

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: P956774

Luminaire Tested: **GALN-SB9B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45197 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

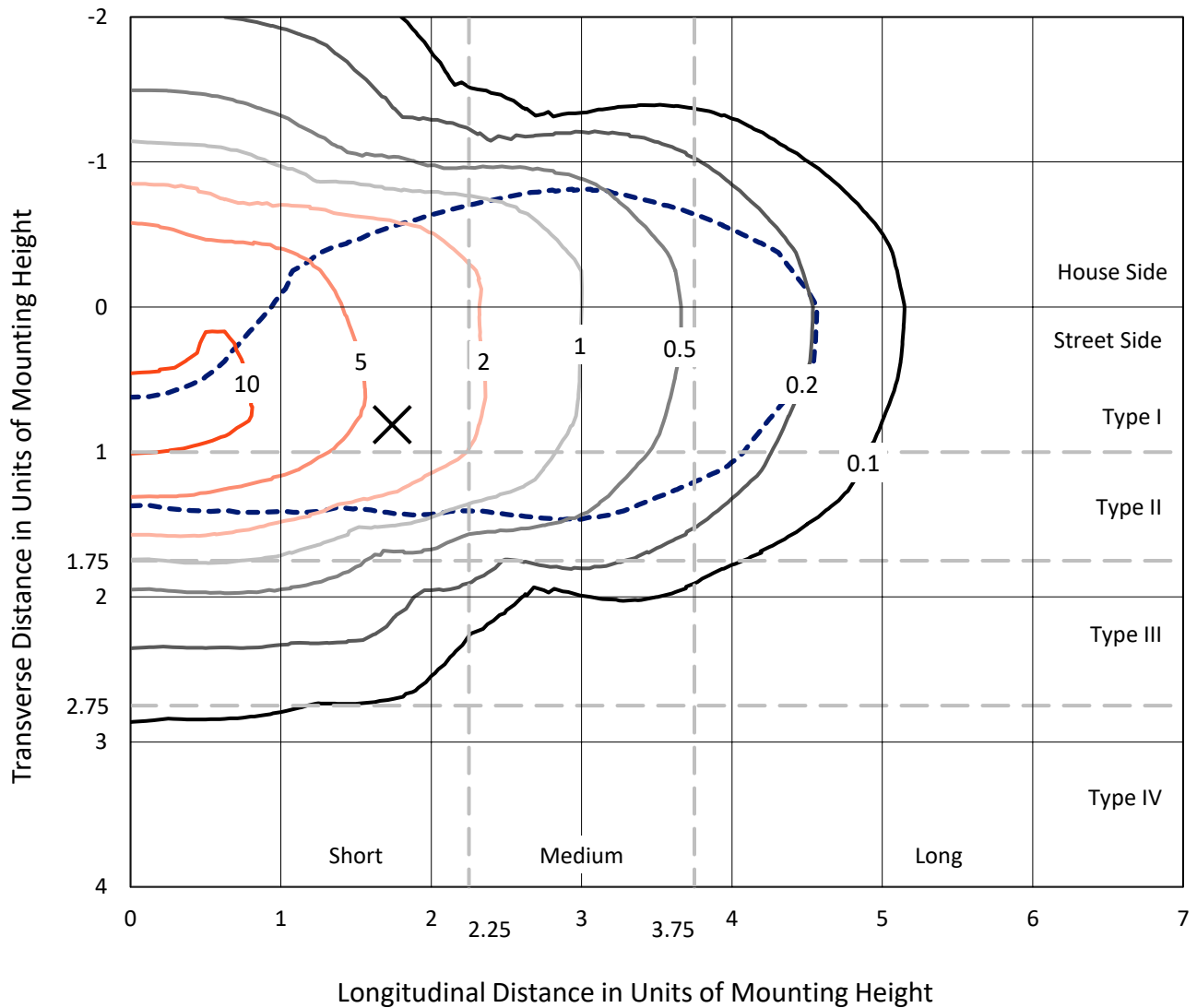
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

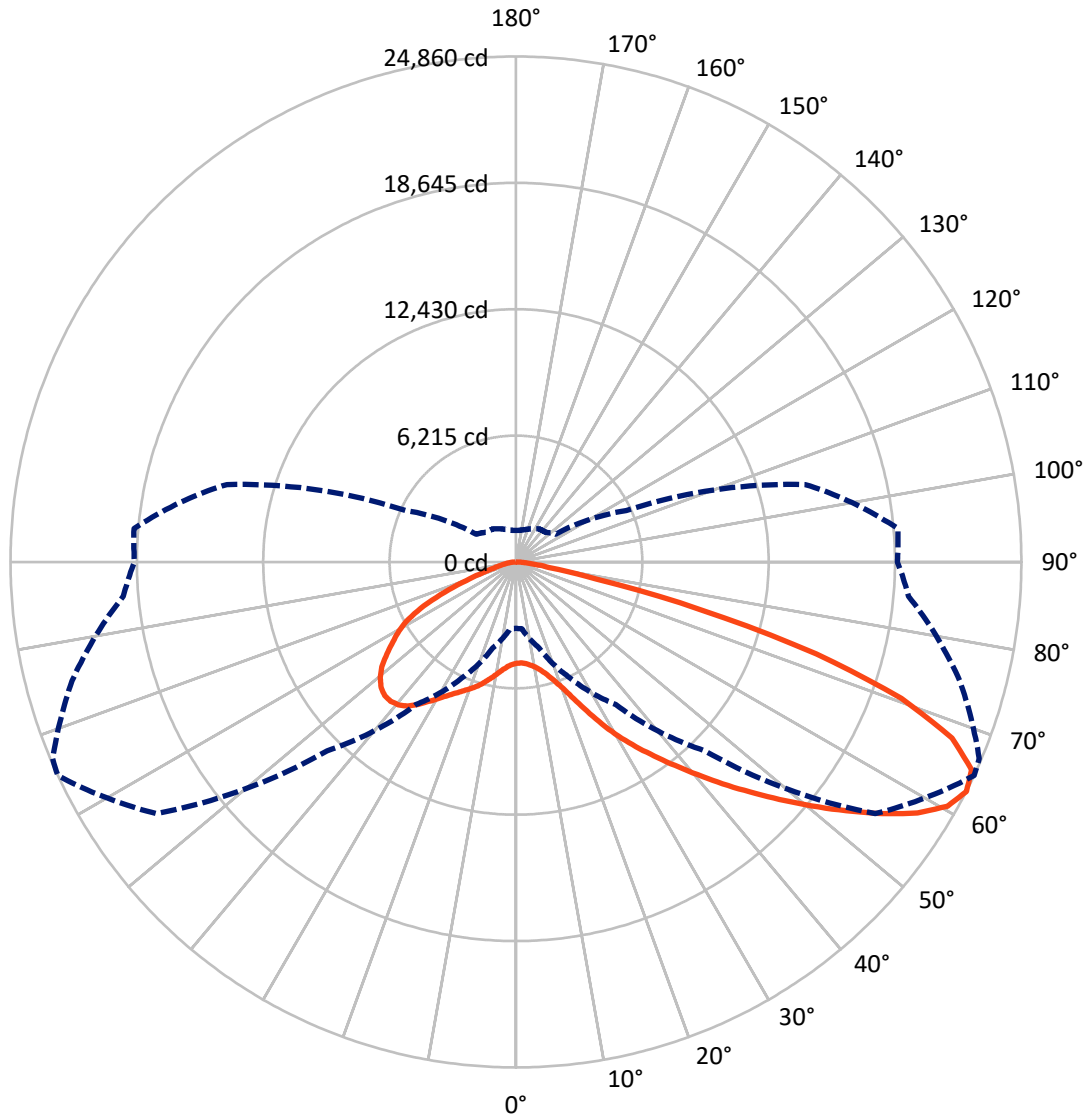
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14262.2	0.0	14262.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	30934.8	0.0	30934.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	45197.0	0.0	45197.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.6	1.1
10°-20°	1683.8	3.7
20°-30°	3414.2	7.6
30°-40°	5908.2	13.1
40°-50°	8940.9	19.8
50°-60°	10482.7	23.2
60°-70°	8788.4	19.4
70°-80°	4851.9	10.7
80°-90°	630.2	1.4
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°	45197.0	100.0
0°-180°	45197.0	100.0



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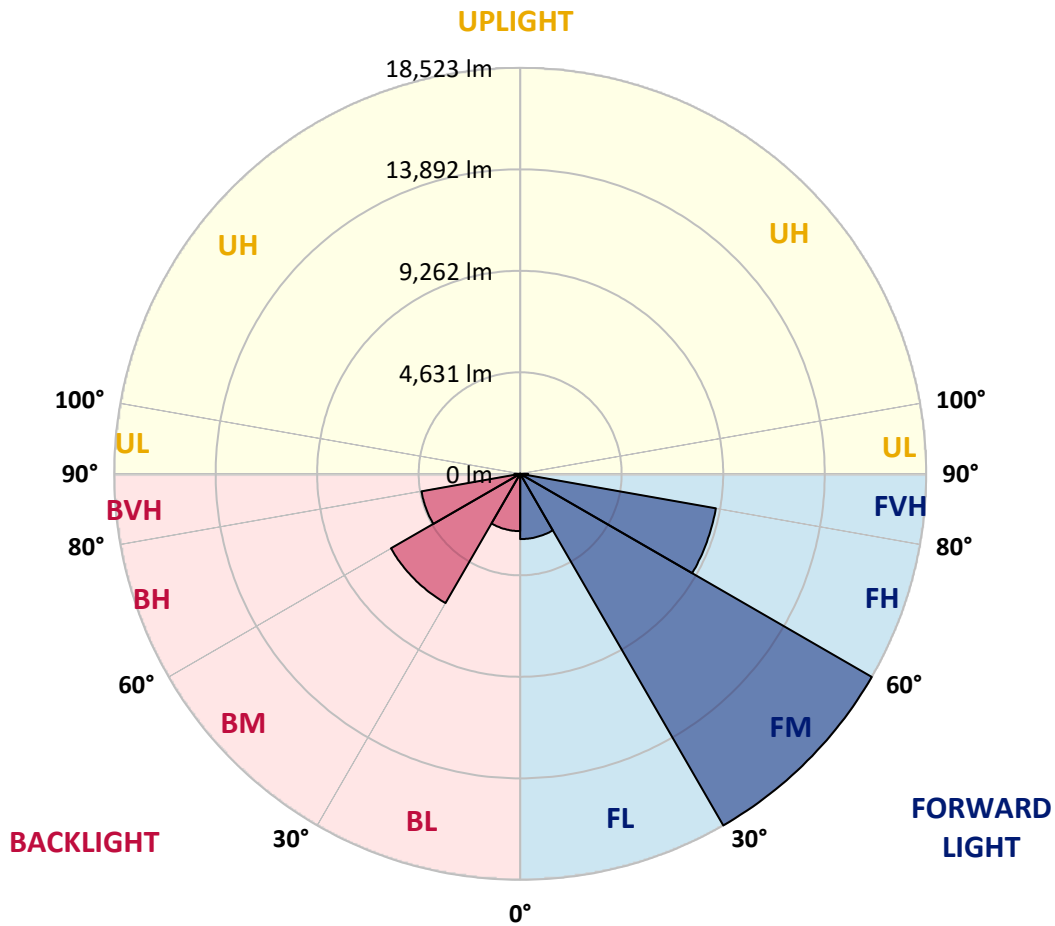
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2979.1	6.6			
FM (30°-60°)	18523.2	41.0			
FH (60°-80°)	9065.2	20.1			G4/12000
FVH (80°-90°)	367.3	0.8			G3/500
BL (0°-30°)	2615.5	5.8	B4/5000		
BM (30°-60°)	6808.6	15.1	B4/8500		
BH (60°-80°)	4575.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	262.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5
2.5°	4947.7	4933.6	4945.3	4945.3	4950.0	4947.7	4964.1	4968.8	4975.8	4989.9
5°	4898.4	4896.1	4917.2	4936.0	4954.7	4971.1	4992.2	5022.7	5027.4	5043.8
7.5°	4882.0	4868.0	4900.8	4924.2	4968.8	5008.7	5064.9	5116.5	5137.6	5144.7
10°	5008.7	4985.2	5015.7	5029.8	5067.3	5107.1	5172.8	5254.9	5278.3	5306.5
12.5°	5224.4	5198.6	5243.1	5264.2	5299.4	5334.6	5379.1	5458.9	5470.6	5522.2
15°	5519.8	5489.4	5517.5	5543.3	5601.9	5634.7	5679.3	5756.7	5756.7	5796.5
17.5°	5920.8	5880.9	5902.0	5911.4	5948.9	5998.2	6073.2	6141.2	6176.4	6162.3
20°	6518.8	6469.5	6469.5	6422.6	6408.5	6448.4	6546.9	6640.7	6678.2	6605.5
22.5°	7416.8	7346.5	7306.6	7147.2	7083.9	7088.6	7187.0	7301.9	7332.4	7203.5
25°	8558.8	8448.6	8394.7	8160.2	8017.1	7892.8	7970.2	8118.0	8160.2	8000.7
27.5°	9700.7	9707.8	9656.2	9374.8	9138.0	8910.5	8870.7	9025.4	9070.0	8889.4
30°	11302.3	11135.8	11037.3	10699.7	10362.0	10043.1	9879.0	9942.3	9954.0	9738.3
32.5°	12683.4	12641.2	12430.2	12134.7	11700.9	11201.5	10927.1	10826.3	10807.5	10500.3
35°	14256.8	14233.4	14010.6	13658.9	13189.9	12495.8	12001.1	11712.6	11689.2	11257.7
37.5°	15856.0	15856.0	15638.0	15253.4	14768.0	13900.4	13147.7	12690.5	12615.4	12052.7
40°	17131.7	17054.3	17094.1	16932.3	16376.6	15455.1	14421.0	13757.4	13656.5	12981.2
42.5°	17856.2	17830.4	18069.6	18250.2	18022.7	17286.4	15823.2	14913.4	14772.7	14003.6
45°	18018.0	17989.9	18416.6	19077.9	19396.8	19094.3	17347.4	16130.4	15959.2	15072.9
47.5°	17645.2	17588.9	18215.0	19258.5	20280.8	20813.1	18998.2	17450.6	17202.0	16114.0
50°	16524.3	16470.4	17417.7	18803.5	20578.6	21980.9	20789.7	18850.4	18470.6	17230.1
52.5°	14088.0	14113.8	15598.1	17502.1	20187.0	22707.8	22332.6	20325.4	19868.1	18372.1
55°	10974.0	11030.3	12854.6	14950.9	18620.6	22597.6	23385.4	21844.9	21389.9	19446.0
57.5°	7857.7	8106.2	9815.6	11890.9	15612.2	20850.6	23615.2	23289.3	22848.5	20618.5
60°	5093.1	5137.6	6896.3	8987.9	11888.5	17746.0	23148.6	24384.3	24039.7	21814.4
62.5°	3264.1	3294.5	4366.2	6286.6	8556.4	13129.0	21577.5	24860.4	24754.8	22604.6
65°	2398.8	2375.4	2933.4	4155.1	5763.7	8096.9	18526.9	24630.6	24839.3	23099.4
67.5°	2002.5	1969.7	2244.0	2877.2	4246.6	4598.3	13708.1	23136.9	23901.3	23043.1
70°	1824.3	1796.2	1962.7	2136.2	3313.3	3078.8	6910.3	20114.3	21291.5	22402.9
72.5°	1545.3	1496.0	1723.5	1897.0	2577.0	2361.3	2856.1	15450.4	16885.4	20351.2
75°	1198.2	1165.4	1360.0	1669.6	1936.9	1843.1	1805.6	9381.8	10948.2	15738.8
77.5°	949.7	905.1	1083.3	1301.4	1742.2	1390.5	1315.5	4040.2	5592.5	10047.8
80°	715.2	675.3	823.1	1029.4	1338.9	1048.2	851.2	1648.4	2108.0	5090.7
82.5°	508.8	473.7	574.5	755.0	900.4	940.3	522.9	923.9	1038.8	1962.7
85°	325.9	304.8	384.6	473.7	572.1	605.0	318.9	483.0	529.9	809.0
87.5°	178.2	145.4	206.3	220.4	265.0	241.5	152.4	175.9	189.9	293.1
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°
4980.5	0°	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5
4989.9	2.5°	4999.3	5006.3	5029.8	5036.8	5053.2	5074.3	5088.4	5102.4	5102.4	5116.5
5064.9	5°	5067.3	5083.7	5132.9	5158.7	5200.9	5243.1	5268.9	5299.4	5318.2	5327.6
5184.5	7.5°	5198.6	5224.4	5294.7	5339.3	5412.0	5470.6	5510.5	5552.7	5562.0	5587.8
5351.0	10°	5376.8	5407.3	5487.0	5571.4	5658.2	5730.9	5768.4	5798.9	5810.6	5815.3
5564.4	12.5°	5580.8	5625.4	5728.5	5831.7	5923.2	5986.5	5995.8	5988.8	5956.0	5927.8
5827.0	15°	5831.7	5871.6	5986.5	6099.0	6188.1	6199.8	6141.2	6103.7	6063.8	6056.8
6120.1	17.5°	6131.8	6153.0	6258.5	6368.7	6375.7	6335.9	6249.1	6213.9	6176.4	6150.6
6502.3	20°	6481.2	6474.2	6549.2	6596.1	6546.9	6425.0	6293.6	6235.0	6197.5	6167.0
6971.3	22.5°	6898.6	6844.7	6835.3	6823.6	6692.3	6436.7	6258.5	6183.4	6124.8	6082.6
7625.5	25°	7505.9	7299.6	7156.6	7076.8	6781.4	6373.4	6145.9	5979.4	5869.2	5796.5
8425.1	27.5°	8265.7	7918.6	7557.5	7362.9	6781.4	6244.4	5873.9	5604.3	5423.7	5348.7
9198.9	30°	8990.2	8626.8	8094.5	7707.6	6765.0	6033.4	5435.4	5060.2	4849.2	4774.2
9860.2	32.5°	9609.3	9213.0	8664.3	8085.1	6725.1	5691.0	4891.4	4476.4	4272.4	4183.3
10514.4	35°	10183.8	9761.7	9236.5	8500.2	6619.6	5189.2	4293.5	3976.9	3749.5	3606.4
11180.4	37.5°	10772.4	10270.6	9778.1	8875.3	6429.6	4603.0	3833.9	3564.2	3296.9	3104.6
11888.5	40°	11412.5	10812.2	10357.3	9098.1	6117.8	4044.9	3477.4	3231.2	2947.5	2743.5
12704.5	42.5°	12160.5	11461.7	11002.2	9213.0	5691.0	3648.6	3245.3	3003.8	2736.5	2570.0
13579.2	45°	12941.4	12176.9	11590.7	9210.7	5215.0	3463.4	3170.3	2931.1	2635.6	2462.1
14477.3	47.5°	13759.7	12924.9	12099.6	9060.6	4802.3	3489.2	3128.1	2774.0	2448.0	2279.2
15384.7	50°	14580.4	13743.3	12592.0	8779.2	4626.4	3432.9	2971.0	2553.6	2169.0	2016.6
16235.9	52.5°	15394.1	14613.3	13016.4	8378.2	4448.2	3224.2	2769.3	2267.5	2054.1	1948.6
17115.2	55°	16212.5	15473.8	13478.3	7794.4	4002.7	2980.3	2431.6	2159.6	1962.7	1866.5
17975.8	57.5°	17033.2	16468.1	13916.8	7210.5	3442.3	2680.2	2246.4	2028.3	1871.2	1789.1
18695.7	60°	17886.7	17605.3	14369.4	6673.5	2888.9	2295.6	2110.4	1922.8	1763.3	1671.9
19387.4	62.5°	18766.0	18857.5	14723.5	5981.8	2380.0	2061.1	1988.5	1796.2	1641.4	1554.7
19959.6	65°	19652.4	20065.1	14955.6	5022.7	1929.8	1838.4	1857.1	1657.8	1500.7	1425.7
20379.3	67.5°	20320.7	20935.0	14890.0	3801.0	1582.8	1627.3	1693.0	1512.4	1364.7	1306.1
20311.3	70°	20395.7	20831.9	14242.8	2602.8	1324.9	1421.0	1510.1	1369.4	1217.0	1174.8
19354.6	72.5°	19396.8	19424.9	12439.6	1700.0	1120.9	1247.5	1317.8	1224.0	1076.3	1034.1
16932.3	75°	16777.6	16064.7	9133.3	1120.9	937.9	1071.6	1137.3	1071.6	928.6	937.9
12669.4	77.5°	12711.6	11377.3	5545.6	797.3	783.2	900.4	989.5	942.6	820.7	921.5
6371.0	80°	6549.2	6155.3	2473.8	595.6	619.0	719.9	813.7	752.7	649.5	619.0
1423.3	82.5°	1500.7	1744.6	975.5	426.8	447.9	518.2	621.4	565.1	466.6	393.9
593.3	85°	525.3	574.5	431.5	267.3	262.6	323.6	422.1	377.5	316.6	253.2
250.9	87.5°	166.5	218.1	161.8	107.9	112.6	145.4	194.6	178.2	147.7	96.1
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>
4980.5
5116.5
5332.2
5578.5
5803.6
5927.8
6056.8
6153.0
6169.4
6096.7
5824.7
5386.2
4818.7
4227.8
3653.3
3156.2
2783.4
2602.8
2490.3
2302.7
2026.0
1948.6
1857.1
1775.1
1664.9
1552.3
1423.3
1308.4
1177.1
1031.7
905.1
811.3
565.1
389.2
267.3
100.8
0.0

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