

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: P847603

Luminaire Tested: **GLAN-SB3D-740-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847603
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-SB3D-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32020 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

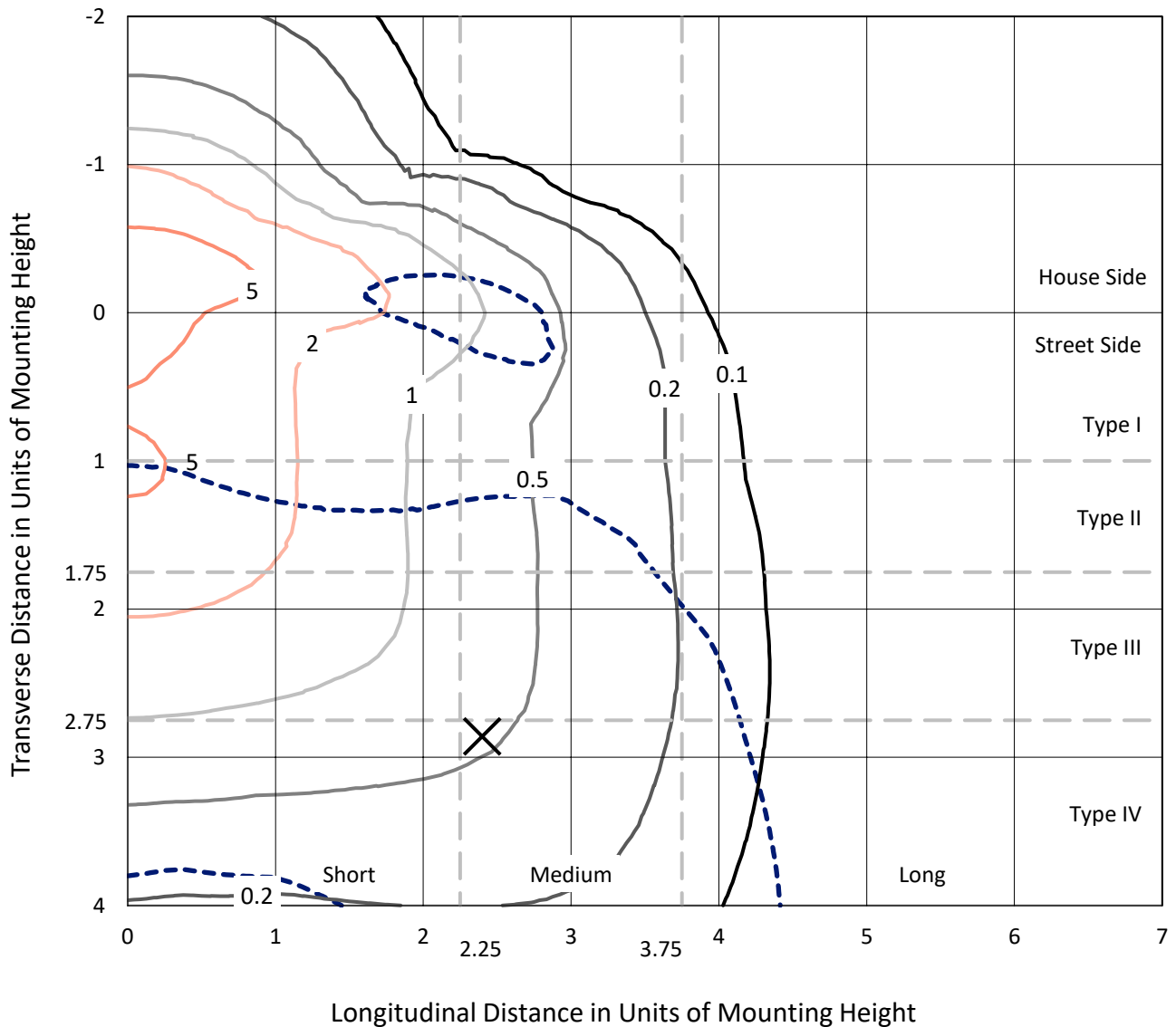
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

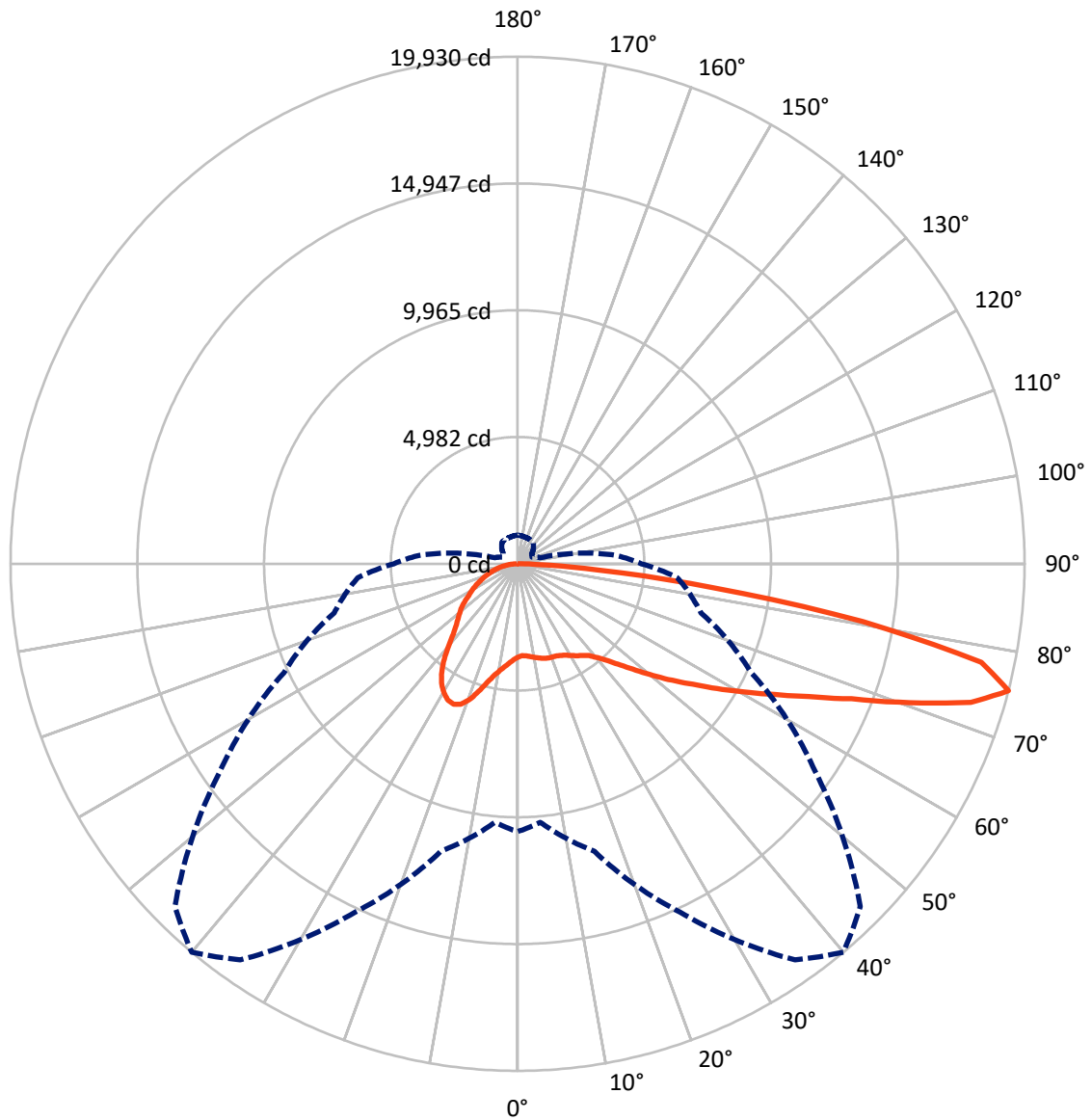
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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 | 9920.9 | 0.0 | 9920.9 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 22099.1 | 0.0 | 22099.1 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 32020.0 | 0.0 | 32020.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 365.5 | 1.1 |
| 10°-20° | 1227.1 | 3.8 |
| 20°-30° | 2240.6 | 7.0 |
| 30°-40° | 3177.8 | 9.9 |
| 40°-50° | 4291.0 | 13.4 |
| 50°-60° | 5772.6 | 18.0 |
| 60°-70° | 7326.7 | 22.9 |
| 70°-80° | 6649.4 | 20.8 |
| 80°-90° | 969.3 | 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° | 32020.0 | 100.0 |
| 0°-180° | 32020.0 | 100.0 |

Coefficient of Utilization

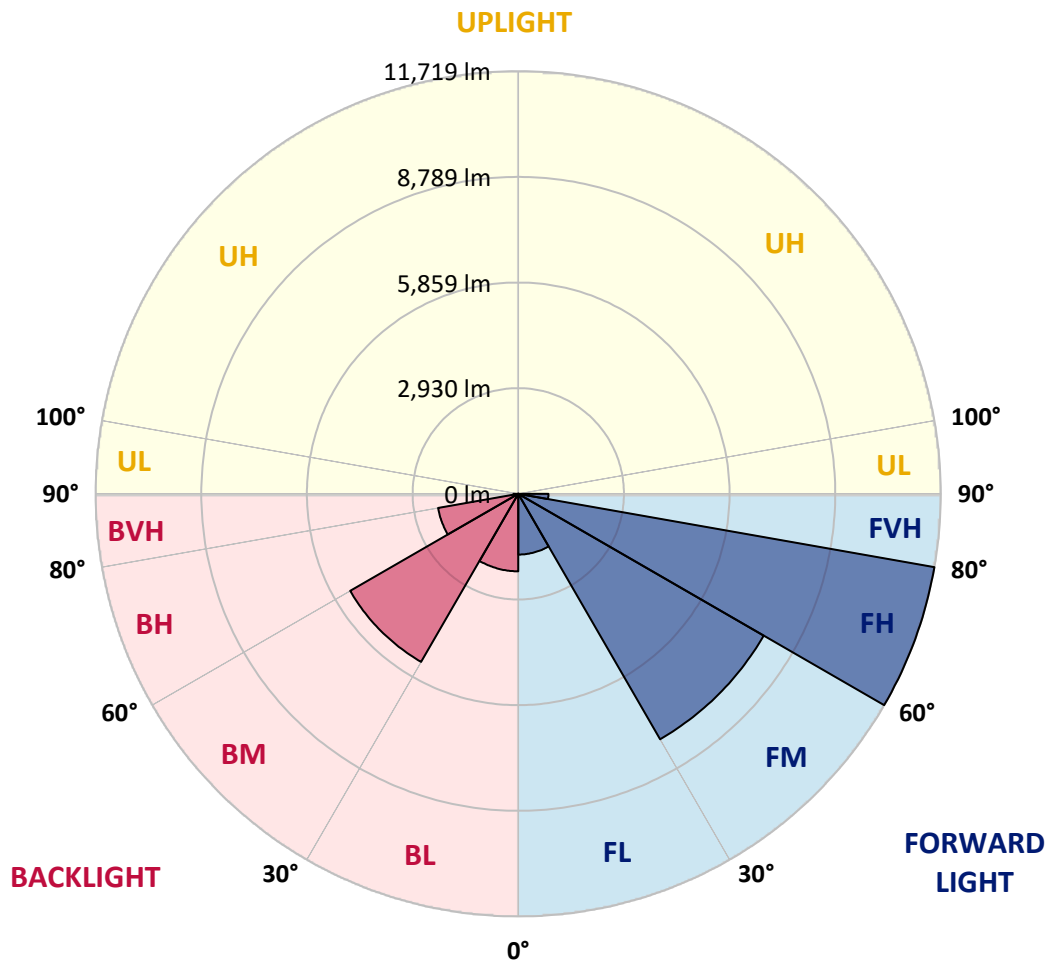


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1684.3 | 5.3 | | | |
| FM (30°-60°) | 7860.2 | 24.5 | | | |
| FH (60°-80°) | 11718.8 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 835.8 | 2.6 | | | G5 |
| BL (0°-30°) | 2148.9 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5381.2 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2257.3 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 133.4 | 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° | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 |
| 2.5° | 3605.5 | 3625.9 | 3620.8 | 3614.0 | 3614.0 | 3615.7 | 3614.0 | 3625.9 | 3637.8 | 3649.6 |
| 5° | 3642.8 | 3663.2 | 3653.0 | 3644.5 | 3637.8 | 3636.1 | 3631.0 | 3629.3 | 3636.1 | 3651.3 |
| 7.5° | 3715.9 | 3736.3 | 3721.0 | 3705.7 | 3692.1 | 3685.3 | 3678.5 | 3668.3 | 3663.2 | 3671.7 |
| 10° | 3797.4 | 3817.8 | 3799.1 | 3771.9 | 3749.8 | 3741.3 | 3734.6 | 3724.4 | 3717.6 | 3722.7 |
| 12.5° | 3878.9 | 3899.3 | 3873.8 | 3836.5 | 3807.6 | 3802.5 | 3794.0 | 3790.6 | 3788.9 | 3787.2 |
| 15° | 3955.3 | 3972.3 | 3940.1 | 3895.9 | 3865.3 | 3856.8 | 3848.3 | 3853.4 | 3861.9 | 3872.1 |
| 17.5° | 4014.8 | 4031.8 | 3984.2 | 3926.5 | 3897.6 | 3894.2 | 3889.1 | 3906.1 | 3929.9 | 3955.3 |
| 20° | 4069.1 | 4086.1 | 4025.0 | 3946.8 | 3912.9 | 3912.9 | 3914.6 | 3950.2 | 3984.2 | 4021.6 |
| 22.5° | 4145.5 | 4159.1 | 4084.4 | 3977.4 | 3928.2 | 3931.6 | 3945.1 | 3980.8 | 4023.3 | 4074.2 |
| 25° | 4259.3 | 4269.5 | 4177.8 | 4035.2 | 3979.1 | 3989.3 | 4001.2 | 4018.2 | 4058.9 | 4118.4 |
| 27.5° | 4442.7 | 4451.2 | 4330.7 | 4137.1 | 4052.1 | 4069.1 | 4086.1 | 4074.2 | 4092.9 | 4143.8 |
| 30° | 4700.9 | 4706.0 | 4553.1 | 4296.7 | 4176.1 | 4184.6 | 4188.0 | 4138.8 | 4103.1 | 4143.8 |
| 32.5° | 5006.6 | 5004.9 | 4823.2 | 4490.3 | 4317.1 | 4308.6 | 4279.7 | 4182.9 | 4099.7 | 4135.4 |
| 35° | 5480.4 | 5461.7 | 5227.4 | 4762.0 | 4476.7 | 4424.1 | 4356.1 | 4232.2 | 4116.7 | 4126.9 |
| 37.5° | 6265.0 | 6207.3 | 5882.9 | 5207.0 | 4714.5 | 4580.3 | 4480.1 | 4312.0 | 4154.0 | 4123.5 |
| 40° | 7149.8 | 7076.8 | 6720.2 | 5816.7 | 5071.1 | 4855.4 | 4694.1 | 4425.8 | 4215.2 | 4138.8 |
| 42.5° | 8199.4 | 8095.8 | 7712.0 | 6535.0 | 5522.9 | 5210.4 | 4967.5 | 4570.1 | 4305.2 | 4188.0 |
| 45° | 9488.4 | 9350.8 | 8807.4 | 7345.1 | 6091.8 | 5675.7 | 5351.3 | 4789.2 | 4442.7 | 4283.1 |
| 47.5° | 10791.0 | 10824.9 | 10052.2 | 8272.4 | 6774.5 | 6249.7 | 5832.0 | 5118.7 | 4643.1 | 4436.0 |
| 50° | 12175.1 | 12198.9 | 11290.3 | 9299.9 | 7548.9 | 6898.5 | 6372.0 | 5487.2 | 4921.7 | 4653.3 |
| 52.5° | 13255.2 | 13258.6 | 12414.6 | 10374.9 | 8355.6 | 7611.8 | 6954.5 | 5908.4 | 5244.3 | 4942.0 |
| 55° | 13931.1 | 13922.6 | 13202.6 | 11392.2 | 9282.9 | 8360.7 | 7599.9 | 6387.3 | 5638.3 | 5281.7 |
| 57.5° | 14421.9 | 14396.5 | 13746.0 | 12266.8 | 10271.3 | 9245.5 | 8330.1 | 6930.8 | 6103.7 | 5685.9 |
| 60° | 14608.8 | 14593.5 | 14114.6 | 13022.5 | 11310.7 | 10223.8 | 9172.5 | 7538.7 | 6631.9 | 6163.1 |
| 62.5° | 14680.1 | 14709.0 | 14476.3 | 13754.5 | 12423.0 | 11307.3 | 10098.1 | 8265.6 | 7226.3 | 6703.2 |
| 65° | 14931.4 | 14984.1 | 14936.5 | 14712.4 | 13679.8 | 12575.9 | 11325.9 | 9130.0 | 7875.0 | 7282.3 |
| 67.5° | 15429.0 | 15481.7 | 15502.1 | 15858.7 | 15215.0 | 14157.0 | 12857.8 | 10206.8 | 8634.1 | 7883.5 |
| 70° | 15417.1 | 15401.9 | 15761.9 | 16770.7 | 17137.5 | 16346.1 | 14922.9 | 11531.4 | 9539.3 | 8382.8 |
| 72.5° | 14033.0 | 13910.8 | 14761.6 | 16760.5 | 18737.3 | 18632.0 | 17444.9 | 13239.9 | 10320.6 | 8443.9 |
| 75° | 10527.7 | 10201.7 | 11704.7 | 15104.7 | 19004.0 | 19929.5 | 19048.1 | 14299.7 | 10135.4 | 7460.6 |
| 77.5° | 4502.2 | 4174.4 | 5945.7 | 11181.6 | 17008.5 | 18630.3 | 17577.4 | 12475.7 | 8090.7 | 4933.6 |
| 80° | 1178.6 | 1176.9 | 1796.8 | 5069.4 | 11567.1 | 13757.9 | 12069.8 | 8056.7 | 4622.8 | 1762.8 |
| 82.5° | 487.4 | 475.5 | 660.6 | 1971.7 | 5651.9 | 7720.5 | 6300.7 | 3593.6 | 1669.4 | 477.2 |
| 85° | 181.7 | 180.0 | 321.0 | 681.0 | 1993.8 | 3184.3 | 2304.6 | 918.8 | 416.1 | 232.7 |
| 87.5° | 50.9 | 49.3 | 69.6 | 236.1 | 485.7 | 737.1 | 394.0 | 151.1 | 117.2 | 91.7 |
| 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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 CATALOG NUMBER: GLAN-SB3D-740-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3661.5 | 0° | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 | 3661.5 |
| 3668.3 | 2.5° | 3673.4 | 3681.9 | 3697.2 | 3709.1 | 3724.4 | 3741.3 | 3765.1 | 3780.4 | 3795.7 | 3805.9 |
| 3676.8 | 5° | 3688.7 | 3707.4 | 3746.4 | 3785.5 | 3831.4 | 3873.8 | 3923.1 | 3958.7 | 3987.6 | 3996.1 |
| 3707.4 | 7.5° | 3722.7 | 3753.2 | 3819.5 | 3885.7 | 3958.7 | 4028.4 | 4099.7 | 4160.8 | 4210.1 | 4228.8 |
| 3761.7 | 10° | 3782.1 | 3822.9 | 3916.3 | 4009.7 | 4106.5 | 4213.5 | 4305.2 | 4393.5 | 4463.1 | 4492.0 |
| 3826.3 | 12.5° | 3856.8 | 3907.8 | 4030.1 | 4159.1 | 4293.3 | 4441.0 | 4559.9 | 4668.6 | 4755.2 | 4794.3 |
| 3916.3 | 15° | 3953.6 | 4019.9 | 4176.1 | 4349.3 | 4546.3 | 4751.8 | 4903.0 | 5023.6 | 5120.4 | 5167.9 |
| 4009.7 | 17.5° | 4058.9 | 4147.2 | 4344.2 | 4605.8 | 4887.7 | 5157.7 | 5334.4 | 5422.7 | 5522.9 | 5568.7 |
| 4096.3 | 20° | 4160.8 | 4269.5 | 4551.4 | 4931.9 | 5307.2 | 5594.2 | 5736.8 | 5760.6 | 5767.4 | 5772.5 |
| 4177.8 | 22.5° | 4266.1 | 4412.2 | 4811.3 | 5342.8 | 5745.3 | 5944.0 | 5964.4 | 5862.5 | 5719.9 | 5653.6 |
| 4257.6 | 25° | 4381.6 | 4575.2 | 5150.9 | 5796.3 | 6122.4 | 6146.1 | 5989.9 | 5741.9 | 5471.9 | 5347.9 |
| 4322.2 | 27.5° | 4493.7 | 4763.7 | 5558.5 | 6229.4 | 6394.1 | 6185.2 | 5848.9 | 5497.4 | 5171.3 | 5040.5 |
| 4368.0 | 30° | 4605.8 | 4979.4 | 6008.6 | 6608.1 | 6518.1 | 6088.4 | 5626.5 | 5234.2 | 4906.4 | 4768.8 |
| 4408.8 | 32.5° | 4719.6 | 5230.8 | 6526.6 | 6881.5 | 6496.0 | 5882.9 | 5349.6 | 4938.6 | 4649.9 | 4505.6 |
| 4444.4 | 35° | 4848.6 | 5539.8 | 7017.4 | 7031.0 | 6348.2 | 5580.6 | 4984.5 | 4585.4 | 4334.1 | 4218.6 |
| 4486.9 | 37.5° | 5016.8 | 5932.2 | 7450.4 | 7068.3 | 6090.1 | 5137.4 | 4531.1 | 4167.6 | 3960.4 | 3907.8 |
| 4549.7 | 40° | 5225.7 | 6404.3 | 7781.6 | 7008.9 | 5708.0 | 4599.0 | 4035.2 | 3744.7 | 3627.6 | 3639.5 |
| 4634.7 | 42.5° | 5497.4 | 6932.5 | 8014.3 | 6856.0 | 5176.4 | 4043.6 | 3600.4 | 3471.3 | 3527.4 | 3574.9 |
| 4762.0 | 45° | 5850.6 | 7481.0 | 8158.6 | 6596.2 | 4575.2 | 3573.2 | 3343.9 | 3374.5 | 3417.0 | 3422.1 |
| 4967.5 | 47.5° | 6302.4 | 8036.3 | 8253.7 | 6203.9 | 3962.1 | 3242.1 | 3180.9 | 3187.7 | 3179.2 | 3143.5 |
| 5274.9 | 50° | 6866.2 | 8576.4 | 8338.6 | 5684.2 | 3440.8 | 3034.9 | 2953.3 | 2929.6 | 2812.4 | 2696.9 |
| 5684.2 | 52.5° | 7508.2 | 9072.3 | 8374.3 | 5038.8 | 3034.9 | 2861.6 | 2729.2 | 2579.7 | 2360.6 | 2325.0 |
| 6198.8 | 55° | 8221.5 | 9530.8 | 8282.6 | 4245.7 | 2693.5 | 2639.2 | 2438.8 | 2258.7 | 2235.0 | 2204.4 |
| 6876.4 | 57.5° | 9074.0 | 10025.1 | 8095.8 | 3360.9 | 2343.7 | 2379.3 | 2184.0 | 2204.4 | 2161.9 | 2114.4 |
| 7747.6 | 60° | 10006.4 | 10536.2 | 7768.0 | 2554.2 | 1981.9 | 2054.9 | 2117.8 | 2116.1 | 2104.2 | 2065.1 |
| 8666.4 | 62.5° | 10845.3 | 10872.5 | 7122.7 | 1956.4 | 1664.3 | 1803.6 | 1975.1 | 1973.4 | 1963.2 | 1941.2 |
| 9626.0 | 65° | 11344.6 | 10821.6 | 6045.9 | 1540.4 | 1402.8 | 1596.4 | 1781.5 | 1795.1 | 1796.8 | 1795.1 |
| 10347.7 | 67.5° | 11256.3 | 10225.4 | 4568.4 | 1226.2 | 1187.1 | 1385.8 | 1589.6 | 1608.3 | 1621.9 | 1625.3 |
| 10439.4 | 70° | 10257.7 | 8916.1 | 2978.8 | 978.2 | 995.2 | 1200.7 | 1407.9 | 1426.6 | 1438.5 | 1452.0 |
| 9058.7 | 72.5° | 7995.6 | 6555.4 | 1705.1 | 791.4 | 827.1 | 1041.1 | 1227.9 | 1249.9 | 1256.7 | 1282.2 |
| 6304.1 | 75° | 4872.4 | 3855.1 | 920.5 | 623.3 | 679.3 | 889.9 | 1049.5 | 1075.0 | 1086.9 | 1117.5 |
| 3096.0 | 77.5° | 2316.5 | 1669.4 | 524.8 | 485.7 | 546.9 | 726.9 | 886.5 | 915.4 | 883.1 | 900.1 |
| 854.2 | 80° | 782.9 | 619.9 | 331.2 | 370.2 | 417.8 | 567.2 | 709.9 | 738.8 | 670.8 | 667.4 |
| 283.6 | 82.5° | 273.4 | 251.3 | 210.6 | 246.3 | 270.0 | 405.9 | 536.7 | 574.0 | 499.3 | 497.6 |
| 127.4 | 85° | 107.0 | 101.9 | 117.2 | 134.2 | 161.3 | 249.6 | 353.2 | 371.9 | 307.4 | 248.0 |
| 37.4 | 87.5° | 22.1 | 23.8 | 28.9 | 30.6 | 49.3 | 86.6 | 127.4 | 156.2 | 124.0 | 105.3 |
| 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> |
|-------------|
| 3661.5 |
| 3799.1 |
| 3999.5 |
| 4230.5 |
| 4493.7 |
| 4794.3 |
| 5164.5 |
| 5567.0 |
| 5786.1 |
| 5672.3 |
| 5366.6 |
| 5055.8 |
| 4784.1 |
| 4524.3 |
| 4244.0 |
| 3945.1 |
| 3680.2 |
| 3619.1 |
| 3456.0 |
| 3170.7 |
| 2712.2 |
| 2336.9 |
| 2209.5 |
| 2105.9 |
| 2051.5 |
| 1932.7 |
| 1795.1 |
| 1628.7 |
| 1458.8 |
| 1292.4 |
| 1120.9 |
| 886.5 |
| 660.6 |
| 473.8 |
| 244.6 |
| 96.8 |
| 0.0 |

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