

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: P955642

Luminaire Tested: **GALN-SB8C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65773 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

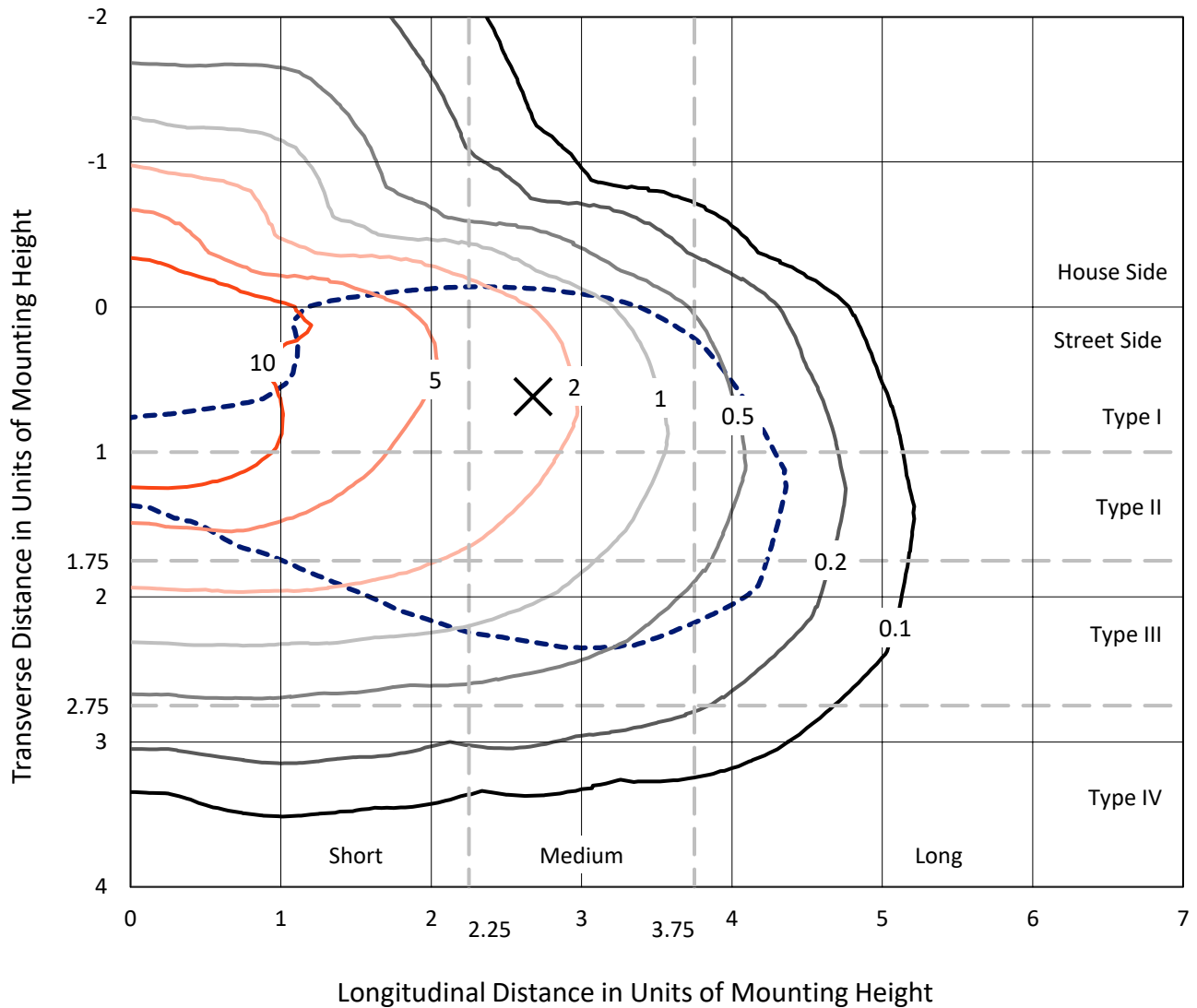
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

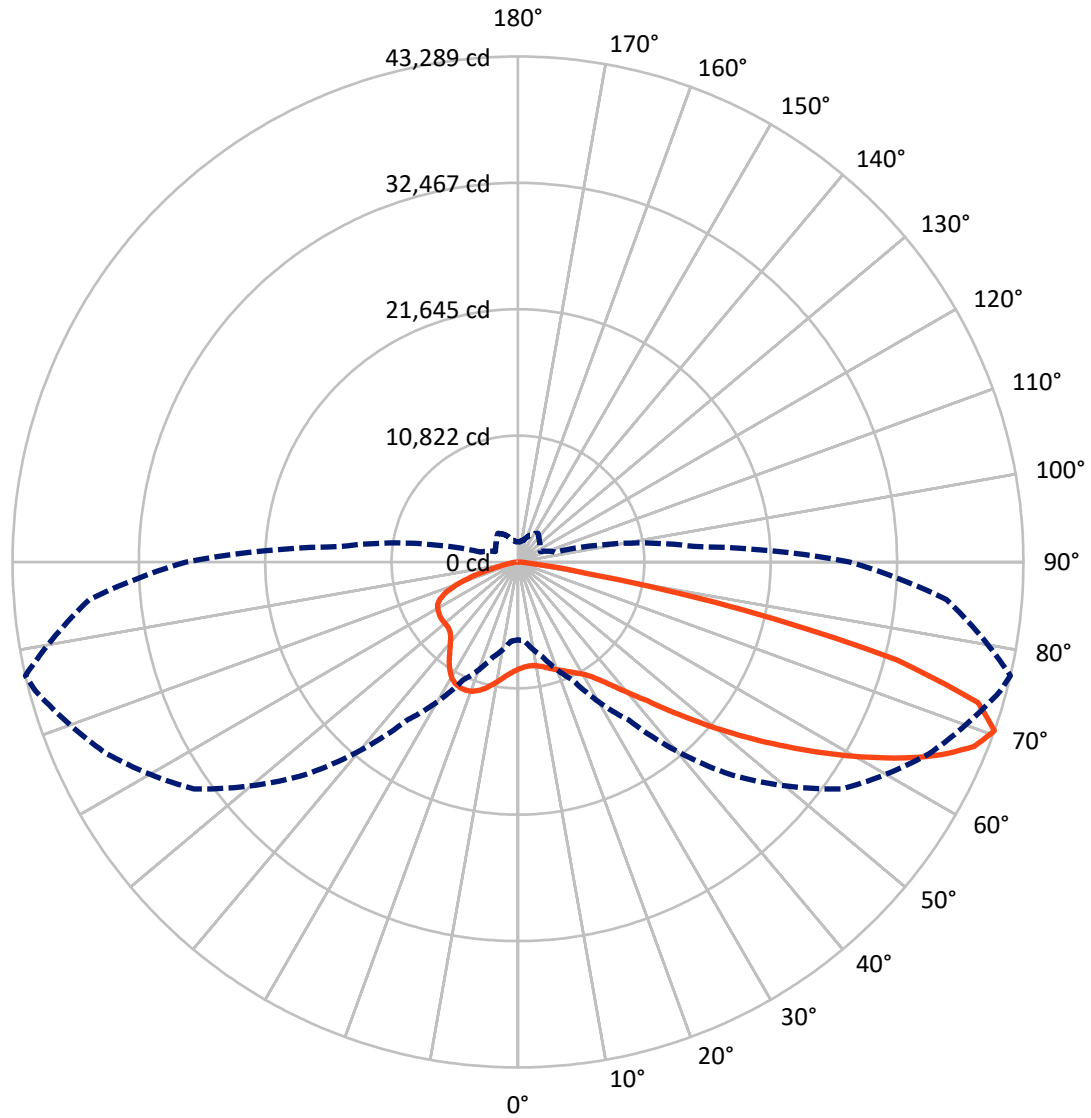
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14403.3 | 0.0 | 14403.3 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 51369.7 | 0.0 | 51369.7 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 65773.0 | 0.0 | 65773.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 875.1 | 1.3 |
| 10°-20° | 2525.7 | 3.8 |
| 20°-30° | 4319.4 | 6.6 |
| 30°-40° | 6946.0 | 10.6 |
| 40°-50° | 10844.5 | 16.5 |
| 50°-60° | 14485.6 | 22.0 |
| 60°-70° | 15439.4 | 23.5 |
| 70°-80° | 9504.4 | 14.5 |
| 80°-90° | 832.9 | 1.3 |
| 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° | 65773.0 | 100.0 |
| 0°-180° | 65773.0 | 100.0 |

Coefficient of Utilization



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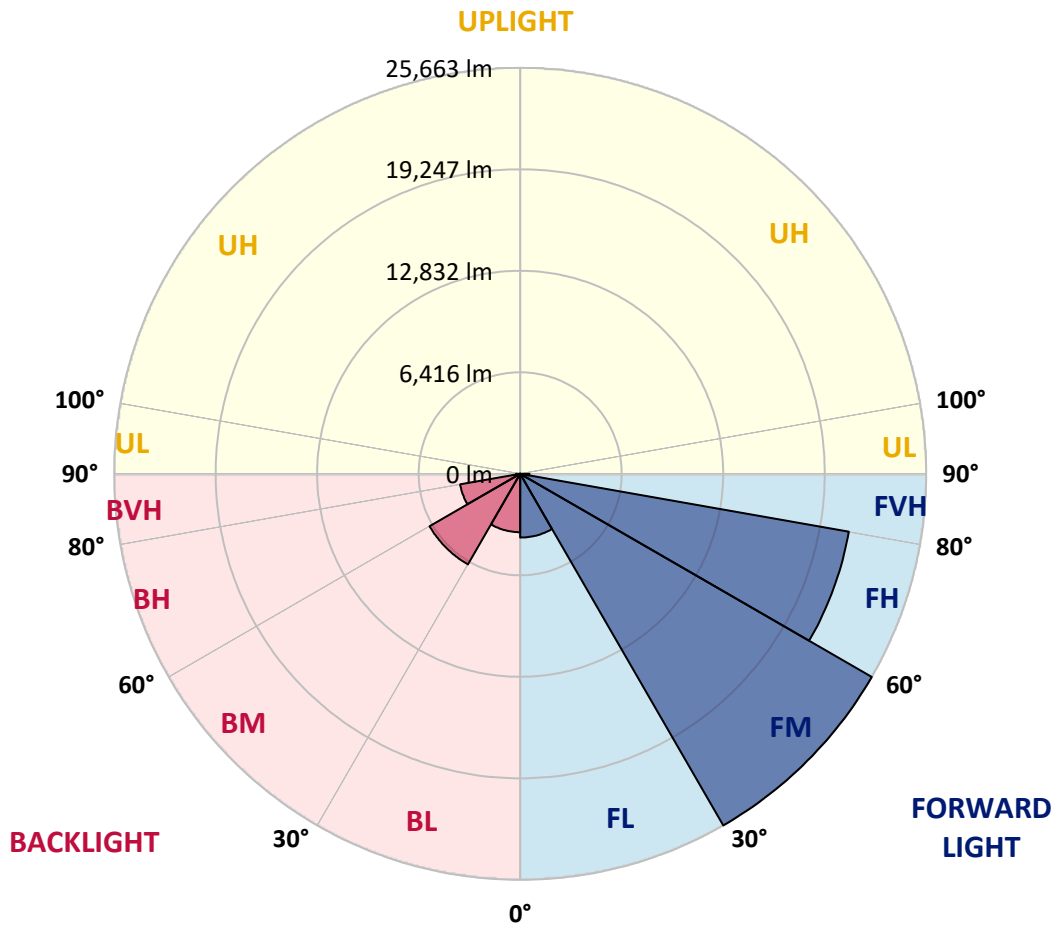
CATALOG NUMBER: GALN-SB8C-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4029.7 | 6.1 | | | |
| FM (30°-60°) | 25663.2 | 39.0 | | | |
| FH (60°-80°) | 21094.5 | 32.1 | | | G5 |
| FVH (80°-90°) | 582.4 | 0.9 | | | G4/750 |
| BL (0°-30°) | 3690.6 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 6612.9 | 10.1 | B4/8500 | | |
| BH (60°-80°) | 3849.4 | 5.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 250.5 | 0.4 | | | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 |
| 2.5° | 8458.4 | 8455.1 | 8498.9 | 8512.3 | 8593.2 | 8650.4 | 8758.2 | 8872.8 | 9021.0 | 9037.8 |
| 5° | 7970.0 | 7970.0 | 8020.5 | 8074.4 | 8178.8 | 8293.4 | 8458.4 | 8657.2 | 8913.2 | 8953.6 |
| 7.5° | 7555.7 | 7582.6 | 7626.4 | 7730.8 | 7852.1 | 8017.2 | 8269.8 | 8552.8 | 8889.6 | 8953.6 |
| 10° | 7222.2 | 7252.5 | 7306.4 | 7390.6 | 7572.5 | 7801.6 | 8131.7 | 8495.5 | 8946.9 | 9047.9 |
| 12.5° | 7117.7 | 7148.1 | 7178.4 | 7242.4 | 7410.8 | 7680.3 | 8074.4 | 8522.4 | 9085.0 | 9186.0 |
| 15° | 7360.3 | 7397.3 | 7373.8 | 7356.9 | 7444.5 | 7690.4 | 8101.4 | 8620.1 | 9256.8 | 9401.6 |
| 17.5° | 7919.5 | 7932.9 | 7879.0 | 7720.7 | 7707.2 | 7838.6 | 8229.4 | 8754.9 | 9472.4 | 9630.7 |
| 20° | 8822.2 | 8798.7 | 8687.5 | 8374.2 | 8195.7 | 8168.7 | 8448.3 | 8957.0 | 9694.7 | 9863.1 |
| 22.5° | 10048.4 | 10021.4 | 9799.1 | 9303.9 | 8906.4 | 8643.7 | 8765.0 | 9219.7 | 9944.0 | 10132.6 |
| 25° | 11577.7 | 11540.7 | 11213.9 | 10540.2 | 9923.8 | 9273.6 | 9196.1 | 9566.7 | 10250.5 | 10425.7 |
| 27.5° | 13363.0 | 13332.7 | 12979.0 | 12089.7 | 11200.4 | 10136.0 | 9731.7 | 9974.3 | 10570.5 | 10769.3 |
| 30° | 15283.1 | 15370.7 | 14744.1 | 13787.5 | 12662.4 | 11261.1 | 10452.6 | 10476.2 | 10984.8 | 11163.4 |
| 32.5° | 17540.0 | 17691.6 | 16937.1 | 15724.4 | 14188.3 | 12483.9 | 11362.1 | 11176.9 | 11587.8 | 11736.0 |
| 35° | 19776.8 | 19948.6 | 19322.0 | 17981.3 | 16212.8 | 13925.6 | 12312.1 | 11981.9 | 12389.5 | 12551.2 |
| 37.5° | 21710.3 | 21939.4 | 21616.0 | 20450.5 | 18378.8 | 15663.8 | 13551.7 | 12928.5 | 13376.5 | 13578.6 |
| 40° | 23236.3 | 23586.6 | 23563.0 | 22835.4 | 20932.2 | 17772.5 | 15124.8 | 14097.4 | 14602.7 | 14821.6 |
| 42.5° | 24475.9 | 24779.1 | 25041.8 | 25004.8 | 23596.7 | 20167.5 | 16974.1 | 15616.6 | 16000.6 | 16253.3 |
| 45° | 25331.5 | 25654.9 | 26220.8 | 26830.5 | 26160.2 | 22731.0 | 19092.9 | 17418.8 | 17769.1 | 18149.8 |
| 47.5° | 26096.2 | 26463.3 | 27197.7 | 28164.5 | 28336.3 | 25304.6 | 21413.9 | 19517.4 | 19837.4 | 20231.5 |
| 50° | 26163.5 | 26480.2 | 27618.8 | 28989.8 | 29882.4 | 27777.1 | 23906.6 | 21872.0 | 22171.8 | 22592.9 |
| 52.5° | 24536.5 | 25035.1 | 27022.5 | 28966.2 | 30593.2 | 29845.4 | 26382.5 | 24320.9 | 24657.8 | 25163.1 |
| 55° | 19045.8 | 19776.8 | 25274.2 | 28063.4 | 30340.5 | 31182.7 | 28737.1 | 26924.8 | 27356.0 | 27884.9 |
| 57.5° | 16404.8 | 16724.9 | 20063.1 | 26419.5 | 29188.5 | 31529.6 | 30724.6 | 29555.7 | 30249.6 | 30829.0 |
| 60° | 14744.1 | 15010.3 | 16984.2 | 23862.8 | 27672.6 | 30980.6 | 32260.6 | 32008.0 | 33207.2 | 33897.7 |
| 62.5° | 12965.6 | 13218.2 | 15013.6 | 19925.0 | 25732.4 | 30067.7 | 33230.8 | 34271.6 | 36238.9 | 36993.4 |
| 65° | 11200.4 | 11416.0 | 13137.3 | 16741.7 | 23266.6 | 29154.8 | 33732.7 | 36228.8 | 39044.9 | 39826.4 |
| 67.5° | 9233.2 | 9411.7 | 11038.7 | 14124.3 | 20268.6 | 27905.1 | 33981.9 | 37768.2 | 41487.1 | 42157.4 |
| 70° | 6663.0 | 6801.1 | 8482.0 | 11170.1 | 16505.9 | 25755.9 | 33880.9 | 38859.6 | 42753.7 | 43289.3 |
| 72.5° | 3149.6 | 3274.2 | 5248.2 | 7252.5 | 11658.6 | 21572.2 | 31836.2 | 37993.9 | 41466.9 | 41200.7 |
| 75° | 1680.9 | 1788.7 | 3014.9 | 3978.3 | 6157.7 | 14787.9 | 26052.4 | 32728.8 | 34820.7 | 33527.2 |
| 77.5° | 1138.6 | 1222.8 | 1866.2 | 2388.3 | 2812.7 | 7020.1 | 16745.1 | 22660.2 | 21801.3 | 19665.6 |
| 80° | 902.8 | 990.4 | 1529.3 | 1616.9 | 1360.9 | 2536.5 | 6919.0 | 10489.7 | 7535.4 | 6026.3 |
| 82.5° | 693.9 | 791.6 | 1286.8 | 1172.3 | 741.1 | 1040.9 | 2014.4 | 3318.0 | 1930.2 | 1468.7 |
| 85° | 424.4 | 528.9 | 1010.6 | 747.8 | 417.7 | 475.0 | 683.8 | 923.0 | 589.5 | 491.8 |
| 87.5° | 215.6 | 303.2 | 512.0 | 272.9 | 188.6 | 111.2 | 181.9 | 181.9 | 155.0 | 134.7 |
| 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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 CATALOG NUMBER: GALN-SB8C-740-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9175.9 | 0° | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 | 9175.9 |
| 9128.8 | 2.5° | 9209.6 | 9277.0 | 9391.5 | 9499.3 | 9583.5 | 9664.4 | 9745.2 | 9789.0 | 9802.5 | 9856.4 |
| 9179.3 | 5° | 9317.4 | 9442.0 | 9664.4 | 9873.2 | 10004.6 | 10085.4 | 10142.7 | 10176.4 | 10183.1 | 10200.0 |
| 9317.4 | 7.5° | 9516.2 | 9714.9 | 10024.8 | 10233.7 | 10331.3 | 10324.6 | 10301.0 | 10216.8 | 10183.1 | 10152.8 |
| 9519.5 | 10° | 9795.7 | 10058.5 | 10439.1 | 10584.0 | 10523.4 | 10361.7 | 10152.8 | 9906.9 | 9792.4 | 9681.2 |
| 9795.7 | 12.5° | 10142.7 | 10476.2 | 10850.1 | 10843.4 | 10543.6 | 10129.2 | 9644.2 | 9266.9 | 9027.7 | 8855.9 |
| 10136.0 | 15° | 10563.8 | 10947.8 | 11234.1 | 11005.1 | 10348.2 | 9603.7 | 8893.0 | 8401.2 | 8185.6 | 7996.9 |
| 10479.6 | 17.5° | 10998.3 | 11409.3 | 11540.7 | 10954.5 | 9856.4 | 8825.6 | 8020.5 | 7633.1 | 7420.9 | 7319.9 |
| 10850.1 | 20° | 11422.8 | 11830.4 | 11722.6 | 10664.8 | 9108.6 | 7943.0 | 7225.5 | 7013.3 | 6969.5 | 6993.1 |
| 11210.5 | 22.5° | 11870.8 | 12234.6 | 11759.6 | 10105.7 | 8155.3 | 7040.3 | 6646.2 | 6652.9 | 6750.6 | 6821.3 |
| 11587.8 | 25° | 12328.9 | 12574.8 | 11661.9 | 9297.2 | 7131.2 | 6376.7 | 6279.0 | 6386.8 | 6578.8 | 6716.9 |
| 12012.3 | 27.5° | 12770.2 | 12878.0 | 11449.7 | 8296.7 | 6252.0 | 5901.7 | 5918.5 | 6140.9 | 6430.6 | 6622.6 |
| 12527.6 | 30° | 13268.7 | 13147.5 | 11042.1 | 7171.6 | 5642.3 | 5494.1 | 5635.6 | 5895.0 | 6184.7 | 6356.5 |
| 13177.8 | 32.5° | 13831.3 | 13379.9 | 10395.3 | 6130.8 | 5211.1 | 5167.4 | 5399.8 | 5568.2 | 5696.2 | 5746.7 |
| 14040.1 | 35° | 14531.9 | 13706.6 | 9566.7 | 5399.8 | 4823.8 | 4928.2 | 5150.5 | 5066.3 | 5015.8 | 4988.8 |
| 15198.9 | 37.5° | 15441.4 | 14147.9 | 8596.5 | 4924.8 | 4510.5 | 4756.4 | 4847.3 | 4584.6 | 4385.9 | 4288.2 |
| 16603.6 | 40° | 16536.2 | 14794.7 | 7663.5 | 4557.6 | 4311.7 | 4608.2 | 4449.9 | 4133.2 | 3880.6 | 3742.5 |
| 18183.4 | 42.5° | 17752.3 | 15471.8 | 6878.6 | 4281.4 | 4200.6 | 4486.9 | 4156.8 | 3779.5 | 3371.9 | 3328.1 |
| 20066.5 | 45° | 19028.9 | 16169.0 | 6343.0 | 4069.2 | 4146.7 | 4382.5 | 3988.4 | 3378.7 | 3089.0 | 3267.5 |
| 21956.2 | 47.5° | 20305.6 | 16809.1 | 6019.6 | 3910.9 | 4119.7 | 4264.6 | 3840.1 | 3156.3 | 2950.9 | 3210.2 |
| 23980.7 | 50° | 21727.2 | 17381.7 | 5874.8 | 3796.4 | 4089.4 | 4217.4 | 3617.8 | 3099.1 | 2806.0 | 2977.8 |
| 26076.0 | 52.5° | 23138.6 | 17826.4 | 5767.0 | 3681.8 | 4045.6 | 4180.4 | 3510.0 | 3031.7 | 2630.8 | 2640.9 |
| 28184.7 | 55° | 24546.6 | 18116.1 | 5649.1 | 3530.2 | 3947.9 | 4099.5 | 3499.9 | 2957.6 | 2499.5 | 2452.3 |
| 30414.6 | 57.5° | 26049.0 | 18281.1 | 5504.2 | 3361.8 | 3779.5 | 3894.0 | 3489.8 | 2900.3 | 2459.0 | 2381.6 |
| 32695.2 | 60° | 27578.3 | 18523.7 | 5315.6 | 3156.3 | 3553.8 | 3648.1 | 3466.2 | 2880.1 | 2435.5 | 2304.1 |
| 34844.3 | 62.5° | 28949.3 | 18607.9 | 5089.9 | 2961.0 | 3264.1 | 3405.6 | 3415.7 | 2863.3 | 2371.5 | 2145.8 |
| 36629.6 | 65° | 29848.7 | 18244.1 | 4695.8 | 2738.6 | 2950.9 | 3156.3 | 3318.0 | 2806.0 | 2256.9 | 2031.2 |
| 37512.2 | 67.5° | 29811.7 | 17206.6 | 4079.3 | 2452.3 | 2647.7 | 2880.1 | 3176.5 | 2708.3 | 2118.8 | 1889.8 |
| 36845.2 | 70° | 28423.8 | 15158.5 | 3297.8 | 2118.8 | 2314.2 | 2583.7 | 2994.6 | 2563.5 | 1953.8 | 1734.8 |
| 32762.5 | 72.5° | 24378.2 | 11864.0 | 2395.0 | 1728.1 | 1926.8 | 2277.1 | 2758.8 | 2388.3 | 1785.3 | 1596.7 |
| 24213.1 | 75° | 17415.4 | 7508.5 | 1623.6 | 1327.2 | 1499.0 | 1930.2 | 2465.8 | 2182.8 | 1630.4 | 1603.4 |
| 12126.8 | 77.5° | 8896.3 | 3587.5 | 1074.6 | 970.1 | 1044.3 | 1522.6 | 2071.7 | 1950.4 | 1654.0 | 1323.8 |
| 3449.4 | 80° | 2893.6 | 1323.8 | 677.1 | 660.2 | 693.9 | 1013.9 | 1603.4 | 1600.1 | 1253.1 | 899.4 |
| 835.4 | 82.5° | 923.0 | 569.3 | 441.3 | 424.4 | 407.6 | 636.7 | 1118.4 | 1266.6 | 845.5 | 569.3 |
| 299.8 | 85° | 367.2 | 340.2 | 259.4 | 239.2 | 171.8 | 299.8 | 586.1 | 842.1 | 629.9 | 411.0 |
| 77.5 | 87.5° | 134.7 | 134.7 | 70.7 | 50.5 | 37.1 | 101.1 | 158.3 | 252.6 | 360.4 | 212.2 |
| 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> |
|---------------|
| 9175.9 |
| 9886.7 |
| 10226.9 |
| 10159.6 |
| 9647.5 |
| 8815.5 |
| 7976.7 |
| 7350.2 |
| 6983.0 |
| 6838.2 |
| 6753.9 |
| 6669.7 |
| 6396.9 |
| 5773.7 |
| 5015.8 |
| 4311.7 |
| 3752.6 |
| 3371.9 |
| 3361.8 |
| 3331.5 |
| 3105.8 |
| 2711.7 |
| 2486.0 |
| 2391.7 |
| 2314.2 |
| 2145.8 |
| 2031.2 |
| 1899.9 |
| <i>1755.0</i> |
| 1586.6 |
| 1512.5 |
| 1179.0 |
| 795.0 |
| 565.9 |
| 421.1 |
| 208.9 |
| 0.0 |

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