

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: P943759

Luminaire Tested: **GALN-SB8B-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943759
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-SB8B-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43047 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

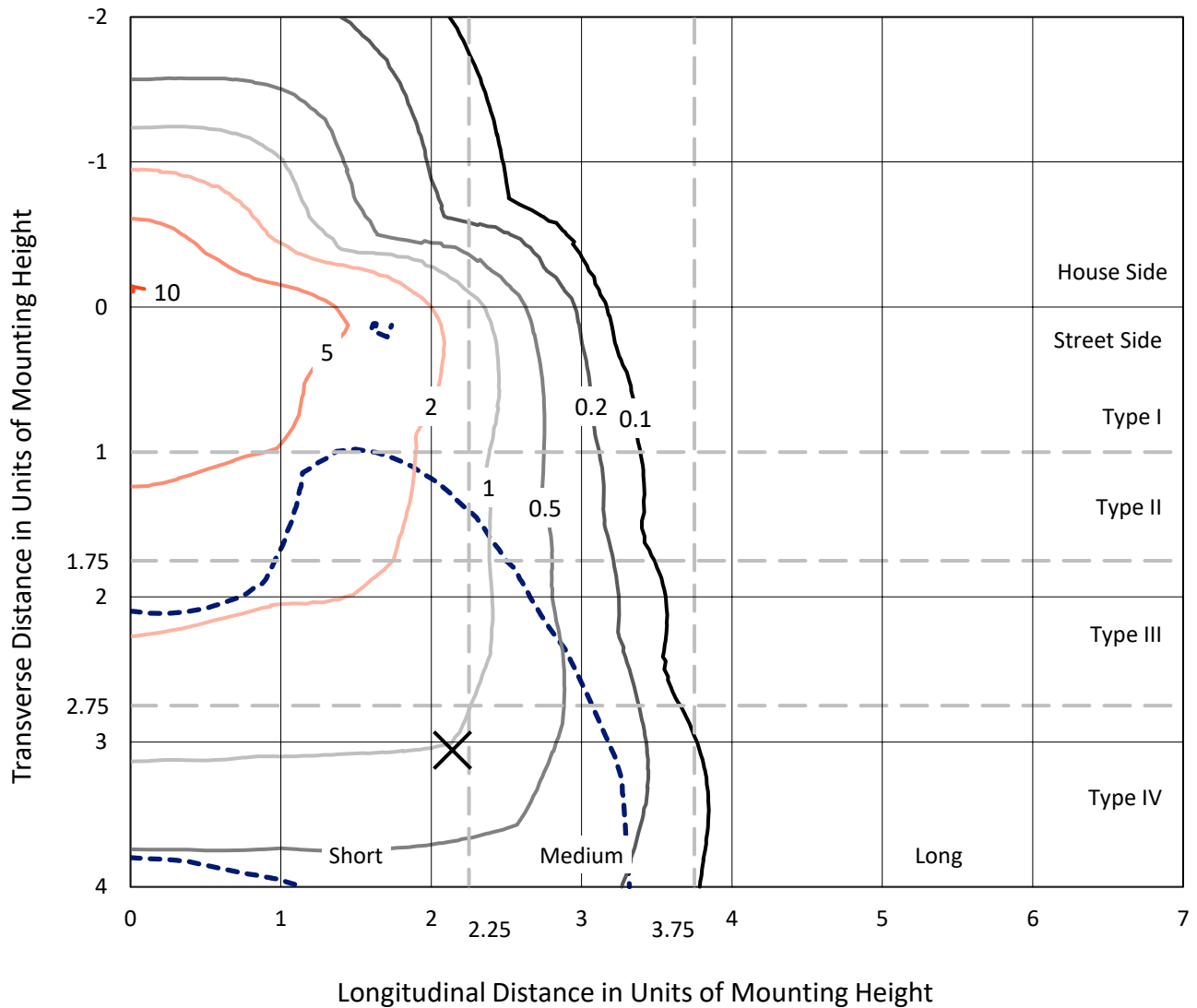
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

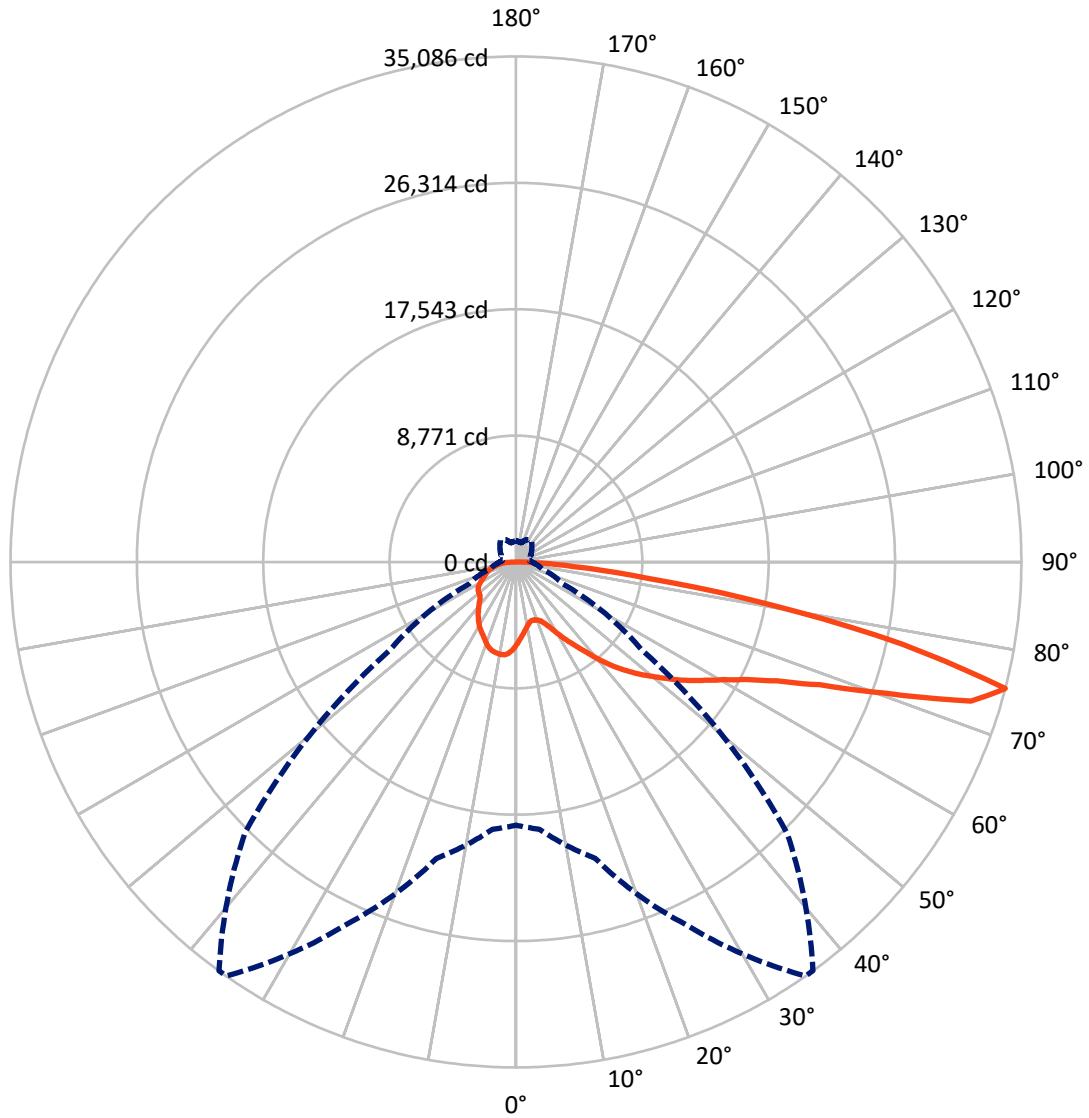
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	10244.1	0.0	10244.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	32802.9	0.0	32802.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	43047.0	0.0	43047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.1	1.3
10°-20°	1566.6	3.6
20°-30°	2630.7	6.1
30°-40°	4088.5	9.5
40°-50°	6068.4	14.1
50°-60°	8377.7	19.5
60°-70°	10164.1	23.6
70°-80°	8399.8	19.5
80°-90°	1208.2	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°	43047.0	100.0
0°-180°	43047.0	100.0

Coefficient of Utilization



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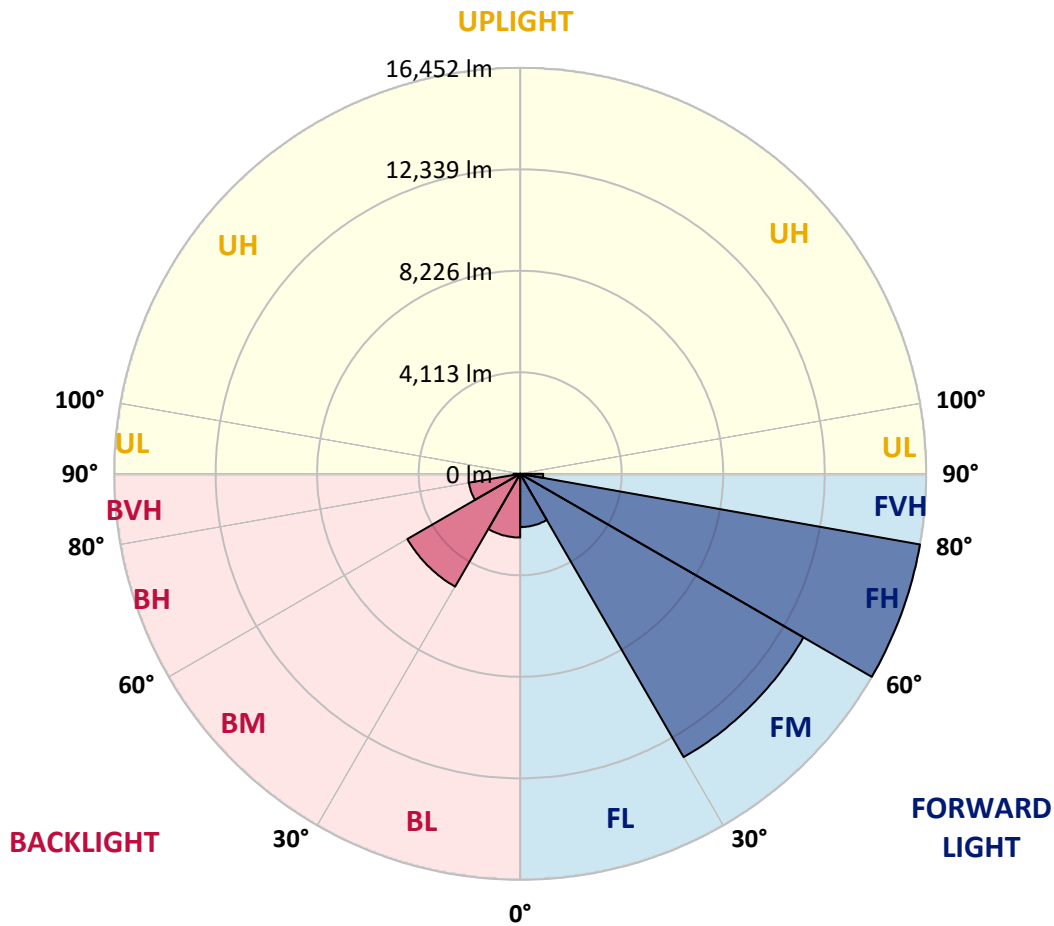
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2158.7	5.0			
FM (30°-60°)	13256.1	30.8			
FH (60°-80°)	16451.9	38.2			G5
FVH (80°-90°)	936.1	2.2			G5
BL (0°-30°)	2581.7	6.0	B4/5000		
BM (30°-60°)	5278.4	12.3	B4/8500		
BH (60°-80°)	2112.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	272.0	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3
2.5°	5289.5	5322.1	5336.0	5329.1	5364.0	5359.3	5408.2	5468.7	5552.5	5633.9
5°	4882.3	4917.2	4947.4	4975.3	5042.8	5063.8	5140.6	5256.9	5410.5	5566.4
7.5°	4502.9	4533.2	4579.7	4630.9	4745.0	4765.9	4893.9	5075.4	5289.5	5517.6
10°	4193.4	4223.7	4272.6	4330.7	4472.7	4498.3	4661.2	4903.2	5182.5	5471.0
12.5°	4060.8	4070.1	4098.0	4156.2	4279.5	4295.8	4475.0	4751.9	5077.7	5436.1
15°	4053.8	4072.4	4074.8	4105.0	4207.4	4214.4	4379.6	4654.2	5012.6	5429.1
17.5°	4123.6	4137.6	4116.6	4135.3	4221.4	4233.0	4363.3	4607.7	4991.6	5459.4
20°	4309.8	4321.4	4258.6	4233.0	4295.8	4305.1	4433.1	4637.9	5012.6	5522.2
22.5°	4705.4	4712.4	4558.8	4454.1	4458.7	4463.4	4575.1	4761.2	5094.0	5636.2
25°	5322.1	5317.4	5073.1	4870.6	4754.3	4728.7	4803.1	4961.4	5231.3	5787.5
27.5°	6043.5	6008.6	5764.2	5461.7	5208.1	5170.8	5154.5	5222.0	5426.8	5987.6
30°	6858.0	6825.4	6562.4	6166.8	5815.4	5754.9	5601.3	5566.4	5717.7	6259.9
32.5°	7751.6	7730.6	7416.5	6937.1	6467.0	6397.2	6138.9	6045.8	6164.5	6671.8
35°	8500.9	8482.3	8221.6	7728.3	7153.5	7067.4	6804.4	6699.7	6760.2	7200.1
37.5°	9178.1	9168.8	8945.4	8556.8	7963.3	7858.6	7563.1	7528.2	7516.5	7895.9
40°	9806.4	9783.1	9550.4	9345.6	8905.8	8810.4	8549.8	8519.5	8431.1	8752.2
42.5°	10502.2	10441.7	10104.3	10008.9	9890.2	9811.1	9655.1	9659.8	9464.3	9718.0
45°	11070.0	11035.1	10688.4	10632.5	10760.5	10727.9	10862.9	10897.8	10518.5	10730.3
47.5°	11679.7	11647.1	11353.9	11314.4	11661.1	11670.4	12147.5	12159.1	11547.1	11782.1
50°	12431.4	12384.8	12093.9	12142.8	12531.4	12566.3	13439.0	13359.9	12494.2	12850.3
52.5°	12927.0	12955.0	12892.1	12971.3	13501.8	13534.4	14709.6	14507.1	13432.0	13904.4
55°	13292.4	13348.3	13543.7	13725.2	14525.8	14558.3	15908.1	15598.6	14209.3	14881.8
57.5°	13762.5	13683.4	14048.7	14402.4	15498.5	15584.6	17073.9	16650.4	14898.1	15724.2
60°	14437.3	14381.5	14665.4	15189.0	16587.6	16724.9	18307.3	17597.5	15403.1	16392.1
62.5°	15805.7	15666.0	15710.3	16173.4	17960.6	18142.1	19698.9	18423.7	15654.4	16652.7
65°	17851.2	17611.5	17388.1	17709.2	19894.4	20073.6	21269.7	19072.9	15561.3	16147.8
67.5°	20427.3	20189.9	19915.3	20217.9	22742.8	22884.7	23208.2	19438.3	14828.3	14202.3
70°	22551.9	22463.5	22791.6	24036.6	27292.2	27296.9	25693.5	19135.8	12820.0	10069.4
72.5°	22270.4	22216.8	23945.9	27794.9	33026.2	32902.9	28046.2	16845.9	8635.9	4542.5
75°	18270.1	18616.8	21295.3	27727.4	35085.7	35069.4	26605.7	10709.3	3572.1	1882.6
77.5°	9797.1	10346.3	13825.3	20471.5	27390.0	27801.9	18705.2	3746.6	1533.6	1205.4
80°	3195.1	3674.5	5510.6	10423.1	17797.7	17720.9	8016.9	1470.7	1049.5	854.0
82.5°	1356.7	1412.6	2462.1	4921.8	9133.9	8991.9	2552.8	844.7	737.7	584.1
85°	530.6	593.4	1086.8	2275.9	3956.1	3870.0	921.5	418.9	472.4	381.6
87.5°	174.5	211.8	388.6	779.6	1231.0	1186.8	225.7	144.3	204.8	174.5
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°
5736.3	0°	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3	5736.3
5752.6	2.5°	5785.2	5822.4	5866.6	5931.8	5987.6	6034.2	6083.0	6113.3	6124.9	6159.8
5761.9	5°	5827.1	5908.5	6017.9	6124.9	6229.6	6292.5	6348.3	6376.3	6401.9	6420.5
5787.5	7.5°	5896.9	6001.6	6173.8	6313.4	6401.9	6453.1	6490.3	6481.0	6490.3	6494.9
5815.4	10°	5957.4	6104.0	6308.8	6441.4	6508.9	6511.2	6501.9	6469.3	6453.1	6455.4
5857.3	12.5°	6029.5	6192.4	6413.5	6525.2	6543.8	6492.6	6453.1	6397.2	6376.3	6366.9
5920.1	15°	6127.3	6313.4	6527.5	6569.4	6522.9	6457.7	6390.2	6299.5	6252.9	6215.7
6027.2	17.5°	6245.9	6450.7	6615.9	6585.7	6485.6	6378.6	6269.2	6131.9	6036.5	5996.9
6173.8	20°	6411.2	6595.0	6683.4	6550.8	6399.5	6236.6	6050.5	5882.9	5794.5	5754.9
6360.0	22.5°	6611.3	6788.2	6748.6	6490.3	6276.2	6015.6	5782.8	5659.5	5615.3	5587.4
6599.7	25°	6851.0	7002.2	6795.1	6401.9	6073.7	5722.3	5543.2	5503.6	5482.6	5461.7
6892.9	27.5°	7162.8	7244.3	6830.0	6271.5	5757.2	5410.5	5345.4	5352.3	5345.4	5310.4
7300.1	30°	7574.7	7558.4	6862.6	6059.8	5394.2	5128.9	5133.6	5163.8	5168.5	5145.2
7867.9	32.5°	8116.9	7951.7	6878.9	5785.2	5047.5	4882.3	4886.9	4919.5	4942.8	4903.2
8610.3	35°	8773.2	8410.1	6853.3	5440.8	4779.9	4647.2	4612.3	4621.6	4628.6	4591.4
9510.9	37.5°	9538.8	8924.4	6739.3	5059.1	4558.8	4416.8	4342.4	4279.5	4242.3	4207.4
10530.1	40°	10378.9	9485.3	6529.8	4686.8	4312.1	4172.5	4060.8	3942.1	3816.4	3769.9
11609.9	42.5°	11258.5	10062.4	6276.2	4330.7	4028.2	3914.2	3795.5	3623.3	3434.8	3339.4
12731.6	45°	12170.7	10653.5	6027.2	3979.3	3737.3	3688.5	3551.2	3344.0	3139.3	3018.2
13855.6	47.5°	13064.3	11212.0	5661.8	3625.6	3465.1	3518.6	3411.5	3220.7	2992.7	2801.8
14970.2	50°	13918.4	11735.6	5063.8	3267.2	3244.0	3467.4	3365.0	3090.4	2829.8	2585.4
16064.0	52.5°	14765.5	12159.1	4298.2	2941.5	3125.3	3453.4	3304.5	3002.0	2683.1	2427.2
17092.6	55°	15484.5	12377.9	3560.5	2662.2	2953.1	3334.7	3232.3	2897.2	2476.0	2203.8
17797.7	57.5°	15894.1	12201.0	2946.1	2387.6	2715.7	3139.3	3109.0	2673.8	2229.4	2019.9
17935.0	60°	15717.2	11484.2	2443.5	2147.9	2490.0	2927.5	2894.9	2452.8	2040.9	1843.1
17199.6	62.5°	14742.2	10118.2	2045.5	1938.5	2285.2	2711.1	2680.8	2282.9	1896.6	1705.8
15247.2	65°	12778.1	8231.0	1736.0	1763.9	2078.1	2450.4	2494.7	2140.9	1782.6	1596.4
11796.1	67.5°	9745.9	5962.0	1494.0	1612.7	1875.6	2194.5	2322.4	2038.5	1687.1	1510.3
6825.4	70°	5554.8	3385.9	1289.2	1466.1	1696.5	1957.1	2189.8	1957.1	1584.8	1438.1
2557.5	72.5°	2106.0	1554.5	1114.7	1319.5	1524.3	1757.0	2043.2	1829.1	1466.1	1356.7
1321.8	75°	1124.0	947.1	937.8	1147.3	1326.4	1561.5	1859.4	1703.4	1377.6	1433.5
914.6	77.5°	765.6	670.2	784.2	982.0	1110.0	1345.1	1663.9	1512.6	1193.8	1189.1
633.0	80°	530.6	474.7	637.6	791.2	858.7	1131.0	1452.1	1298.5	972.7	907.6
391.0	82.5°	318.8	309.5	477.1	591.1	607.4	872.7	1203.1	1089.1	795.9	693.5
232.7	85°	174.5	183.8	304.9	346.7	353.7	609.7	942.5	842.4	612.0	514.3
83.8	87.5°	48.9	62.8	111.7	137.3	169.9	316.5	560.8	500.3	307.2	214.1
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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180°
5736.3
6157.5
6425.1
6501.9
6460.0
6362.3
6227.3
5999.3
5750.3
5592.0
5461.7
5317.4
5156.9
4921.8
4617.0
4230.7
3790.8
3351.0
3008.9
2780.9
2564.5
2399.2
2180.5
1992.0
1815.1
1675.5
1566.1
1482.4
1419.5
1338.1
1480.0
1096.1
868.0
698.1
518.9
214.1
0.0

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