

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: P852918

Luminaire Tested: **GLAN-SB7B-840-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852918
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-SB7B-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA 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: 26965 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

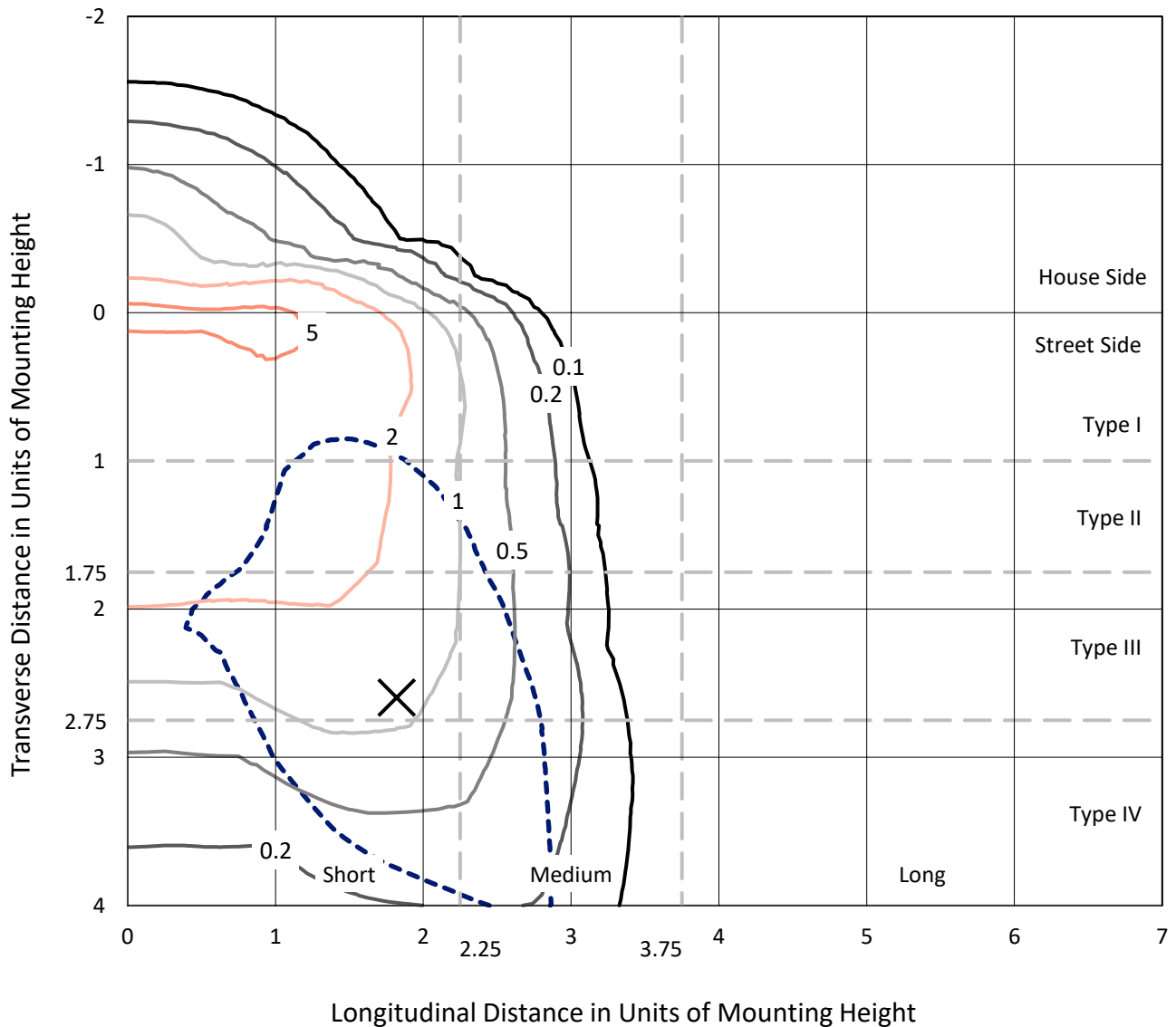
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

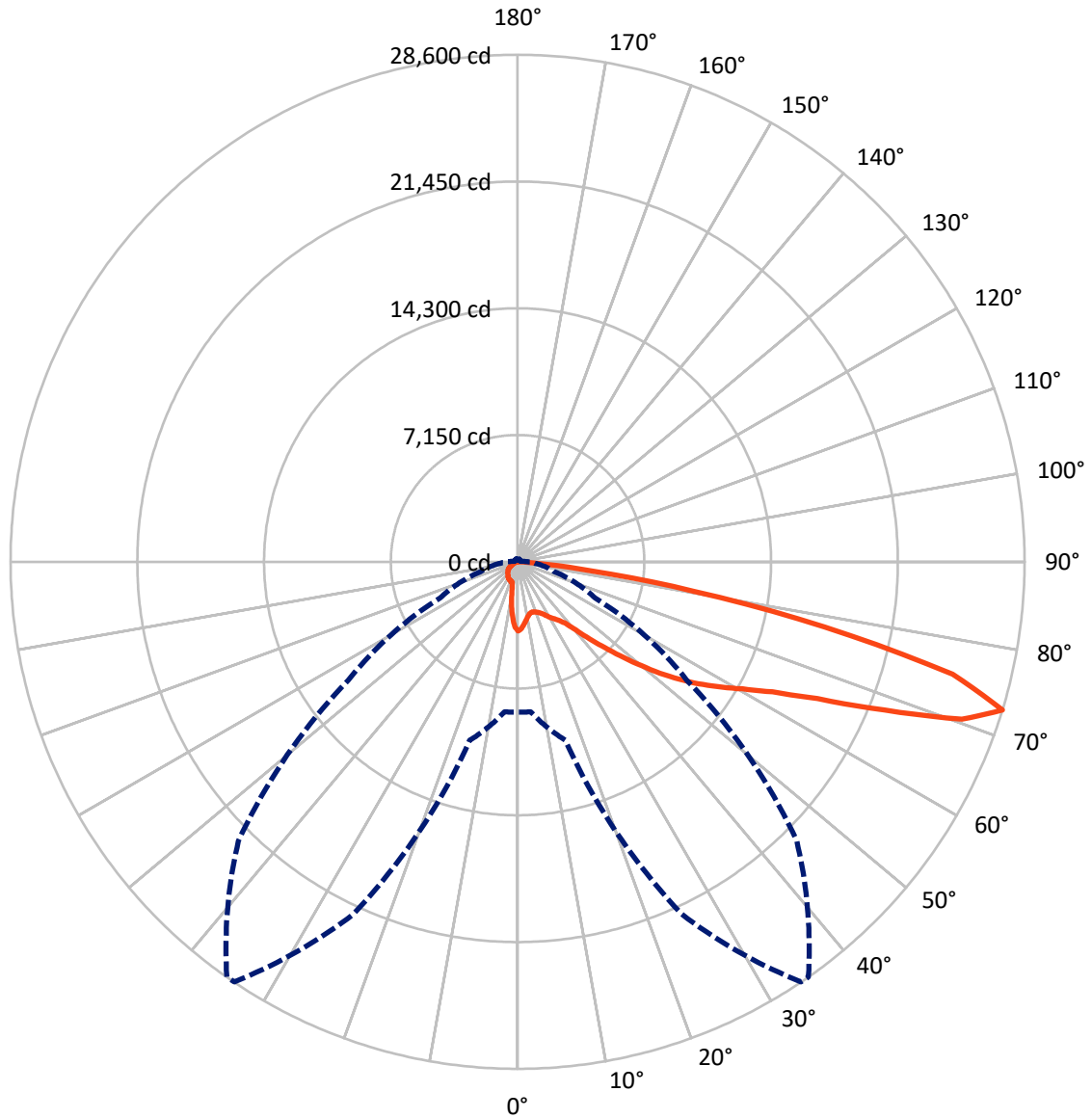
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 3034.8 | 0.0 | 3034.8 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 23930.2 | 0.0 | 23930.2 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 26965.0 | 0.0 | 26965.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 321.1 | 1.2 |
| 10°-20° | 751.3 | 2.8 |
| 20°-30° | 1220.4 | 4.5 |
| 30°-40° | 2036.3 | 7.6 |
| 40°-50° | 3852.7 | 14.3 |
| 50°-60° | 6121.9 | 22.7 |
| 60°-70° | 7573.2 | 28.1 |
| 70°-80° | 4707.6 | 17.5 |
| 80°-90° | 380.5 | 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° | 26965.0 | 100.0 |
| 0°-180° | 26965.0 | 100.0 |

Coefficient of Utilization

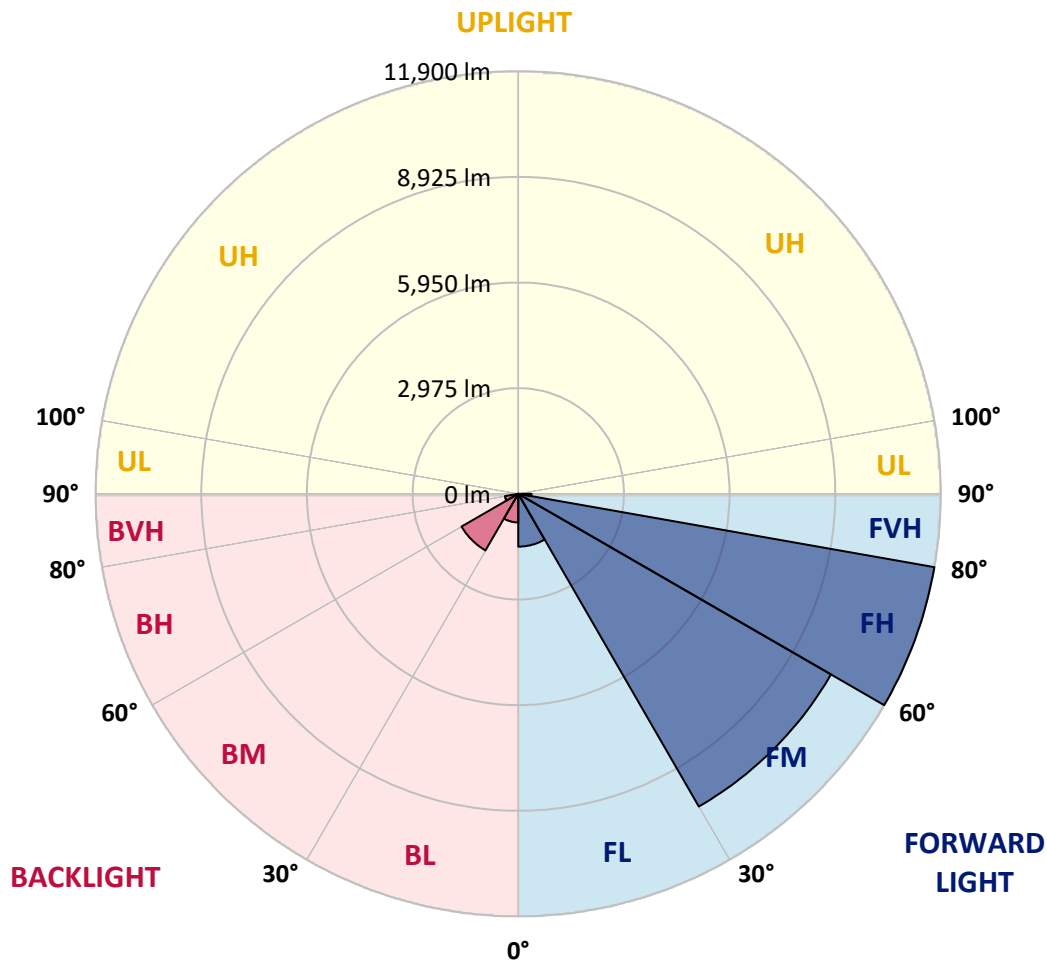


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1486.5 | 5.5 | | | |
| FM | (30°-60°) | 10168.5 | 37.7 | | | |
| FH | (60°-80°) | 11900.0 | 44.1 | | | G4/12000 |
| FVH | (80°-90°) | 375.3 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 806.4 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 1842.4 | 6.8 | B2/2500 | | |
| BH | (60°-80°) | 380.8 | 1.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.2 | 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-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 |
| 2.5° | 3734.3 | 3765.9 | 3771.8 | 3781.7 | 3781.7 | 3793.5 | 3813.3 | 3841.0 | 3886.4 | 3910.1 |
| 5° | 3441.8 | 3465.6 | 3495.2 | 3518.9 | 3564.3 | 3570.3 | 3647.3 | 3722.4 | 3827.1 | 3906.2 |
| 7.5° | 3147.4 | 3175.1 | 3214.6 | 3271.9 | 3331.2 | 3349.0 | 3465.6 | 3592.0 | 3758.0 | 3906.2 |
| 10° | 2940.0 | 2942.0 | 2977.5 | 3034.8 | 3129.7 | 3151.4 | 3293.7 | 3473.5 | 3680.9 | 3882.4 |
| 12.5° | 2823.4 | 2837.2 | 2853.1 | 2896.5 | 2987.4 | 3001.2 | 3153.4 | 3364.8 | 3603.9 | 3868.6 |
| 15° | 2823.4 | 2833.3 | 2843.2 | 2864.9 | 2938.0 | 2949.9 | 3084.2 | 3295.6 | 3564.3 | 3874.5 |
| 17.5° | 2853.1 | 2868.9 | 2861.0 | 2886.6 | 2963.7 | 2971.6 | 3090.2 | 3275.9 | 3562.4 | 3912.1 |
| 20° | 2924.2 | 2936.0 | 2920.2 | 2936.0 | 3013.1 | 3028.9 | 3151.4 | 3313.4 | 3596.0 | 3977.3 |
| 22.5° | 3036.8 | 3042.7 | 3005.2 | 3017.0 | 3096.1 | 3115.8 | 3258.1 | 3420.1 | 3677.0 | 4082.0 |
| 25° | 3179.1 | 3190.9 | 3133.6 | 3147.4 | 3222.5 | 3246.2 | 3410.2 | 3580.1 | 3805.4 | 4226.2 |
| 27.5° | 3343.1 | 3349.0 | 3299.6 | 3297.6 | 3394.4 | 3428.0 | 3594.0 | 3777.7 | 3977.3 | 4408.0 |
| 30° | 3530.8 | 3548.5 | 3501.1 | 3493.2 | 3615.7 | 3643.4 | 3807.4 | 4020.8 | 4230.2 | 4680.7 |
| 32.5° | 3678.9 | 3692.8 | 3665.1 | 3684.9 | 3809.3 | 3831.1 | 4066.2 | 4364.5 | 4627.3 | 5067.9 |
| 35° | 3892.3 | 3900.2 | 3837.0 | 3872.6 | 4014.8 | 4070.1 | 4419.9 | 4846.6 | 5127.2 | 5554.0 |
| 37.5° | 4664.9 | 4664.9 | 4396.2 | 4220.3 | 4356.6 | 4406.0 | 4903.9 | 5453.2 | 5743.7 | 6206.0 |
| 40° | 5733.8 | 5716.0 | 5322.8 | 4963.2 | 4945.4 | 5042.2 | 5593.5 | 6217.8 | 6539.9 | 6988.4 |
| 42.5° | 6873.8 | 6846.1 | 6310.7 | 5955.1 | 5895.8 | 5929.4 | 6389.7 | 7160.3 | 7488.3 | 7942.7 |
| 45° | 7885.4 | 7877.5 | 7387.5 | 6909.4 | 6802.7 | 6909.4 | 7383.6 | 8262.8 | 8497.9 | 8976.1 |
| 47.5° | 8733.0 | 8733.0 | 8375.4 | 8063.2 | 8007.9 | 8071.1 | 8729.1 | 9485.8 | 9464.1 | 10076.6 |
| 50° | 9709.1 | 9701.2 | 9361.3 | 9227.0 | 9284.3 | 9373.2 | 10278.1 | 10774.0 | 10463.8 | 11157.3 |
| 52.5° | 10392.7 | 10440.1 | 10323.6 | 10301.8 | 10594.2 | 10748.4 | 11850.8 | 12034.6 | 11358.9 | 12182.8 |
| 55° | 10934.1 | 10989.4 | 11123.8 | 11275.9 | 11839.0 | 12040.5 | 13374.2 | 13230.0 | 12107.7 | 13071.9 |
| 57.5° | 11700.7 | 11621.7 | 11829.1 | 12129.4 | 13040.3 | 13283.3 | 14850.1 | 14358.1 | 12710.3 | 13793.1 |
| 60° | 12631.3 | 12643.1 | 12678.7 | 13058.1 | 14239.6 | 14551.8 | 16304.3 | 15425.1 | 13097.6 | 14235.6 |
| 62.5° | 13749.6 | 13767.4 | 13840.5 | 14423.3 | 15849.9 | 16144.3 | 17853.3 | 16298.4 | 13275.4 | 14111.2 |
| 65° | 13672.5 | 13747.6 | 14563.6 | 16557.2 | 18297.9 | 18588.3 | 19661.2 | 16910.9 | 13006.7 | 12973.1 |
| 67.5° | 12455.4 | 12577.9 | 13943.2 | 19106.0 | 21988.7 | 22312.7 | 21846.4 | 17031.4 | 11846.9 | 10088.4 |
| 70° | 10859.0 | 10902.5 | 12544.4 | 21397.9 | 26262.3 | 26590.3 | 23802.5 | 15705.6 | 8989.9 | 5627.1 |
| 72.5° | 8480.1 | 8490.0 | 10416.4 | 21929.4 | 28581.9 | 28599.7 | 22267.3 | 11659.2 | 4834.8 | 2161.5 |
| 75° | 6057.8 | 5998.5 | 6976.6 | 17784.2 | 25146.0 | 25347.5 | 16693.5 | 5469.0 | 1847.4 | 1021.5 |
| 77.5° | 3248.2 | 3313.4 | 3947.6 | 10546.8 | 17371.2 | 17715.0 | 9108.4 | 1576.7 | 940.5 | 695.5 |
| 80° | 1003.7 | 1059.0 | 1618.2 | 4828.9 | 9839.5 | 10046.9 | 3376.6 | 701.4 | 656.0 | 495.9 |
| 82.5° | 316.1 | 328.0 | 754.8 | 2029.1 | 4084.0 | 4178.8 | 978.0 | 397.1 | 448.5 | 328.0 |
| 85° | 90.9 | 92.9 | 335.9 | 756.7 | 1009.6 | 1029.4 | 274.6 | 154.1 | 256.9 | 203.5 |
| 87.5° | 9.9 | 31.6 | 126.5 | 126.5 | 88.9 | 86.9 | 29.6 | 33.6 | 73.1 | 25.7 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3908.1 | 0° | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 | 3908.1 |
| 3925.9 | 2.5° | 3916.0 | 3918.0 | 3892.3 | 3848.9 | 3801.4 | 3761.9 | 3712.5 | 3673.0 | 3645.4 | 3637.4 |
| 3961.5 | 5° | 3943.7 | 3929.9 | 3856.8 | 3724.4 | 3566.3 | 3430.0 | 3277.9 | 3157.3 | 3078.3 | 3044.7 |
| 3999.0 | 7.5° | 3985.2 | 3945.7 | 3785.6 | 3524.8 | 3222.5 | 2953.8 | 2681.2 | 2469.8 | 2335.4 | 2268.2 |
| 4034.6 | 10° | 4020.8 | 3941.7 | 3667.1 | 3236.4 | 2774.0 | 2367.0 | 1999.5 | 1744.6 | 1602.4 | 1535.2 |
| 4076.1 | 12.5° | 4054.3 | 3939.7 | 3513.0 | 2894.5 | 2268.2 | 1770.3 | 1428.5 | 1302.1 | 1262.5 | 1248.7 |
| 4143.3 | 15° | 4117.6 | 3945.7 | 3319.3 | 2503.3 | 1764.4 | 1337.6 | 1213.1 | 1211.2 | 1219.1 | 1215.1 |
| 4246.0 | 17.5° | 4204.5 | 3951.6 | 3100.0 | 2088.4 | 1361.3 | 1179.6 | 1173.6 | 1191.4 | 1203.3 | 1197.3 |
| 4374.4 | 20° | 4317.1 | 3975.3 | 2866.9 | 1677.5 | 1169.7 | 1140.0 | 1153.9 | 1169.7 | 1179.6 | 1169.7 |
| 4546.3 | 22.5° | 4475.2 | 4016.8 | 2612.0 | 1347.5 | 1108.4 | 1116.3 | 1128.2 | 1146.0 | 1155.8 | 1142.0 |
| 4765.6 | 25° | 4668.8 | 4082.0 | 2361.1 | 1171.6 | 1078.8 | 1088.7 | 1106.4 | 1126.2 | 1138.1 | 1124.2 |
| 5042.2 | 27.5° | 4919.7 | 4186.7 | 2129.9 | 1132.1 | 1049.1 | 1055.1 | 1080.8 | 1110.4 | 1126.2 | 1108.4 |
| 5435.4 | 30° | 5283.3 | 4358.6 | 1930.4 | 1149.9 | 1031.4 | 1017.5 | 1053.1 | 1094.6 | 1112.4 | 1096.6 |
| 5970.9 | 32.5° | 5765.4 | 4601.6 | 1807.9 | 1177.6 | 1023.5 | 974.1 | 1007.7 | 1061.0 | 1090.6 | 1080.8 |
| 6670.3 | 35° | 6397.6 | 4971.1 | 1760.4 | 1209.2 | 1017.5 | 928.6 | 952.3 | 1009.6 | 1061.0 | 1070.9 |
| 7551.5 | 37.5° | 7164.3 | 5484.8 | 1774.3 | 1223.0 | 999.8 | 891.1 | 902.9 | 952.3 | 1019.5 | 1051.1 |
| 8543.4 | 40° | 8035.6 | 6083.5 | 1853.3 | 1209.2 | 980.0 | 859.5 | 861.4 | 899.0 | 958.3 | 1005.7 |
| 9610.3 | 42.5° | 8934.6 | 6782.9 | 1999.5 | 1157.8 | 962.2 | 831.8 | 825.9 | 851.6 | 891.1 | 924.7 |
| 10675.2 | 45° | 9790.1 | 7502.1 | 2143.7 | 1086.7 | 940.5 | 804.2 | 790.3 | 800.2 | 808.1 | 821.9 |
| 11712.5 | 47.5° | 10536.9 | 8007.9 | 2102.3 | 1021.5 | 910.8 | 772.5 | 748.8 | 744.9 | 721.2 | 719.2 |
| 12639.2 | 50° | 11052.6 | 8118.6 | 1867.1 | 956.3 | 867.4 | 737.0 | 699.4 | 675.7 | 634.2 | 614.5 |
| 13332.7 | 52.5° | 11216.6 | 7681.9 | 1525.3 | 891.1 | 796.2 | 689.6 | 636.2 | 598.7 | 547.3 | 529.5 |
| 13731.8 | 55° | 10999.3 | 6826.4 | 1219.1 | 812.1 | 697.5 | 626.3 | 567.1 | 517.7 | 476.2 | 454.4 |
| 13775.3 | 57.5° | 10467.8 | 5737.7 | 964.2 | 719.2 | 592.7 | 555.2 | 495.9 | 446.5 | 411.0 | 389.2 |
| 13293.2 | 60° | 9586.6 | 4556.2 | 762.7 | 608.5 | 505.8 | 478.1 | 416.9 | 385.3 | 353.7 | 328.0 |
| 12048.4 | 62.5° | 8249.0 | 3252.2 | 598.7 | 482.1 | 422.8 | 391.2 | 355.6 | 331.9 | 294.4 | 258.8 |
| 9809.8 | 65° | 6437.2 | 1989.6 | 462.3 | 353.7 | 339.8 | 324.0 | 302.3 | 280.6 | 235.1 | 199.6 |
| 6399.6 | 67.5° | 4060.3 | 942.5 | 330.0 | 266.7 | 268.7 | 260.8 | 250.9 | 233.1 | 199.6 | 167.9 |
| 2866.9 | 70° | 1788.1 | 456.4 | 217.3 | 203.5 | 199.6 | 199.6 | 207.5 | 201.5 | 169.9 | 140.3 |
| 995.8 | 72.5° | 608.5 | 245.0 | 162.0 | 154.1 | 144.2 | 142.3 | 173.9 | 167.9 | 136.3 | 108.7 |
| 495.9 | 75° | 318.1 | 164.0 | 118.5 | 110.6 | 86.9 | 104.7 | 138.3 | 130.4 | 96.8 | 71.1 |
| 328.0 | 77.5° | 207.5 | 116.6 | 81.0 | 71.1 | 49.4 | 69.2 | 102.7 | 90.9 | 57.3 | 35.6 |
| 215.4 | 80° | 130.4 | 77.1 | 47.4 | 33.6 | 23.7 | 37.5 | 55.3 | 39.5 | 21.7 | 7.9 |
| 126.5 | 82.5° | 69.2 | 39.5 | 17.8 | 11.9 | 9.9 | 11.9 | 13.8 | 9.9 | 4.0 | 0.0 |
| 65.2 | 85° | 27.7 | 13.8 | 5.9 | 4.0 | 2.0 | 0.0 | 4.0 | 2.0 | 0.0 | 0.0 |
| 11.9 | 87.5° | 9.9 | 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° |
|--------|
| 3908.1 |
| 3651.3 |
| 3056.6 |
| 2278.1 |
| 1537.2 |
| 1244.8 |
| 1213.1 |
| 1195.4 |
| 1167.7 |
| 1140.0 |
| 1122.3 |
| 1108.4 |
| 1094.6 |
| 1080.8 |
| 1070.9 |
| 1059.0 |
| 1021.5 |
| 938.5 |
| 829.8 |
| 717.2 |
| 616.4 |
| 527.5 |
| 454.4 |
| 385.3 |
| 322.1 |
| 252.9 |
| 193.6 |
| 164.0 |
| 134.4 |
| 102.7 |
| 65.2 |
| 31.6 |
| 5.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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