

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: P944147

Luminaire Tested: **GALN-SB8D-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57281 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

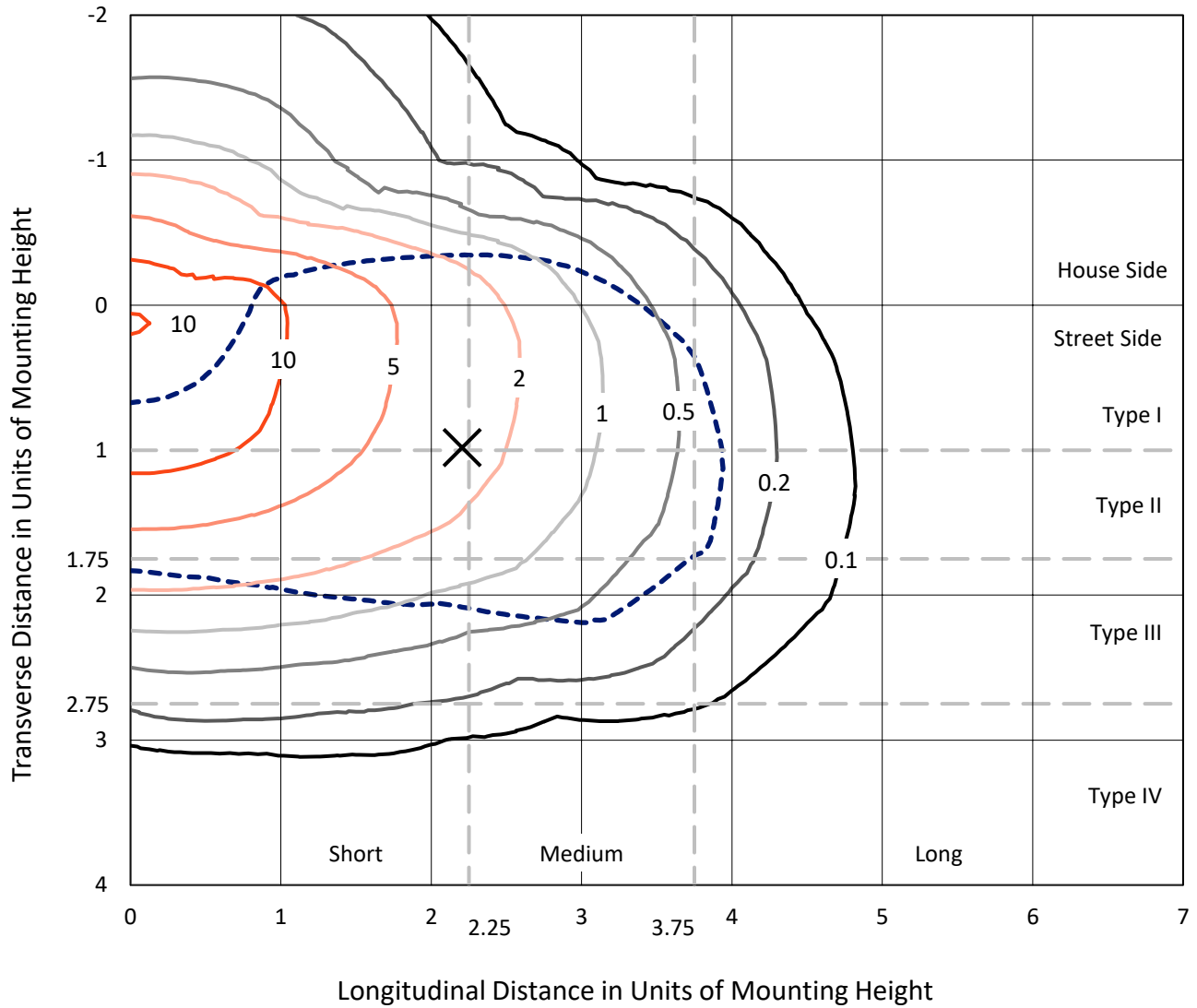
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

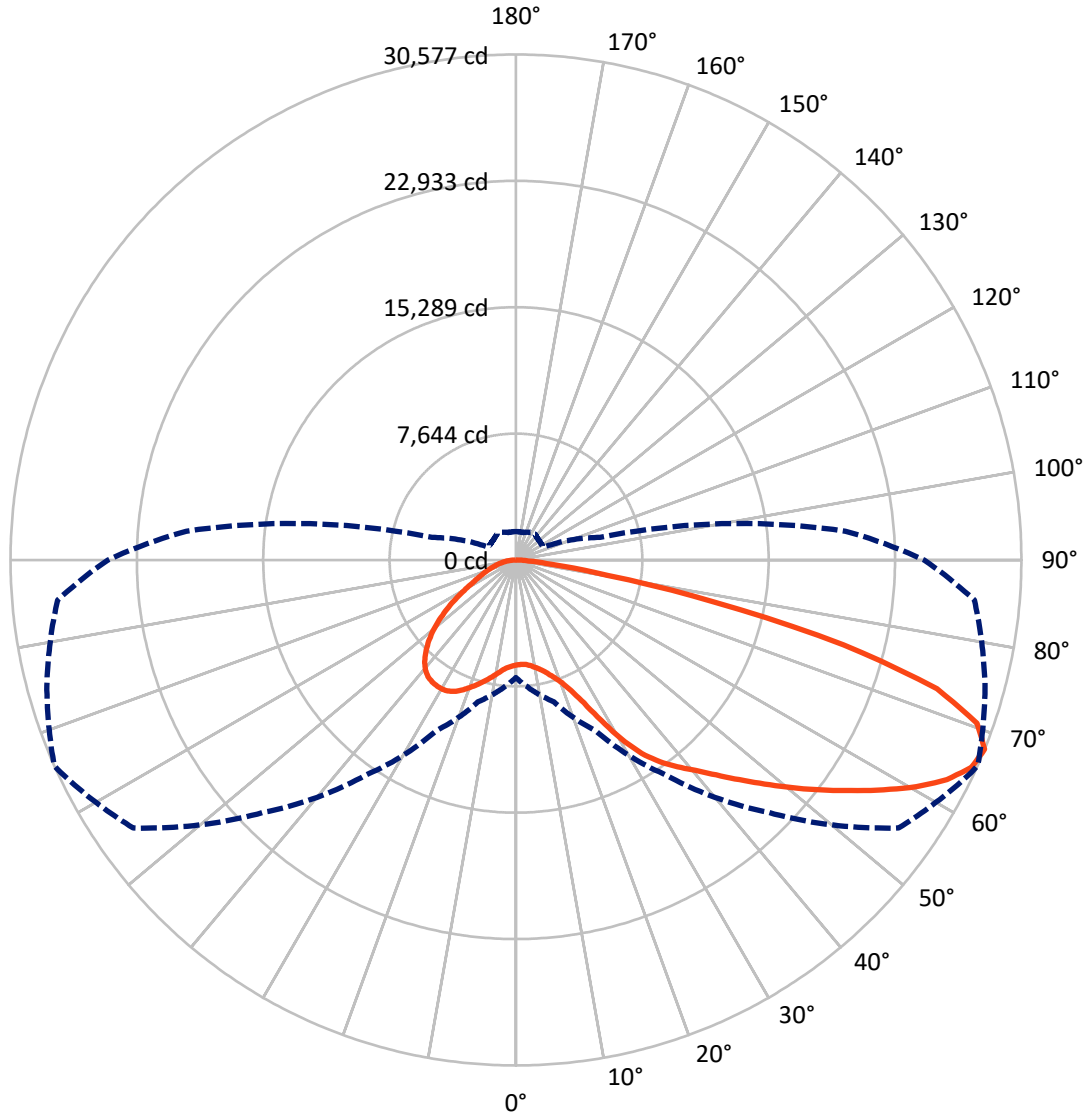
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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 | 14242.8 | 0.0 | 14242.8 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 43038.3 | 0.0 | 43038.3 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 57281.0 | 0.0 | 57281.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 629.9 | 1.1 |
| 10°-20° | 2081.1 | 3.6 |
| 20°-30° | 4011.2 | 7.0 |
| 30°-40° | 7033.1 | 12.3 |
| 40°-50° | 10455.9 | 18.3 |
| 50°-60° | 13253.9 | 23.1 |
| 60°-70° | 12968.6 | 22.6 |
| 70°-80° | 6186.2 | 10.8 |
| 80°-90° | 661.1 | 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° | 57281.0 | 100.0 |
| 0°-180° | 57281.0 | 100.0 |

Coefficient of Utilization



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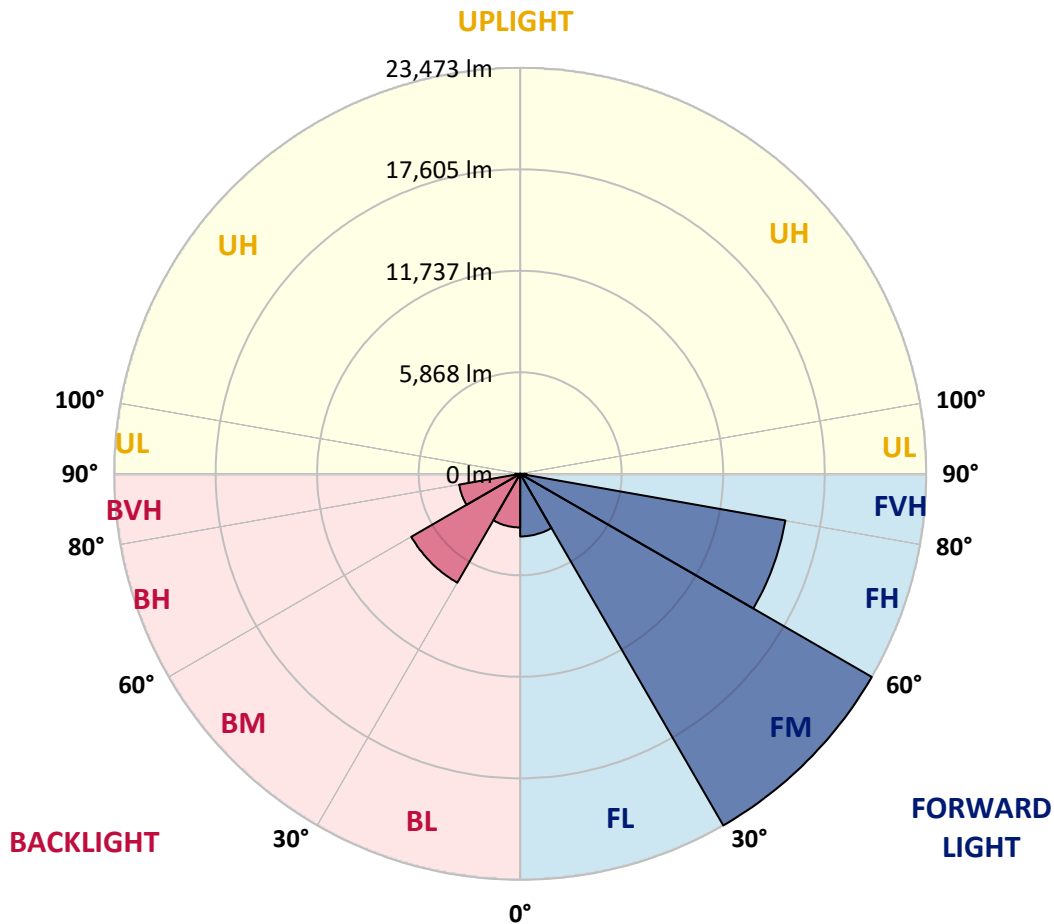
CATALOG NUMBER: GALN-SB8D-950-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3619.6 | 6.3 | | | |
| FM (30°-60°) | 23473.3 | 41.0 | | | |
| FH (60°-80°) | 15570.5 | 27.2 | | | G5 |
| FVH (80°-90°) | 374.8 | 0.7 | | | G3/500 |
| BL (0°-30°) | 3102.6 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 7269.7 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 3584.2 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 286.3 | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 |
| 2.5° | 6287.0 | 6323.1 | 6314.1 | 6299.0 | 6296.0 | 6302.1 | 6311.1 | 6320.1 | 6317.1 | 6332.2 |
| 5° | 6269.0 | 6305.1 | 6302.1 | 6302.1 | 6314.1 | 6338.2 | 6353.2 | 6368.3 | 6353.2 | 6371.3 |
| 7.5° | 6281.0 | 6308.1 | 6320.1 | 6332.2 | 6362.2 | 6407.4 | 6443.5 | 6476.6 | 6458.6 | 6479.6 |
| 10° | 6434.5 | 6455.5 | 6467.6 | 6467.6 | 6488.7 | 6539.8 | 6575.9 | 6636.1 | 6621.1 | 6654.2 |
| 12.5° | 6714.4 | 6735.4 | 6735.4 | 6723.4 | 6738.4 | 6771.6 | 6783.6 | 6849.8 | 6822.7 | 6876.9 |
| 15° | 7057.5 | 7099.6 | 7066.5 | 7045.4 | 7051.4 | 7084.5 | 7081.5 | 7132.7 | 7105.6 | 7150.8 |
| 17.5° | 7436.7 | 7490.8 | 7436.7 | 7433.7 | 7421.6 | 7457.7 | 7460.7 | 7505.9 | 7457.7 | 7490.8 |
| 20° | 7885.1 | 7960.3 | 7915.2 | 7930.2 | 7903.2 | 7918.2 | 7933.2 | 7999.5 | 7924.2 | 7948.3 |
| 22.5° | 8517.1 | 8607.4 | 8559.2 | 8616.4 | 8598.4 | 8586.3 | 8583.3 | 8700.7 | 8583.3 | 8592.3 |
| 25° | 9438.0 | 9546.4 | 9462.1 | 9540.4 | 9540.4 | 9579.5 | 9624.6 | 9775.1 | 9579.5 | 9522.3 |
| 27.5° | 10798.4 | 10906.7 | 10741.2 | 10789.3 | 10774.3 | 10870.6 | 10822.4 | 11195.6 | 10985.0 | 10891.7 |
| 30° | 12435.6 | 12628.2 | 12315.2 | 12303.2 | 12288.1 | 12441.6 | 12510.8 | 12757.6 | 12543.9 | 12450.6 |
| 32.5° | 14205.2 | 14406.9 | 14033.7 | 13925.3 | 13868.1 | 13961.4 | 13904.3 | 14102.9 | 13955.4 | 13811.0 |
| 35° | 16077.2 | 16275.8 | 15920.7 | 15710.0 | 15481.3 | 15285.6 | 15081.0 | 15132.2 | 14993.7 | 14774.0 |
| 37.5° | 17846.8 | 18211.0 | 17834.8 | 17609.0 | 17187.7 | 16805.5 | 16233.7 | 15995.9 | 15866.5 | 15664.9 |
| 40° | 19649.5 | 19857.2 | 19571.3 | 19378.7 | 18921.2 | 18322.3 | 17407.4 | 16904.8 | 16730.2 | 16534.6 |
| 42.5° | 20976.8 | 21175.4 | 21021.9 | 20889.5 | 20531.3 | 19836.1 | 18653.4 | 18024.4 | 17771.6 | 17551.9 |
| 45° | 22030.1 | 22177.6 | 22081.3 | 22129.4 | 21975.9 | 21301.8 | 19944.5 | 19225.2 | 18963.4 | 18695.5 |
| 47.5° | 22454.5 | 22611.0 | 22764.5 | 23050.4 | 23312.2 | 22815.6 | 21331.9 | 20525.3 | 20248.4 | 19974.6 |
| 50° | 22406.3 | 22565.8 | 23011.2 | 23619.2 | 24431.8 | 24266.2 | 22794.5 | 21909.7 | 21653.9 | 21340.9 |
| 52.5° | 22021.1 | 22201.7 | 22773.5 | 23784.7 | 25078.8 | 25352.7 | 24284.3 | 23339.3 | 23098.5 | 22725.3 |
| 55° | 21009.9 | 21118.2 | 21975.9 | 23408.5 | 25232.3 | 26111.1 | 25743.9 | 24862.1 | 24621.4 | 24100.7 |
| 57.5° | 19134.9 | 19291.4 | 20540.4 | 22394.3 | 24847.1 | 26625.7 | 27026.0 | 26463.2 | 26231.5 | 25482.1 |
| 60° | 16688.1 | 16937.9 | 18367.5 | 20690.9 | 23866.0 | 26622.7 | 28190.7 | 28037.2 | 27844.6 | 26842.4 |
| 62.5° | 13919.3 | 14208.2 | 15583.6 | 18283.2 | 22150.5 | 25867.3 | 28919.0 | 29355.4 | 29256.1 | 28097.4 |
| 65° | 10690.0 | 10888.7 | 12258.0 | 15168.3 | 19481.0 | 24245.2 | 29003.3 | 30255.3 | 30273.3 | 29051.5 |
| 67.5° | 7117.7 | 7689.5 | 8878.3 | 11382.2 | 15905.6 | 21593.7 | 28263.0 | 30402.8 | 30577.3 | 29379.5 |
| 70° | 3473.1 | 4225.4 | 5390.2 | 7397.5 | 11382.2 | 17527.8 | 26327.8 | 29192.9 | 29581.1 | 28422.5 |
| 72.5° | 1441.6 | 1685.4 | 2320.4 | 3650.6 | 6533.8 | 11827.6 | 22439.4 | 25912.5 | 26631.8 | 25184.2 |
| 75° | 972.1 | 1053.4 | 1327.2 | 1872.0 | 2976.5 | 5832.6 | 16182.5 | 19321.5 | 20480.2 | 19020.5 |
| 77.5° | 749.4 | 800.5 | 966.1 | 1309.2 | 1769.6 | 2206.0 | 8661.6 | 11644.1 | 12243.0 | 11334.1 |
| 80° | 589.9 | 629.0 | 722.3 | 954.0 | 1255.0 | 1179.8 | 2952.4 | 5275.8 | 5621.9 | 4716.0 |
| 82.5° | 511.6 | 526.7 | 517.6 | 647.1 | 833.7 | 689.2 | 969.1 | 1947.2 | 2148.8 | 1559.0 |
| 85° | 370.2 | 412.3 | 430.4 | 400.3 | 442.4 | 349.1 | 397.3 | 689.2 | 758.4 | 677.2 |
| 87.5° | 150.5 | 222.7 | 273.9 | 258.8 | 162.5 | 99.3 | 123.4 | 201.6 | 231.7 | 252.8 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 6353.2 | 0° | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 | 6353.2 |
| 6356.2 | 2.5° | 6359.2 | 6380.3 | 6395.4 | 6413.4 | 6425.4 | 6443.5 | 6479.6 | 6500.7 | 6503.7 | 6518.7 |
| 6404.4 | 5° | 6416.4 | 6446.5 | 6479.6 | 6527.8 | 6581.9 | 6627.1 | 6696.3 | 6744.5 | 6762.5 | 6777.6 |
| 6521.8 | 7.5° | 6539.8 | 6581.9 | 6642.1 | 6726.4 | 6804.7 | 6864.8 | 6949.1 | 7006.3 | 7063.5 | 7084.5 |
| 6708.4 | 10° | 6723.4 | 6783.6 | 6870.9 | 6985.2 | 7069.5 | 7147.7 | 7235.0 | 7283.2 | 7340.4 | 7364.4 |
| 6931.1 | 12.5° | 6952.1 | 7015.3 | 7129.7 | 7289.2 | 7367.4 | 7421.6 | 7451.7 | 7439.7 | 7451.7 | 7472.8 |
| 7198.9 | 15° | 7214.0 | 7283.2 | 7412.6 | 7584.1 | 7638.3 | 7590.2 | 7523.9 | 7463.8 | 7454.7 | 7460.7 |
| 7523.9 | 17.5° | 7523.9 | 7575.1 | 7725.6 | 7870.0 | 7830.9 | 7632.3 | 7487.8 | 7391.5 | 7343.4 | 7328.3 |
| 7939.3 | 20° | 7957.3 | 7957.3 | 8080.7 | 8171.0 | 7909.2 | 7572.1 | 7346.4 | 7189.9 | 7090.6 | 7048.4 |
| 8505.1 | 22.5° | 8484.0 | 8435.8 | 8514.1 | 8450.9 | 7894.1 | 7403.6 | 7090.6 | 6819.7 | 6669.2 | 6609.0 |
| 9296.6 | 25° | 9152.1 | 9094.9 | 9073.9 | 8682.6 | 7785.8 | 7135.7 | 6627.1 | 6299.0 | 6166.6 | 6133.5 |
| 10437.2 | 27.5° | 10160.3 | 10015.9 | 9742.0 | 8809.0 | 7587.1 | 6714.4 | 6085.4 | 5781.4 | 5706.2 | 5709.2 |
| 11902.9 | 30° | 11502.6 | 11213.7 | 10542.6 | 8830.1 | 7262.1 | 6118.5 | 5531.6 | 5314.9 | 5278.8 | 5293.8 |
| 13133.8 | 32.5° | 12745.6 | 12471.7 | 11361.2 | 8733.8 | 6762.5 | 5534.6 | 5035.0 | 4890.6 | 4836.4 | 4854.4 |
| 14072.8 | 35° | 13720.7 | 13645.4 | 12119.6 | 8598.4 | 6148.6 | 4986.9 | 4589.6 | 4466.2 | 4360.9 | 4336.8 |
| 14957.6 | 37.5° | 14641.6 | 14611.5 | 12688.4 | 8408.8 | 5540.6 | 4598.6 | 4231.5 | 4068.9 | 3915.5 | 3831.2 |
| 15935.7 | 40° | 15652.8 | 15622.7 | 13061.6 | 8116.8 | 5001.9 | 4261.6 | 3909.4 | 3695.8 | 3506.2 | 3352.7 |
| 17043.2 | 42.5° | 16790.4 | 16612.9 | 13239.1 | 7698.5 | 4544.5 | 3975.7 | 3647.6 | 3358.7 | 3108.9 | 2967.4 |
| 18295.2 | 45° | 18033.4 | 17633.1 | 13236.1 | 7165.8 | 4159.2 | 3713.8 | 3367.7 | 2958.4 | 2726.7 | 2594.3 |
| 19580.3 | 47.5° | 19351.6 | 18608.2 | 13073.6 | 6575.9 | 3786.0 | 3424.9 | 2934.3 | 2621.3 | 2467.9 | 2386.6 |
| 20976.8 | 50° | 20711.9 | 19520.1 | 12796.7 | 5898.8 | 3403.8 | 3096.9 | 2663.5 | 2449.8 | 2332.4 | 2257.2 |
| 22361.2 | 52.5° | 21991.0 | 20347.8 | 12462.7 | 5131.3 | 3015.6 | 2777.8 | 2543.1 | 2377.6 | 2254.2 | 2169.9 |
| 23703.4 | 55° | 23179.8 | 21061.0 | 11990.2 | 4345.8 | 2699.6 | 2564.2 | 2485.9 | 2347.5 | 2206.0 | 2106.7 |
| 25066.8 | 57.5° | 24236.1 | 21524.5 | 11174.6 | 3608.5 | 2473.9 | 2416.7 | 2425.7 | 2296.3 | 2133.8 | 2049.5 |
| 26409.1 | 60° | 25114.9 | 21864.6 | 9967.7 | 2925.3 | 2290.3 | 2272.2 | 2332.4 | 2200.0 | 2010.4 | 1914.1 |
| 27543.7 | 62.5° | 25641.6 | 21858.6 | 8487.0 | 2395.6 | 2133.8 | 2139.8 | 2209.0 | 2079.6 | 1887.0 | 1796.7 |
| 28136.5 | 65° | 25596.5 | 21322.9 | 6861.8 | 2049.5 | 1983.3 | 1989.3 | 2079.6 | 1947.2 | 1784.7 | 1730.5 |
| 27838.6 | 67.5° | 24690.6 | 20016.7 | 5263.8 | 1823.8 | 1817.8 | 1844.9 | 1950.2 | 1856.9 | 1721.5 | 1715.5 |
| 26062.9 | 70° | 22237.8 | 17305.1 | 3792.1 | 1643.2 | 1646.2 | 1685.4 | 1823.8 | 1799.7 | 1688.4 | 1700.4 |
| 21912.7 | 72.5° | 17831.8 | 13194.0 | 2546.1 | 1453.6 | 1456.6 | 1519.8 | 1703.4 | 1754.6 | 1655.3 | 1814.8 |
| 15547.5 | 75° | 11875.8 | 8228.2 | 1637.2 | 1252.0 | 1255.0 | 1336.3 | 1598.1 | 1667.3 | 1565.0 | 1808.8 |
| 8089.7 | 77.5° | 5706.2 | 3698.8 | 1185.8 | 1053.4 | 1053.4 | 1128.6 | 1381.4 | 1492.8 | 1333.2 | 1405.5 |
| 2600.3 | 80° | 1971.3 | 1390.4 | 933.0 | 848.7 | 830.6 | 881.8 | 1164.7 | 1294.1 | 1149.7 | 1059.4 |
| 848.7 | 82.5° | 776.5 | 722.3 | 749.4 | 659.1 | 598.9 | 632.0 | 905.9 | 1068.4 | 845.7 | 764.4 |
| 478.5 | 85° | 445.4 | 469.5 | 529.7 | 436.4 | 346.1 | 388.2 | 665.1 | 767.4 | 638.0 | 562.8 |
| 156.5 | 87.5° | 120.4 | 165.5 | 243.8 | 225.7 | 156.5 | 165.5 | 316.0 | 424.4 | 367.2 | 282.9 |
| 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> |
|-------------|
| 6353.2 |
| 6515.7 |
| 6774.6 |
| 7087.6 |
| 7376.5 |
| 7478.8 |
| 7481.8 |
| 7349.4 |
| 7039.4 |
| 6600.0 |
| 6139.5 |
| 5718.2 |
| 5345.0 |
| 4878.5 |
| 4354.9 |
| 3834.2 |
| 3367.7 |
| 2976.5 |
| 2588.2 |
| 2368.5 |
| 2230.1 |
| 2133.8 |
| 2067.6 |
| 1995.4 |
| 1872.0 |
| 1769.6 |
| 1727.5 |
| 1724.5 |
| 1697.4 |
| 1838.9 |
| 1823.8 |
| 1288.1 |
| 993.2 |
| 761.4 |
| 574.8 |
| 291.9 |
| 0.0 |

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