

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: P849533

Luminaire Tested: **GLAN-SB6C-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849533
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-SB6C-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40035 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

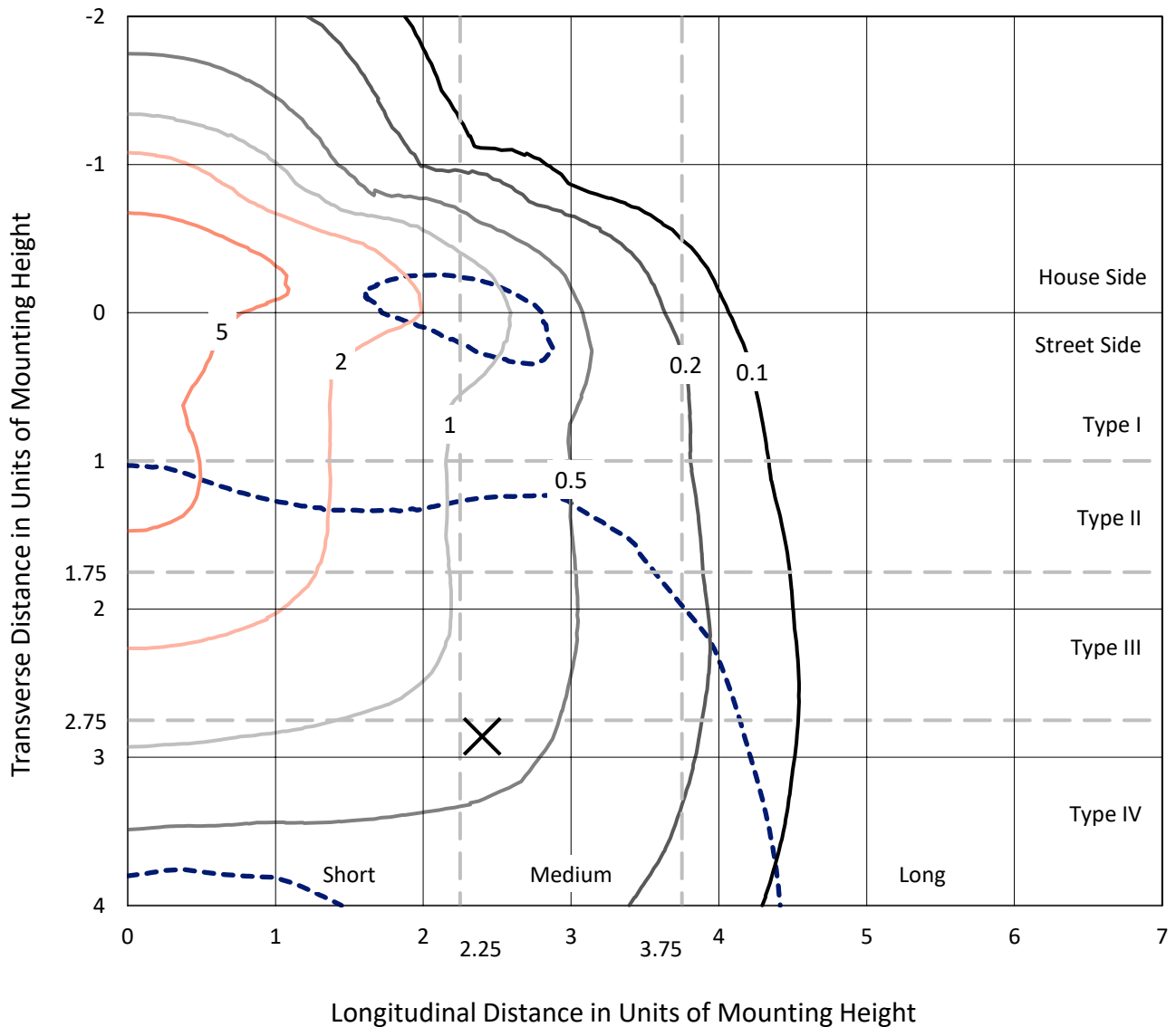
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

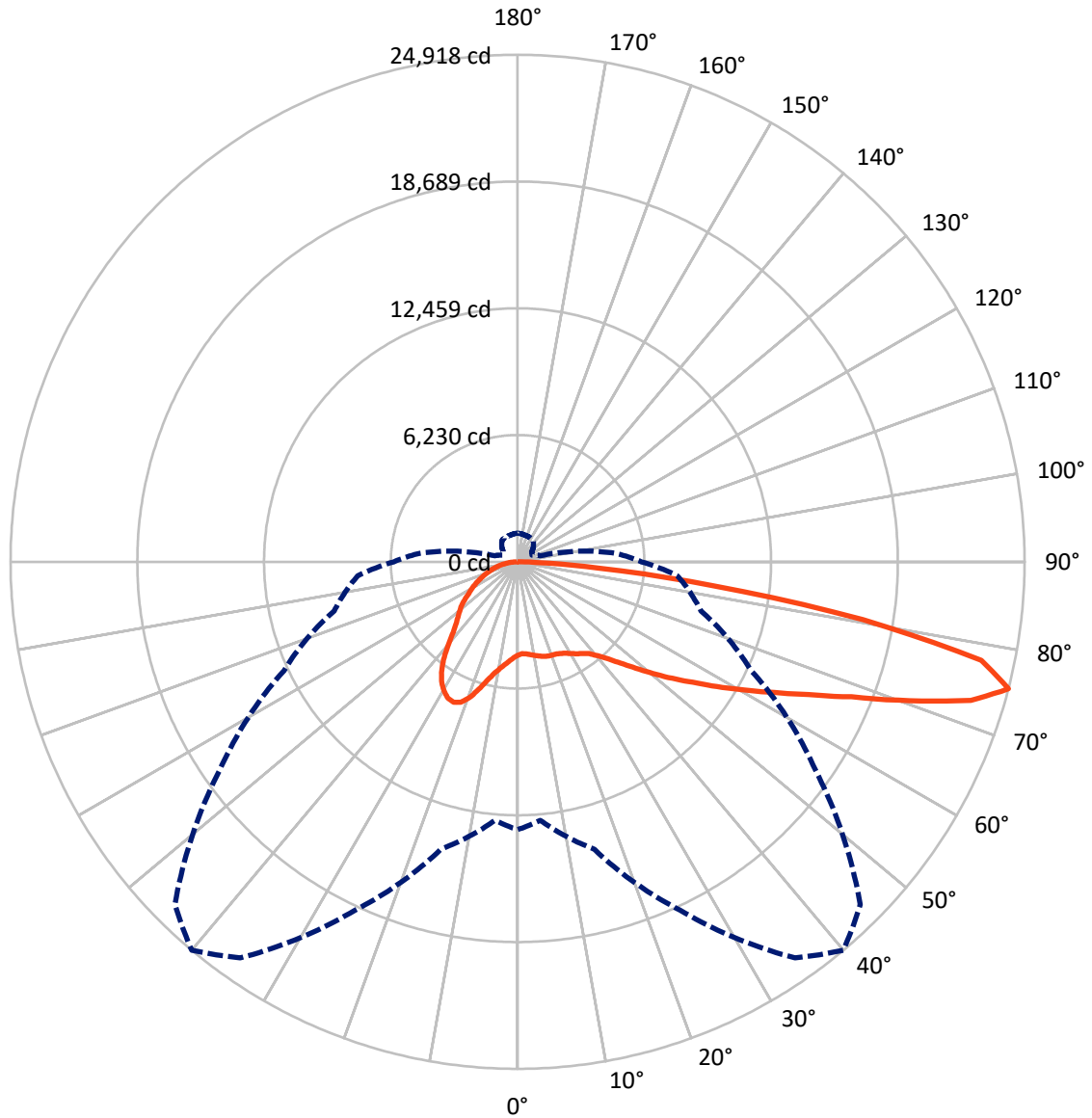
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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 | 12404.2 | 0.0 | 12404.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 27630.8 | 0.0 | 27630.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 40035.0 | 0.0 | 40035.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 457.0 | 1.1 |
| 10°-20° | 1534.3 | 3.8 |
| 20°-30° | 2801.5 | 7.0 |
| 30°-40° | 3973.3 | 9.9 |
| 40°-50° | 5365.1 | 13.4 |
| 50°-60° | 7217.5 | 18.0 |
| 60°-70° | 9160.7 | 22.9 |
| 70°-80° | 8313.9 | 20.8 |
| 80°-90° | 1211.9 | 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° | 40035.0 | 100.0 |
| 0°-180° | 40035.0 | 100.0 |

Coefficient of Utilization

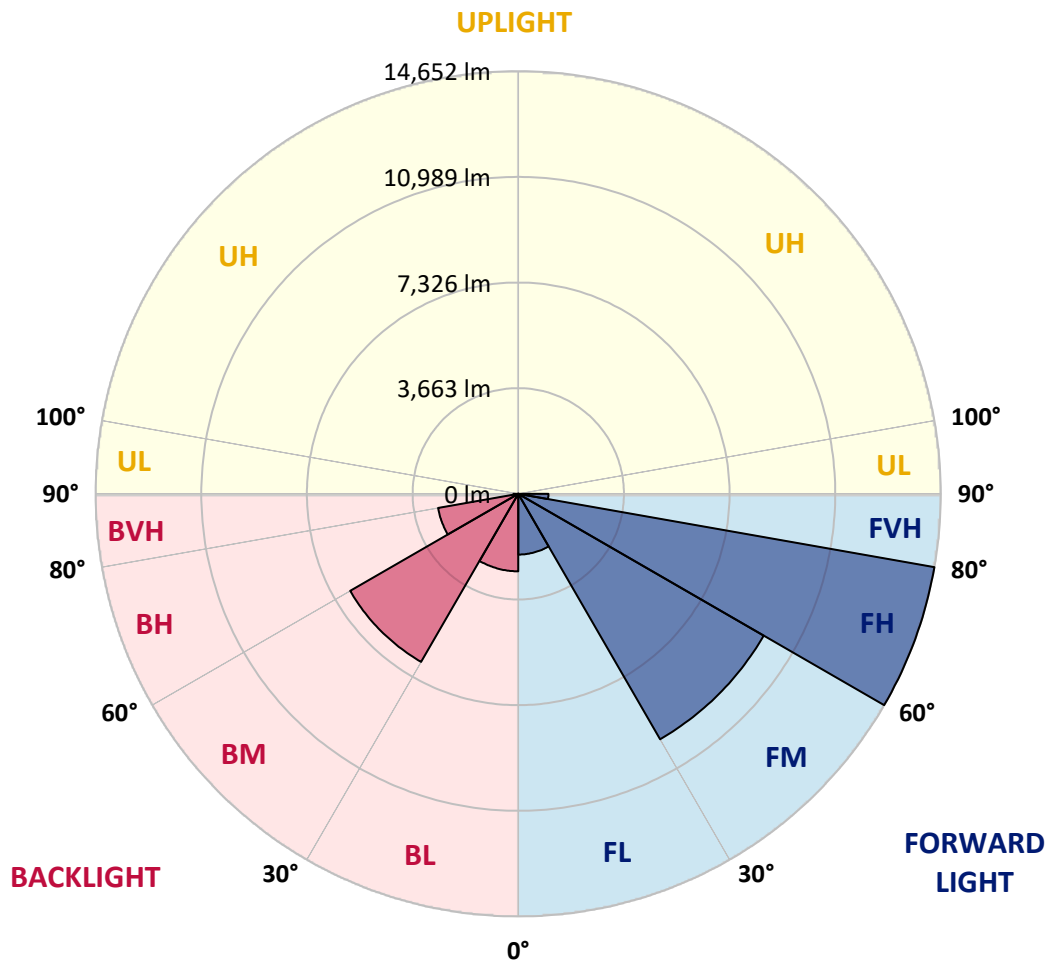


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2105.9 | 5.3 | | | |
| FM (30°-60°) | 9827.7 | 24.5 | | | |
| FH (60°-80°) | 14652.2 | 36.6 | | | G5 |
| FVH (80°-90°) | 1045.1 | 2.6 | | | G5 |
| BL (0°-30°) | 2686.9 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 6728.1 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2822.3 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 166.9 | 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° | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 |
| 2.5° | 4508.0 | 4533.5 | 4527.1 | 4518.6 | 4518.6 | 4520.7 | 4518.6 | 4533.5 | 4548.3 | 4563.2 |
| 5° | 4554.7 | 4580.2 | 4567.4 | 4556.8 | 4548.3 | 4546.2 | 4539.8 | 4537.7 | 4546.2 | 4565.3 |
| 7.5° | 4646.0 | 4671.5 | 4652.4 | 4633.3 | 4616.3 | 4607.8 | 4599.3 | 4586.5 | 4580.2 | 4590.8 |
| 10° | 4747.9 | 4773.4 | 4750.1 | 4716.1 | 4688.5 | 4677.9 | 4669.4 | 4656.6 | 4648.1 | 4654.5 |
| 12.5° | 4849.9 | 4875.3 | 4843.5 | 4796.8 | 4760.7 | 4754.3 | 4743.7 | 4739.4 | 4737.3 | 4735.2 |
| 15° | 4945.4 | 4966.6 | 4926.3 | 4871.1 | 4832.9 | 4822.2 | 4811.6 | 4818.0 | 4828.6 | 4841.4 |
| 17.5° | 5019.7 | 5041.0 | 4981.5 | 4909.3 | 4873.2 | 4869.0 | 4862.6 | 4883.8 | 4913.6 | 4945.4 |
| 20° | 5087.7 | 5108.9 | 5032.5 | 4934.8 | 4892.3 | 4892.3 | 4894.4 | 4939.0 | 4981.5 | 5028.2 |
| 22.5° | 5183.2 | 5200.2 | 5106.8 | 4973.0 | 4911.4 | 4915.7 | 4932.7 | 4977.3 | 5030.3 | 5094.0 |
| 25° | 5325.5 | 5338.2 | 5223.6 | 5045.2 | 4975.1 | 4987.9 | 5002.7 | 5024.0 | 5074.9 | 5149.3 |
| 27.5° | 5554.8 | 5565.4 | 5414.7 | 5172.6 | 5066.4 | 5087.7 | 5108.9 | 5094.0 | 5117.4 | 5181.1 |
| 30° | 5877.6 | 5883.9 | 5692.8 | 5372.2 | 5221.4 | 5232.1 | 5236.3 | 5174.7 | 5130.1 | 5181.1 |
| 32.5° | 6259.8 | 6257.7 | 6030.5 | 5614.3 | 5397.7 | 5387.1 | 5351.0 | 5229.9 | 5125.9 | 5170.5 |
| 35° | 6852.2 | 6828.9 | 6535.8 | 5954.0 | 5597.3 | 5531.5 | 5446.5 | 5291.5 | 5147.1 | 5159.9 |
| 37.5° | 7833.2 | 7761.0 | 7355.5 | 6510.4 | 5894.6 | 5726.8 | 5601.5 | 5391.3 | 5193.8 | 5155.6 |
| 40° | 8939.5 | 8848.2 | 8402.3 | 7272.7 | 6340.5 | 6070.8 | 5869.1 | 5533.6 | 5270.3 | 5174.7 |
| 42.5° | 10251.8 | 10122.3 | 9642.4 | 8170.9 | 6905.3 | 6514.6 | 6211.0 | 5714.1 | 5382.8 | 5236.3 |
| 45° | 11863.4 | 11691.5 | 11012.0 | 9183.7 | 7616.6 | 7096.4 | 6690.8 | 5988.0 | 5554.8 | 5355.2 |
| 47.5° | 13492.1 | 13534.6 | 12568.4 | 10343.1 | 8470.3 | 7814.1 | 7291.8 | 6399.9 | 5805.4 | 5546.3 |
| 50° | 15222.7 | 15252.4 | 14116.4 | 11627.8 | 9438.5 | 8625.3 | 7967.0 | 6860.7 | 6153.6 | 5818.1 |
| 52.5° | 16573.2 | 16577.4 | 15522.1 | 12971.9 | 10447.1 | 9517.1 | 8695.3 | 7387.3 | 6557.1 | 6179.1 |
| 55° | 17418.3 | 17407.7 | 16507.3 | 14243.8 | 11606.5 | 10453.5 | 9502.2 | 7986.1 | 7049.7 | 6603.8 |
| 57.5° | 18031.9 | 18000.1 | 17186.8 | 15337.3 | 12842.3 | 11559.8 | 10415.3 | 8665.6 | 7631.5 | 7109.2 |
| 60° | 18265.5 | 18246.4 | 17647.6 | 16282.2 | 14141.9 | 12782.9 | 11468.5 | 9425.8 | 8291.9 | 7705.8 |
| 62.5° | 18354.7 | 18390.8 | 18099.9 | 17197.4 | 15532.7 | 14137.6 | 12625.8 | 10334.6 | 9035.1 | 8381.1 |
| 65° | 18669.0 | 18734.8 | 18675.3 | 18395.0 | 17104.0 | 15723.8 | 14161.0 | 11415.4 | 9846.2 | 9105.1 |
| 67.5° | 19291.1 | 19356.9 | 19382.4 | 19828.3 | 19023.6 | 17700.7 | 16076.3 | 12761.6 | 10795.4 | 9856.8 |
| 70° | 19276.2 | 19257.1 | 19707.3 | 20968.6 | 21427.3 | 20437.7 | 18658.3 | 14417.9 | 11927.2 | 10481.1 |
| 72.5° | 17545.7 | 17392.8 | 18456.6 | 20955.9 | 23427.5 | 23295.8 | 21811.6 | 16554.0 | 12903.9 | 10557.6 |
| 75° | 13163.0 | 12755.3 | 14634.5 | 18885.5 | 23760.9 | 24918.1 | 23816.1 | 17879.0 | 12672.5 | 9328.1 |
| 77.5° | 5629.1 | 5219.3 | 7434.0 | 13980.5 | 21265.9 | 23293.7 | 21977.2 | 15598.5 | 10115.9 | 6168.5 |
| 80° | 1473.6 | 1471.5 | 2246.6 | 6338.4 | 14462.5 | 17201.7 | 15091.0 | 10073.4 | 5779.9 | 2204.1 |
| 82.5° | 609.4 | 594.6 | 826.0 | 2465.3 | 7066.7 | 9653.0 | 7877.8 | 4493.1 | 2087.3 | 596.7 |
| 85° | 227.2 | 225.1 | 401.3 | 851.5 | 2492.9 | 3981.4 | 2881.5 | 1148.8 | 520.2 | 290.9 |
| 87.5° | 63.7 | 61.6 | 87.1 | 295.2 | 607.3 | 921.6 | 492.6 | 189.0 | 146.5 | 114.7 |
| 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-SB6C-840-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4578.1 | 0° | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 | 4578.1 |
| 4586.5 | 2.5° | 4592.9 | 4603.5 | 4622.6 | 4637.5 | 4656.6 | 4677.9 | 4707.6 | 4726.7 | 4745.8 | 4758.5 |
| 4597.2 | 5° | 4612.0 | 4635.4 | 4684.2 | 4733.1 | 4790.4 | 4843.5 | 4905.1 | 4949.7 | 4985.7 | 4996.4 |
| 4635.4 | 7.5° | 4654.5 | 4692.7 | 4775.5 | 4858.3 | 4949.7 | 5036.7 | 5125.9 | 5202.3 | 5263.9 | 5287.3 |
| 4703.3 | 10° | 4728.8 | 4779.8 | 4896.6 | 5013.4 | 5134.4 | 5268.2 | 5382.8 | 5493.2 | 5580.3 | 5616.4 |
| 4784.0 | 12.5° | 4822.2 | 4885.9 | 5038.8 | 5200.2 | 5368.0 | 5552.7 | 5701.3 | 5837.2 | 5945.5 | 5994.4 |
| 4896.6 | 15° | 4943.3 | 5026.1 | 5221.4 | 5438.0 | 5684.3 | 5941.3 | 6130.3 | 6281.0 | 6402.1 | 6461.5 |
| 5013.4 | 17.5° | 5074.9 | 5185.3 | 5431.7 | 5758.7 | 6111.2 | 6448.8 | 6669.6 | 6780.0 | 6905.3 | 6962.6 |
| 5121.6 | 20° | 5202.3 | 5338.2 | 5690.7 | 6166.4 | 6635.6 | 6994.5 | 7172.9 | 7202.6 | 7211.1 | 7217.4 |
| 5223.6 | 22.5° | 5334.0 | 5516.6 | 6015.6 | 6680.2 | 7183.5 | 7431.9 | 7457.4 | 7330.0 | 7151.6 | 7068.8 |
| 5323.4 | 25° | 5478.4 | 5720.4 | 6440.3 | 7247.2 | 7654.9 | 7684.6 | 7489.2 | 7179.2 | 6841.6 | 6686.6 |
| 5404.1 | 27.5° | 5618.5 | 5956.1 | 6949.9 | 7788.6 | 7994.6 | 7733.4 | 7313.0 | 6873.5 | 6465.8 | 6302.3 |
| 5461.4 | 30° | 5758.7 | 6225.8 | 7512.6 | 8262.2 | 8149.6 | 7612.4 | 7034.8 | 6544.3 | 6134.5 | 5962.5 |
| 5512.4 | 32.5° | 5900.9 | 6540.1 | 8160.2 | 8604.0 | 8122.0 | 7355.5 | 6688.7 | 6174.9 | 5813.9 | 5633.4 |
| 5556.9 | 35° | 6062.3 | 6926.5 | 8773.9 | 8790.9 | 7937.3 | 6977.5 | 6232.2 | 5733.2 | 5418.9 | 5274.5 |
| 5610.0 | 37.5° | 6272.5 | 7417.0 | 9315.4 | 8837.6 | 7614.5 | 6423.3 | 5665.2 | 5210.8 | 4951.8 | 4885.9 |
| 5688.6 | 40° | 6533.7 | 8007.4 | 9729.4 | 8763.3 | 7136.8 | 5750.2 | 5045.2 | 4682.1 | 4535.6 | 4550.5 |
| 5794.8 | 42.5° | 6873.5 | 8667.7 | 10020.3 | 8572.2 | 6472.1 | 5055.8 | 4501.6 | 4340.2 | 4410.3 | 4469.8 |
| 5954.0 | 45° | 7315.1 | 9353.6 | 10200.8 | 8247.3 | 5720.4 | 4467.6 | 4181.0 | 4219.2 | 4272.3 | 4278.7 |
| 6211.0 | 47.5° | 7879.9 | 10047.9 | 10319.7 | 7756.8 | 4953.9 | 4053.6 | 3977.1 | 3985.6 | 3975.0 | 3930.4 |
| 6595.3 | 50° | 8584.9 | 10723.2 | 10425.9 | 7107.0 | 4302.0 | 3794.5 | 3692.6 | 3662.9 | 3516.4 | 3372.0 |
| 7107.0 | 52.5° | 9387.6 | 11343.2 | 10470.5 | 6300.1 | 3794.5 | 3577.9 | 3412.3 | 3225.4 | 2951.5 | 2906.9 |
| 7750.4 | 55° | 10279.4 | 11916.5 | 10355.8 | 5308.5 | 3367.7 | 3299.8 | 3049.2 | 2824.1 | 2794.4 | 2756.2 |
| 8597.7 | 57.5° | 11345.3 | 12534.4 | 10122.3 | 4202.2 | 2930.3 | 2974.9 | 2730.7 | 2756.2 | 2703.1 | 2643.6 |
| 9687.0 | 60° | 12511.1 | 13173.6 | 9712.4 | 3193.6 | 2478.0 | 2569.3 | 2647.9 | 2645.8 | 2630.9 | 2582.1 |
| 10835.7 | 62.5° | 13560.0 | 13594.0 | 8905.5 | 2446.2 | 2080.9 | 2255.1 | 2469.5 | 2467.4 | 2454.7 | 2427.0 |
| 12035.4 | 65° | 14184.3 | 13530.3 | 7559.3 | 1925.9 | 1753.9 | 1996.0 | 2227.4 | 2244.4 | 2246.6 | 2244.4 |
| 12937.9 | 67.5° | 14073.9 | 12785.0 | 5712.0 | 1533.1 | 1484.3 | 1732.7 | 1987.5 | 2010.9 | 2027.8 | 2032.1 |
| 13052.6 | 70° | 12825.4 | 11147.9 | 3724.4 | 1223.1 | 1244.3 | 1501.2 | 1760.3 | 1783.7 | 1798.5 | 1815.5 |
| 11326.2 | 72.5° | 9997.0 | 8196.3 | 2131.9 | 989.5 | 1034.1 | 1301.6 | 1535.2 | 1562.8 | 1571.3 | 1603.2 |
| 7882.1 | 75° | 6092.0 | 4820.1 | 1150.9 | 779.3 | 849.4 | 1112.7 | 1312.3 | 1344.1 | 1359.0 | 1397.2 |
| 3871.0 | 77.5° | 2896.3 | 2087.3 | 656.1 | 607.3 | 683.7 | 908.8 | 1108.4 | 1144.5 | 1104.2 | 1125.4 |
| 1068.1 | 80° | 978.9 | 775.0 | 414.1 | 462.9 | 522.4 | 709.2 | 887.6 | 923.7 | 838.7 | 834.5 |
| 354.6 | 82.5° | 341.9 | 314.3 | 263.3 | 307.9 | 337.6 | 507.5 | 671.0 | 717.7 | 624.3 | 622.2 |
| 159.3 | 85° | 133.8 | 127.4 | 146.5 | 167.7 | 201.7 | 312.1 | 441.7 | 465.0 | 384.3 | 310.0 |
| 46.7 | 87.5° | 27.6 | 29.7 | 36.1 | 38.2 | 61.6 | 108.3 | 159.3 | 195.4 | 155.0 | 131.7 |
| 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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| <u>180°</u> |
|-------------|
| 4578.1 |
| 4750.1 |
| 5000.6 |
| 5289.4 |
| 5618.5 |
| 5994.4 |
| 6457.3 |
| 6960.5 |
| 7234.4 |
| 7092.2 |
| 6710.0 |
| 6321.4 |
| 5981.6 |
| 5656.7 |
| 5306.4 |
| 4932.7 |
| 4601.4 |
| 4525.0 |
| 4321.1 |
| 3964.4 |
| 3391.1 |
| 2921.8 |
| 2762.5 |
| 2633.0 |
| 2565.1 |
| 2416.4 |
| 2244.4 |
| 2036.3 |
| 1824.0 |
| 1615.9 |
| 1401.4 |
| 1108.4 |
| 826.0 |
| 592.4 |
| 305.8 |
| 121.0 |
| 0.0 |

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