

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: P943737

Luminaire Tested: **GALN-SB8B-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-835-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42263 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

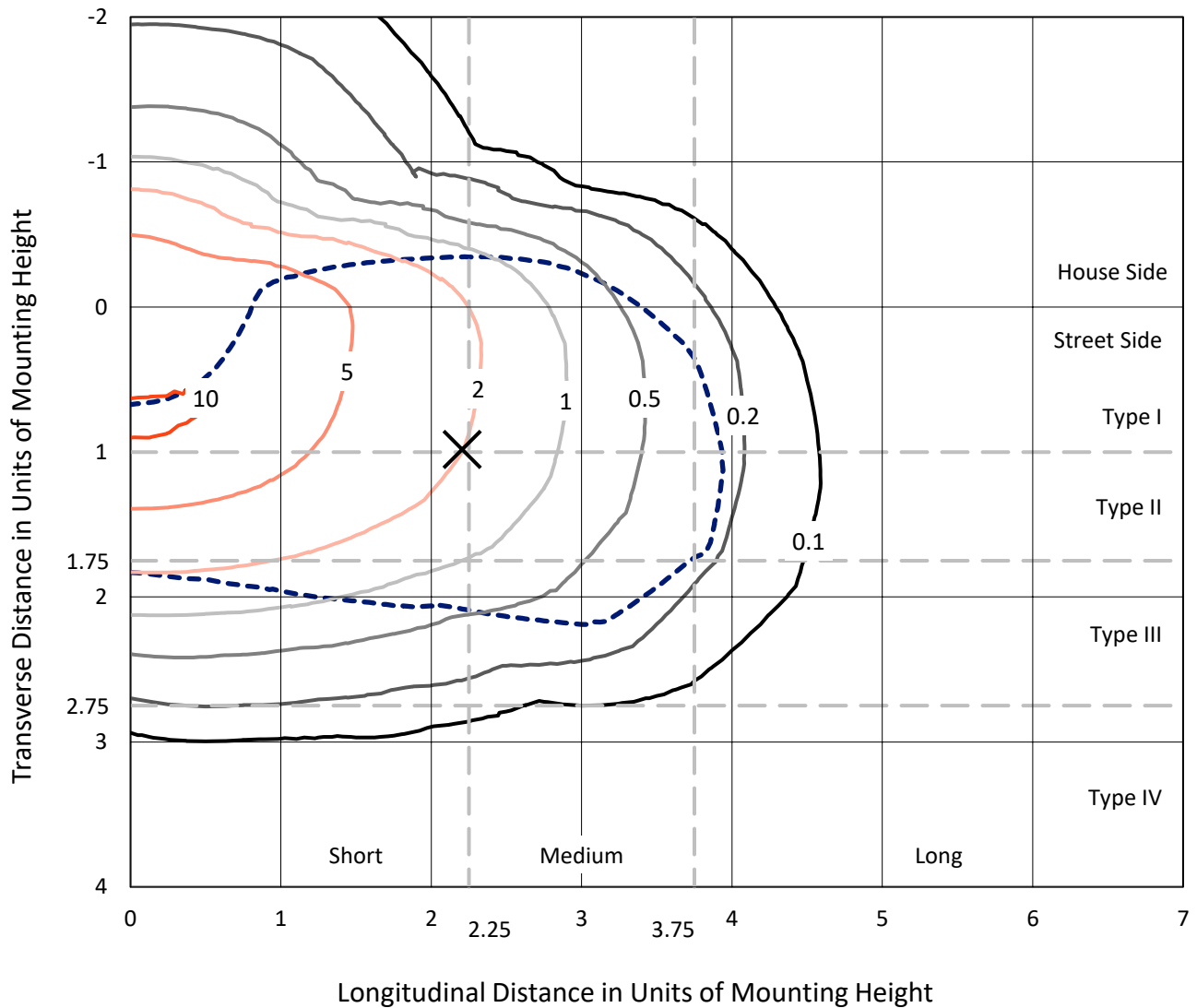
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

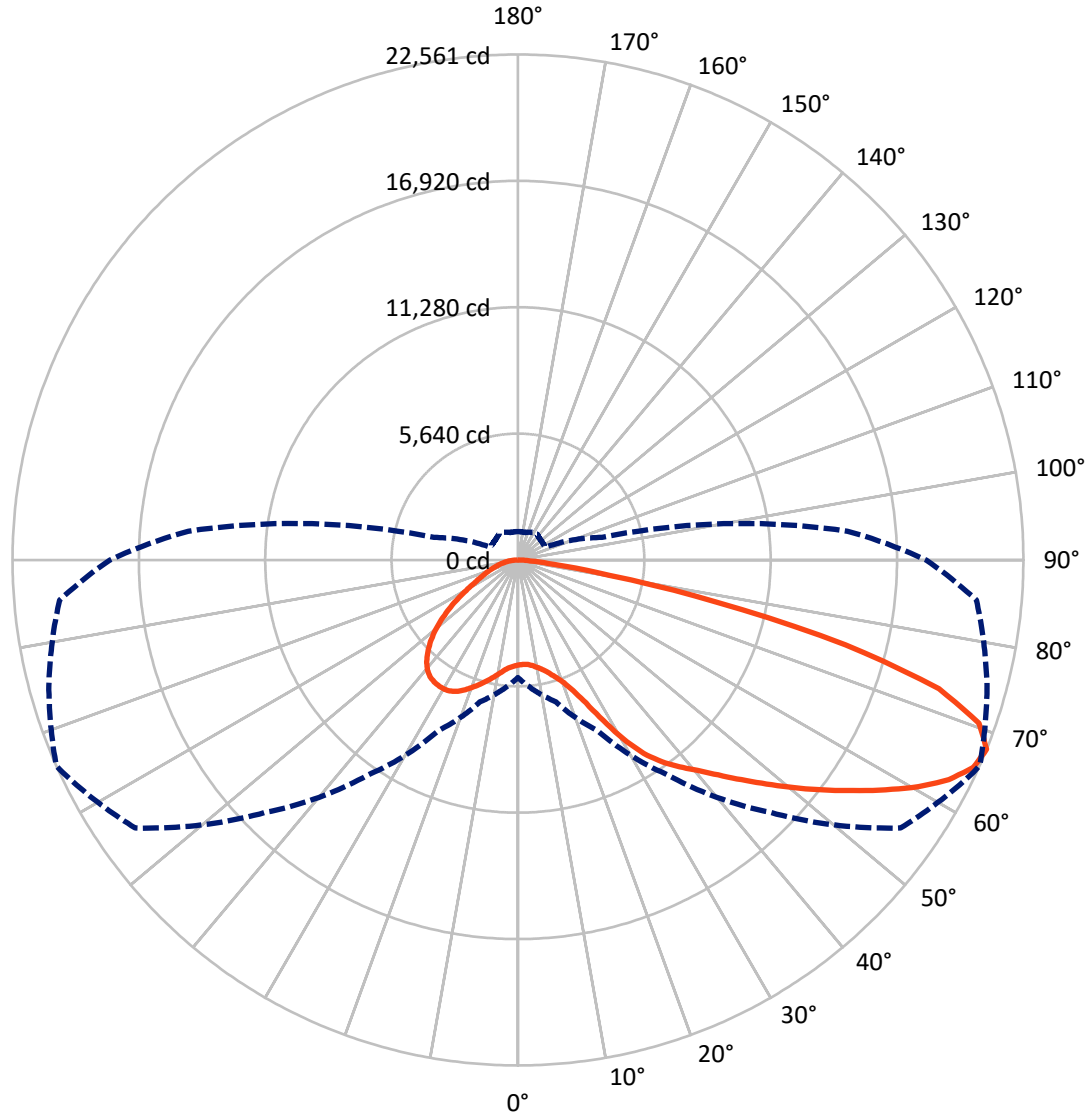
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10508.6	0.0	10508.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	31754.4	0.0	31754.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	42263.0	0.0	42263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	1.1
10°-20°	1535.5	3.6
20°-30°	2959.5	7.0
30°-40°	5189.2	12.3
40°-50°	7714.6	18.3
50°-60°	9779.0	23.1
60°-70°	9568.5	22.6
70°-80°	4564.3	10.8
80°-90°	487.8	1.2
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°	42263.0	100.0
0°-180°	42263.0	100.0

Coefficient of Utilization



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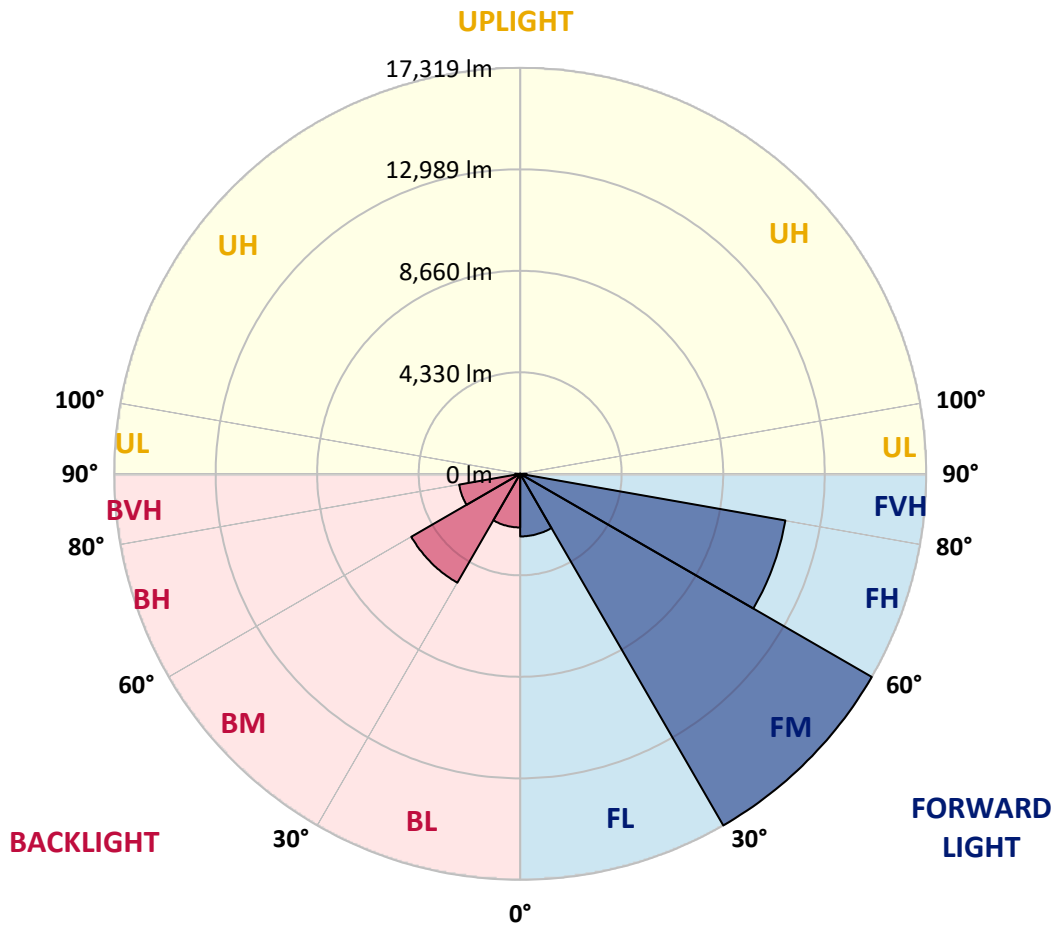
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.6	6.3			
FM (30°-60°)	17319.0	41.0			
FH (60°-80°)	11488.2	27.2			G4/12000
FVH (80°-90°)	276.6	0.7			G3/500
BL (0°-30°)	2289.1	5.4	B3/2500		
BM (30°-60°)	5363.7	12.7	B4/8500		
BH (60°-80°)	2644.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	211.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5
2.5°	4638.7	4665.3	4658.7	4647.6	4645.3	4649.8	4656.4	4663.1	4660.9	4672.0
5°	4625.4	4652.0	4649.8	4649.8	4658.7	4676.4	4687.5	4698.6	4687.5	4700.8
7.5°	4634.2	4654.2	4663.1	4672.0	4694.2	4727.5	4754.1	4778.6	4765.2	4780.8
10°	4747.5	4763.0	4771.9	4771.9	4787.4	4825.2	4851.8	4896.3	4885.2	4909.6
12.5°	4954.0	4969.5	4969.5	4960.6	4971.8	4996.2	5005.1	5053.9	5033.9	5073.9
15°	5207.1	5238.2	5213.8	5198.2	5202.7	5227.1	5224.9	5262.6	5242.7	5276.0
17.5°	5486.9	5526.9	5486.9	5484.7	5475.8	5502.5	5504.7	5538.0	5502.5	5526.9
20°	5817.8	5873.3	5840.0	5851.1	5831.1	5842.2	5853.3	5902.2	5846.6	5864.4
22.5°	6284.1	6350.7	6315.2	6357.4	6344.0	6335.2	6332.9	6419.5	6332.9	6339.6
25°	6963.6	7043.5	6981.3	7039.1	7039.1	7067.9	7101.2	7212.3	7067.9	7025.7
27.5°	7967.2	8047.2	7925.0	7960.6	7949.5	8020.5	7985.0	8260.3	8104.9	8036.1
30°	9175.2	9317.3	9086.4	9077.5	9066.4	9179.6	9230.7	9412.8	9255.1	9186.3
32.5°	10480.9	10629.6	10354.3	10274.4	10232.2	10301.0	10258.8	10405.4	10296.6	10190.0
35°	11862.0	12008.6	11746.6	11591.1	11422.4	11278.0	11127.0	11164.8	11062.6	10900.6
37.5°	13167.7	13436.4	13158.8	12992.3	12681.4	12399.4	11977.5	11802.1	11706.6	11557.8
40°	14497.8	14651.0	14440.1	14298.0	13960.4	13518.5	12843.5	12472.7	12343.9	12199.6
42.5°	15477.0	15623.6	15510.4	15412.7	15148.4	14635.5	13762.8	13298.7	13112.2	12950.1
45°	16254.2	16363.0	16292.0	16327.5	16214.3	15716.9	14715.4	14184.7	13991.5	13793.9
47.5°	16567.3	16682.8	16796.0	17007.0	17200.2	16833.8	15739.1	15144.0	14939.7	14737.6
50°	16531.8	16649.5	16978.1	17426.7	18026.2	17904.1	16818.2	16165.4	15976.7	15745.7
52.5°	16247.6	16380.8	16802.7	17548.8	18503.6	18705.7	17917.4	17220.2	17042.5	16767.2
55°	15501.5	15581.4	16214.3	17271.2	18616.9	19265.3	18994.4	18343.7	18166.1	17782.0
57.5°	14118.1	14233.6	15155.1	16522.9	18332.6	19645.0	19940.3	19525.1	19354.1	18801.2
60°	12312.8	12497.1	13551.9	15266.1	17608.8	19642.8	20799.6	20686.4	20544.3	19804.8
62.5°	10269.9	10483.1	11497.9	13489.7	16343.1	19085.4	21337.0	21659.0	21585.7	20730.8
65°	7887.3	8033.9	9044.2	11191.4	14373.4	17888.5	21399.2	22322.9	22336.2	21434.7
67.5°	5251.5	5673.4	6550.5	8398.0	11735.5	15932.3	20852.9	22431.7	22560.5	21676.8
70°	2562.5	3117.6	3977.0	5458.0	8398.0	12932.3	19425.1	21539.1	21825.5	20970.6
72.5°	1063.6	1243.5	1712.0	2693.5	4820.8	8726.7	16556.2	19118.7	19649.4	18581.3
75°	717.2	777.2	979.3	1381.2	2196.1	4303.4	11939.8	14255.8	15110.7	14033.7
77.5°	552.9	590.7	712.8	965.9	1305.7	1627.6	6390.7	8591.2	9033.1	8362.5
80°	435.2	464.1	532.9	703.9	926.0	870.4	2178.3	3892.6	4147.9	3479.6
82.5°	377.5	388.6	381.9	477.4	615.1	508.5	715.0	1436.7	1585.5	1150.2
85°	273.1	304.2	317.5	295.3	326.4	257.6	293.1	508.5	559.6	499.6
87.5°	111.0	164.3	202.1	191.0	119.9	73.3	91.0	148.8	171.0	186.5
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°
4687.5	0°	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5	4687.5
4689.7	2.5°	4692.0	4707.5	4718.6	4731.9	4740.8	4754.1	4780.8	4796.3	4798.6	4809.7
4725.3	5°	4734.2	4756.4	4780.8	4816.3	4856.3	4889.6	4940.7	4976.2	4989.5	5000.6
4811.9	7.5°	4825.2	4856.3	4900.7	4962.9	5020.6	5065.0	5127.2	5169.4	5211.6	5227.1
4949.5	10°	4960.6	5005.1	5069.5	5153.8	5216.0	5273.7	5338.1	5373.7	5415.9	5433.6
5113.9	12.5°	5129.4	5176.0	5260.4	5378.1	5435.8	5475.8	5498.0	5489.1	5498.0	5513.6
5311.5	15°	5322.6	5373.7	5469.1	5595.7	5635.7	5600.2	5551.3	5506.9	5500.2	5504.7
5551.3	17.5°	5551.3	5589.1	5700.1	5806.7	5777.8	5631.2	5524.7	5453.6	5418.1	5407.0
5857.7	20°	5871.1	5871.1	5962.1	6028.7	5835.5	5586.8	5420.3	5304.8	5231.6	5200.5
6275.2	22.5°	6259.7	6224.1	6281.9	6235.2	5824.4	5462.5	5231.6	5031.7	4920.7	4876.3
6859.2	25°	6752.6	6710.4	6694.9	6406.2	5744.5	5264.9	4889.6	4647.6	4549.9	4525.4
7700.8	27.5°	7496.5	7389.9	7187.8	6499.5	5597.9	4954.0	4489.9	4265.6	4210.1	4212.3
8782.2	30°	8486.8	8273.7	7778.5	6515.0	5358.1	4514.3	4081.3	3921.4	3894.8	3905.9
9690.4	32.5°	9403.9	9201.8	8382.5	6444.0	4989.5	4083.5	3714.9	3608.4	3568.4	3581.7
10383.2	35°	10123.4	10067.9	8942.0	6344.0	4536.5	3679.4	3386.3	3295.3	3217.5	3199.8
11036.0	37.5°	10802.8	10780.6	9361.7	6204.1	4088.0	3393.0	3122.1	3002.1	2888.9	2826.7
11757.7	40°	11548.9	11526.7	9637.1	5988.8	3690.5	3144.3	2884.5	2726.8	2586.9	2473.7
12574.8	42.5°	12388.3	12257.3	9768.1	5680.1	3353.0	2933.3	2691.3	2478.1	2293.8	2189.4
13498.6	45°	13305.4	13010.0	9765.9	5287.1	3068.8	2740.1	2484.8	2182.8	2011.8	1914.1
14446.7	47.5°	14278.0	13729.5	9646.0	4851.8	2793.4	2527.0	2165.0	1934.1	1820.8	1760.9
15477.0	50°	15281.6	14402.3	9441.7	4352.2	2511.4	2284.9	1965.2	1807.5	1720.9	1665.4
16498.5	52.5°	16225.4	15013.0	9195.2	3786.0	2225.0	2049.5	1876.3	1754.2	1663.2	1601.0
17488.8	55°	17102.5	15539.2	8846.6	3206.4	1991.8	1891.9	1834.2	1732.0	1627.6	1554.4
18494.7	57.5°	17881.9	15881.2	8244.8	2662.4	1825.3	1783.1	1789.7	1694.3	1574.4	1512.2
19485.1	60°	18530.3	16132.1	7354.4	2158.3	1689.8	1676.5	1720.9	1623.2	1483.3	1412.3
20322.2	62.5°	18918.9	16127.7	6261.9	1767.5	1574.4	1578.8	1629.9	1534.4	1392.3	1325.7
20759.7	65°	18885.6	15732.4	5062.8	1512.2	1463.3	1467.8	1534.4	1436.7	1316.8	1276.8
20539.8	67.5°	18217.2	14768.7	3883.7	1345.6	1341.2	1361.2	1438.9	1370.1	1270.1	1265.7
19229.7	70°	16407.4	12768.0	2797.9	1212.4	1214.6	1243.5	1345.6	1327.9	1245.7	1254.6
16167.6	72.5°	13156.6	9734.8	1878.6	1072.5	1074.7	1121.4	1256.8	1294.6	1221.3	1339.0
11471.2	75°	8762.2	6070.9	1208.0	923.7	926.0	985.9	1179.1	1230.2	1154.7	1334.5
5968.8	77.5°	4210.1	2729.0	874.9	777.2	777.2	832.7	1019.2	1101.4	983.7	1037.0
1918.5	80°	1454.4	1025.9	688.4	626.2	612.9	650.6	859.3	954.8	848.2	781.6
626.2	82.5°	572.9	532.9	552.9	486.3	441.9	466.3	668.4	788.3	624.0	564.0
353.1	85°	328.6	346.4	390.8	322.0	255.4	286.4	490.7	566.2	470.8	415.2
115.5	87.5°	88.8	122.1	179.9	166.5	115.5	122.1	233.2	313.1	270.9	208.7
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>
4687.5
4807.4
4998.4
5229.3
5442.5
5518.0
5520.2
5422.5
5193.8
4869.6
4529.9
4219.0
3943.6
3599.5
3213.1
2828.9
2484.8
2196.1
1909.7
1747.6
1645.4
1574.4
1525.5
1472.2
1381.2
1305.7
1274.6
1272.4
1252.4
1356.7
1345.6
950.4
732.8
561.8
424.1
215.4
0.0

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