1 | 1230.5 | 4831.4 | 6495.0 | 6829.1 | 6322.1 |
| 80° | 329.0 | 350.9 | 402.9 | 532.2 | 700.0 | 658.1 | 1646.8 | 2942.8 | 3135.9 | 2630.6 |
| 82.5° | 285.4 | 293.8 | 288.7 | 360.9 | 465.0 | 384.4 | 540.5 | 1086.1 | 1198.6 | 869.6 |
| 85° | 206.5 | 230.0 | 240.1 | 223.3 | 246.8 | 194.7 | 221.6 | 384.4 | 423.0 | 377.7 |
| 87.5° | 83.9 | 124.2 | 152.8 | 144.4 | 90.7 | 55.4 | 68.8 | 112.5 | 129.3 | 141.0 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3543.8 | 0° | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 | 3543.8 |
| 3545.5 | 2.5° | 3547.1 | 3558.9 | 3567.3 | 3577.4 | 3584.1 | 3594.1 | 3614.3 | 3626.0 | 3627.7 | 3636.1 |
| 3572.3 | 5° | 3579.0 | 3595.8 | 3614.3 | 3641.2 | 3671.4 | 3696.6 | 3735.2 | 3762.0 | 3772.1 | 3780.5 |
| 3637.8 | 7.5° | 3647.9 | 3671.4 | 3704.9 | 3752.0 | 3795.6 | 3829.2 | 3876.2 | 3908.1 | 3940.0 | 3951.7 |
| 3741.9 | 10° | 3750.3 | 3783.8 | 3832.5 | 3896.3 | 3943.3 | 3987.0 | 4035.7 | 4062.5 | 4094.4 | 4107.8 |
| 3866.1 | 12.5° | 3877.9 | 3913.1 | 3976.9 | 4065.9 | 4109.5 | 4139.7 | 4156.5 | 4149.8 | 4156.5 | 4168.3 |
| 4015.5 | 15° | 4023.9 | 4062.5 | 4134.7 | 4230.4 | 4260.6 | 4233.7 | 4196.8 | 4163.2 | 4158.2 | 4161.6 |
| 4196.8 | 17.5° | 4196.8 | 4225.4 | 4309.3 | 4389.9 | 4368.0 | 4257.2 | 4176.7 | 4122.9 | 4096.1 | 4087.7 |
| 4428.5 | 20° | 4438.5 | 4438.5 | 4507.4 | 4557.7 | 4411.7 | 4223.7 | 4097.8 | 4010.5 | 3955.1 | 3931.6 |
| 4744.1 | 22.5° | 4732.3 | 4705.5 | 4749.1 | 4713.9 | 4403.3 | 4129.7 | 3955.1 | 3804.0 | 3720.1 | 3686.5 |
| 5185.6 | 25° | 5105.0 | 5073.1 | 5061.4 | 4843.1 | 4342.9 | 3980.3 | 3696.6 | 3513.6 | 3439.7 | 3421.2 |
| 5821.8 | 27.5° | 5667.4 | 5586.8 | 5434.0 | 4913.6 | 4232.1 | 3745.2 | 3394.4 | 3224.8 | 3182.9 | 3184.5 |
| 6639.4 | 30° | 6416.1 | 6254.9 | 5880.6 | 4925.4 | 4050.8 | 3412.8 | 3085.5 | 2964.6 | 2944.5 | 2952.9 |
| 7326.0 | 32.5° | 7109.4 | 6956.6 | 6337.2 | 4871.7 | 3772.1 | 3087.2 | 2808.5 | 2727.9 | 2697.7 | 2707.8 |
| 7849.7 | 35° | 7653.3 | 7611.3 | 6760.2 | 4796.1 | 3429.6 | 2781.6 | 2560.1 | 2491.2 | 2432.5 | 2419.0 |
| 8343.3 | 37.5° | 8167.0 | 8150.2 | 7077.5 | 4690.4 | 3090.5 | 2565.1 | 2360.3 | 2269.6 | 2184.0 | 2137.0 |
| 8888.8 | 40° | 8731.0 | 8714.3 | 7285.7 | 4527.5 | 2790.0 | 2377.1 | 2180.7 | 2061.5 | 1955.7 | 1870.1 |
| 9506.6 | 42.5° | 9365.6 | 9266.6 | 7384.7 | 4294.2 | 2534.9 | 2217.6 | 2034.6 | 1873.5 | 1734.1 | 1655.2 |
| 10205.0 | 45° | 10058.9 | 9835.6 | 7383.0 | 3997.0 | 2320.0 | 2071.5 | 1878.5 | 1650.2 | 1520.9 | 1447.1 |
| 10921.8 | 47.5° | 10794.2 | 10379.6 | 7292.4 | 3668.0 | 2111.8 | 1910.4 | 1636.8 | 1462.2 | 1376.6 | 1331.2 |
| 11700.7 | 50° | 11553.0 | 10888.2 | 7137.9 | 3290.3 | 1898.6 | 1727.4 | 1485.7 | 1366.5 | 1301.0 | 1259.0 |
| 12472.9 | 52.5° | 12266.4 | 11349.9 | 6951.6 | 2862.2 | 1682.1 | 1549.5 | 1418.5 | 1326.2 | 1257.4 | 1210.4 |
| 13221.6 | 55° | 12929.5 | 11747.7 | 6688.0 | 2424.1 | 1505.8 | 1430.3 | 1386.6 | 1309.4 | 1230.5 | 1175.1 |
| 13982.1 | 57.5° | 13518.8 | 12006.2 | 6233.1 | 2012.8 | 1379.9 | 1348.0 | 1353.1 | 1280.9 | 1190.2 | 1143.2 |
| 14730.8 | 60° | 14009.0 | 12195.9 | 5559.9 | 1631.7 | 1277.5 | 1267.4 | 1301.0 | 1227.1 | 1121.4 | 1067.7 |
| 15363.7 | 62.5° | 14302.7 | 12192.6 | 4734.0 | 1336.3 | 1190.2 | 1193.6 | 1232.2 | 1160.0 | 1052.6 | 1002.2 |
| 15694.4 | 65° | 14277.6 | 11893.8 | 3827.5 | 1143.2 | 1106.3 | 1109.6 | 1160.0 | 1086.1 | 995.5 | 965.3 |
| 15528.2 | 67.5° | 13772.3 | 11165.2 | 2936.1 | 1017.3 | 1013.9 | 1029.1 | 1087.8 | 1035.8 | 960.2 | 956.9 |
| 14537.8 | 70° | 12404.1 | 9652.7 | 2115.2 | 916.6 | 918.3 | 940.1 | 1017.3 | 1003.9 | 941.8 | 948.5 |
| 12222.8 | 72.5° | 9946.4 | 7359.5 | 1420.2 | 810.8 | 812.5 | 847.8 | 950.2 | 978.7 | 923.3 | 1012.3 |
| 8672.3 | 75° | 6624.2 | 4589.6 | 913.2 | 698.3 | 700.0 | 745.4 | 891.4 | 930.0 | 872.9 | 1008.9 |
| 4512.4 | 77.5° | 3182.9 | 2063.2 | 661.4 | 587.6 | 587.6 | 629.5 | 770.5 | 832.6 | 743.7 | 784.0 |
| 1450.4 | 80° | 1099.6 | 775.6 | 520.4 | 473.4 | 463.3 | 491.9 | 649.7 | 721.9 | 641.3 | 590.9 |
| 473.4 | 82.5° | 433.1 | 402.9 | 418.0 | 367.6 | 334.1 | 352.5 | 505.3 | 595.9 | 471.7 | 426.4 |
| 266.9 | 85° | 248.5 | 261.9 | 295.5 | 243.4 | 193.1 | 216.6 | 371.0 | 428.1 | 355.9 | 313.9 |
| 87.3 | 87.5° | 67.1 | 92.3 | 136.0 | 125.9 | 87.3 | 92.3 | 176.3 | 236.7 | 204.8 | 157.8 |
| 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> |
|-------------|
| 3543.8 |
| 3634.4 |
| 3778.8 |
| 3953.4 |
| 4114.6 |
| 4171.6 |
| 4173.3 |
| 4099.4 |
| 3926.5 |
| 3681.4 |
| 3424.6 |
| 3189.6 |
| 2981.4 |
| 2721.2 |
| 2429.1 |
| 2138.7 |
| 1878.5 |
| 1660.3 |
| 1443.7 |
| 1321.2 |
| 1243.9 |
| 1190.2 |
| 1153.3 |
| 1113.0 |
| 1044.2 |
| 987.1 |
| 963.6 |
| 961.9 |
| 946.8 |
| 1025.7 |
| 1017.3 |
| 718.5 |
| 554.0 |
| 424.7 |
| 320.6 |
| 162.8 |
| 0.0 |

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