

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: P944107

Luminaire Tested: **GALN-SB8D-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944107
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-SB8D-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50120 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

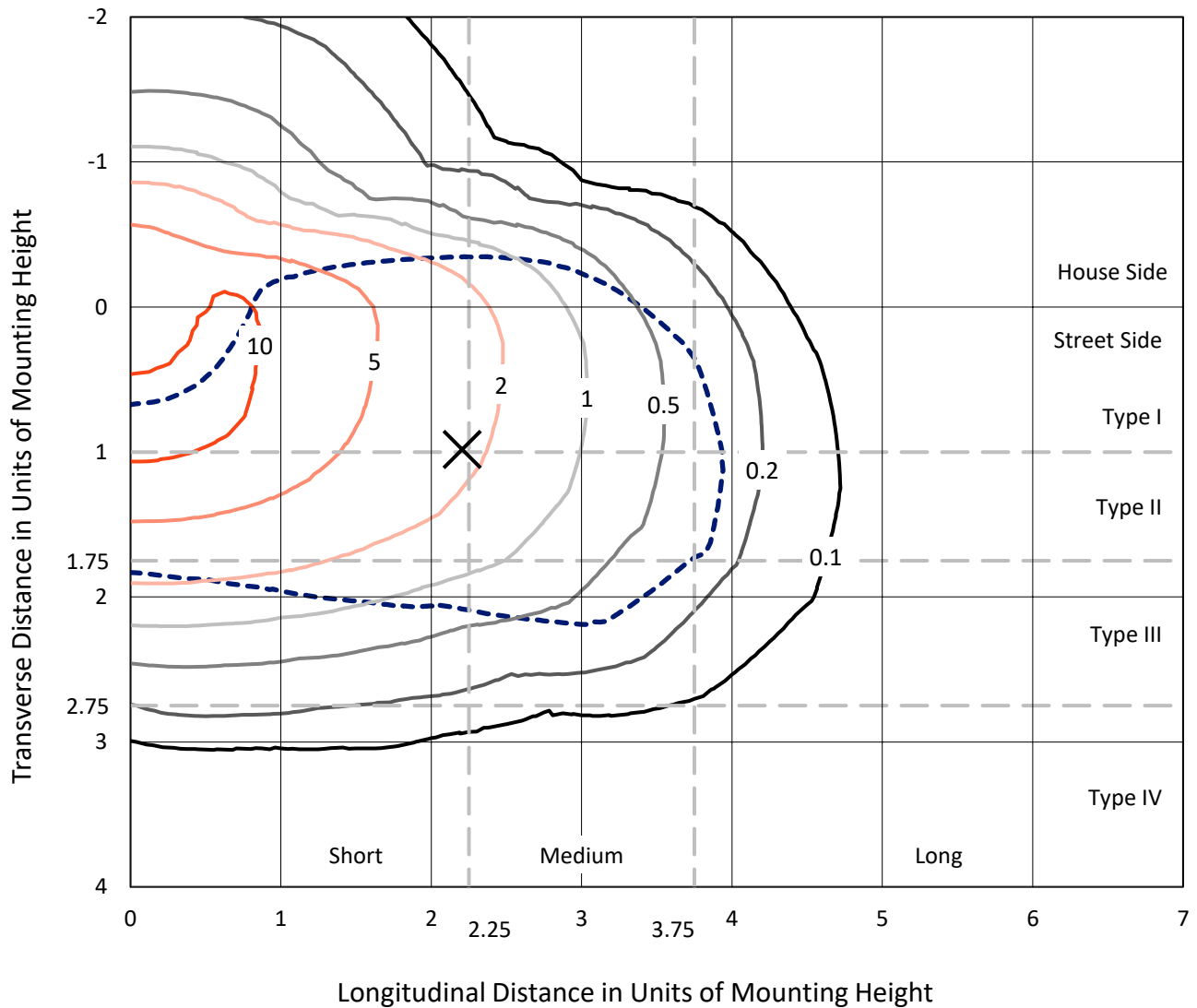
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

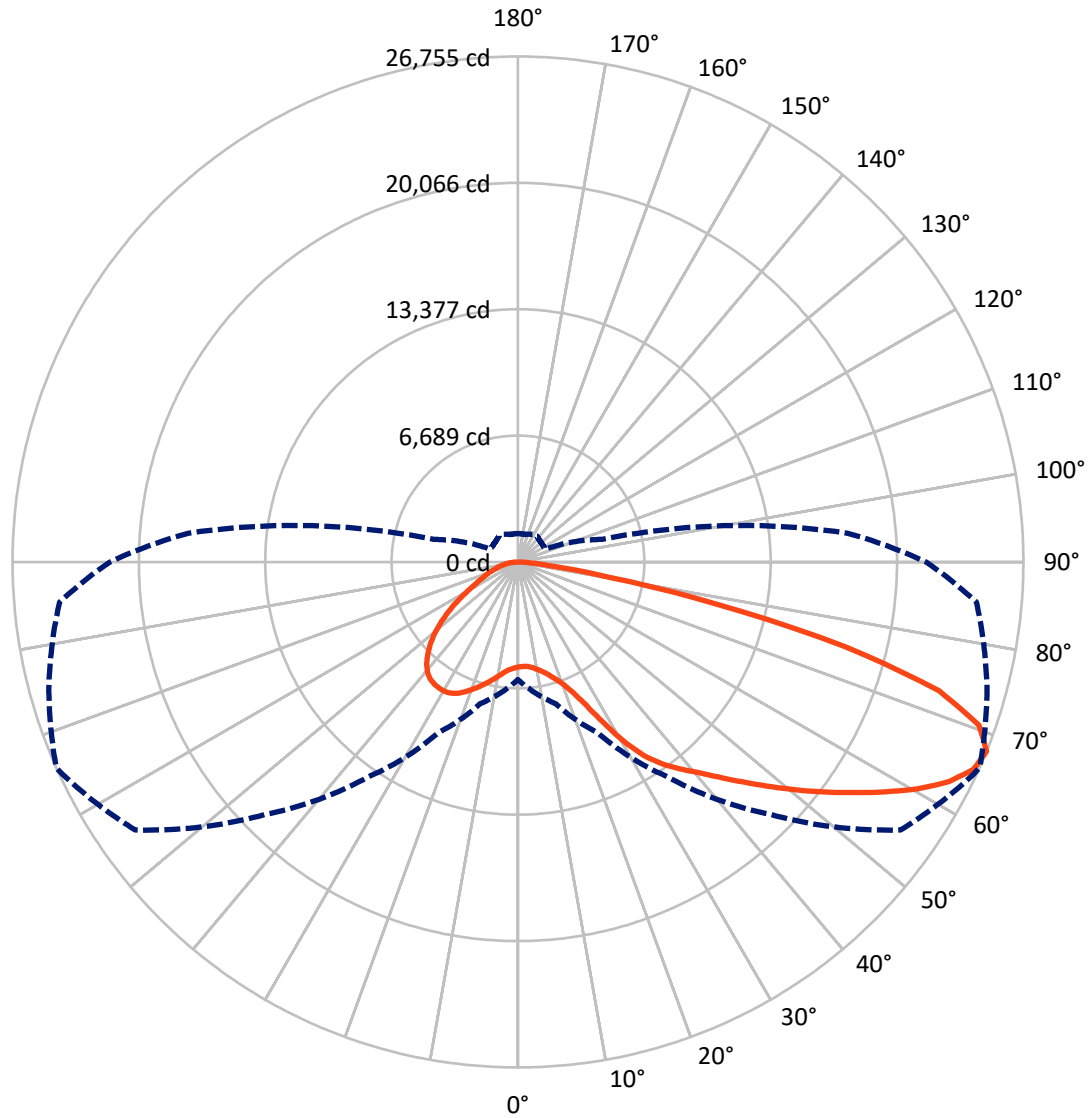
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	12462.2	0.0	12462.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	37657.8	0.0	37657.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	50120.0	0.0	50120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.1	1.1
10°-20°	1820.9	3.6
20°-30°	3509.7	7.0
30°-40°	6153.9	12.3
40°-50°	9148.8	18.3
50°-60°	11597.0	23.1
60°-70°	11347.3	22.6
70°-80°	5412.8	10.8
80°-90°	578.5	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°	50120.0	100.0
0°-180°	50120.0	100.0

Coefficient of Utilization



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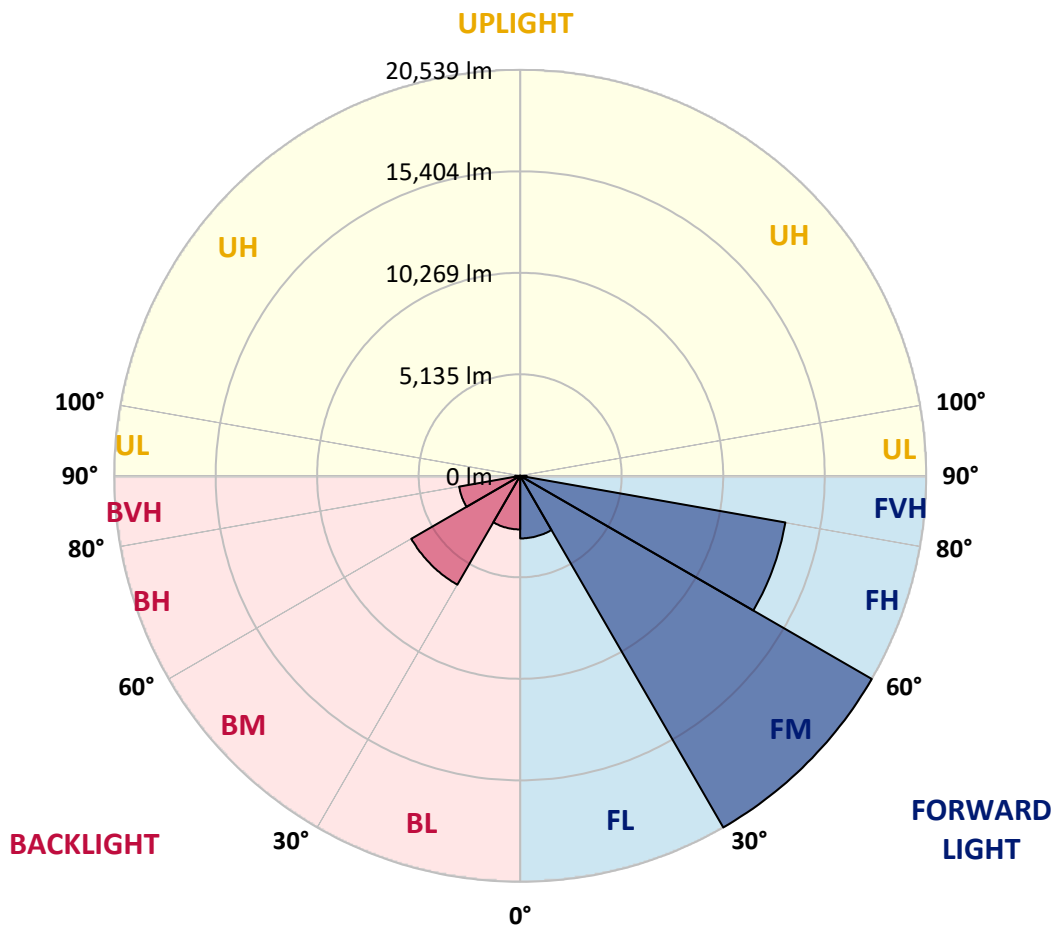
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3167.1	6.3			
FM (30°-60°)	20538.7	41.0			
FH (60°-80°)	13624.0	27.2			G5
FVH (80°-90°)	328.0	0.7			G3/500
BL (0°-30°)	2714.7	5.4	B4/5000		
BM (30°-60°)	6360.8	12.7	B4/8500		
BH (60°-80°)	3136.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	250.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0
2.5°	5501.0	5532.6	5524.7	5511.6	5508.9	5514.2	5522.1	5530.0	5527.4	5540.5
5°	5485.2	5516.8	5514.2	5514.2	5524.7	5545.8	5559.0	5572.1	5559.0	5574.8
7.5°	5495.8	5519.5	5530.0	5540.5	5566.9	5606.4	5638.0	5666.9	5651.1	5669.6
10°	5630.1	5648.5	5659.0	5659.0	5677.5	5722.2	5753.8	5806.5	5793.3	5822.3
12.5°	5875.0	5893.4	5893.4	5882.9	5896.0	5925.0	5935.5	5993.5	5969.8	6017.2
15°	6175.2	6212.0	6183.1	6164.6	6169.9	6198.9	6196.2	6241.0	6217.3	6256.8
17.5°	6507.0	6554.4	6507.0	6504.3	6493.8	6525.4	6528.0	6567.5	6525.4	6554.4
20°	6899.3	6965.2	6925.7	6938.8	6915.1	6928.3	6941.5	6999.4	6933.6	6954.6
22.5°	7452.3	7531.3	7489.2	7539.2	7523.4	7512.9	7510.3	7613.0	7510.3	7518.2
25°	8258.1	8352.9	8279.2	8347.7	8347.7	8381.9	8421.4	8553.1	8381.9	8331.9
27.5°	9448.4	9543.2	9398.4	9440.5	9427.3	9511.6	9469.5	9796.0	9611.7	9530.0
30°	10880.9	11049.5	10775.6	10765.1	10751.9	10886.2	10946.8	11162.7	10975.7	10894.1
32.5°	12429.3	12605.8	12279.2	12184.4	12134.4	12216.0	12166.0	12339.8	12210.8	12084.4
35°	14067.3	14241.1	13930.3	13746.0	13545.9	13374.7	13195.6	13240.4	13119.3	12927.0
37.5°	15615.7	15934.3	15605.1	15407.6	15039.0	14704.5	14204.2	13996.2	13882.9	13706.5
40°	17193.0	17374.7	17124.6	16956.0	16555.8	16031.7	15231.2	14791.4	14638.7	14467.5
42.5°	18354.3	18528.1	18393.8	18278.0	17964.6	17356.3	16321.4	15771.0	15549.8	15357.6
45°	19276.0	19405.0	19320.8	19362.9	19228.6	18638.7	17451.1	16821.7	16592.6	16358.3
47.5°	19647.3	19784.2	19918.5	20168.7	20397.8	19963.3	18665.1	17959.3	17717.1	17477.4
50°	19605.2	19744.7	20134.5	20666.4	21377.4	21232.6	19944.9	19170.7	18946.8	18673.0
52.5°	19268.1	19426.1	19926.4	20811.2	21943.6	22183.2	21248.4	20421.5	20210.8	19884.3
55°	18383.3	18478.1	19228.6	20482.1	22077.9	22846.8	22525.5	21754.0	21543.3	21087.7
57.5°	16742.7	16879.7	17972.5	19594.6	21740.8	23297.1	23647.3	23154.9	22952.1	22296.4
60°	14601.8	14820.4	16071.2	18104.2	20882.3	23294.5	24666.4	24532.1	24363.6	23486.7
62.5°	12179.2	12432.0	13635.4	15997.5	19381.3	22633.5	25303.7	25685.6	25598.7	24584.8
65°	9353.6	9527.4	10725.6	13272.0	17045.6	21214.1	25377.5	26472.9	26488.7	25419.6
67.5°	6227.8	6728.2	7768.3	9959.3	13917.2	18894.2	24729.6	26602.0	26754.7	25706.6
70°	3038.9	3697.2	4716.3	6472.7	9959.3	15336.5	23036.4	25543.4	25883.1	24869.2
72.5°	1261.4	1474.7	2030.3	3194.2	5717.0	10349.0	19634.1	22673.0	23302.4	22035.7
75°	850.6	921.7	1161.3	1637.9	2604.4	5103.4	14159.4	16906.0	17919.8	16642.7
77.5°	655.7	700.5	845.3	1145.5	1548.4	1930.2	7578.7	10188.4	10712.4	9917.1
80°	516.1	550.4	632.0	834.8	1098.1	1032.3	2583.3	4616.2	4919.1	4126.4
82.5°	447.7	460.8	452.9	566.2	729.4	603.0	847.9	1703.8	1880.2	1364.1
85°	323.9	360.8	376.6	350.2	387.1	305.5	347.6	603.0	663.6	592.5
87.5°	131.7	194.9	239.6	226.5	142.2	86.9	108.0	176.4	202.8	221.2
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°
5559.0	0°	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0	5559.0
5561.6	2.5°	5564.2	5582.7	5595.8	5611.6	5622.2	5638.0	5669.6	5688.0	5690.6	5703.8
5603.7	5°	5614.3	5640.6	5669.6	5711.7	5759.1	5798.6	5859.2	5901.3	5917.1	5930.3
5706.4	7.5°	5722.2	5759.1	5811.8	5885.5	5954.0	6006.6	6080.4	6130.4	6180.4	6198.9
5869.7	10°	5882.9	5935.5	6011.9	6112.0	6185.7	6254.2	6330.5	6372.7	6422.7	6443.8
6064.6	12.5°	6083.0	6138.3	6238.4	6377.9	6446.4	6493.8	6520.1	6509.6	6520.1	6538.6
6298.9	15°	6312.1	6372.7	6485.9	6636.0	6683.4	6641.3	6583.3	6530.7	6522.8	6528.0
6583.3	17.5°	6583.3	6628.1	6759.8	6886.2	6851.9	6678.1	6551.7	6467.5	6425.3	6412.2
6946.7	20°	6962.5	6962.5	7070.5	7149.5	6920.4	6625.5	6428.0	6291.0	6204.1	6167.3
7441.8	22.5°	7423.4	7381.2	7449.7	7394.4	6907.2	6478.0	6204.1	5967.1	5835.5	5782.8
8134.4	25°	8008.0	7957.9	7939.5	7597.2	6812.4	6243.6	5798.6	5511.6	5395.7	5366.7
9132.4	27.5°	8890.1	8763.7	8524.1	7707.8	6638.6	5875.0	5324.6	5058.6	4992.8	4995.4
10414.8	30°	10064.6	9811.8	9224.6	7726.2	6354.2	5353.6	4840.1	4650.5	4618.9	4632.0
11491.9	32.5°	11152.2	10912.5	9940.8	7641.9	5917.1	4842.7	4405.6	4279.2	4231.8	4247.6
12313.5	35°	12005.4	11939.5	10604.4	7523.4	5379.9	4363.4	4015.8	3907.9	3815.7	3794.6
13087.7	37.5°	12811.2	12784.8	11102.1	7357.5	4848.0	4023.7	3702.5	3560.3	3426.0	3352.2
13943.5	40°	13696.0	13669.6	11428.7	7102.1	4376.6	3728.8	3420.7	3233.7	3067.8	2933.5
14912.6	42.5°	14691.4	14536.0	11584.0	6736.1	3976.3	3478.6	3191.6	2938.8	2720.2	2596.5
16008.0	45°	15778.9	15428.7	11581.4	6270.0	3639.3	3249.5	2946.7	2588.6	2385.8	2269.9
17132.5	47.5°	16932.3	16281.9	11439.2	5753.8	3312.7	2996.7	2567.5	2293.6	2159.3	2088.2
18354.3	50°	18122.6	17079.8	11196.9	5161.3	2978.3	2709.7	2330.5	2143.5	2040.8	1975.0
19565.7	52.5°	19241.8	17804.0	10904.6	4489.8	2638.6	2430.6	2225.2	2080.3	1972.4	1898.6
20740.1	55°	20281.9	18428.1	10491.2	3802.5	2362.1	2243.6	2175.1	2054.0	1930.2	1843.3
21933.0	57.5°	21206.2	18833.6	9777.6	3157.4	2164.6	2114.6	2122.5	2009.2	1867.0	1793.3
23107.5	60°	21975.2	19131.2	8721.6	2559.6	2004.0	1988.2	2040.8	1925.0	1759.1	1674.8
24100.3	62.5°	22436.0	19125.9	7426.0	2096.1	1867.0	1872.3	1932.9	1819.6	1651.1	1572.1
24619.0	65°	22396.5	18657.2	6004.0	1793.3	1735.4	1740.6	1819.6	1703.8	1561.6	1514.2
24358.3	67.5°	21603.9	17514.3	4605.7	1595.8	1590.5	1614.2	1706.4	1624.8	1506.3	1501.0
22804.7	70°	19457.7	15141.7	3318.0	1437.8	1440.4	1474.7	1595.8	1574.7	1477.3	1487.8
19173.3	72.5°	15602.5	11544.5	2227.8	1271.9	1274.5	1329.8	1490.5	1535.2	1448.3	1587.9
13603.8	75°	10391.1	7199.5	1432.5	1095.5	1098.1	1169.2	1398.3	1458.9	1369.3	1582.6
7078.4	77.5°	4992.8	3236.4	1037.5	921.7	921.7	987.5	1208.7	1306.1	1166.6	1229.8
2275.2	80°	1724.8	1216.6	816.3	742.6	726.8	771.6	1019.1	1132.3	1005.9	926.9
742.6	82.5°	679.4	632.0	655.7	576.7	524.0	553.0	792.6	934.8	740.0	668.9
418.7	85°	389.7	410.8	463.5	381.8	302.8	339.7	582.0	671.5	558.3	492.4
136.9	87.5°	105.3	144.8	213.3	197.5	136.9	144.8	276.5	371.3	321.3	247.5
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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180°
5559.0
5701.2
5927.6
6201.5
6454.3
6543.8
6546.5
6430.6
6159.4
5774.9
5372.0
5003.3
4676.8
4268.6
3810.4
3354.9
2946.7
2604.4
2264.7
2072.4
1951.3
1867.0
1809.1
1745.9
1637.9
1548.4
1511.5
1508.9
1485.2
1609.0
1595.8
1127.1
869.0
666.2
503.0
255.4
0.0

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