

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: P956134

Luminaire Tested: **GALN-SB8D-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78231 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

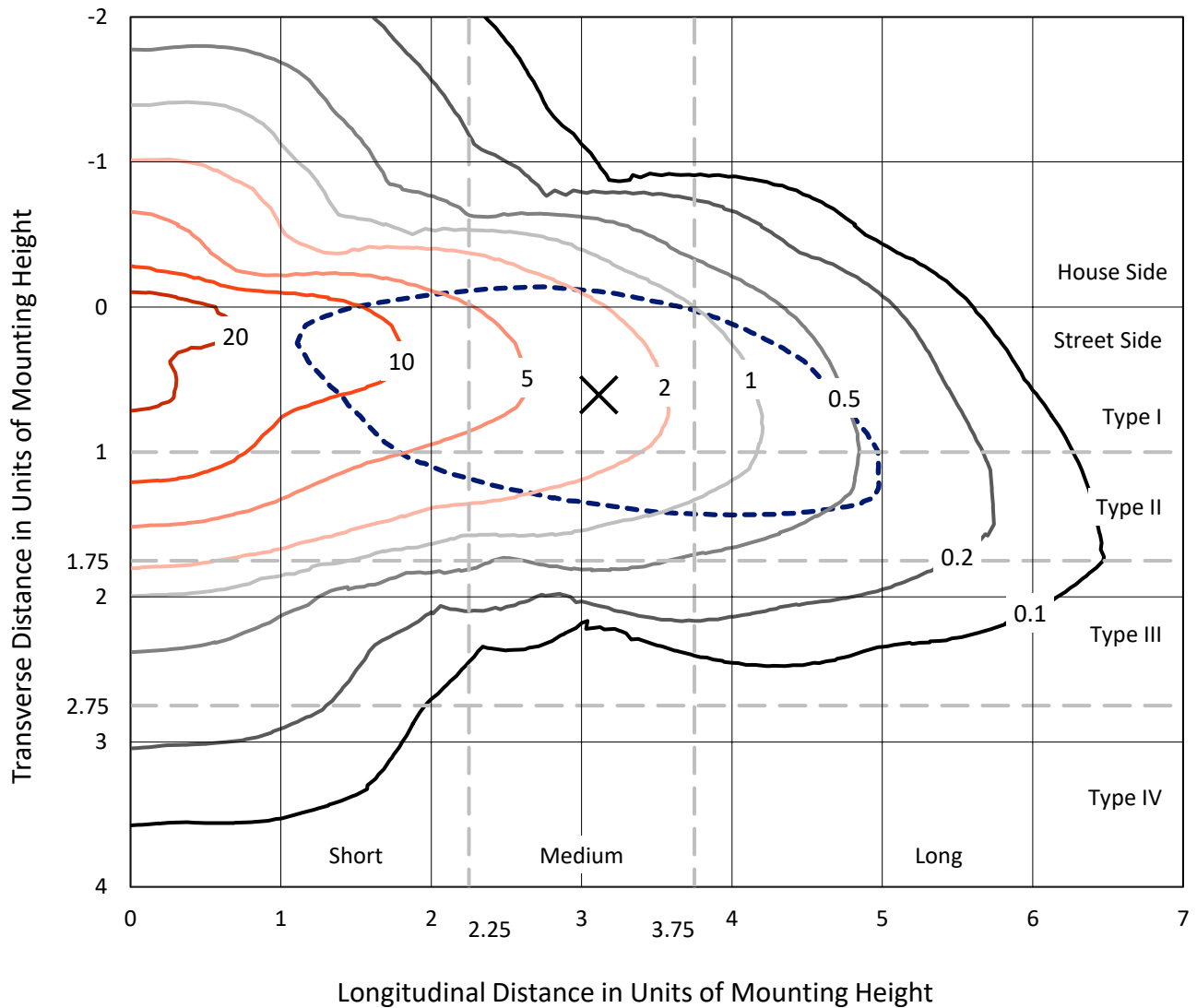
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

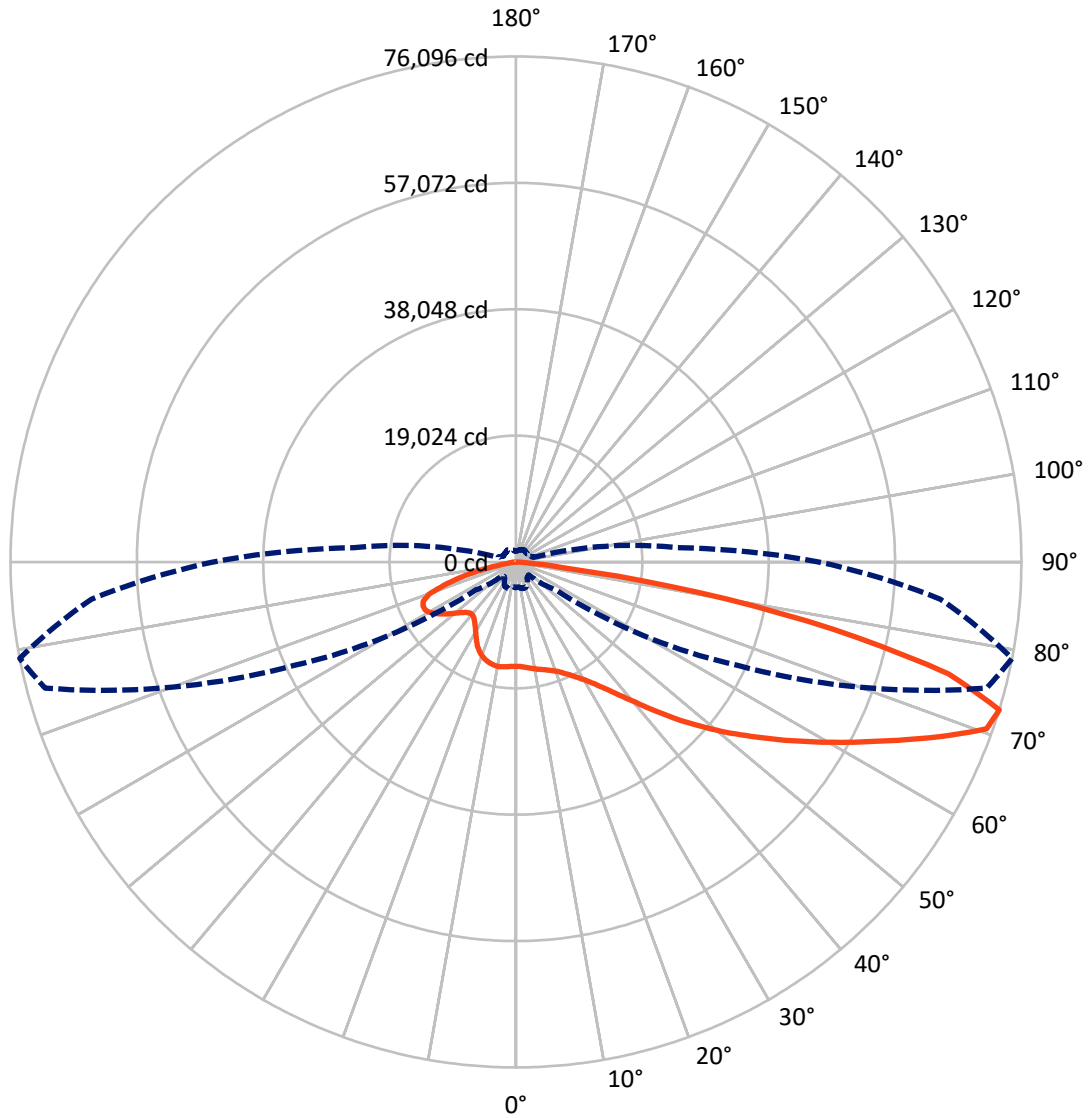
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17215.1 | 0.0 | 17215.1 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 61015.9 | 0.0 | 61015.9 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 78231.0 | 0.0 | 78231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1425.5 | 1.8 |
| 10°-20° | 3726.9 | 4.8 |
| 20°-30° | 6013.7 | 7.7 |
| 30°-40° | 9025.8 | 11.5 |
| 40°-50° | 12803.5 | 16.4 |
| 50°-60° | 16169.2 | 20.7 |
| 60°-70° | 16422.0 | 21.0 |
| 70°-80° | 11192.3 | 14.3 |
| 80°-90° | 1452.1 | 1.9 |
| 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° | 78231.0 | 100.0 |
| 0°-180° | 78231.0 | 100.0 |



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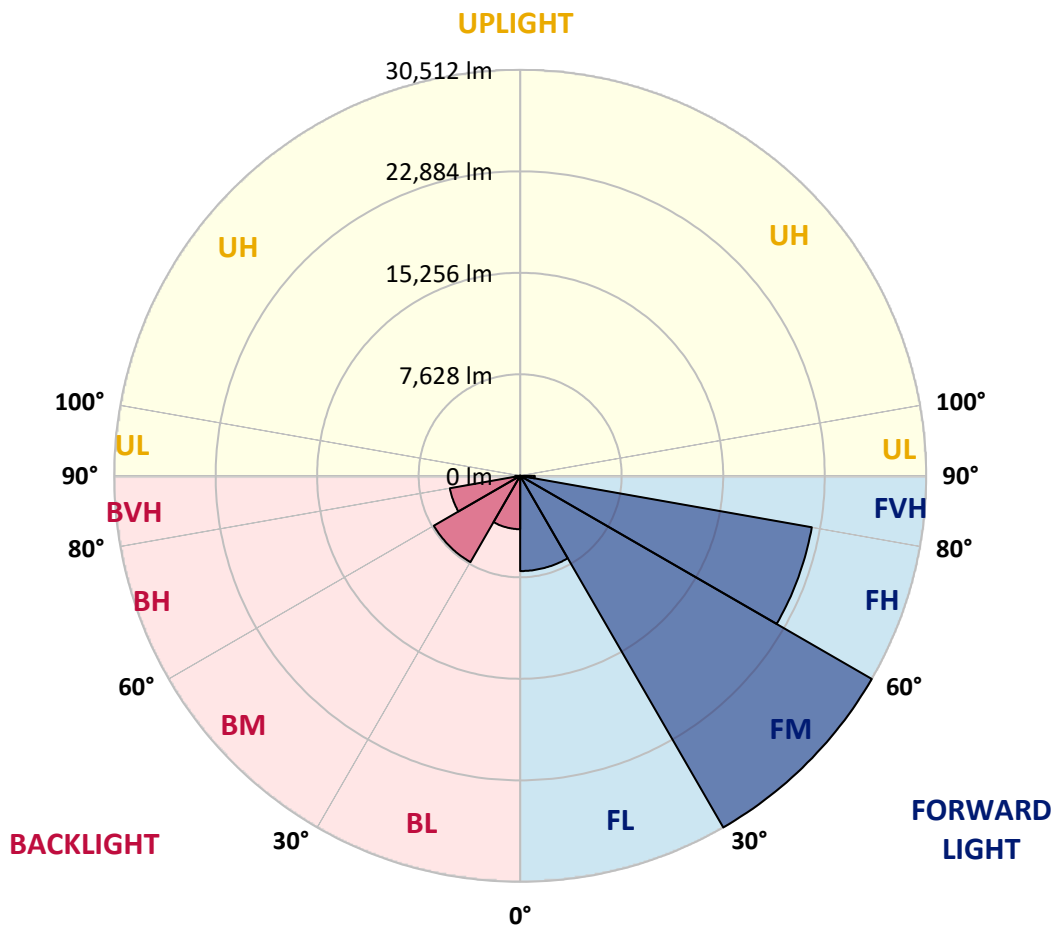
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 7156.2 | 9.1 | | | |
| FM (30°-60°) | 30511.7 | 39.0 | | | |
| FH (60°-80°) | 22254.1 | 28.4 | | | G5 |
| FVH (80°-90°) | 1093.9 | 1.4 | | | G5 |
| BL (0°-30°) | 4009.9 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 7486.8 | 9.6 | B4/8500 | | |
| BH (60°-80°) | 5360.2 | 6.9 | B5 | | G5 |
| BVH (80°-90°) | 358.2 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 |
| 2.5° | 15712.4 | 15637.9 | 15683.4 | 15666.9 | 15687.6 | 15712.4 | 15720.7 | 15733.1 | 15774.5 | 15770.3 |
| 5° | 15679.3 | 15604.8 | 15666.9 | 15646.2 | 15700.0 | 15757.9 | 15807.6 | 15853.1 | 15919.3 | 15948.3 |
| 7.5° | 15609.0 | 15559.3 | 15621.4 | 15683.4 | 15782.8 | 15869.7 | 15940.0 | 16043.5 | 16138.6 | 16155.2 |
| 10° | 15199.3 | 15162.0 | 15306.9 | 15468.3 | 15741.4 | 15977.2 | 16130.4 | 16250.4 | 16353.8 | 16370.4 |
| 12.5° | 14773.1 | 14727.5 | 14888.9 | 15108.2 | 15551.0 | 15977.2 | 16300.0 | 16457.3 | 16548.3 | 16602.1 |
| 15° | 14702.7 | 14665.5 | 14756.5 | 14946.9 | 15315.1 | 15865.5 | 16415.9 | 16705.6 | 16784.2 | 16846.2 |
| 17.5° | 15042.0 | 14971.7 | 15008.9 | 15075.1 | 15290.3 | 15762.1 | 16506.9 | 16986.9 | 17106.9 | 17173.2 |
| 20° | 15828.3 | 15729.0 | 15671.0 | 15538.6 | 15501.4 | 15778.6 | 16498.6 | 17326.3 | 17483.5 | 17566.3 |
| 22.5° | 16875.2 | 16809.0 | 16684.9 | 16349.7 | 15985.5 | 15981.4 | 16655.9 | 17760.8 | 18054.6 | 18133.2 |
| 25° | 18141.5 | 18042.2 | 17884.9 | 17429.7 | 16730.4 | 16382.8 | 16920.7 | 18315.3 | 18807.7 | 18828.4 |
| 27.5° | 19598.1 | 19449.1 | 19233.9 | 18633.9 | 17690.4 | 17011.8 | 17326.3 | 18952.5 | 19672.6 | 19664.3 |
| 30° | 21133.3 | 20984.4 | 20756.8 | 20028.5 | 18840.8 | 17860.1 | 17889.1 | 19639.5 | 20698.8 | 20653.3 |
| 32.5° | 22254.8 | 22143.0 | 22097.5 | 21534.7 | 20165.0 | 18861.5 | 18534.6 | 20400.9 | 21965.1 | 21923.7 |
| 35° | 23115.5 | 22970.7 | 23024.4 | 22738.9 | 21609.2 | 19982.9 | 19325.0 | 21307.1 | 23504.5 | 23500.3 |
| 37.5° | 23967.9 | 23839.7 | 23885.2 | 23694.8 | 22945.8 | 21406.4 | 20289.2 | 22416.1 | 25412.1 | 25503.2 |
| 40° | 24745.9 | 24609.3 | 24791.4 | 24613.5 | 23984.5 | 22921.0 | 21385.8 | 23670.0 | 27621.9 | 27795.7 |
| 42.5° | 25213.5 | 25105.9 | 25408.0 | 25412.1 | 24886.6 | 24199.7 | 22589.9 | 25052.1 | 30179.2 | 30568.2 |
| 45° | 25374.9 | 25337.7 | 25792.8 | 25888.0 | 25685.3 | 24940.4 | 23674.1 | 26558.4 | 32935.2 | 33630.4 |
| 47.5° | 25201.1 | 25130.7 | 25759.7 | 26111.5 | 26272.9 | 25288.0 | 24572.1 | 28188.8 | 35749.1 | 36767.1 |
| 50° | 24323.8 | 24187.3 | 25122.5 | 25863.2 | 26438.4 | 25515.6 | 25478.3 | 30071.6 | 38947.9 | 40061.0 |
| 52.5° | 22747.2 | 22643.7 | 23707.2 | 24994.2 | 26074.2 | 25627.3 | 26496.3 | 32128.3 | 41985.3 | 43425.3 |
| 55° | 20731.9 | 20595.4 | 21766.5 | 23446.5 | 25168.0 | 25590.1 | 27514.3 | 34429.1 | 45568.9 | 47029.6 |
| 57.5° | 17537.3 | 17264.2 | 18745.6 | 20731.9 | 23690.7 | 25544.6 | 28573.7 | 36717.5 | 49210.4 | 50960.8 |
| 60° | 12877.8 | 12472.3 | 14288.9 | 16643.5 | 20802.3 | 25101.8 | 29885.4 | 39283.1 | 53580.3 | 55156.9 |
| 62.5° | 7498.3 | 7262.4 | 8450.0 | 10647.4 | 15679.3 | 22494.8 | 30622.0 | 42266.7 | 57875.6 | 59530.9 |
| 65° | 5822.3 | 5756.1 | 5859.6 | 6029.2 | 8727.3 | 16842.1 | 28350.2 | 45175.8 | 63337.9 | 64496.6 |
| 67.5° | 5325.7 | 5276.1 | 5321.6 | 5003.0 | 4427.8 | 9381.1 | 22428.6 | 45912.3 | 69189.2 | 69892.7 |
| 70° | 4734.0 | 4676.1 | 4825.0 | 4551.9 | 3484.3 | 4266.4 | 14491.7 | 43239.1 | 73844.6 | 75164.6 |
| 72.5° | 3856.7 | 3790.5 | 4138.1 | 4014.0 | 2933.9 | 2739.4 | 7278.9 | 36887.1 | 73356.3 | 76095.7 |
| 75° | 2962.9 | 2925.6 | 3339.5 | 3442.9 | 2391.8 | 2156.0 | 3492.6 | 27419.1 | 64554.5 | 67314.6 |
| 77.5° | 2300.8 | 2271.8 | 2482.9 | 2859.4 | 1928.4 | 1671.8 | 2147.7 | 17392.5 | 48647.6 | 49131.8 |
| 80° | 1725.6 | 1642.8 | 1837.3 | 2213.9 | 1502.1 | 1220.7 | 1456.6 | 10142.5 | 30750.3 | 27874.3 |
| 82.5° | 1080.0 | 1038.7 | 1200.1 | 1477.3 | 1059.4 | 840.0 | 947.6 | 5603.0 | 12323.3 | 7258.2 |
| 85° | 616.6 | 600.0 | 653.8 | 844.2 | 575.2 | 484.2 | 542.1 | 2474.6 | 2251.1 | 1547.7 |
| 87.5° | 248.3 | 240.0 | 297.9 | 376.6 | 211.0 | 177.9 | 190.4 | 595.9 | 496.6 | 459.3 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15704.1 | 0° | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 | 15704.1 |
| 15766.2 | 2.5° | 15749.6 | 15749.6 | 15691.7 | 15600.7 | 15497.2 | 15431.0 | 15323.4 | 15294.5 | 15182.7 | 15149.6 |
| 15906.9 | 5° | 15940.0 | 15906.9 | 15729.0 | 15472.4 | 15120.7 | 14797.9 | 14442.0 | 14218.5 | 13904.1 | 13792.3 |
| 16184.2 | 7.5° | 16180.0 | 16089.0 | 15782.8 | 15220.0 | 14483.4 | 13759.2 | 13006.1 | 12435.0 | 11888.8 | 11694.3 |
| 16411.7 | 10° | 16399.3 | 16271.1 | 15749.6 | 14764.8 | 13490.2 | 12236.4 | 11036.3 | 10196.3 | 9559.0 | 9298.3 |
| 16664.2 | 12.5° | 16618.7 | 16382.8 | 15530.3 | 14007.5 | 12079.1 | 10378.4 | 9099.7 | 8445.9 | 8052.8 | 7738.3 |
| 16871.1 | 15° | 16825.6 | 16494.5 | 15191.0 | 12993.7 | 10531.5 | 8805.9 | 7862.4 | 7341.0 | 7026.5 | 6819.6 |
| 17173.2 | 17.5° | 17065.6 | 16589.7 | 14682.0 | 11706.7 | 9058.3 | 7717.6 | 6947.9 | 6633.4 | 6571.3 | 6546.5 |
| 17587.0 | 20° | 17400.8 | 16676.6 | 14011.6 | 10266.7 | 7974.1 | 6848.6 | 6451.3 | 6422.3 | 6418.2 | 6405.8 |
| 18083.5 | 22.5° | 17760.8 | 16780.0 | 13126.1 | 8959.0 | 7051.3 | 6306.5 | 6236.1 | 6178.2 | 6141.0 | 6136.8 |
| 18683.6 | 25° | 18187.0 | 16813.1 | 12017.1 | 7887.2 | 6265.1 | 6049.9 | 5967.2 | 5880.3 | 5855.4 | 5855.4 |
| 19366.4 | 27.5° | 18600.8 | 16701.4 | 10726.0 | 6956.2 | 5822.3 | 5814.0 | 5706.5 | 5677.5 | 5673.3 | 5685.8 |
| 20144.3 | 30° | 19014.6 | 16490.4 | 9443.2 | 6095.4 | 5565.8 | 5565.8 | 5528.5 | 5549.2 | 5565.8 | 5607.1 |
| 21212.0 | 32.5° | 19573.3 | 16266.9 | 8371.4 | 5458.2 | 5342.3 | 5300.9 | 5338.2 | 5379.5 | 5396.1 | 5449.9 |
| 22614.8 | 35° | 20392.6 | 16109.7 | 7518.9 | 5110.6 | 5110.6 | 5056.8 | 5077.5 | 5069.2 | 5031.9 | 5007.1 |
| 24311.4 | 37.5° | 21476.8 | 16101.4 | 6815.5 | 4949.2 | 4916.1 | 4907.8 | 4911.9 | 4858.1 | 4713.3 | 4539.5 |
| 26363.9 | 40° | 22780.3 | 16324.8 | 6273.4 | 4837.5 | 4812.6 | 4862.3 | 4837.5 | 4692.6 | 4295.4 | 3993.3 |
| 28888.1 | 42.5° | 24530.7 | 16962.1 | 5925.8 | 4700.9 | 4775.4 | 4837.5 | 4738.1 | 4237.4 | 3968.4 | 3765.7 |
| 31764.1 | 45° | 26591.5 | 17996.6 | 5747.8 | 4556.1 | 4705.0 | 4779.5 | 4299.5 | 4080.2 | 3865.0 | 3620.8 |
| 34900.8 | 47.5° | 28925.4 | 19300.1 | 5706.5 | 4419.5 | 4547.8 | 4593.3 | 4113.3 | 4014.0 | 3769.8 | 3505.0 |
| 38054.1 | 50° | 31466.2 | 20843.7 | 5818.2 | 4258.1 | 4320.2 | 4162.9 | 4051.2 | 3960.2 | 3707.7 | 3447.0 |
| 41285.9 | 52.5° | 34093.9 | 22544.4 | 6041.6 | 4038.8 | 4092.6 | 3918.8 | 4026.4 | 3947.8 | 3670.5 | 3318.8 |
| 44625.4 | 55° | 36676.1 | 24257.6 | 6256.8 | 3782.2 | 3860.9 | 3699.5 | 3956.0 | 3898.1 | 3500.8 | 3103.6 |
| 48188.3 | 57.5° | 39299.6 | 25962.5 | 6467.9 | 3554.6 | 3637.4 | 3488.4 | 3844.3 | 3765.7 | 3310.5 | 2905.0 |
| 52078.1 | 60° | 42026.7 | 27617.7 | 6567.2 | 3335.3 | 3393.3 | 3293.9 | 3674.6 | 3538.1 | 3095.3 | 2702.2 |
| 55901.7 | 62.5° | 44579.9 | 28995.7 | 6405.8 | 3116.0 | 3153.2 | 3111.9 | 3451.2 | 3269.1 | 2880.1 | 2474.6 |
| 59886.7 | 65° | 47141.4 | 29815.1 | 5909.2 | 2900.8 | 2909.1 | 2888.4 | 3136.7 | 2979.4 | 2627.7 | 2276.0 |
| 63375.2 | 67.5° | 49462.8 | 30274.4 | 5118.8 | 2669.1 | 2648.4 | 2640.1 | 2842.9 | 2664.9 | 2383.6 | 2077.3 |
| 66027.7 | 70° | 49955.3 | 29107.5 | 3910.5 | 2396.0 | 2396.0 | 2375.3 | 2520.1 | 2338.0 | 2114.6 | 1866.3 |
| 64128.3 | 72.5° | 45626.8 | 24485.2 | 2776.7 | 2085.6 | 2118.7 | 2077.3 | 2197.3 | 2044.2 | 1841.5 | 1675.9 |
| 55268.6 | 75° | 36791.9 | 17955.3 | 2019.4 | 1767.0 | 1824.9 | 1754.6 | 1866.3 | 1758.7 | 1584.9 | 1580.8 |
| 38087.2 | 77.5° | 25279.7 | 11102.6 | 1464.9 | 1456.6 | 1498.0 | 1407.0 | 1535.2 | 1477.3 | 1320.1 | 1249.7 |
| 16577.3 | 80° | 10788.1 | 4427.8 | 1067.6 | 1125.6 | 1125.6 | 1042.8 | 1191.8 | 1208.3 | 1071.8 | 1038.7 |
| 3198.8 | 82.5° | 2147.7 | 1258.0 | 749.0 | 773.8 | 728.3 | 703.5 | 844.2 | 935.2 | 1291.1 | 1435.9 |
| 964.2 | 85° | 645.5 | 463.5 | 451.1 | 422.1 | 372.4 | 376.6 | 496.6 | 939.4 | 1158.7 | 662.1 |
| 318.6 | 87.5° | 177.9 | 115.9 | 120.0 | 95.2 | 78.6 | 103.5 | 169.7 | 711.8 | 389.0 | 165.5 |
| 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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| <u>180°</u> |
|-------------|
| 15704.1 |
| 15203.4 |
| 13875.1 |
| 11719.1 |
| 9356.3 |
| 7841.7 |
| 6856.8 |
| 6563.0 |
| 6447.2 |
| 6182.3 |
| 5880.3 |
| 5718.9 |
| 5636.1 |
| 5495.4 |
| 5065.0 |
| 4543.6 |
| 3985.0 |
| 3757.4 |
| 3604.3 |
| 3484.3 |
| 3418.1 |
| 3293.9 |
| 3082.9 |
| 2896.7 |
| 2689.8 |
| 2470.5 |
| 2251.1 |
| 2052.5 |
| 1858.0 |
| 1626.3 |
| 1423.5 |
| 1171.1 |
| 1038.7 |
| 1440.1 |
| 571.1 |
| 140.7 |
| 0.0 |

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