

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: McGRAW-EDISON

Report Number: P943539

Luminaire Tested: **GALN-SB8A-760-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-760-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37929 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

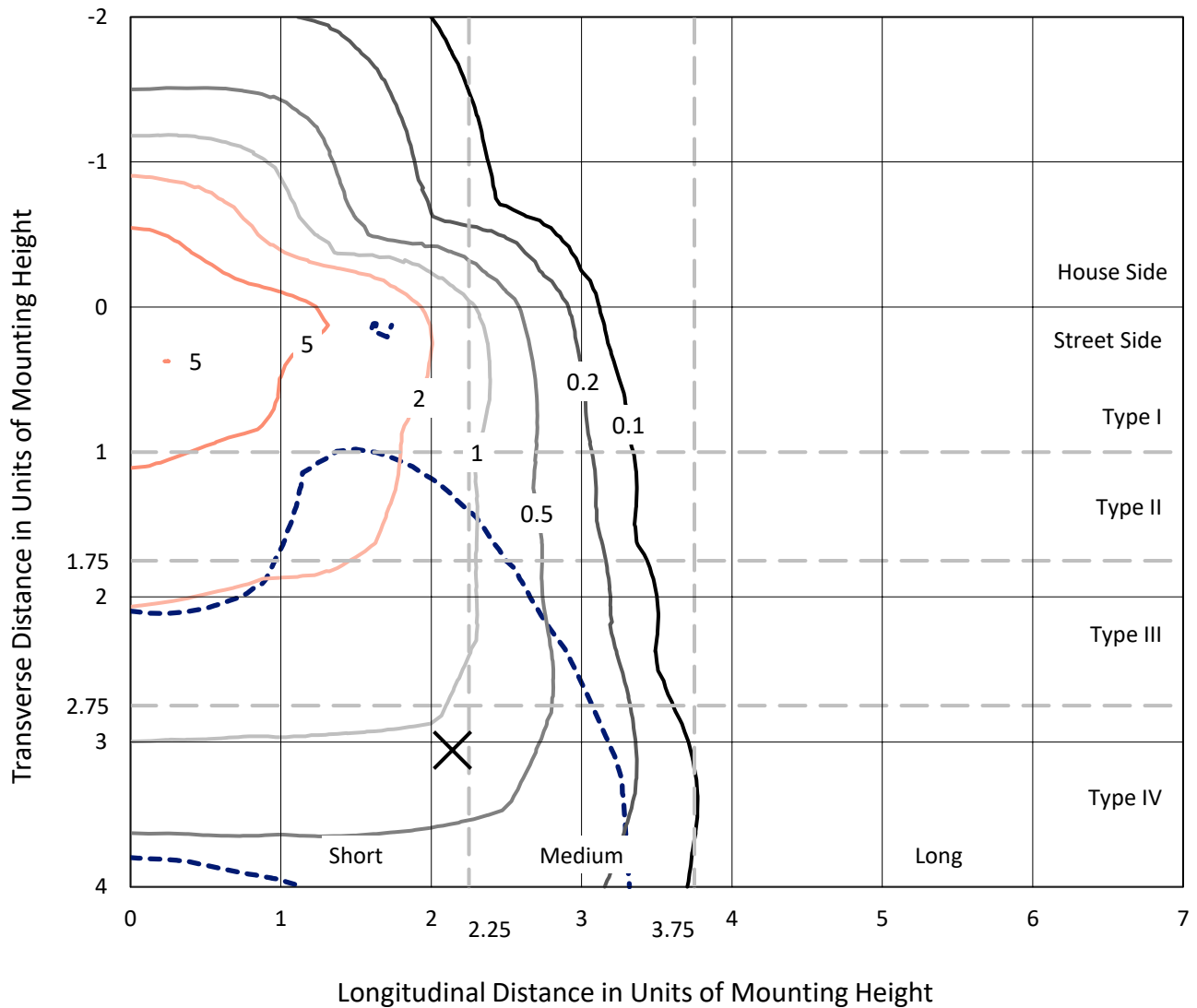
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

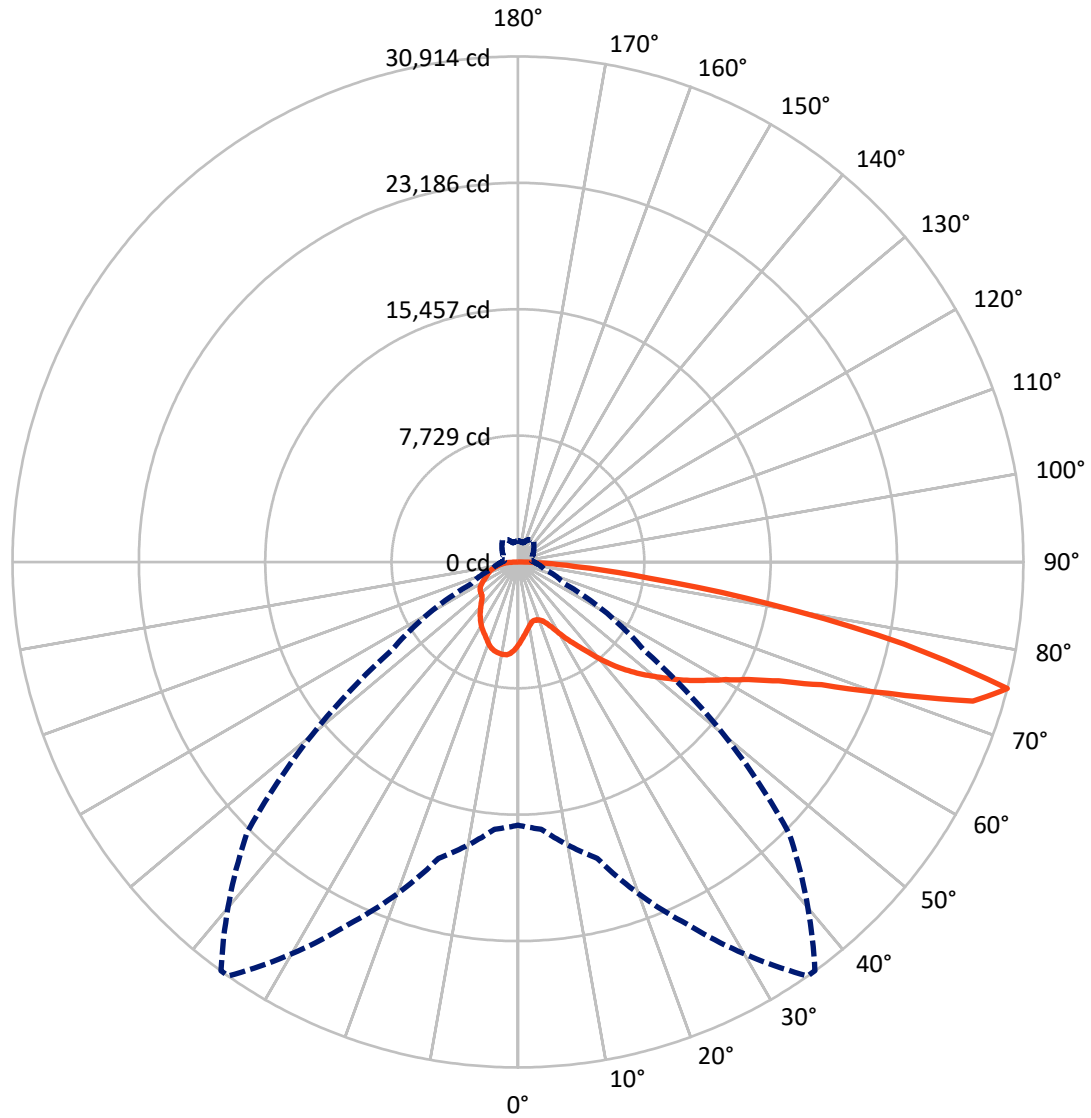
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9026.1 | 0.0 | 9026.1 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 28902.8 | 0.0 | 28902.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 37929.0 | 0.0 | 37929.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 478.5 | 1.3 |
| 10°-20° | 1380.3 | 3.6 |
| 20°-30° | 2317.9 | 6.1 |
| 30°-40° | 3602.4 | 9.5 |
| 40°-50° | 5346.9 | 14.1 |
| 50°-60° | 7381.7 | 19.5 |
| 60°-70° | 8955.6 | 23.6 |
| 70°-80° | 7401.2 | 19.5 |
| 80°-90° | 1064.5 | 2.8 |
| 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° | 37929.0 | 100.0 |
| 0°-180° | 37929.0 | 100.0 |

Coefficient of Utilization



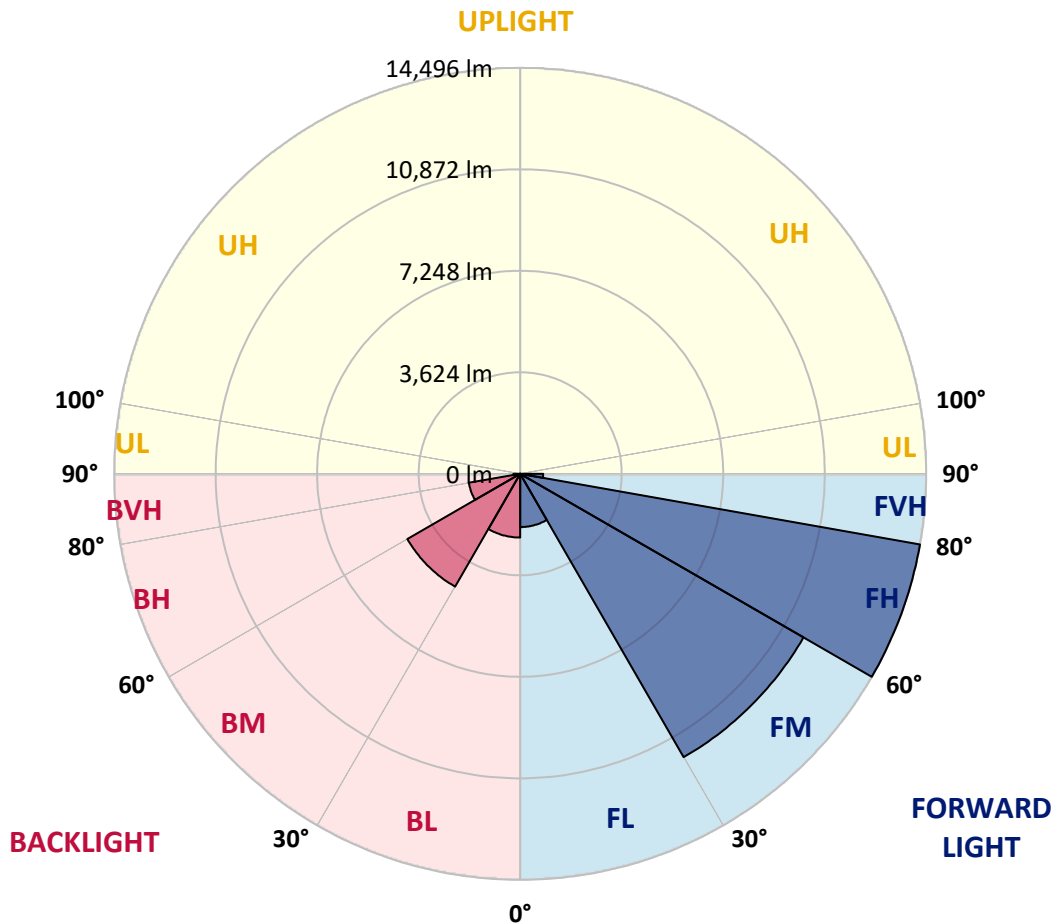
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1902.1 | 5.0 | | | |
| FM (30°-60°) | 11680.1 | 30.8 | | | |
| FH (60°-80°) | 14495.9 | 38.2 | | | G5 |
| FVH (80°-90°) | 824.8 | 2.2 | | | G5 |
| BL (0°-30°) | 2274.7 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 4650.8 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1860.9 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 239.7 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 |
| 2.5° | 4660.6 | 4689.3 | 4701.6 | 4695.5 | 4726.2 | 4722.1 | 4765.2 | 4818.5 | 4892.3 | 4964.1 |
| 5° | 4301.8 | 4332.5 | 4359.2 | 4383.8 | 4443.3 | 4461.7 | 4529.4 | 4631.9 | 4767.2 | 4904.6 |
| 7.5° | 3967.6 | 3994.2 | 4035.2 | 4080.3 | 4180.8 | 4199.3 | 4312.0 | 4472.0 | 4660.6 | 4861.6 |
| 10° | 3694.9 | 3721.5 | 3764.6 | 3815.8 | 3940.9 | 3963.5 | 4107.0 | 4320.2 | 4566.3 | 4820.5 |
| 12.5° | 3578.0 | 3586.2 | 3610.8 | 3662.1 | 3770.7 | 3785.1 | 3943.0 | 4187.0 | 4474.0 | 4789.8 |
| 15° | 3571.8 | 3588.2 | 3590.3 | 3616.9 | 3707.2 | 3713.3 | 3858.9 | 4100.8 | 4416.6 | 4783.6 |
| 17.5° | 3633.4 | 3645.7 | 3627.2 | 3643.6 | 3719.5 | 3729.7 | 3844.5 | 4059.8 | 4398.2 | 4810.3 |
| 20° | 3797.4 | 3807.6 | 3752.3 | 3729.7 | 3785.1 | 3793.3 | 3906.1 | 4086.5 | 4416.6 | 4865.7 |
| 22.5° | 4146.0 | 4152.1 | 4016.8 | 3924.5 | 3928.6 | 3932.7 | 4031.1 | 4195.2 | 4488.4 | 4966.1 |
| 25° | 4689.3 | 4685.2 | 4469.9 | 4291.5 | 4189.0 | 4166.5 | 4232.1 | 4371.5 | 4609.4 | 5099.4 |
| 27.5° | 5325.0 | 5294.2 | 5078.9 | 4812.3 | 4588.8 | 4556.0 | 4541.7 | 4601.2 | 4781.6 | 5275.7 |
| 30° | 6042.6 | 6013.9 | 5782.2 | 5433.6 | 5124.0 | 5070.7 | 4935.4 | 4904.6 | 5037.9 | 5515.6 |
| 32.5° | 6830.0 | 6811.5 | 6534.7 | 6112.3 | 5698.1 | 5636.6 | 5409.0 | 5327.0 | 5431.6 | 5878.6 |
| 35° | 7490.2 | 7473.8 | 7244.1 | 6809.5 | 6303.0 | 6227.1 | 5995.4 | 5903.2 | 5956.5 | 6344.0 |
| 37.5° | 8086.9 | 8078.7 | 7881.8 | 7539.4 | 7016.6 | 6924.3 | 6663.9 | 6633.1 | 6622.9 | 6957.1 |
| 40° | 8640.5 | 8620.0 | 8414.9 | 8234.5 | 7847.0 | 7762.9 | 7533.3 | 7506.6 | 7428.7 | 7711.6 |
| 42.5° | 9253.6 | 9200.3 | 8902.9 | 8818.9 | 8714.3 | 8644.6 | 8507.2 | 8511.3 | 8339.1 | 8562.6 |
| 45° | 9753.9 | 9723.1 | 9417.6 | 9368.4 | 9481.2 | 9452.5 | 9571.4 | 9602.1 | 9267.9 | 9454.5 |
| 47.5° | 10291.1 | 10262.4 | 10004.0 | 9969.2 | 10274.7 | 10282.9 | 10703.2 | 10713.5 | 10174.2 | 10381.3 |
| 50° | 10953.4 | 10912.4 | 10656.1 | 10699.1 | 11041.5 | 11072.3 | 11841.2 | 11771.5 | 11008.7 | 11322.4 |
| 52.5° | 11390.1 | 11414.7 | 11359.4 | 11429.1 | 11896.6 | 11925.3 | 12960.7 | 12782.3 | 11835.0 | 12251.3 |
| 55° | 11712.0 | 11761.2 | 11933.5 | 12093.4 | 12798.7 | 12827.5 | 14016.7 | 13744.0 | 12519.9 | 13112.5 |
| 57.5° | 12126.2 | 12056.5 | 12378.4 | 12690.1 | 13655.8 | 13731.7 | 15044.0 | 14670.8 | 13126.8 | 13854.7 |
| 60° | 12720.8 | 12671.6 | 12921.8 | 13383.1 | 14615.4 | 14736.4 | 16130.7 | 15505.3 | 13571.8 | 14443.2 |
| 62.5° | 13926.5 | 13803.5 | 13842.4 | 14250.4 | 15825.2 | 15985.1 | 17356.8 | 16233.2 | 13793.2 | 14672.8 |
| 65° | 15728.8 | 15517.6 | 15320.8 | 15603.7 | 17529.1 | 17687.0 | 18740.9 | 16805.3 | 13711.2 | 14227.9 |
| 67.5° | 17998.6 | 17789.5 | 17547.5 | 17814.1 | 20038.8 | 20163.9 | 20448.9 | 17127.2 | 13065.3 | 12513.7 |
| 70° | 19870.7 | 19792.7 | 20081.9 | 21178.8 | 24047.4 | 24051.5 | 22638.7 | 16860.6 | 11295.8 | 8872.2 |
| 72.5° | 19622.6 | 19575.4 | 21098.9 | 24490.3 | 29099.6 | 28990.9 | 24711.7 | 14843.0 | 7609.1 | 4002.4 |
| 75° | 16097.9 | 16403.4 | 18763.4 | 24430.8 | 30914.2 | 30899.9 | 23442.5 | 9436.1 | 3147.4 | 1658.8 |
| 77.5° | 8632.3 | 9116.2 | 12181.6 | 18037.6 | 24133.5 | 24496.4 | 16481.3 | 3301.2 | 1351.2 | 1062.1 |
| 80° | 2815.2 | 3237.6 | 4855.4 | 9183.9 | 15681.6 | 15614.0 | 7063.7 | 1295.9 | 924.7 | 752.5 |
| 82.5° | 1195.4 | 1244.6 | 2169.3 | 4336.6 | 8047.9 | 7922.8 | 2249.3 | 744.3 | 650.0 | 514.7 |
| 85° | 467.5 | 522.9 | 957.5 | 2005.3 | 3485.7 | 3409.9 | 812.0 | 369.1 | 416.2 | 336.3 |
| 87.5° | 153.8 | 186.6 | 342.4 | 686.9 | 1084.7 | 1045.7 | 198.9 | 127.1 | 180.4 | 153.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P943539
 CATALOG NUMBER: GALN-SB8A-760-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5054.3 | 0° | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 | 5054.3 |
| 5068.6 | 2.5° | 5097.4 | 5130.2 | 5169.1 | 5226.5 | 5275.7 | 5316.8 | 5359.8 | 5386.5 | 5396.7 | 5427.5 |
| 5076.9 | 5° | 5134.3 | 5206.0 | 5302.4 | 5396.7 | 5489.0 | 5544.3 | 5593.6 | 5618.2 | 5640.7 | 5657.1 |
| 5099.4 | 7.5° | 5195.8 | 5288.0 | 5439.8 | 5562.8 | 5640.7 | 5685.8 | 5718.6 | 5710.4 | 5718.6 | 5722.7 |
| 5124.0 | 10° | 5249.1 | 5378.3 | 5558.7 | 5675.6 | 5735.0 | 5737.1 | 5728.9 | 5700.2 | 5685.8 | 5687.9 |
| 5160.9 | 12.5° | 5312.6 | 5456.2 | 5651.0 | 5749.4 | 5765.8 | 5720.7 | 5685.8 | 5636.6 | 5618.2 | 5610.0 |
| 5216.3 | 15° | 5398.8 | 5562.8 | 5751.4 | 5788.3 | 5747.3 | 5689.9 | 5630.5 | 5550.5 | 5509.5 | 5476.7 |
| 5310.6 | 17.5° | 5503.3 | 5683.8 | 5829.4 | 5802.7 | 5714.5 | 5620.2 | 5523.8 | 5402.9 | 5318.8 | 5283.9 |
| 5439.8 | 20° | 5648.9 | 5810.9 | 5888.8 | 5771.9 | 5638.7 | 5495.1 | 5331.1 | 5183.5 | 5105.6 | 5070.7 |
| 5603.8 | 22.5° | 5825.3 | 5981.1 | 5946.2 | 5718.6 | 5530.0 | 5300.3 | 5095.3 | 4986.6 | 4947.7 | 4923.1 |
| 5815.0 | 25° | 6036.4 | 6169.7 | 5987.2 | 5640.7 | 5351.6 | 5042.0 | 4884.1 | 4849.3 | 4830.8 | 4812.3 |
| 6073.4 | 27.5° | 6311.2 | 6383.0 | 6018.0 | 5525.9 | 5072.7 | 4767.2 | 4709.8 | 4716.0 | 4709.8 | 4679.1 |
| 6432.2 | 30° | 6674.1 | 6659.8 | 6046.7 | 5339.3 | 4752.9 | 4519.1 | 4523.2 | 4549.9 | 4554.0 | 4533.5 |
| 6932.5 | 32.5° | 7151.9 | 7006.3 | 6061.1 | 5097.4 | 4447.4 | 4301.8 | 4305.9 | 4334.6 | 4355.1 | 4320.2 |
| 7586.6 | 35° | 7730.1 | 7410.2 | 6038.5 | 4793.9 | 4211.6 | 4094.7 | 4063.9 | 4072.1 | 4078.3 | 4045.5 |
| 8380.1 | 37.5° | 8404.7 | 7863.4 | 5938.0 | 4457.6 | 4016.8 | 3891.7 | 3826.1 | 3770.7 | 3737.9 | 3707.2 |
| 9278.2 | 40° | 9144.9 | 8357.5 | 5753.5 | 4129.6 | 3799.4 | 3676.4 | 3578.0 | 3473.4 | 3362.7 | 3321.7 |
| 10229.6 | 42.5° | 9920.0 | 8866.0 | 5530.0 | 3815.8 | 3549.3 | 3448.8 | 3344.2 | 3192.5 | 3026.4 | 2942.4 |
| 11217.9 | 45° | 10723.7 | 9386.8 | 5310.6 | 3506.2 | 3293.0 | 3249.9 | 3128.9 | 2946.5 | 2766.0 | 2659.4 |
| 12208.2 | 47.5° | 11511.1 | 9878.9 | 4988.7 | 3194.6 | 3053.1 | 3100.2 | 3005.9 | 2837.8 | 2636.8 | 2468.7 |
| 13190.4 | 50° | 12263.6 | 10340.3 | 4461.7 | 2878.8 | 2858.3 | 3055.1 | 2964.9 | 2723.0 | 2493.3 | 2278.0 |
| 14154.1 | 52.5° | 13009.9 | 10713.5 | 3787.1 | 2591.7 | 2753.7 | 3042.8 | 2911.6 | 2645.0 | 2364.1 | 2138.6 |
| 15060.4 | 55° | 13643.5 | 10906.2 | 3137.1 | 2345.7 | 2602.0 | 2938.3 | 2848.0 | 2552.8 | 2181.7 | 1941.8 |
| 15681.6 | 57.5° | 14004.4 | 10750.4 | 2595.8 | 2103.7 | 2392.8 | 2766.0 | 2739.4 | 2355.9 | 1964.3 | 1779.8 |
| 15802.6 | 60° | 13848.6 | 10118.8 | 2152.9 | 1892.5 | 2194.0 | 2579.4 | 2550.7 | 2161.1 | 1798.2 | 1623.9 |
| 15154.7 | 62.5° | 12989.4 | 8915.2 | 1802.3 | 1708.0 | 2013.5 | 2388.7 | 2362.1 | 2011.5 | 1671.1 | 1503.0 |
| 13434.4 | 65° | 11258.9 | 7252.4 | 1529.6 | 1554.2 | 1831.0 | 2159.1 | 2198.1 | 1886.4 | 1570.6 | 1406.6 |
| 10393.6 | 67.5° | 8587.2 | 5253.2 | 1316.4 | 1420.9 | 1652.6 | 1933.6 | 2046.3 | 1796.2 | 1486.6 | 1330.7 |
| 6013.9 | 70° | 4894.4 | 2983.4 | 1135.9 | 1291.8 | 1494.8 | 1724.4 | 1929.4 | 1724.4 | 1396.3 | 1267.2 |
| 2253.4 | 72.5° | 1855.6 | 1369.7 | 982.2 | 1162.6 | 1343.0 | 1548.1 | 1800.3 | 1611.6 | 1291.8 | 1195.4 |
| 1164.6 | 75° | 990.4 | 834.5 | 826.3 | 1010.9 | 1168.7 | 1375.8 | 1638.3 | 1500.9 | 1213.9 | 1263.1 |
| 805.8 | 77.5° | 674.6 | 590.5 | 691.0 | 865.3 | 978.1 | 1185.1 | 1466.1 | 1332.8 | 1051.9 | 1047.8 |
| 557.7 | 80° | 467.5 | 418.3 | 561.8 | 697.1 | 756.6 | 996.5 | 1279.5 | 1144.1 | 857.1 | 799.7 |
| 344.5 | 82.5° | 280.9 | 272.7 | 420.3 | 520.8 | 535.2 | 768.9 | 1060.1 | 959.6 | 701.2 | 611.0 |
| 205.0 | 85° | 153.8 | 162.0 | 268.6 | 305.5 | 311.7 | 537.2 | 830.4 | 742.3 | 539.3 | 453.1 |
| 73.8 | 87.5° | 43.1 | 55.4 | 98.4 | 121.0 | 149.7 | 278.9 | 494.2 | 440.8 | 270.7 | 188.6 |
| 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> |
|---------------|
| 5054.3 |
| 5425.4 |
| 5661.2 |
| 5728.9 |
| 5692.0 |
| 5605.9 |
| 5486.9 |
| 5286.0 |
| 5066.6 |
| 4927.2 |
| 4812.3 |
| 4685.2 |
| 4543.7 |
| 4336.6 |
| 4068.0 |
| 3727.7 |
| 3340.1 |
| 2952.6 |
| 2651.2 |
| 2450.3 |
| 2259.6 |
| 2114.0 |
| 1921.2 |
| 1755.2 |
| 1599.3 |
| 1476.3 |
| 1379.9 |
| 1306.1 |
| 1250.8 |
| 1179.0 |
| <i>1304.1</i> |
| 965.7 |
| 764.8 |
| 615.1 |
| 457.2 |
| 188.6 |
| 0.0 |

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