

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: P956354

Luminaire Tested: **GALN-SB9A-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956354
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-SB9A-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43806 lumens
Efficiency: N/A
Efficacy: 171.5 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

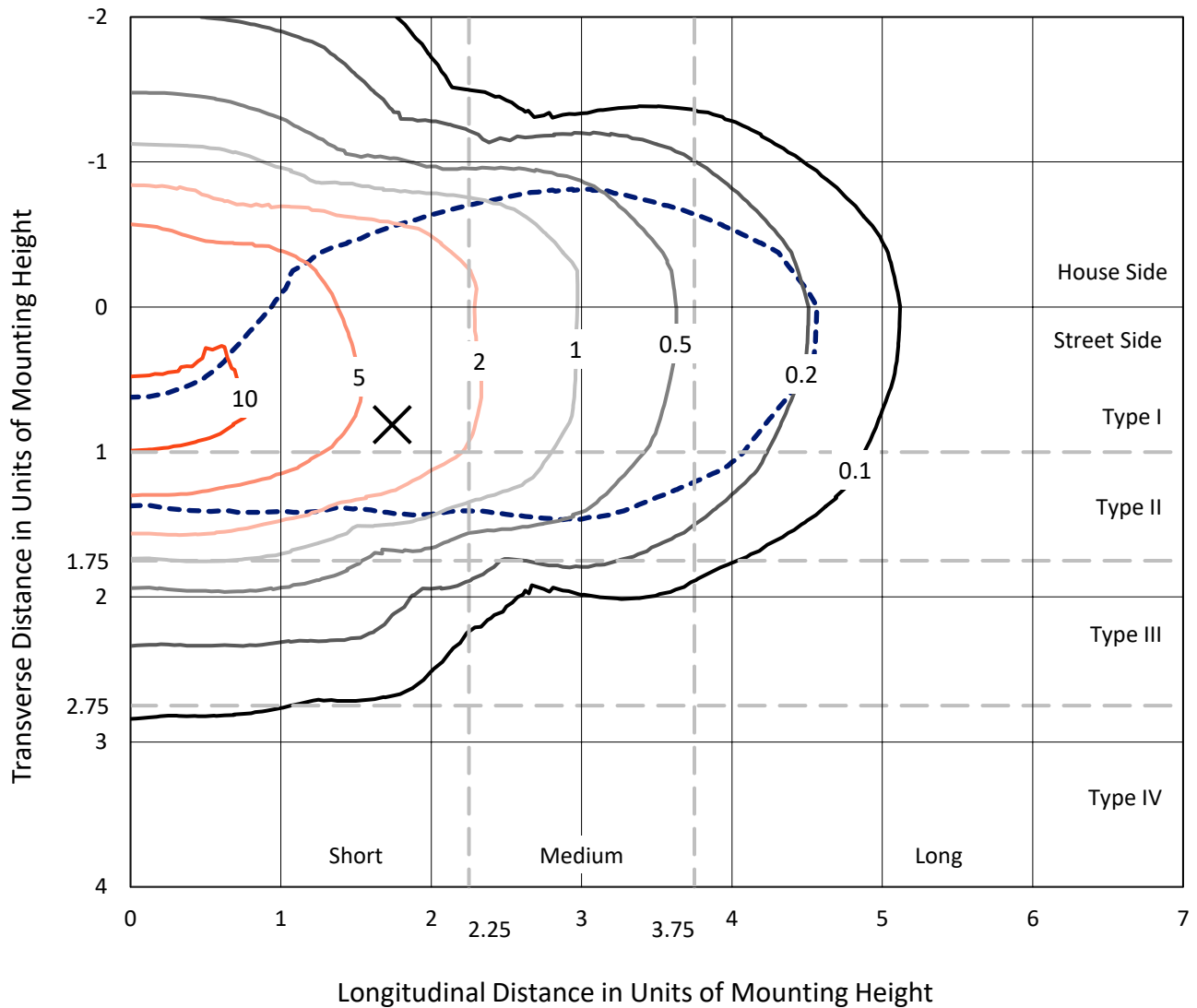
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

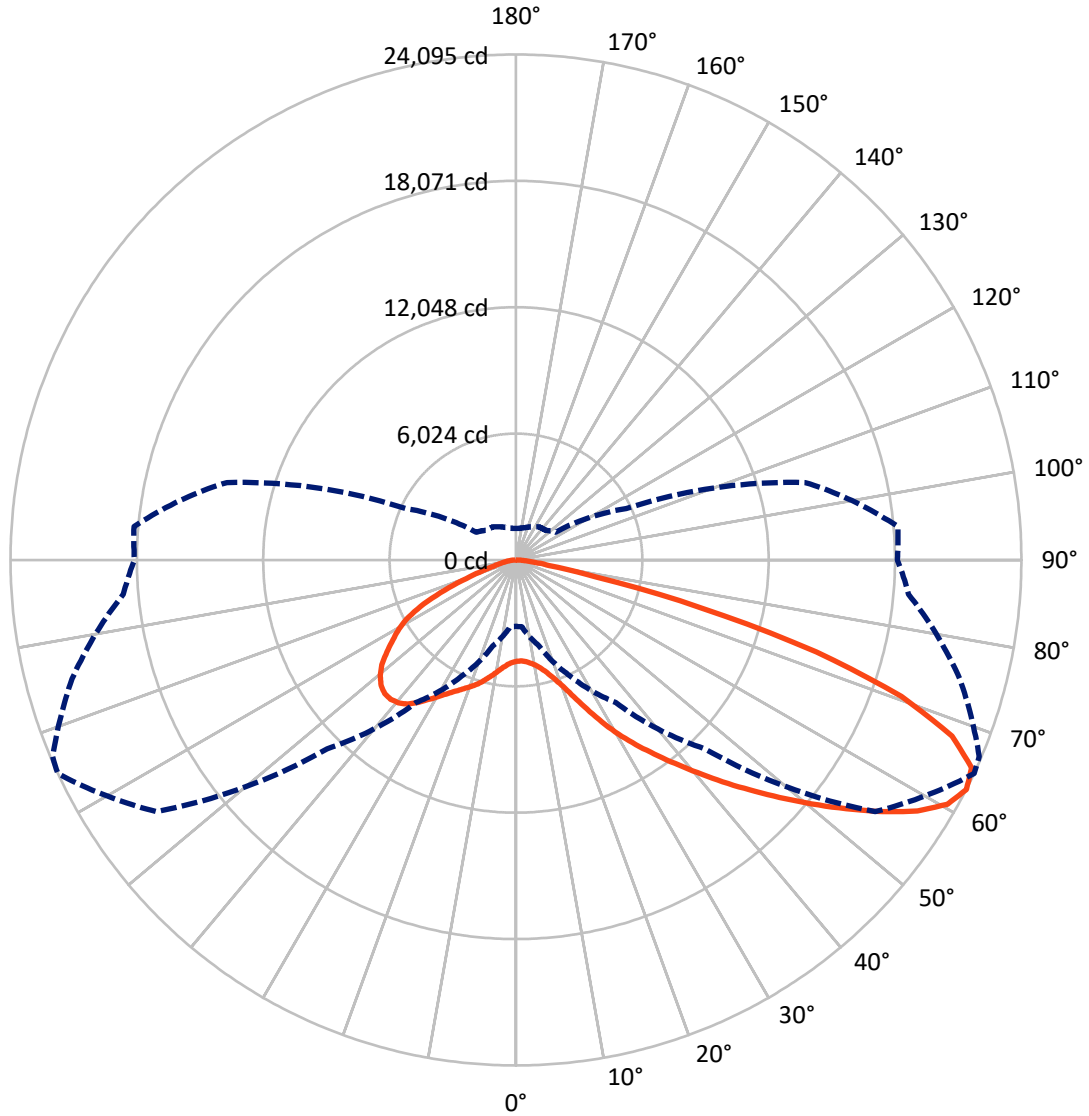
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	13823.3	0.0	13823.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29982.7	0.0	29982.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	43806.0	0.0	43806.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.3	1.1
10°-20°	1632.0	3.7
20°-30°	3309.1	7.6
30°-40°	5726.4	13.1
40°-50°	8665.8	19.8
50°-60°	10160.0	23.2
60°-70°	8518.0	19.4
70°-80°	4702.6	10.7
80°-90°	610.8	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°	43806.0	100.0
0°-180°	43806.0	100.0



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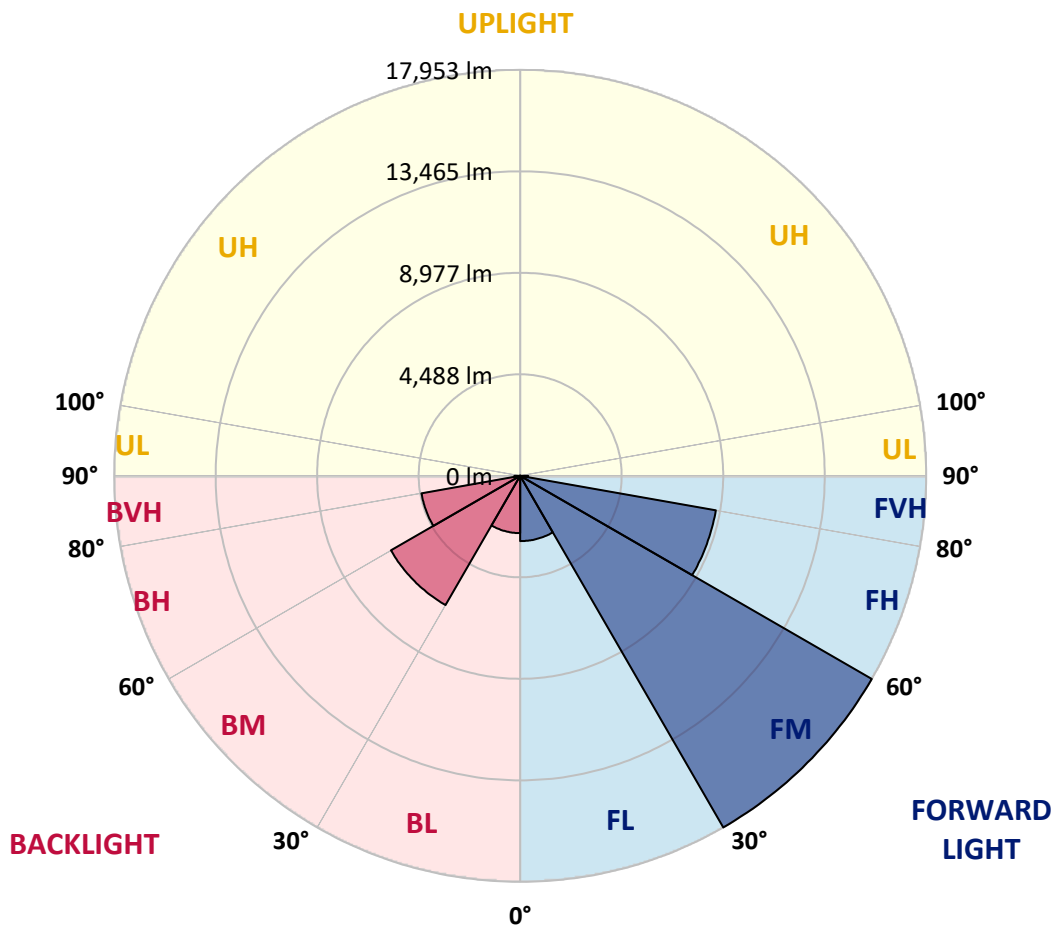
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2887.4	6.6			
FM (30°-60°)	17953.1	41.0			
FH (60°-80°)	8786.2	20.1			G4/12000
FVH (80°-90°)	356.0	0.8			G3/500
BL (0°-30°)	2535.0	5.8	B4/5000		
BM (30°-60°)	6599.0	15.1	B4/8500		
BH (60°-80°)	4434.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	254.8	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°	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2
2.5°	4795.4	4781.8	4793.1	4793.1	4797.7	4795.4	4811.3	4815.9	4822.7	4836.3
5°	4747.7	4745.4	4765.9	4784.0	4802.2	4818.1	4838.6	4868.1	4872.7	4888.6
7.5°	4731.8	4718.1	4750.0	4772.7	4815.9	4854.5	4909.0	4959.0	4979.5	4986.3
10°	4854.5	4831.8	4861.3	4875.0	4911.3	4950.0	5013.6	5093.1	5115.9	5143.1
12.5°	5063.6	5038.6	5081.8	5102.2	5136.3	5170.4	5213.6	5290.9	5302.2	5352.2
15°	5350.0	5320.4	5347.7	5372.7	5429.5	5461.3	5504.5	5579.5	5579.5	5618.1
17.5°	5738.6	5700.0	5720.4	5729.5	5765.9	5813.6	5886.3	5952.2	5986.3	5972.7
20°	6318.1	6270.4	6270.4	6224.9	6211.3	6249.9	6345.4	6436.3	6472.7	6402.2
22.5°	7188.6	7120.4	7081.8	6927.2	6865.9	6870.4	6965.8	7077.2	7106.8	6981.8
25°	8295.4	8188.6	8136.3	7909.0	7770.4	7649.9	7724.9	7868.1	7909.0	7754.5
27.5°	9402.2	9409.0	9359.0	9086.3	8856.7	8636.3	8597.7	8747.7	8790.8	8615.8
30°	10954.5	10793.1	10697.6	10370.4	10043.1	9734.0	9574.9	9636.3	9647.6	9438.6
32.5°	12293.1	12252.2	12047.6	11761.3	11340.8	10856.7	10590.8	10493.1	10474.9	10177.2
35°	13818.1	13795.3	13579.4	13238.5	12784.0	12111.3	11631.7	11352.2	11329.4	10911.3
37.5°	15368.0	15368.0	15156.7	14784.0	14313.5	13472.6	12743.1	12299.9	12227.2	11681.7
40°	16604.4	16529.4	16568.0	16411.2	15872.6	14979.4	13977.2	13334.0	13236.2	12581.7
42.5°	17306.7	17281.7	17513.5	17688.5	17468.0	16754.4	15336.2	14454.4	14318.1	13572.6
45°	17463.5	17436.2	17849.8	18490.8	18799.8	18506.7	16813.5	15634.0	15468.0	14609.0
47.5°	17102.1	17047.6	17654.4	18665.7	19656.6	20172.6	18413.5	16913.5	16672.6	15618.0
50°	16015.8	15963.5	16881.7	18224.8	19945.3	21304.4	20149.8	18270.3	17902.1	16699.9
52.5°	13654.4	13679.4	15118.1	16963.5	19565.7	22008.9	21645.3	19699.8	19256.7	17806.7
55°	10636.3	10690.8	12459.0	14490.8	18047.6	21902.1	22665.7	21172.5	20731.6	18847.6
57.5°	7615.8	7856.8	9513.6	11524.9	15131.7	20208.9	22888.4	22572.5	22145.3	19983.9
60°	4936.3	4979.5	6684.0	8711.3	11522.6	17199.9	22436.2	23633.9	23299.8	21143.0
62.5°	3163.6	3193.2	4231.8	6093.1	8293.1	12724.9	20913.5	24095.2	23993.0	21908.9
65°	2325.0	2302.3	2843.2	4027.2	5586.3	7847.7	17956.7	23872.5	24074.8	22388.4
67.5°	1940.9	1909.1	2175.0	2788.6	4115.9	4456.8	13286.2	22424.8	23165.7	22333.9
70°	1768.2	1740.9	1902.3	2070.4	3211.3	2984.1	6697.7	19495.3	20636.2	21713.4
72.5°	1497.7	1450.0	1670.4	1838.6	2497.7	2288.6	2768.2	14974.9	16365.8	19724.8
75°	1161.4	1129.5	1318.2	1618.2	1877.3	1786.3	1750.0	9093.1	10611.3	15254.4
77.5°	920.4	877.3	1050.0	1261.4	1688.6	1347.7	1275.0	3915.9	5420.4	9738.6
80°	693.2	654.5	797.7	997.7	1297.7	1015.9	825.0	1597.7	2043.2	4934.0
82.5°	493.2	459.1	556.8	731.8	872.7	911.4	506.8	895.4	1006.8	1902.3
85°	315.9	295.5	372.7	459.1	554.5	586.4	309.1	468.2	513.6	784.1
87.5°	172.7	140.9	200.0	213.6	256.8	234.1	147.7	170.5	184.1	284.1
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°
4827.2	0°	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2	4827.2
4836.3	2.5°	4845.4	4852.2	4875.0	4881.8	4897.7	4918.1	4931.8	4945.4	4945.4	4959.0
4909.0	5°	4911.3	4927.2	4975.0	5000.0	5040.9	5081.8	5106.8	5136.3	5154.5	5163.6
5025.0	7.5°	5038.6	5063.6	5131.8	5175.0	5245.4	5302.2	5340.9	5381.8	5390.9	5415.9
5186.3	10°	5211.3	5240.9	5318.1	5400.0	5484.0	5554.5	5590.9	5620.4	5631.8	5636.3
5393.1	12.5°	5409.0	5452.2	5552.2	5652.2	5740.9	5802.2	5811.3	5804.5	5772.7	5745.4
5647.7	15°	5652.2	5690.9	5802.2	5911.3	5997.7	6009.0	5952.2	5915.9	5877.2	5870.4
5931.8	17.5°	5943.1	5963.6	6065.9	6172.7	6179.5	6140.9	6056.8	6022.7	5986.3	5961.3
6302.2	20°	6281.8	6274.9	6347.7	6393.1	6345.4	6227.2	6099.9	6043.1	6006.8	5977.2
6756.8	22.5°	6686.3	6634.0	6624.9	6613.6	6486.3	6238.6	6065.9	5993.1	5936.3	5895.4
7390.8	25°	7274.9	7074.9	6936.3	6859.0	6572.7	6177.2	5956.8	5795.4	5688.6	5618.1
8165.8	27.5°	8011.3	7674.9	7324.9	7136.3	6572.7	6052.2	5693.1	5431.8	5256.8	5184.0
8915.8	30°	8713.6	8361.3	7845.4	7470.4	6556.8	5847.7	5268.1	4904.5	4700.0	4627.2
9556.7	32.5°	9313.6	8929.5	8397.7	7836.3	6518.1	5515.9	4740.9	4338.6	4140.9	4054.5
10190.8	35°	9870.4	9461.3	8952.2	8238.6	6415.9	5029.5	4161.3	3854.5	3634.1	3495.4
10836.3	37.5°	10440.8	9954.5	9477.2	8602.2	6231.8	4461.3	3715.9	3454.5	3195.4	3009.1
11522.6	40°	11061.3	10479.5	10038.6	8818.1	5929.5	3920.4	3370.4	3131.8	2856.8	2659.1
12313.5	42.5°	11786.3	11109.0	10663.5	8929.5	5515.9	3536.3	3145.4	2911.3	2652.2	2490.9
13161.3	45°	12543.1	11802.2	11234.0	8927.2	5054.5	3356.8	3072.7	2840.9	2554.5	2386.3
14031.7	47.5°	13336.2	12527.2	11727.2	8781.7	4654.5	3381.8	3031.8	2688.6	2372.7	2209.1
14911.2	50°	14131.7	13320.3	12204.4	8509.0	4484.1	3327.2	2879.5	2475.0	2102.3	1954.5
15736.2	52.5°	14920.3	14163.5	12615.8	8120.4	4311.3	3125.0	2684.1	2197.7	1990.9	1888.6
16588.5	55°	15713.5	14997.6	13063.5	7554.5	3879.5	2888.6	2356.8	2093.2	1902.3	1809.1
17422.6	57.5°	16508.9	15961.2	13488.5	6988.6	3336.3	2597.7	2177.3	1965.9	1813.6	1734.1
18120.3	60°	17336.2	17063.5	13927.2	6468.1	2800.0	2225.0	2045.4	1863.6	1709.1	1620.4
18790.7	62.5°	18188.5	18277.1	14270.3	5797.7	2306.8	1997.7	1927.3	1740.9	1590.9	1506.8
19345.3	65°	19047.6	19447.6	14495.3	4868.1	1870.4	1781.8	1800.0	1606.8	1454.5	1381.8
19752.1	67.5°	19695.3	20290.7	14431.7	3684.1	1534.1	1577.3	1640.9	1465.9	1322.7	1265.9
19686.2	70°	19768.0	20190.7	13804.4	2522.7	1284.1	1377.3	1463.6	1327.3	1179.5	1138.6
18758.9	72.5°	18799.8	18827.1	12056.7	1647.7	1086.4	1209.1	1277.3	1186.4	1043.2	1002.3
16411.2	75°	16261.2	15570.3	8852.2	1086.4	909.1	1038.6	1102.3	1038.6	900.0	909.1
12279.4	77.5°	12320.3	11027.2	5375.0	772.7	759.1	872.7	959.1	913.6	795.4	893.2
6174.9	80°	6347.7	5965.9	2397.7	577.3	600.0	697.7	788.6	729.5	629.5	600.0
1379.5	82.5°	1454.5	1690.9	945.4	413.6	434.1	502.3	602.3	547.7	452.3	381.8
575.0	85°	509.1	556.8	418.2	259.1	254.5	313.6	409.1	365.9	306.8	245.5
243.2	87.5°	161.4	211.4	156.8	104.5	109.1	140.9	188.6	172.7	143.2	93.2
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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180°
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4827.2
4959.0
5168.1
5406.8
5625.0
5745.4
5870.4
5963.6
5979.5
5909.0
5645.4
5220.4
4670.4
4097.7
3540.9
3059.1
2697.7
2522.7
2413.6
2231.8
1963.6
1888.6
1800.0
1720.4
1613.6
1504.5
1379.5
1268.2
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877.3
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