

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: P851585

Luminaire Tested: **GLAN-SB9C-850-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9C-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42770 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

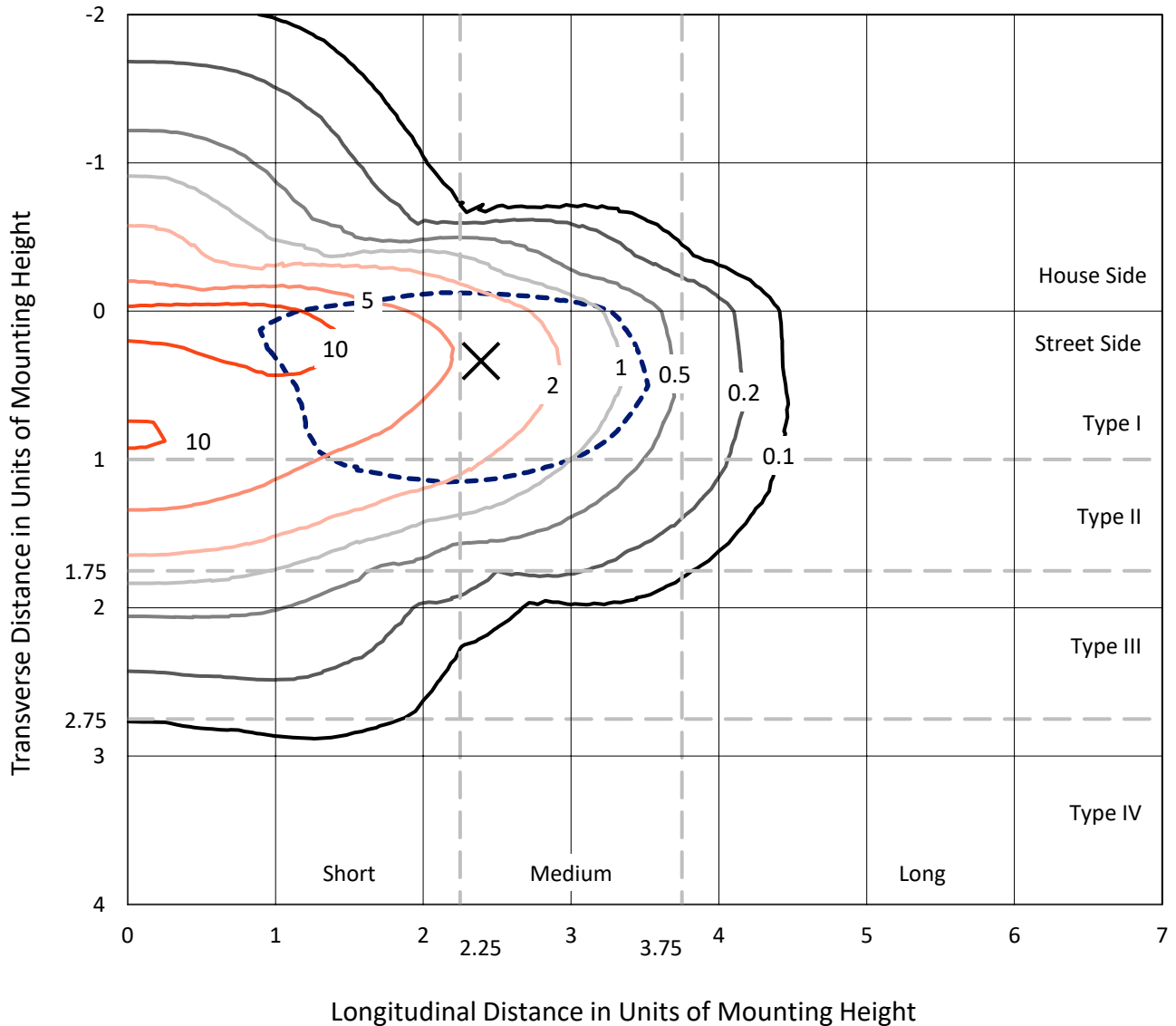
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

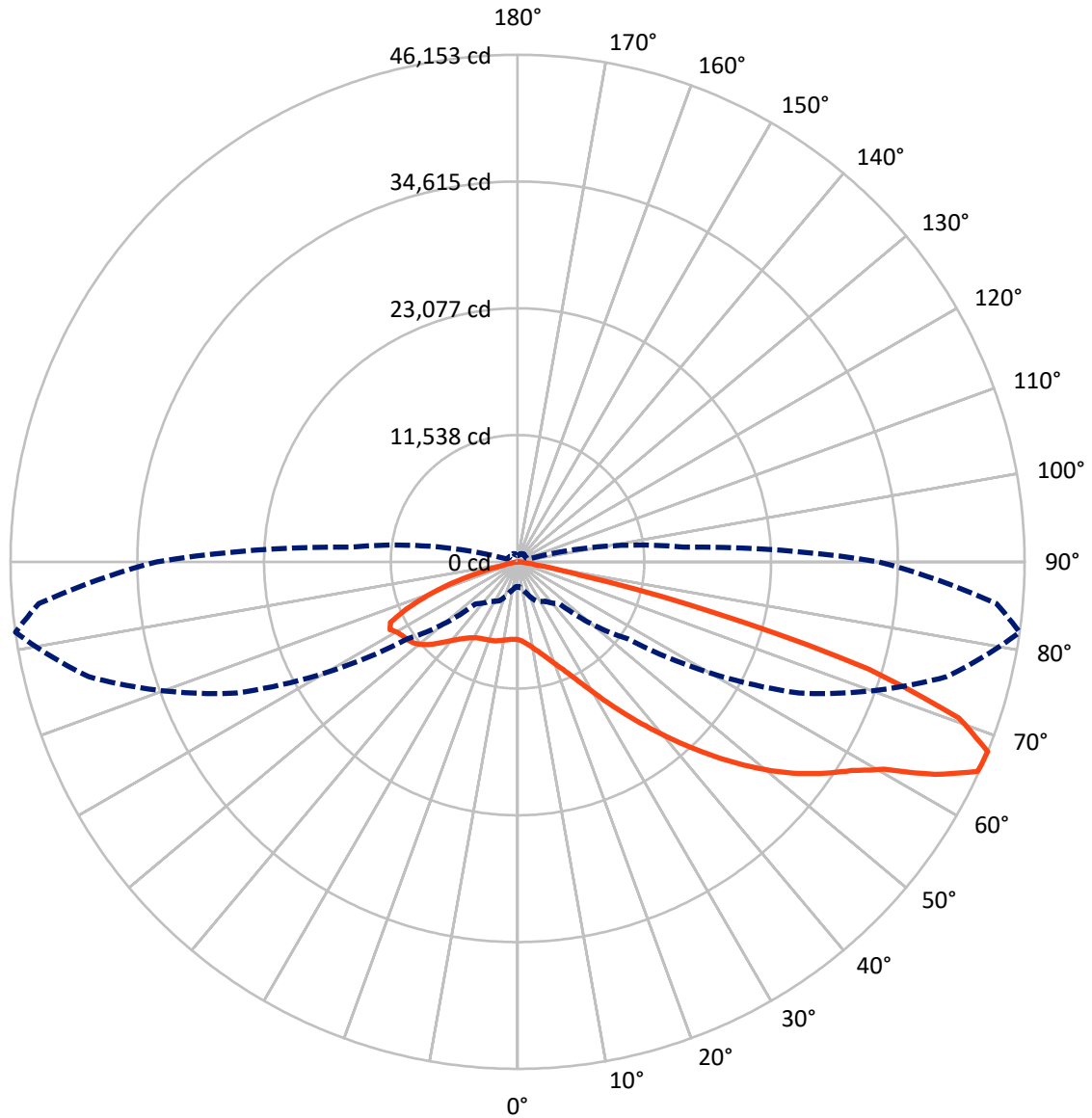
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7747.4 | 0.0 | 7747.4 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 35022.6 | 0.0 | 35022.6 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 42770.0 | 0.0 | 42770.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 631.3 | 1.5 |
| 10°-20° | 1640.4 | 3.8 |
| 20°-30° | 2627.4 | 6.1 |
| 30°-40° | 4646.1 | 10.9 |
| 40°-50° | 8140.4 | 19.0 |
| 50°-60° | 10857.0 | 25.4 |
| 60°-70° | 10107.3 | 23.6 |
| 70°-80° | 3879.2 | 9.1 |
| 80°-90° | 240.9 | 0.6 |
| 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° | 42770.0 | 100.0 |
| 0°-180° | 42770.0 | 100.0 |

Coefficient of Utilization

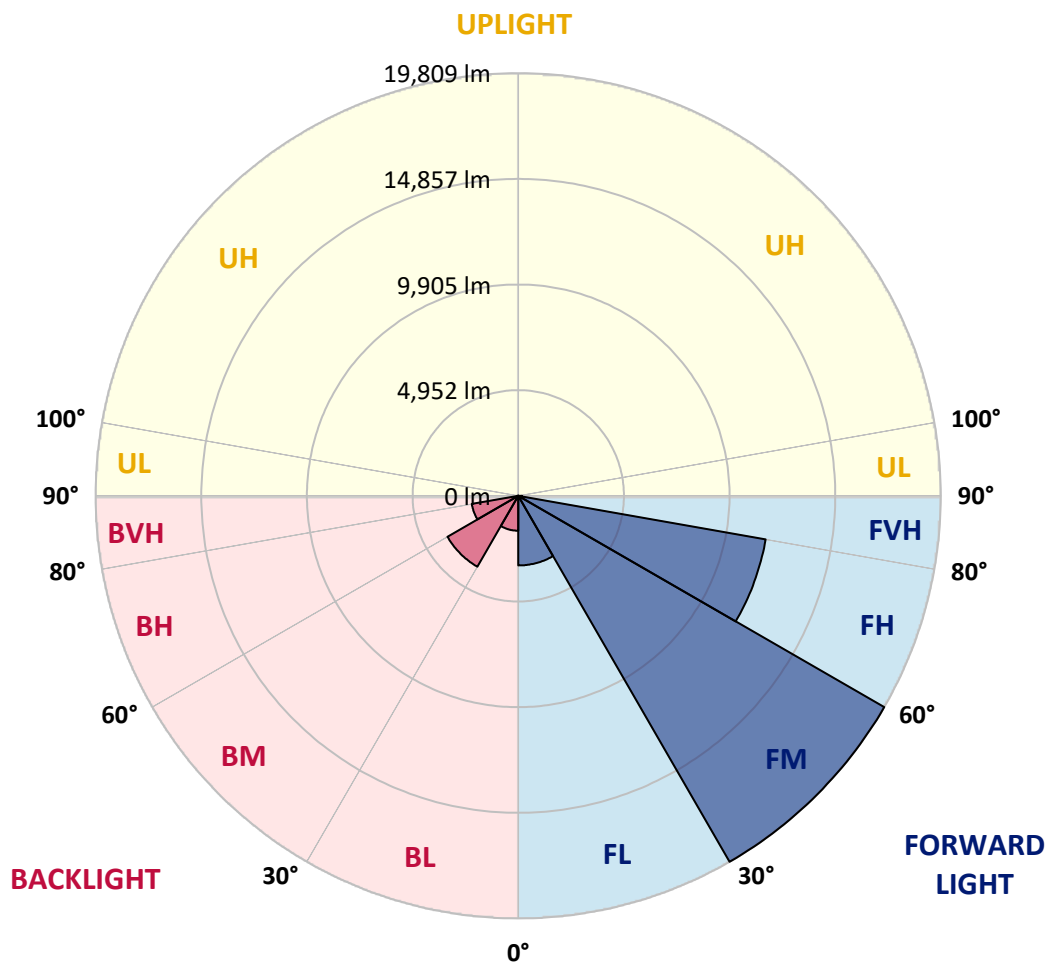


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3262.9 | 7.6 | | | |
| FM (30°-60°) | 19809.3 | 46.3 | | | |
| FH (60°-80°) | 11775.2 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 175.2 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1636.2 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 3834.2 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 2211.3 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 65.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 |
| 2.5° | 7488.9 | 7532.0 | 7507.4 | 7495.1 | 7473.5 | 7442.7 | 7418.1 | 7341.1 | 7261.1 | 7208.7 |
| 5° | 7639.8 | 7682.9 | 7679.9 | 7692.2 | 7707.6 | 7716.8 | 7710.6 | 7624.4 | 7510.5 | 7421.2 |
| 7.5° | 7510.5 | 7559.8 | 7599.8 | 7661.4 | 7769.2 | 7883.1 | 7938.5 | 7920.0 | 7803.0 | 7679.9 |
| 10° | 7144.0 | 7196.4 | 7291.9 | 7436.6 | 7664.5 | 7910.8 | 8117.1 | 8212.6 | 8138.7 | 8003.2 |
| 12.5° | 6472.8 | 6525.1 | 6712.9 | 7027.0 | 7408.9 | 7836.9 | 8231.1 | 8486.6 | 8505.1 | 8369.6 |
| 15° | 5718.3 | 5770.7 | 5970.8 | 6365.0 | 6947.0 | 7633.7 | 8292.6 | 8776.1 | 8939.3 | 8822.3 |
| 17.5° | 5250.3 | 5296.5 | 5447.3 | 5764.5 | 6371.1 | 7227.2 | 8271.1 | 9084.0 | 9456.6 | 9364.2 |
| 20° | 5108.6 | 5148.6 | 5219.5 | 5441.2 | 5946.2 | 6805.3 | 8129.4 | 9373.5 | 10014.0 | 9961.6 |
| 22.5° | 5259.5 | 5296.5 | 5318.0 | 5416.5 | 5733.7 | 6528.2 | 7950.8 | 9669.1 | 10660.6 | 10666.8 |
| 25° | 5607.5 | 5644.4 | 5619.8 | 5681.4 | 5819.9 | 6442.0 | 7883.1 | 10017.1 | 11473.6 | 11541.3 |
| 27.5° | 6180.2 | 6183.3 | 6124.8 | 6121.7 | 6143.3 | 6571.3 | 7953.9 | 10389.7 | 12499.0 | 12625.3 |
| 30° | 7328.8 | 7282.6 | 7057.8 | 6814.6 | 6703.7 | 6959.3 | 8151.0 | 10830.0 | 13709.2 | 13934.0 |
| 32.5° | 9099.4 | 9031.7 | 8619.0 | 8037.1 | 7452.0 | 7584.4 | 8505.1 | 11331.9 | 15027.1 | 15433.6 |
| 35° | 11020.9 | 11002.5 | 10571.3 | 9706.1 | 8683.7 | 8474.3 | 9080.9 | 11990.9 | 16465.2 | 17111.8 |
| 37.5° | 12806.9 | 12797.7 | 12551.4 | 11532.1 | 10288.0 | 9715.3 | 10004.7 | 12853.1 | 18004.9 | 18941.0 |
| 40° | 14439.0 | 14466.7 | 14220.4 | 13308.9 | 12055.6 | 11307.3 | 11261.1 | 13918.6 | 19717.0 | 20933.3 |
| 42.5° | 15849.3 | 15880.1 | 15630.7 | 14956.3 | 13801.6 | 13068.7 | 12803.9 | 15224.2 | 21389.0 | 23073.4 |
| 45° | 16807.0 | 16997.9 | 16961.0 | 16422.1 | 15593.7 | 14833.1 | 14657.6 | 16862.4 | 23295.1 | 25342.9 |
| 47.5° | 17078.0 | 17253.5 | 17530.6 | 17604.5 | 17099.5 | 16351.2 | 16560.6 | 18836.3 | 25222.8 | 27615.4 |
| 50° | 16409.8 | 16573.0 | 17148.8 | 17915.6 | 18266.6 | 18035.6 | 18411.3 | 20951.8 | 27196.7 | 29881.8 |
| 52.5° | 15091.8 | 15258.1 | 15984.8 | 17198.1 | 18630.0 | 19356.7 | 20268.2 | 23036.5 | 29108.9 | 32028.1 |
| 55° | 13185.7 | 13361.2 | 14294.3 | 15667.6 | 17937.1 | 19901.7 | 21817.1 | 25118.1 | 30861.1 | 33958.9 |
| 57.5° | 10592.9 | 10722.2 | 11692.2 | 13613.7 | 16194.2 | 19359.8 | 22959.5 | 27390.7 | 32511.6 | 35855.7 |
| 60° | 6903.9 | 7017.8 | 8144.8 | 10288.0 | 13305.8 | 17549.1 | 23187.4 | 29924.9 | 34704.1 | 38322.3 |
| 62.5° | 4591.3 | 4668.3 | 5336.5 | 6910.0 | 9370.4 | 14072.5 | 21854.0 | 31948.1 | 37918.9 | 42614.9 |
| 65° | 3150.2 | 3227.1 | 3895.4 | 4991.6 | 6054.0 | 9308.8 | 18020.2 | 31680.2 | 40831.9 | 46023.7 |
| 67.5° | 2247.9 | 2312.6 | 2879.2 | 3913.8 | 4381.9 | 5407.3 | 12215.7 | 28255.9 | 40413.1 | 46153.0 |
| 70° | 1610.5 | 1647.4 | 2115.5 | 3048.5 | 3482.7 | 3248.7 | 6793.0 | 21610.7 | 35384.6 | 42617.9 |
| 72.5° | 1127.0 | 1139.4 | 1468.8 | 2321.8 | 2805.3 | 2371.1 | 3233.3 | 14408.2 | 26762.5 | 33450.8 |
| 75° | 763.7 | 779.1 | 988.5 | 1702.9 | 2251.0 | 1810.6 | 1712.1 | 7726.0 | 15710.7 | 18516.0 |
| 77.5° | 468.1 | 474.2 | 637.4 | 1164.0 | 1684.4 | 1379.5 | 1102.4 | 3273.3 | 6078.6 | 5967.7 |
| 80° | 264.8 | 264.8 | 406.5 | 723.6 | 1148.6 | 889.9 | 772.9 | 1391.9 | 1924.6 | 1690.6 |
| 82.5° | 147.8 | 150.9 | 295.6 | 449.6 | 760.6 | 526.6 | 424.9 | 643.6 | 831.4 | 736.0 |
| 85° | 61.6 | 67.7 | 181.7 | 212.5 | 363.4 | 261.7 | 172.4 | 271.0 | 307.9 | 274.1 |
| 87.5° | 6.2 | 9.2 | 55.4 | 40.0 | 43.1 | 52.3 | 24.6 | 52.3 | 43.1 | 43.1 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7085.5 | 0° | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 | 7085.5 |
| 7190.2 | 2.5° | 7131.7 | 7085.5 | 6968.5 | 6833.0 | 6654.4 | 6568.2 | 6451.2 | 6371.1 | 6303.4 | 6309.6 |
| 7368.8 | 5° | 7270.3 | 7153.3 | 6891.5 | 6565.1 | 6158.7 | 5869.2 | 5561.3 | 5348.8 | 5176.4 | 5139.4 |
| 7615.2 | 7.5° | 7461.2 | 7276.5 | 6817.6 | 6229.5 | 5542.8 | 5022.4 | 4557.4 | 4258.7 | 4046.2 | 3978.5 |
| 7913.9 | 10° | 7707.6 | 7439.7 | 6722.2 | 5807.6 | 4819.2 | 4157.1 | 3658.2 | 3424.2 | 3279.5 | 3230.2 |
| 8264.9 | 12.5° | 7993.9 | 7627.5 | 6595.9 | 5293.4 | 4074.0 | 3436.5 | 3119.4 | 3002.3 | 2956.2 | 2940.8 |
| 8696.0 | 15° | 8354.2 | 7861.5 | 6405.0 | 4683.7 | 3442.7 | 2996.2 | 2860.7 | 2845.3 | 2851.5 | 2845.3 |
| 9213.4 | 17.5° | 8782.3 | 8117.1 | 6094.0 | 4055.5 | 3017.7 | 2771.4 | 2722.1 | 2734.4 | 2749.8 | 2746.8 |
| 9792.3 | 20° | 9250.3 | 8369.6 | 5696.8 | 3498.1 | 2728.3 | 2611.3 | 2583.6 | 2595.9 | 2608.2 | 2602.0 |
| 10460.5 | 22.5° | 9783.0 | 8640.6 | 5256.4 | 3063.9 | 2534.3 | 2463.5 | 2432.7 | 2435.8 | 2435.8 | 2423.4 |
| 11307.3 | 25° | 10420.5 | 8939.3 | 4794.5 | 2756.0 | 2386.5 | 2331.1 | 2294.1 | 2281.8 | 2263.3 | 2226.4 |
| 12335.8 | 27.5° | 11181.1 | 9256.5 | 4351.1 | 2540.4 | 2269.5 | 2217.1 | 2174.0 | 2143.2 | 2097.0 | 2035.4 |
| 13570.6 | 30° | 12037.1 | 9641.4 | 3975.4 | 2405.0 | 2177.1 | 2124.7 | 2075.5 | 2029.3 | 1961.5 | 1884.6 |
| 14990.2 | 32.5° | 13044.0 | 10054.0 | 3701.4 | 2315.7 | 2093.9 | 2038.5 | 1980.0 | 1924.6 | 1850.7 | 1773.7 |
| 16585.3 | 35° | 14245.0 | 10552.9 | 3541.2 | 2254.1 | 2029.3 | 1955.4 | 1890.7 | 1829.1 | 1773.7 | 1705.9 |
| 18318.9 | 37.5° | 15547.5 | 11082.5 | 3492.0 | 2223.3 | 1986.2 | 1872.2 | 1798.3 | 1755.2 | 1749.1 | 1709.0 |
| 20194.3 | 40° | 16973.3 | 11710.7 | 3528.9 | 2204.8 | 1940.0 | 1792.2 | 1712.1 | 1702.9 | 1718.3 | 1647.4 |
| 22198.9 | 42.5° | 18482.1 | 12455.9 | 3590.5 | 2183.2 | 1875.3 | 1712.1 | 1635.1 | 1635.1 | 1622.8 | 1524.3 |
| 24317.5 | 45° | 20114.2 | 13315.0 | 3652.1 | 2130.9 | 1798.3 | 1632.0 | 1573.5 | 1552.0 | 1499.6 | 1404.2 |
| 26448.4 | 47.5° | 21758.6 | 14189.6 | 3698.3 | 2035.4 | 1705.9 | 1564.3 | 1512.0 | 1462.7 | 1385.7 | 1299.5 |
| 28539.2 | 50° | 23319.8 | 14974.8 | 3649.0 | 1893.8 | 1601.3 | 1499.6 | 1444.2 | 1376.5 | 1293.3 | 1234.8 |
| 30519.3 | 52.5° | 24714.7 | 15655.3 | 3439.6 | 1727.5 | 1490.4 | 1431.9 | 1382.6 | 1311.8 | 1244.0 | 1182.5 |
| 32305.3 | 55° | 25928.0 | 16206.5 | 3070.1 | 1570.5 | 1391.9 | 1373.4 | 1324.1 | 1234.8 | 1142.4 | 1090.1 |
| 34075.9 | 57.5° | 27092.0 | 16625.3 | 2608.2 | 1441.1 | 1302.6 | 1308.7 | 1234.8 | 1154.7 | 1068.5 | 1013.1 |
| 36462.4 | 60° | 28640.9 | 17185.7 | 2140.1 | 1321.0 | 1207.1 | 1225.6 | 1145.5 | 1087.0 | 979.2 | 908.4 |
| 40554.8 | 62.5° | 31116.6 | 18057.2 | 1699.8 | 1173.2 | 1096.2 | 1102.4 | 1068.5 | 997.7 | 868.4 | 785.2 |
| 43587.9 | 65° | 33081.3 | 17736.9 | 1339.5 | 1013.1 | 970.0 | 979.2 | 979.2 | 902.2 | 763.7 | 668.2 |
| 43751.1 | 67.5° | 32859.5 | 15187.3 | 1068.5 | 856.1 | 849.9 | 856.1 | 877.6 | 812.9 | 677.5 | 600.5 |
| 40419.3 | 70° | 30269.8 | 12080.2 | 856.1 | 711.3 | 739.0 | 723.6 | 785.2 | 742.1 | 609.7 | 532.7 |
| 31335.3 | 72.5° | 24699.3 | 8702.2 | 652.8 | 588.2 | 566.6 | 591.2 | 708.2 | 668.2 | 508.1 | 421.9 |
| 16597.6 | 75° | 14432.8 | 4643.6 | 486.5 | 465.0 | 409.6 | 492.7 | 628.2 | 569.7 | 388.0 | 311.0 |
| 5087.1 | 77.5° | 4699.1 | 1619.7 | 357.2 | 341.8 | 304.9 | 397.2 | 535.8 | 480.4 | 317.2 | 246.3 |
| 1490.4 | 80° | 1259.4 | 489.6 | 243.3 | 224.8 | 197.1 | 295.6 | 424.9 | 381.8 | 227.9 | 160.1 |
| 640.5 | 82.5° | 505.0 | 206.3 | 141.6 | 126.3 | 107.8 | 203.2 | 335.6 | 307.9 | 169.4 | 101.6 |
| 200.2 | 85° | 163.2 | 67.7 | 52.3 | 40.0 | 49.3 | 126.3 | 200.2 | 209.4 | 120.1 | 52.3 |
| 30.8 | 87.5° | 21.6 | 9.2 | 9.2 | 12.3 | 9.2 | 21.6 | 61.6 | 58.5 | 33.9 | 6.2 |
| 0.0 | 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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| |
|--------|
| 180° |
| <hr/> |
| 7085.5 |
| 6248.0 |
| 5056.3 |
| 3910.8 |
| 3193.3 |
| 2931.5 |
| 2842.2 |
| 2740.6 |
| 2599.0 |
| 2417.3 |
| 2220.2 |
| 2029.3 |
| 1878.4 |
| 1776.8 |
| 1699.8 |
| 1705.9 |
| 1650.5 |
| 1524.3 |
| 1401.1 |
| 1296.4 |
| 1225.6 |
| 1176.3 |
| 1083.9 |
| 1006.9 |
| 899.2 |
| 779.1 |
| 659.0 |
| 588.2 |
| 523.5 |
| 412.6 |
| 301.8 |
| 237.1 |
| 157.0 |
| 101.6 |
| 40.0 |
| 0.0 |
| 0.0 |

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