

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: P853138

Luminaire Tested: **GLAN-SB9A-727-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27511 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

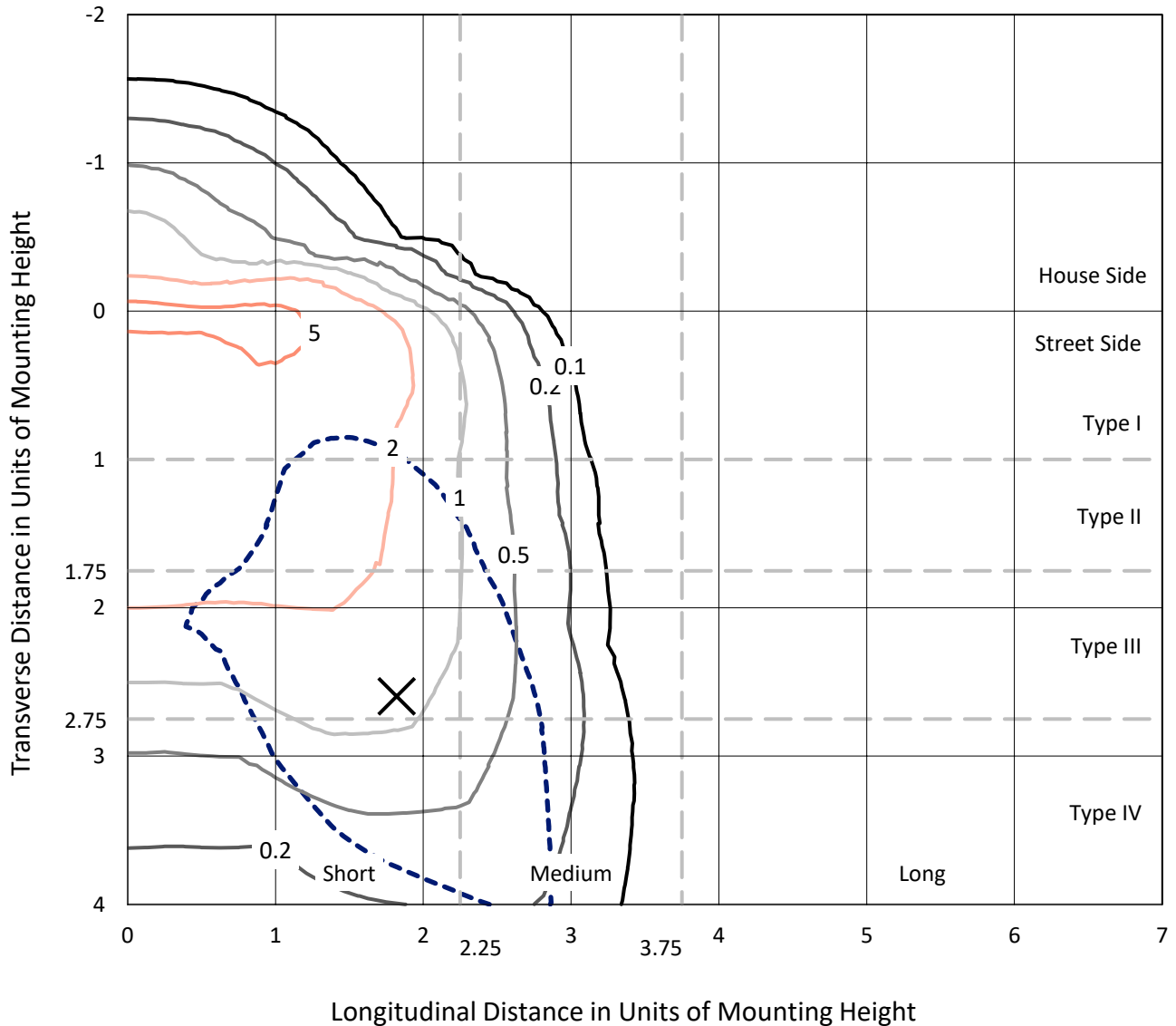
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

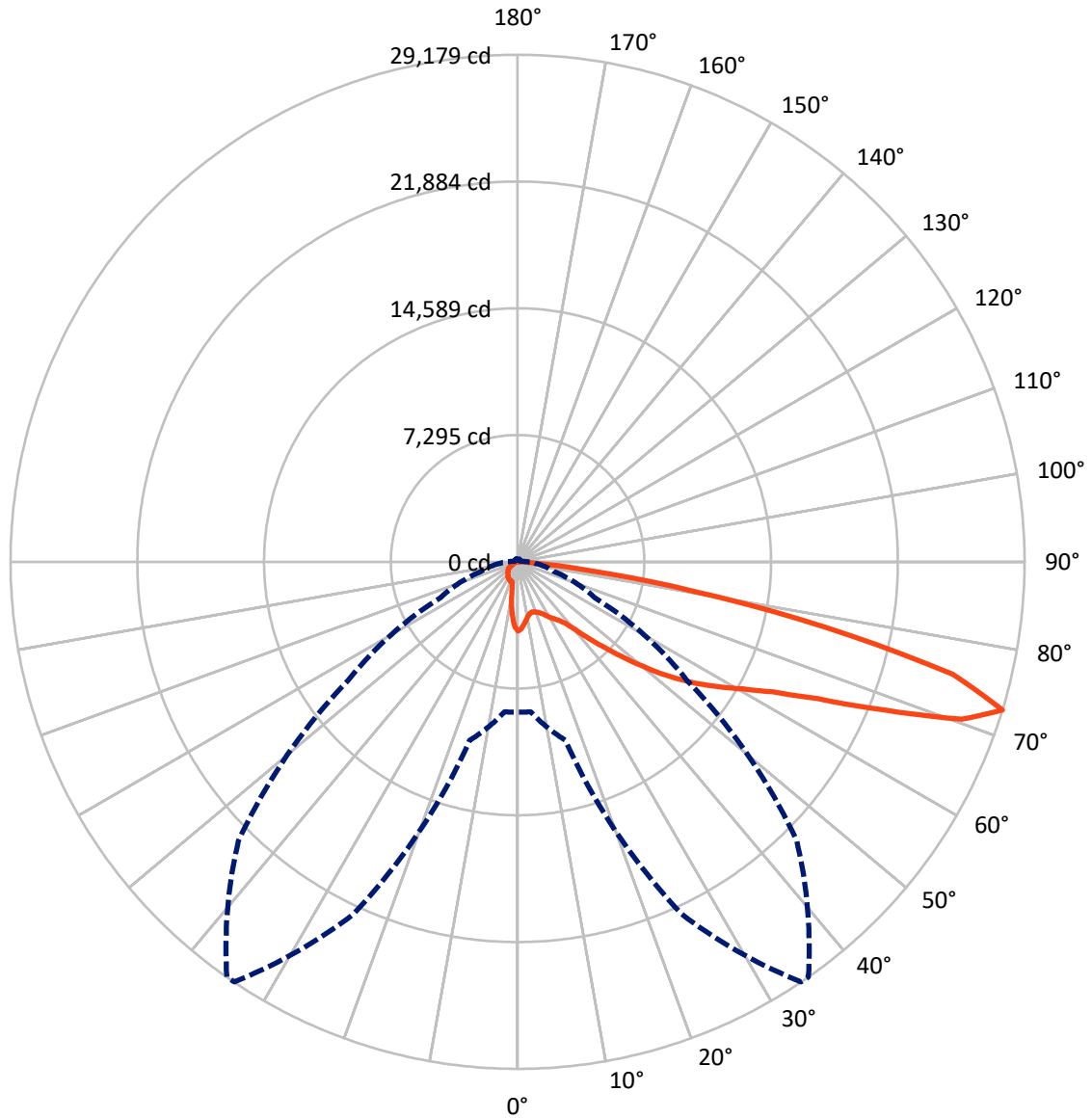
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3096.2 | 0.0 | 3096.2 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 24414.8 | 0.0 | 24414.8 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 27511.0 | 0.0 | 27511.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 327.6 | 1.2 |
| 10°-20° | 766.5 | 2.8 |
| 20°-30° | 1245.1 | 4.5 |
| 30°-40° | 2077.5 | 7.6 |
| 40°-50° | 3930.7 | 14.3 |
| 50°-60° | 6245.9 | 22.7 |
| 60°-70° | 7726.6 | 28.1 |
| 70°-80° | 4802.9 | 17.5 |
| 80°-90° | 388.1 | 1.4 |
| 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° | 27511.0 | 100.0 |
| 0°-180° | 27511.0 | 100.0 |

Coefficient of Utilization



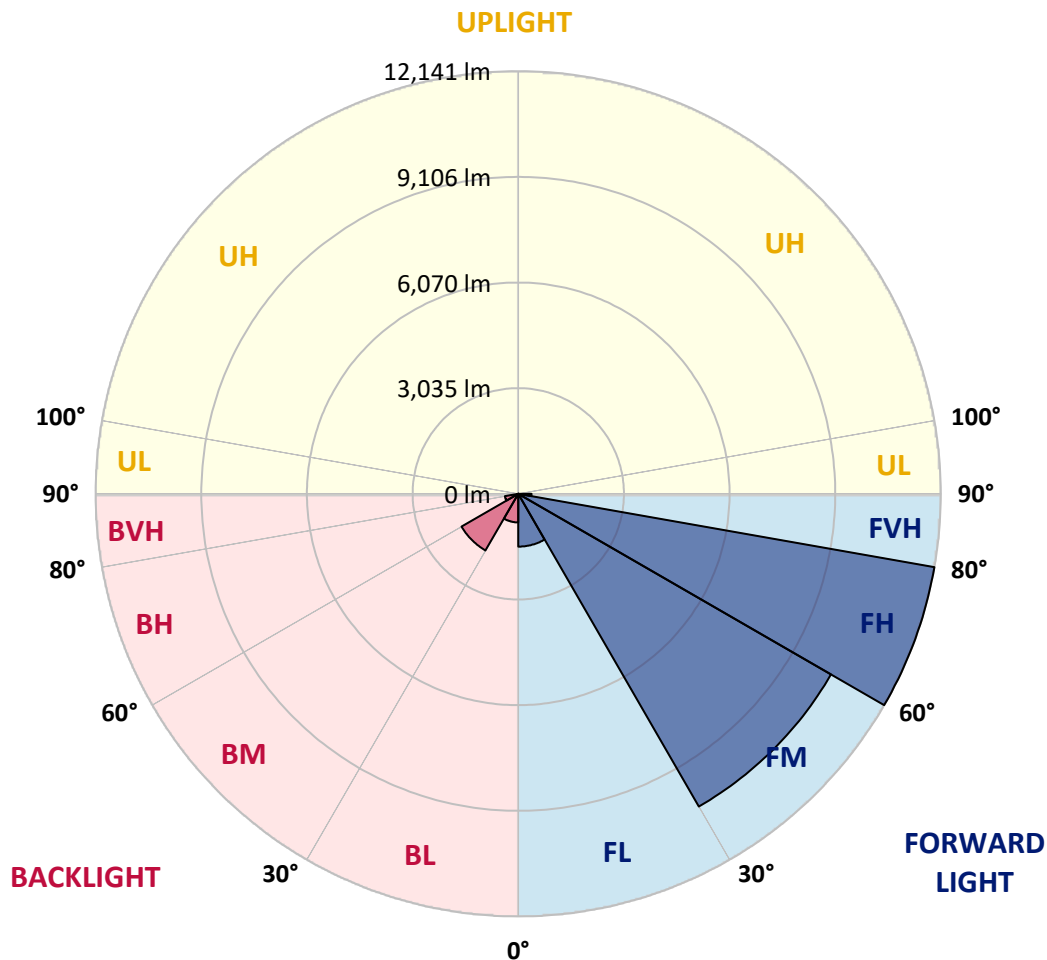
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 1516.6 | 5.5 | | | |
| FM | (30°-60°) | 10374.4 | 37.7 | | | |
| FH | (60°-80°) | 12140.9 | 44.1 | | | G5 |
| FVH | (80°-90°) | 382.9 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 822.7 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1879.7 | 6.8 | B2/2500 | | |
| BH | (60°-80°) | 388.5 | 1.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.3 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 |
| 2.5° | 3809.9 | 3842.1 | 3848.2 | 3858.3 | 3858.3 | 3870.3 | 3890.5 | 3918.7 | 3965.1 | 3989.3 |
| 5° | 3511.5 | 3535.7 | 3566.0 | 3590.2 | 3636.5 | 3642.6 | 3721.2 | 3797.8 | 3904.6 | 3985.3 |
| 7.5° | 3211.2 | 3239.4 | 3279.7 | 3338.2 | 3398.7 | 3416.8 | 3535.7 | 3664.7 | 3834.1 | 3985.3 |
| 10° | 2999.5 | 3001.5 | 3037.8 | 3096.3 | 3193.0 | 3215.2 | 3360.4 | 3543.8 | 3755.4 | 3961.1 |
| 12.5° | 2880.6 | 2894.7 | 2910.8 | 2955.2 | 3047.9 | 3062.0 | 3217.2 | 3432.9 | 3676.8 | 3947.0 |
| 15° | 2880.6 | 2890.7 | 2900.7 | 2922.9 | 2997.5 | 3009.6 | 3146.7 | 3362.4 | 3636.5 | 3953.0 |
| 17.5° | 2910.8 | 2927.0 | 2918.9 | 2945.1 | 3023.7 | 3031.8 | 3152.7 | 3342.2 | 3634.5 | 3991.3 |
| 20° | 2983.4 | 2995.5 | 2979.4 | 2995.5 | 3074.1 | 3090.2 | 3215.2 | 3380.5 | 3668.8 | 4057.8 |
| 22.5° | 3098.3 | 3104.3 | 3066.0 | 3078.1 | 3158.8 | 3178.9 | 3324.1 | 3489.4 | 3751.4 | 4164.7 |
| 25° | 3243.4 | 3255.5 | 3197.1 | 3211.2 | 3287.8 | 3312.0 | 3479.3 | 3652.6 | 3882.4 | 4311.8 |
| 27.5° | 3410.7 | 3416.8 | 3366.4 | 3364.4 | 3463.2 | 3497.4 | 3666.8 | 3854.2 | 4057.8 | 4497.3 |
| 30° | 3602.2 | 3620.4 | 3572.0 | 3563.9 | 3688.9 | 3717.1 | 3884.5 | 4102.2 | 4315.8 | 4775.4 |
| 32.5° | 3753.4 | 3767.5 | 3739.3 | 3759.5 | 3886.5 | 3908.6 | 4148.5 | 4452.9 | 4721.0 | 5170.5 |
| 35° | 3971.1 | 3979.2 | 3914.7 | 3951.0 | 4096.1 | 4152.6 | 4509.4 | 4944.8 | 5231.0 | 5666.4 |
| 37.5° | 4759.3 | 4759.3 | 4485.2 | 4305.8 | 4444.9 | 4495.2 | 5003.2 | 5563.6 | 5860.0 | 6331.6 |
| 40° | 5849.9 | 5831.7 | 5430.6 | 5063.7 | 5045.6 | 5144.3 | 5706.7 | 6343.7 | 6672.3 | 7129.9 |
| 42.5° | 7013.0 | 6984.8 | 6438.5 | 6075.6 | 6015.2 | 6049.4 | 6519.1 | 7305.3 | 7639.9 | 8103.5 |
| 45° | 8045.1 | 8037.0 | 7537.1 | 7049.3 | 6940.4 | 7049.3 | 7533.1 | 8430.1 | 8670.0 | 9157.8 |
| 47.5° | 8909.9 | 8909.9 | 8545.0 | 8226.5 | 8170.1 | 8234.6 | 8905.8 | 9677.9 | 9655.7 | 10280.6 |
| 50° | 9905.7 | 9897.6 | 9550.9 | 9413.8 | 9472.3 | 9563.0 | 10486.2 | 10992.2 | 10675.7 | 11383.3 |
| 52.5° | 10603.1 | 10651.5 | 10532.6 | 10510.4 | 10808.8 | 10966.0 | 12090.8 | 12278.3 | 11588.9 | 12429.5 |
| 55° | 11155.5 | 11211.9 | 11349.0 | 11504.2 | 12078.7 | 12284.3 | 13645.0 | 13497.8 | 12352.9 | 13336.6 |
| 57.5° | 11937.6 | 11857.0 | 12068.6 | 12375.0 | 13304.3 | 13552.3 | 15150.8 | 14648.9 | 12967.7 | 14072.3 |
| 60° | 12887.1 | 12899.1 | 12935.4 | 13322.5 | 14527.9 | 14846.4 | 16634.4 | 15737.4 | 13362.8 | 14523.9 |
| 62.5° | 14028.0 | 14046.1 | 14120.7 | 14715.4 | 16170.8 | 16471.2 | 18214.8 | 16628.4 | 13544.2 | 14396.9 |
| 65° | 13949.4 | 14026.0 | 14858.5 | 16892.5 | 18668.4 | 18964.7 | 20059.3 | 17253.3 | 13270.1 | 13235.8 |
| 67.5° | 12707.6 | 12832.6 | 14225.6 | 19492.9 | 22433.9 | 22764.5 | 22288.8 | 17376.3 | 12086.8 | 10292.7 |
| 70° | 11078.9 | 11123.2 | 12798.4 | 21831.2 | 26794.1 | 27128.7 | 24284.4 | 16023.7 | 9171.9 | 5741.0 |
| 72.5° | 8651.8 | 8661.9 | 10627.3 | 22373.4 | 29160.7 | 29178.8 | 22718.1 | 11895.3 | 4932.7 | 2205.3 |
| 75° | 6180.5 | 6120.0 | 7117.8 | 18144.3 | 25655.2 | 25860.8 | 17031.6 | 5579.8 | 1884.8 | 1042.2 |
| 77.5° | 3314.0 | 3380.5 | 4027.6 | 10760.4 | 17723.0 | 18073.7 | 9292.9 | 1608.6 | 959.5 | 709.6 |
| 80° | 1024.0 | 1080.5 | 1650.9 | 4926.6 | 10038.7 | 10250.4 | 3445.0 | 715.6 | 669.2 | 506.0 |
| 82.5° | 322.5 | 334.6 | 770.0 | 2070.2 | 4166.7 | 4263.4 | 997.8 | 405.2 | 457.6 | 334.6 |
| 85° | 92.7 | 94.7 | 342.7 | 772.1 | 1030.1 | 1050.2 | 280.2 | 157.2 | 262.1 | 207.6 |
| 87.5° | 10.1 | 32.3 | 129.0 | 129.0 | 90.7 | 88.7 | 30.2 | 34.3 | 74.6 | 26.2 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3987.3 | 0° | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 | 3987.3 |
| 4005.4 | 2.5° | 3995.3 | 3997.3 | 3971.1 | 3926.8 | 3878.4 | 3838.1 | 3787.7 | 3747.4 | 3719.2 | 3711.1 |
| 4041.7 | 5° | 4023.6 | 4009.4 | 3934.9 | 3799.8 | 3638.5 | 3499.4 | 3344.2 | 3221.3 | 3140.6 | 3106.4 |
| 4080.0 | 7.5° | 4065.9 | 4025.6 | 3862.3 | 3596.2 | 3287.8 | 3013.6 | 2735.5 | 2519.8 | 2382.7 | 2314.1 |
| 4116.3 | 10° | 4102.2 | 4021.5 | 3741.3 | 3301.9 | 2830.2 | 2414.9 | 2040.0 | 1780.0 | 1634.8 | 1566.3 |
| 4158.6 | 12.5° | 4136.4 | 4019.5 | 3584.1 | 2953.2 | 2314.1 | 1806.2 | 1457.4 | 1328.4 | 1288.1 | 1274.0 |
| 4227.1 | 15° | 4200.9 | 4025.6 | 3386.6 | 2554.0 | 1800.1 | 1364.7 | 1237.7 | 1235.7 | 1243.8 | 1239.7 |
| 4332.0 | 17.5° | 4289.6 | 4031.6 | 3162.8 | 2130.7 | 1388.9 | 1203.4 | 1197.4 | 1215.5 | 1227.6 | 1221.6 |
| 4463.0 | 20° | 4404.5 | 4055.8 | 2924.9 | 1711.4 | 1193.4 | 1163.1 | 1177.2 | 1193.4 | 1203.4 | 1193.4 |
| 4638.4 | 22.5° | 4565.8 | 4098.1 | 2664.9 | 1374.8 | 1130.9 | 1138.9 | 1151.0 | 1169.2 | 1179.2 | 1165.1 |
| 4862.1 | 25° | 4763.4 | 4164.7 | 2408.9 | 1195.4 | 1100.6 | 1110.7 | 1128.9 | 1149.0 | 1161.1 | 1147.0 |
| 5144.3 | 27.5° | 5019.4 | 4271.5 | 2173.0 | 1155.1 | 1070.4 | 1076.4 | 1102.6 | 1132.9 | 1149.0 | 1130.9 |
| 5545.5 | 30° | 5390.3 | 4446.9 | 1969.4 | 1173.2 | 1052.3 | 1038.1 | 1074.4 | 1116.8 | 1134.9 | 1118.8 |
| 6091.8 | 32.5° | 5882.1 | 4694.8 | 1844.5 | 1201.4 | 1044.2 | 993.8 | 1028.1 | 1082.5 | 1112.7 | 1102.6 |
| 6805.4 | 35° | 6527.2 | 5071.8 | 1796.1 | 1233.7 | 1038.1 | 947.4 | 971.6 | 1030.1 | 1082.5 | 1092.6 |
| 7704.4 | 37.5° | 7309.3 | 5595.9 | 1810.2 | 1247.8 | 1020.0 | 909.1 | 921.2 | 971.6 | 1040.2 | 1072.4 |
| 8716.3 | 40° | 8198.3 | 6206.7 | 1890.8 | 1233.7 | 999.8 | 876.9 | 878.9 | 917.2 | 977.7 | 1026.0 |
| 9804.9 | 42.5° | 9115.5 | 6920.3 | 2040.0 | 1181.3 | 981.7 | 848.7 | 842.6 | 868.8 | 909.1 | 943.4 |
| 10891.4 | 45° | 9988.3 | 7654.0 | 2187.2 | 1108.7 | 959.5 | 820.4 | 806.3 | 816.4 | 824.5 | 838.6 |
| 11949.7 | 47.5° | 10750.3 | 8170.1 | 2144.8 | 1042.2 | 929.3 | 788.2 | 764.0 | 760.0 | 735.8 | 733.8 |
| 12895.1 | 50° | 11276.4 | 8283.0 | 1904.9 | 975.7 | 884.9 | 751.9 | 713.6 | 689.4 | 647.1 | 626.9 |
| 13602.7 | 52.5° | 11443.7 | 7837.5 | 1556.2 | 909.1 | 812.4 | 703.5 | 649.1 | 610.8 | 558.4 | 540.2 |
| 14009.9 | 55° | 11222.0 | 6964.6 | 1243.8 | 828.5 | 711.6 | 639.0 | 578.5 | 528.1 | 485.8 | 463.6 |
| 14054.2 | 57.5° | 10679.7 | 5853.9 | 983.7 | 733.8 | 604.7 | 566.4 | 506.0 | 455.6 | 419.3 | 397.1 |
| 13562.3 | 60° | 9780.7 | 4648.5 | 778.1 | 620.9 | 516.0 | 487.8 | 425.3 | 393.1 | 360.8 | 334.6 |
| 12292.4 | 62.5° | 8416.0 | 3318.0 | 610.8 | 491.9 | 431.4 | 399.1 | 362.8 | 338.7 | 300.4 | 264.1 |
| 10008.5 | 65° | 6567.5 | 2029.9 | 471.7 | 360.8 | 346.7 | 330.6 | 308.4 | 286.2 | 239.9 | 203.6 |
| 6529.2 | 67.5° | 4142.5 | 961.5 | 336.6 | 272.1 | 274.1 | 266.1 | 256.0 | 237.9 | 203.6 | 171.3 |
| 2924.9 | 70° | 1824.3 | 465.7 | 221.7 | 207.6 | 203.6 | 203.6 | 211.7 | 205.6 | 173.4 | 143.1 |
| 1016.0 | 72.5° | 620.9 | 250.0 | 165.3 | 157.2 | 147.2 | 145.1 | 177.4 | 171.3 | 139.1 | 110.9 |
| 506.0 | 75° | 324.5 | 167.3 | 120.9 | 112.9 | 88.7 | 106.8 | 141.1 | 133.0 | 98.8 | 72.6 |
| 334.6 | 77.5° | 211.7 | 118.9 | 82.6 | 72.6 | 50.4 | 70.6 | 104.8 | 92.7 | 58.5 | 36.3 |
| 219.7 | 80° | 133.0 | 78.6 | 48.4 | 34.3 | 24.2 | 38.3 | 56.4 | 40.3 | 22.2 | 8.1 |
| 129.0 | 82.5° | 70.6 | 40.3 | 18.1 | 12.1 | 10.1 | 12.1 | 14.1 | 10.1 | 4.0 | 0.0 |
| 66.5 | 85° | 28.2 | 14.1 | 6.0 | 4.0 | 2.0 | 0.0 | 4.0 | 2.0 | 0.0 | 0.0 |
| 12.1 | 87.5° | 10.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° |
|--------|
| 3987.3 |
| 3725.2 |
| 3118.5 |
| 2324.2 |
| 1568.3 |
| 1270.0 |
| 1237.7 |
| 1219.6 |
| 1191.3 |
| 1163.1 |
| 1145.0 |
| 1130.9 |
| 1116.8 |
| 1102.6 |
| 1092.6 |
| 1080.5 |
| 1042.2 |
| 957.5 |
| 846.6 |
| 731.7 |
| 628.9 |
| 538.2 |
| 463.6 |
| 393.1 |
| 328.6 |
| 258.0 |
| 197.5 |
| 167.3 |
| 137.1 |
| 104.8 |
| 66.5 |
| 32.3 |
| 6.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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