

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: P850533

Luminaire Tested: **GLAN-SB8A-830-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30873 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

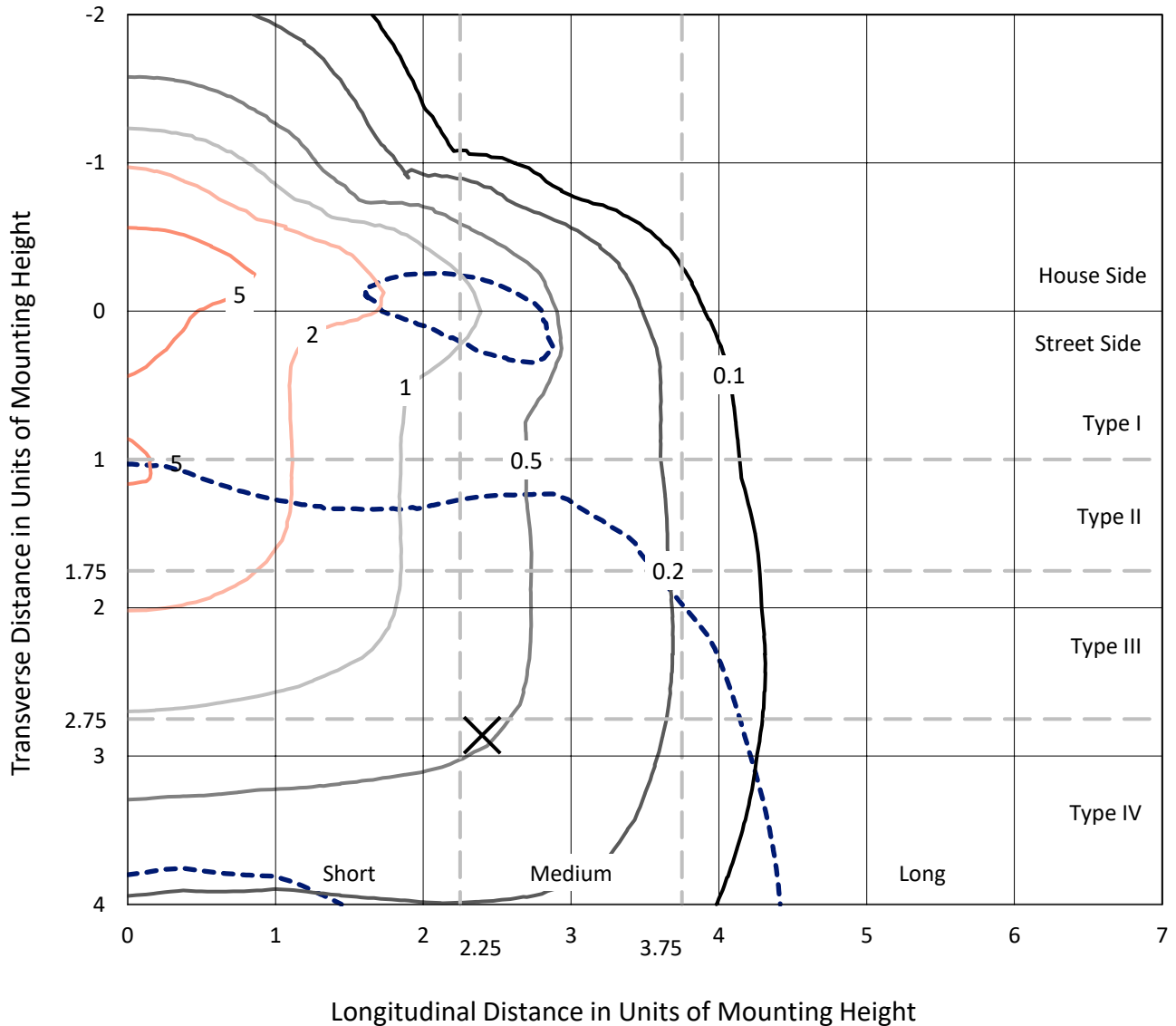
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

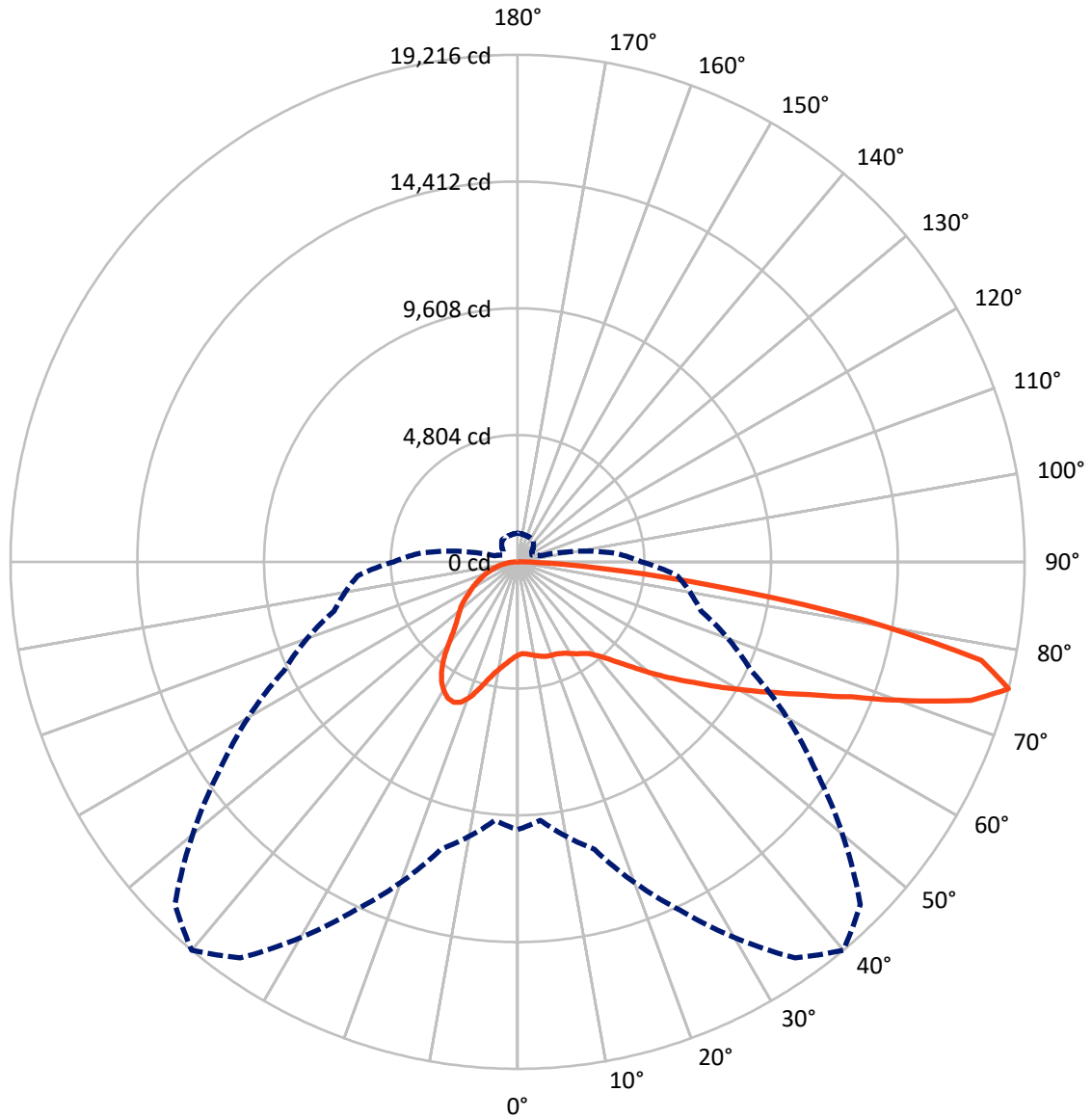
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9565.5 | 0.0 | 9565.5 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 21307.5 | 0.0 | 21307.5 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 30873.0 | 0.0 | 30873.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 352.4 | 1.1 |
| 10°-20° | 1183.2 | 3.8 |
| 20°-30° | 2160.4 | 7.0 |
| 30°-40° | 3064.0 | 9.9 |
| 40°-50° | 4137.3 | 13.4 |
| 50°-60° | 5565.8 | 18.0 |
| 60°-70° | 7064.2 | 22.9 |
| 70°-80° | 6411.2 | 20.8 |
| 80°-90° | 934.6 | 3.0 |
| 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° | 30873.0 | 100.0 |
| 0°-180° | 30873.0 | 100.0 |

Coefficient of Utilization

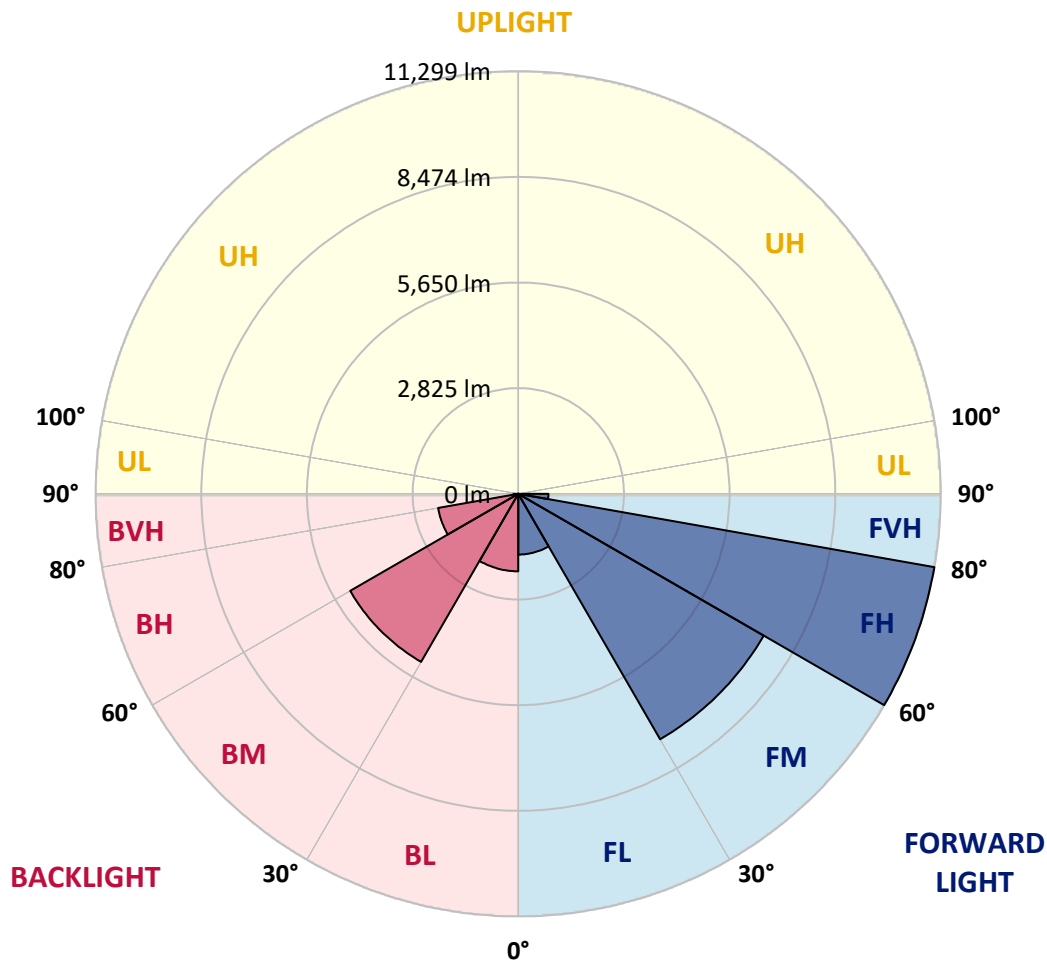


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1623.9 | 5.3 | | | |
| FM (30°-60°) | 7578.6 | 24.5 | | | |
| FH (60°-80°) | 11299.0 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 805.9 | 2.6 | | | G5 |
| BL (0°-30°) | 2072.0 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5188.4 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2176.4 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 128.7 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 |
| 2.5° | 3476.3 | 3496.0 | 3491.1 | 3484.5 | 3484.5 | 3486.2 | 3484.5 | 3496.0 | 3507.4 | 3518.9 |
| 5° | 3512.4 | 3532.0 | 3522.2 | 3514.0 | 3507.4 | 3505.8 | 3500.9 | 3499.3 | 3505.8 | 3520.5 |
| 7.5° | 3582.8 | 3602.4 | 3587.7 | 3572.9 | 3559.8 | 3553.3 | 3546.7 | 3536.9 | 3532.0 | 3540.2 |
| 10° | 3661.4 | 3681.0 | 3663.0 | 3636.8 | 3615.5 | 3607.3 | 3600.8 | 3591.0 | 3584.4 | 3589.3 |
| 12.5° | 3740.0 | 3759.6 | 3735.1 | 3699.0 | 3671.2 | 3666.3 | 3658.1 | 3654.8 | 3653.2 | 3651.5 |
| 15° | 3813.6 | 3830.0 | 3798.9 | 3756.3 | 3726.9 | 3718.7 | 3710.5 | 3715.4 | 3723.6 | 3733.4 |
| 17.5° | 3871.0 | 3887.3 | 3841.5 | 3785.8 | 3758.0 | 3754.7 | 3749.8 | 3766.2 | 3789.1 | 3813.6 |
| 20° | 3923.4 | 3939.7 | 3880.8 | 3805.5 | 3772.7 | 3772.7 | 3774.4 | 3808.7 | 3841.5 | 3877.5 |
| 22.5° | 3997.0 | 4010.1 | 3938.1 | 3834.9 | 3787.5 | 3790.7 | 3803.8 | 3838.2 | 3879.1 | 3928.3 |
| 25° | 4106.8 | 4116.6 | 4028.2 | 3890.6 | 3836.6 | 3846.4 | 3857.9 | 3874.2 | 3913.5 | 3970.8 |
| 27.5° | 4283.6 | 4291.8 | 4175.5 | 3988.9 | 3907.0 | 3923.4 | 3939.7 | 3928.3 | 3946.3 | 3995.4 |
| 30° | 4532.5 | 4537.4 | 4390.0 | 4142.8 | 4026.5 | 4034.7 | 4038.0 | 3990.5 | 3956.1 | 3995.4 |
| 32.5° | 4827.2 | 4825.6 | 4650.4 | 4329.5 | 4162.4 | 4154.2 | 4126.4 | 4033.1 | 3952.8 | 3987.2 |
| 35° | 5284.1 | 5266.1 | 5040.1 | 4591.4 | 4316.4 | 4265.6 | 4200.1 | 4080.6 | 3969.2 | 3979.0 |
| 37.5° | 6040.6 | 5984.9 | 5672.2 | 5020.5 | 4545.6 | 4416.2 | 4319.6 | 4157.5 | 4005.2 | 3975.8 |
| 40° | 6893.7 | 6823.3 | 6479.4 | 5608.3 | 4889.5 | 4681.5 | 4525.9 | 4267.2 | 4064.2 | 3990.5 |
| 42.5° | 7905.7 | 7805.8 | 7435.7 | 6301.0 | 5325.0 | 5023.7 | 4789.6 | 4406.4 | 4151.0 | 4038.0 |
| 45° | 9148.5 | 9015.9 | 8491.9 | 7082.0 | 5873.6 | 5472.4 | 5159.6 | 4617.6 | 4283.6 | 4129.7 |
| 47.5° | 10404.4 | 10437.2 | 9692.1 | 7976.1 | 6531.8 | 6025.9 | 5623.0 | 4935.3 | 4476.8 | 4277.1 |
| 50° | 11739.0 | 11761.9 | 10885.8 | 8966.7 | 7278.5 | 6651.4 | 6143.8 | 5290.6 | 4745.4 | 4486.6 |
| 52.5° | 12780.4 | 12783.7 | 11969.8 | 10003.3 | 8056.3 | 7339.1 | 6705.4 | 5696.7 | 5056.5 | 4765.0 |
| 55° | 13432.1 | 13423.9 | 12729.6 | 10984.1 | 8950.4 | 8061.2 | 7327.6 | 6158.5 | 5436.4 | 5092.5 |
| 57.5° | 13905.3 | 13880.8 | 13253.6 | 11827.4 | 9903.4 | 8914.3 | 8031.8 | 6682.5 | 5885.0 | 5482.2 |
| 60° | 14085.5 | 14070.7 | 13608.9 | 12556.1 | 10905.5 | 9857.5 | 8843.9 | 7268.7 | 6394.3 | 5942.4 |
| 62.5° | 14154.2 | 14182.1 | 13957.7 | 13261.8 | 11978.0 | 10902.2 | 9736.4 | 7969.5 | 6967.4 | 6463.1 |
| 65° | 14396.6 | 14447.3 | 14401.5 | 14185.3 | 13189.8 | 12125.4 | 10920.2 | 8803.0 | 7592.9 | 7021.4 |
| 67.5° | 14876.3 | 14927.1 | 14946.8 | 15290.6 | 14670.0 | 13649.9 | 12397.2 | 9841.1 | 8324.9 | 7601.1 |
| 70° | 14864.9 | 14850.1 | 15197.3 | 16169.9 | 16523.6 | 15760.6 | 14388.4 | 11118.4 | 9197.6 | 8082.5 |
| 72.5° | 13530.4 | 13412.5 | 14232.8 | 16160.1 | 18066.1 | 17964.6 | 16820.0 | 12765.7 | 9950.9 | 8141.5 |
| 75° | 10150.6 | 9836.2 | 11285.4 | 14563.6 | 18323.2 | 19215.6 | 18365.8 | 13787.4 | 9772.4 | 7193.4 |
| 77.5° | 4340.9 | 4024.9 | 5732.8 | 10781.1 | 16399.2 | 17963.0 | 16947.7 | 12028.8 | 7800.9 | 4756.8 |
| 80° | 1136.4 | 1134.8 | 1732.4 | 4887.8 | 11152.8 | 13265.1 | 11637.4 | 7768.1 | 4457.2 | 1699.7 |
| 82.5° | 470.0 | 458.5 | 637.0 | 1901.1 | 5449.5 | 7443.9 | 6075.0 | 3464.9 | 1609.6 | 460.1 |
| 85° | 175.2 | 173.6 | 309.5 | 656.6 | 1922.4 | 3070.2 | 2222.0 | 885.9 | 401.2 | 224.3 |
| 87.5° | 49.1 | 47.5 | 67.1 | 227.6 | 468.3 | 710.7 | 379.9 | 145.7 | 113.0 | 88.4 |
| 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: GLAN-SB8A-830-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3530.4 | 0° | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 | 3530.4 |
| 3536.9 | 2.5° | 3541.8 | 3550.0 | 3564.8 | 3576.2 | 3591.0 | 3607.3 | 3630.3 | 3645.0 | 3659.7 | 3669.6 |
| 3545.1 | 5° | 3556.6 | 3574.6 | 3612.2 | 3649.9 | 3694.1 | 3735.1 | 3782.5 | 3816.9 | 3844.8 | 3852.9 |
| 3574.6 | 7.5° | 3589.3 | 3618.8 | 3682.7 | 3746.5 | 3816.9 | 3884.1 | 3952.8 | 4011.8 | 4059.3 | 4077.3 |
| 3627.0 | 10° | 3646.6 | 3685.9 | 3776.0 | 3866.0 | 3959.4 | 4062.5 | 4151.0 | 4236.1 | 4303.3 | 4331.1 |
| 3689.2 | 12.5° | 3718.7 | 3767.8 | 3885.7 | 4010.1 | 4139.5 | 4282.0 | 4396.6 | 4501.4 | 4584.9 | 4622.6 |
| 3776.0 | 15° | 3812.0 | 3875.9 | 4026.5 | 4193.5 | 4383.5 | 4581.6 | 4727.4 | 4843.6 | 4936.9 | 4982.8 |
| 3866.0 | 17.5° | 3913.5 | 3998.7 | 4188.6 | 4440.8 | 4712.6 | 4973.0 | 5143.3 | 5228.4 | 5325.0 | 5369.2 |
| 3949.6 | 20° | 4011.8 | 4116.6 | 4388.4 | 4755.2 | 5117.1 | 5393.8 | 5531.3 | 5554.3 | 5560.8 | 5565.7 |
| 4028.2 | 22.5° | 4113.3 | 4254.1 | 4638.9 | 5151.5 | 5539.5 | 5731.1 | 5750.8 | 5652.5 | 5515.0 | 5451.1 |
| 4105.1 | 25° | 4224.7 | 4411.3 | 4966.4 | 5588.7 | 5903.1 | 5926.0 | 5775.3 | 5536.3 | 5275.9 | 5156.4 |
| 4167.3 | 27.5° | 4332.7 | 4593.1 | 5359.4 | 6006.2 | 6165.0 | 5963.6 | 5639.4 | 5300.5 | 4986.1 | 4860.0 |
| 4211.6 | 30° | 4440.8 | 4801.0 | 5793.3 | 6371.4 | 6284.6 | 5870.3 | 5424.9 | 5046.7 | 4730.6 | 4598.0 |
| 4250.9 | 32.5° | 4550.5 | 5043.4 | 6292.8 | 6635.0 | 6263.3 | 5672.2 | 5158.0 | 4761.7 | 4483.4 | 4344.2 |
| 4285.2 | 35° | 4675.0 | 5341.4 | 6766.0 | 6779.1 | 6120.8 | 5380.7 | 4806.0 | 4421.1 | 4178.8 | 4067.5 |
| 4326.2 | 37.5° | 4837.1 | 5719.7 | 7183.5 | 6815.1 | 5871.9 | 4953.3 | 4368.7 | 4018.3 | 3818.6 | 3767.8 |
| 4386.8 | 40° | 5038.5 | 6174.9 | 7502.9 | 6757.8 | 5503.5 | 4434.2 | 3890.6 | 3610.6 | 3497.6 | 3509.1 |
| 4468.6 | 42.5° | 5300.5 | 6684.1 | 7727.2 | 6610.4 | 4991.0 | 3898.8 | 3471.4 | 3347.0 | 3401.0 | 3446.9 |
| 4591.4 | 45° | 5641.1 | 7213.0 | 7866.4 | 6359.9 | 4411.3 | 3445.2 | 3224.2 | 3253.6 | 3294.6 | 3299.5 |
| 4789.6 | 47.5° | 6076.6 | 7748.5 | 7958.1 | 5981.6 | 3820.2 | 3125.9 | 3067.0 | 3073.5 | 3065.3 | 3030.9 |
| 5086.0 | 50° | 6620.3 | 8269.2 | 8039.9 | 5480.6 | 3317.5 | 2926.1 | 2847.5 | 2824.6 | 2711.6 | 2600.3 |
| 5480.6 | 52.5° | 7239.2 | 8747.3 | 8074.3 | 4858.4 | 2926.1 | 2759.1 | 2631.4 | 2487.3 | 2276.1 | 2241.7 |
| 5976.7 | 55° | 7927.0 | 9189.4 | 7985.9 | 4093.7 | 2597.0 | 2544.6 | 2351.4 | 2177.8 | 2154.9 | 2125.4 |
| 6630.1 | 57.5° | 8749.0 | 9665.9 | 7805.8 | 3240.5 | 2259.7 | 2294.1 | 2105.8 | 2125.4 | 2084.5 | 2038.6 |
| 7470.1 | 60° | 9647.9 | 10158.8 | 7489.8 | 2462.7 | 1910.9 | 1981.3 | 2041.9 | 2040.3 | 2028.8 | 1991.2 |
| 8356.0 | 62.5° | 10456.8 | 10483.0 | 6867.5 | 1886.4 | 1604.7 | 1739.0 | 1904.4 | 1902.7 | 1892.9 | 1871.6 |
| 9281.1 | 65° | 10938.2 | 10433.9 | 5829.4 | 1485.2 | 1352.5 | 1539.2 | 1717.7 | 1730.8 | 1732.4 | 1730.8 |
| 9977.1 | 67.5° | 10853.1 | 9859.2 | 4404.8 | 1182.2 | 1144.6 | 1336.2 | 1532.7 | 1550.7 | 1563.8 | 1567.1 |
| 10065.5 | 70° | 9890.3 | 8596.7 | 2872.1 | 943.2 | 959.6 | 1157.7 | 1357.5 | 1375.5 | 1386.9 | 1400.0 |
| 8734.2 | 72.5° | 7709.2 | 6320.6 | 1644.0 | 763.1 | 797.4 | 1003.8 | 1183.9 | 1205.2 | 1211.7 | 1236.3 |
| 6078.3 | 75° | 4697.9 | 3717.0 | 887.5 | 600.9 | 655.0 | 858.0 | 1012.0 | 1036.5 | 1048.0 | 1077.5 |
| 2985.1 | 77.5° | 2233.5 | 1609.6 | 506.0 | 468.3 | 527.3 | 700.8 | 854.8 | 882.6 | 851.5 | 867.9 |
| 823.6 | 80° | 754.9 | 597.7 | 319.3 | 357.0 | 402.8 | 546.9 | 684.5 | 712.3 | 646.8 | 643.5 |
| 273.5 | 82.5° | 263.6 | 242.3 | 203.0 | 237.4 | 260.4 | 391.4 | 517.4 | 553.5 | 481.4 | 479.8 |
| 122.8 | 85° | 103.2 | 98.2 | 113.0 | 129.4 | 155.6 | 240.7 | 340.6 | 358.6 | 296.4 | 239.1 |
| 36.0 | 87.5° | 21.3 | 22.9 | 27.8 | 29.5 | 47.5 | 83.5 | 122.8 | 150.6 | 119.5 | 101.5 |
| 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° |
|--------|
| 3530.4 |
| 3663.0 |
| 3856.2 |
| 4078.9 |
| 4332.7 |
| 4622.6 |
| 4979.5 |
| 5367.6 |
| 5578.8 |
| 5469.1 |
| 5174.4 |
| 4874.7 |
| 4612.7 |
| 4362.2 |
| 4092.0 |
| 3803.8 |
| 3548.4 |
| 3489.4 |
| 3332.2 |
| 3057.1 |
| 2615.0 |
| 2253.1 |
| 2130.3 |
| 2030.5 |
| 1978.1 |
| 1863.4 |
| 1730.8 |
| 1570.3 |
| 1406.6 |
| 1246.1 |
| 1080.7 |
| 854.8 |
| 637.0 |
| 456.9 |
| 235.8 |
| 93.3 |
| 0.0 |

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