

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: P944096

Luminaire Tested: **GALN-SB8D-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61728 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

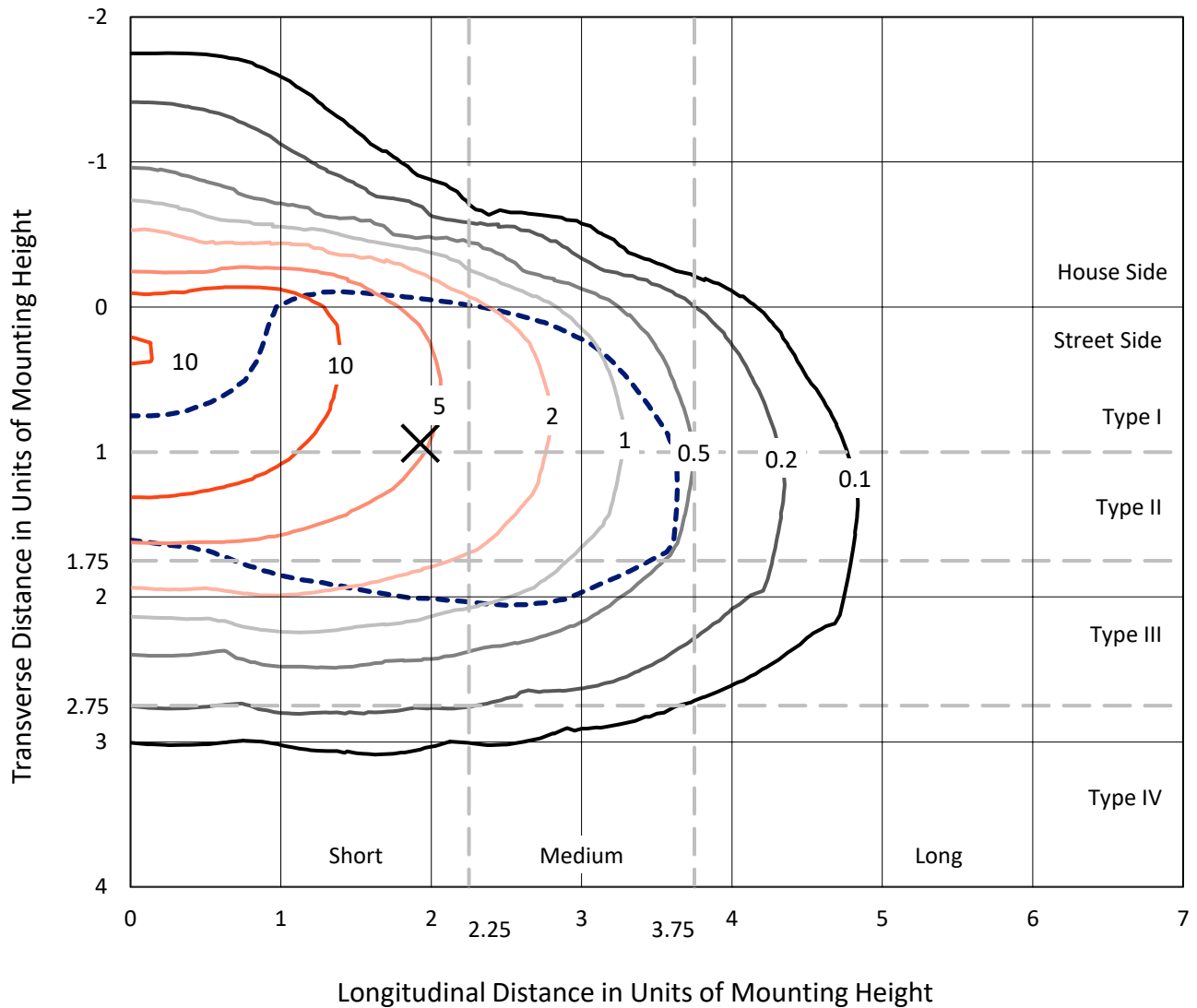
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944096
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Iso-Footcandle Lines of Horizontal Illumination

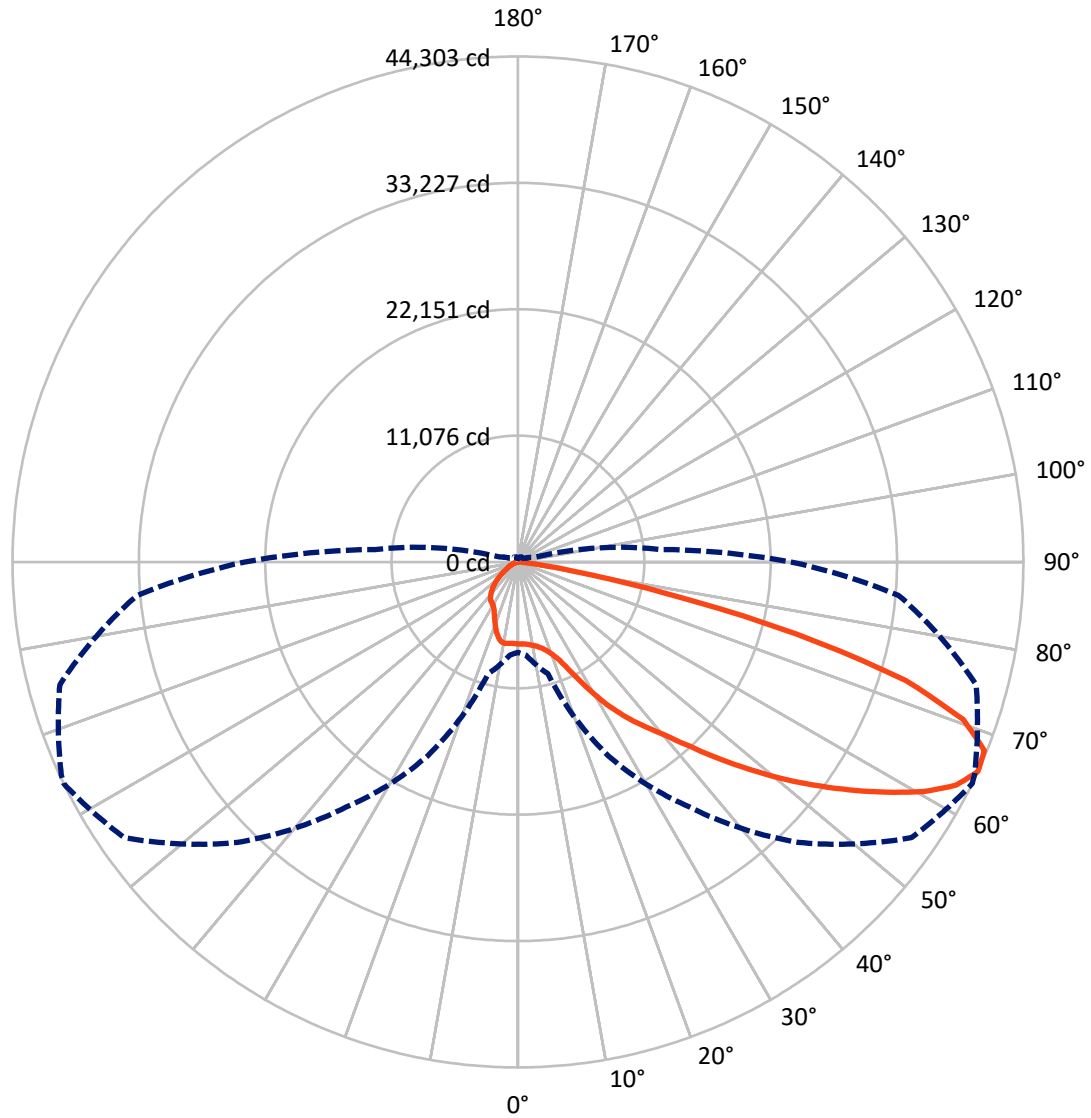
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Short - N/A

REPORT NUMBER: P944096
CATALOG NUMBER: GALN-SB8D-850-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8254.9	0.0	8254.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	53473.1	0.0	53473.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	61728.0	0.0	61728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.4	1.1
10°-20°	1796.6	2.9
20°-30°	3404.4	5.5
30°-40°	6888.9	11.2
40°-50°	11735.3	19.0
50°-60°	15959.1	25.9
60°-70°	14986.4	24.3
70°-80°	6004.2	9.7
80°-90°	290.9	0.5
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°	61728.0	100.0
0°-180°	61728.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944096

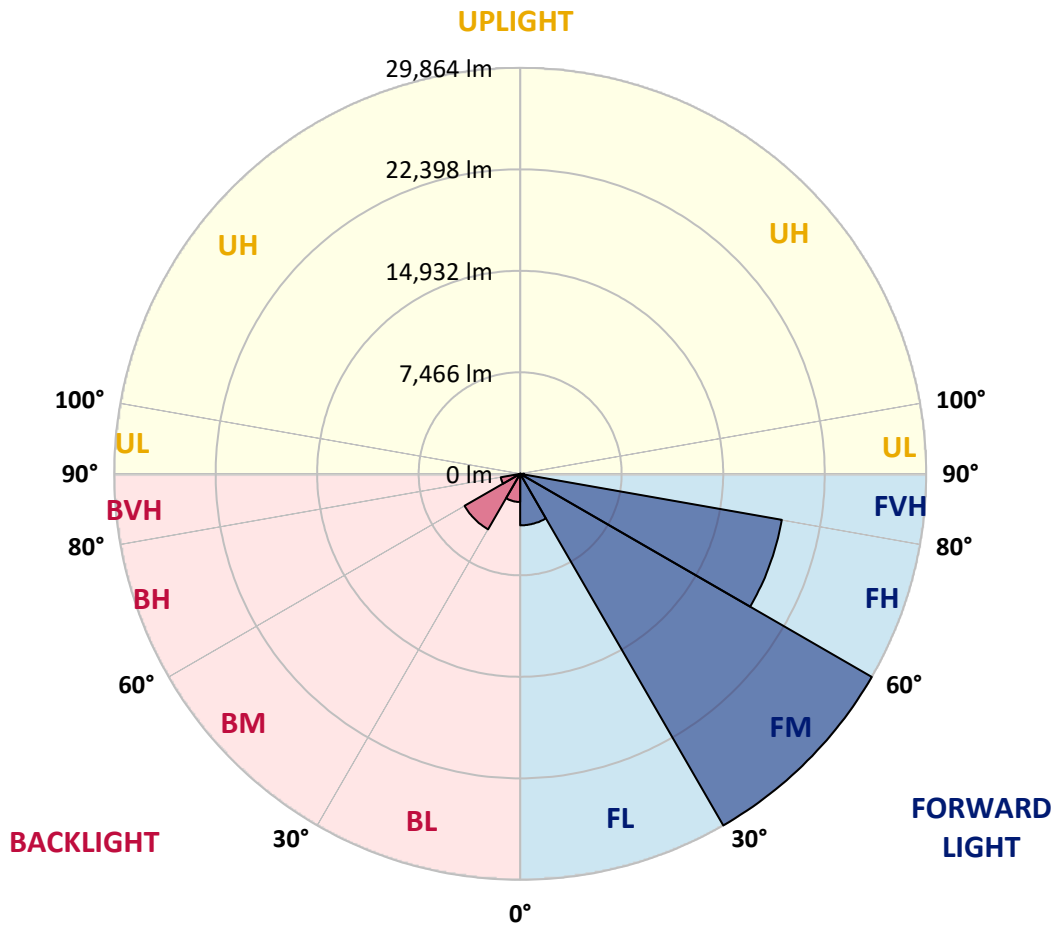
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3790.8	6.1			
FM (30°-60°)	29863.9	48.4			
FH (60°-80°)	19541.7	31.7			G5
FVH (80°-90°)	276.7	0.4			G3/500
BL (0°-30°)	2072.6	3.4	B3/2500		
BM (30°-60°)	4719.3	7.6	B3/5000		
BH (60°-80°)	1448.9	2.3	B3/2500		G3/2500
BVH (80°-90°)	14.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P944096

CATALOG NUMBER: GALN-SB8D-850-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6
2.5°	7154.8	7204.4	7192.0	7179.6	7175.5	7183.7	7187.9	7183.7	7183.7	7183.7
5°	7018.2	7059.6	7059.6	7088.6	7130.0	7179.6	7216.9	7225.1	7233.4	7245.8
7.5°	6757.5	6790.6	6815.5	6910.6	7014.1	7146.5	7258.2	7316.2	7324.4	7370.0
10°	6579.6	6621.0	6662.3	6761.7	6910.6	7109.3	7299.6	7440.3	7461.0	7568.6
12.5°	6571.3	6612.7	6666.5	6774.1	6947.9	7158.9	7390.7	7593.4	7630.7	7787.9
15°	6658.2	6707.9	6757.5	6889.9	7076.2	7332.7	7581.0	7833.4	7870.7	8094.1
17.5°	6836.1	6902.4	6939.6	7072.0	7270.6	7556.2	7883.1	8172.8	8205.9	8466.6
20°	7187.9	7266.5	7278.9	7386.5	7581.0	7887.2	8276.2	8636.2	8677.6	8975.5
22.5°	7916.2	8027.9	7928.6	7982.4	8156.2	8462.4	8884.5	9339.7	9397.6	9737.0
25°	9199.0	9356.2	9099.7	9008.6	9083.1	9401.8	9931.4	10506.6	10572.9	10846.0
27.5°	11719.1	11516.3	11127.4	10746.7	10523.2	10705.3	11301.2	12012.9	12095.7	12360.5
30°	14487.5	14309.6	13784.0	12939.8	12410.2	12381.2	12931.6	13726.1	13821.3	14073.7
32.5°	17260.0	17090.4	16519.3	15480.6	14562.0	14106.8	14487.5	15368.9	15418.6	15580.0
35°	19987.0	19813.2	19242.2	18178.7	17049.0	16014.5	15940.0	16933.1	16949.7	17119.3
37.5°	22730.6	22585.8	21977.5	20934.7	19821.5	18393.9	17702.8	18414.6	18435.2	18600.8
40°	24687.9	24750.0	24332.0	23525.1	22569.2	21009.1	19680.8	19991.2	19867.0	20144.3
42.5°	26368.0	26492.1	26128.0	25722.4	25167.9	23794.1	22130.6	22076.8	21878.1	22027.1
45°	27820.5	27923.9	27597.0	27501.8	27489.4	26525.2	24807.9	24485.2	24207.9	24178.9
47.5°	28354.3	28552.9	28693.6	29012.2	29633.0	29227.4	27576.3	27075.6	26765.2	26537.6
50°	28557.0	28768.1	29248.1	30175.0	31644.1	31817.9	30332.3	29769.5	29388.8	28975.0
52.5°	28283.9	28660.5	29306.0	30866.1	32997.2	33895.2	32976.5	32484.1	32049.6	31375.1
55°	26674.2	27050.8	28370.8	30857.8	33671.7	35351.8	35476.0	35256.6	34768.3	33704.8
57.5°	23281.0	23839.6	25929.3	29806.8	33659.3	36605.7	37925.7	38083.0	37536.7	36013.9
60°	18580.1	19337.4	21886.4	27477.0	32620.7	37284.3	40073.4	40859.6	40280.3	38289.9
62.5°	12964.7	13842.0	16254.5	23827.2	30245.4	36796.0	41641.7	43094.2	42655.6	40325.8
65°	7907.9	8189.3	10134.2	18749.7	26206.6	34751.8	42125.9	44302.5	44157.7	41571.4
67.5°	5267.8	5503.7	6062.3	12857.1	20342.9	30667.5	40967.2	44091.5	44132.9	41368.6
70°	3173.9	3376.7	3740.8	7477.6	13184.0	24274.1	37379.5	41401.7	41641.7	38658.2
72.5°	1307.6	1444.2	1775.2	3389.1	6827.9	15406.2	29765.4	35546.3	36104.9	32504.8
75°	740.7	811.1	1042.8	1700.8	2962.9	7179.6	18029.7	25234.1	26057.6	22403.7
77.5°	492.4	525.5	674.5	1100.7	1667.7	2449.8	7705.1	13146.8	14719.2	12236.4
80°	331.0	360.0	463.5	736.6	1084.2	1051.1	2453.9	4870.5	5992.0	4204.3
82.5°	223.5	227.6	331.0	484.2	686.9	509.0	724.2	1514.5	1903.5	1216.6
85°	128.3	124.1	244.1	281.4	306.2	211.0	219.3	455.2	595.9	513.1
87.5°	16.6	24.8	95.2	74.5	41.4	45.5	45.5	78.6	115.9	124.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944096
 CATALOG NUMBER: GALN-SB8D-850-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7179.6	0°	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6	7179.6
7187.9	2.5°	7187.9	7183.7	7171.3	7158.9	7130.0	7113.4	7121.7	7113.4	7109.3	7113.4
7241.7	5°	7241.7	7229.3	7196.2	7154.8	7096.8	7026.5	6981.0	6914.8	6852.7	6815.5
7386.5	7.5°	7386.5	7374.1	7328.6	7212.7	7026.5	6732.7	6463.7	6227.8	6049.9	5946.5
7618.2	10°	7618.2	7597.6	7527.2	7270.6	6782.3	6140.9	5607.1	5164.4	4874.7	4738.1
7891.4	12.5°	7891.4	7866.5	7742.4	7216.9	6318.9	5317.5	4580.9	4088.4	3819.5	3699.5
8205.9	15°	8214.1	8181.0	7936.9	6960.3	5644.4	4407.1	3732.6	3364.3	3190.5	3082.9
8607.3	17.5°	8615.5	8557.6	8081.7	6575.4	4911.9	3711.9	3211.2	2933.9	2780.8	2677.4
9132.8	20°	9136.9	9041.8	8197.6	6116.1	4237.4	3273.2	2859.4	2627.7	2511.8	2420.8
9877.7	22.5°	9865.2	9728.7	8338.3	5619.5	3761.5	2971.2	2598.7	2429.1	2333.9	2230.4
10916.3	25°	10767.3	10606.0	8512.1	5160.2	3434.6	2710.5	2408.4	2267.7	2156.0	2035.9
12277.7	27.5°	12029.5	11739.8	8719.0	4783.6	3153.2	2487.0	2234.6	2077.3	1949.0	1849.7
13821.3	30°	13436.4	12960.5	8901.1	4556.1	2896.7	2280.1	2007.0	1849.7	1729.7	1659.4
15207.5	32.5°	14768.9	14123.3	9021.1	4456.7	2664.9	2044.2	1758.7	1589.0	1498.0	1477.3
16564.8	35°	16026.9	15174.4	9008.6	4361.6	2458.0	1808.4	1514.5	1340.7	1270.4	1282.8
18025.6	37.5°	17475.2	16295.8	8921.7	4212.6	2288.4	1593.2	1303.5	1150.4	1088.3	1092.5
19800.8	40°	19159.4	17591.1	8868.0	3931.2	2102.2	1394.5	1129.7	1005.6	960.0	943.5
21671.2	42.5°	20955.3	18844.9	8876.2	3612.6	1870.4	1216.6	1009.7	906.2	864.9	852.4
23752.7	45°	22759.6	20040.8	8888.6	3281.5	1626.3	1080.0	922.8	835.9	811.1	794.5
25863.1	47.5°	24456.2	21058.8	8656.9	2925.6	1386.3	976.6	852.4	794.5	773.8	753.1
27981.8	50°	26036.9	21737.5	8098.3	2511.8	1195.9	893.8	798.7	757.3	736.6	715.9
29901.9	52.5°	27266.0	21845.0	7175.5	2085.6	1063.5	831.8	765.5	728.3	703.5	682.8
31453.7	55°	27812.2	21170.5	5863.7	1688.3	960.0	778.0	732.4	695.2	666.2	645.5
32674.5	57.5°	27671.5	19751.2	4572.6	1357.3	860.7	724.2	691.1	666.2	633.1	600.0
33663.5	60°	26980.4	17851.8	3447.0	1129.7	769.7	666.2	645.5	624.9	579.3	529.7
34044.2	62.5°	25784.5	15464.1	2458.0	935.2	670.4	600.0	591.7	575.2	509.0	417.9
33481.4	65°	23955.5	12563.3	1655.2	778.0	575.2	525.5	529.7	500.7	413.8	310.4
31420.6	67.5°	21282.3	9186.6	1059.4	637.3	480.0	438.6	442.8	426.2	351.7	264.8
27514.2	70°	17876.6	6083.0	691.1	484.2	384.8	339.3	364.2	368.3	297.9	215.2
21116.7	72.5°	13105.4	3591.9	484.2	360.0	281.4	235.9	297.9	306.2	240.0	161.4
12704.0	75°	7469.3	1704.9	364.2	260.7	173.8	165.5	231.7	231.7	165.5	107.6
5499.5	77.5°	3136.7	711.8	256.6	169.7	99.3	95.2	157.2	144.8	82.8	49.7
1340.7	80°	906.2	318.6	136.6	82.8	41.4	37.2	62.1	45.5	20.7	8.3
509.0	82.5°	355.9	140.7	53.8	33.1	16.6	16.6	8.3	0.0	0.0	0.0
289.7	85°	211.0	57.9	24.8	12.4	4.1	0.0	0.0	0.0	0.0	0.0
62.1	87.5°	53.8	12.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
7179.6
7130.0
6823.7
5950.6
4725.7
3687.0
3087.0
2669.1
2404.2
2213.9
2023.5
1829.0
1647.0
1489.7
1282.8
1109.0
939.3
848.3
794.5
753.1
715.9
678.6
641.4
595.9
521.4
409.7
302.1
252.4
206.9
153.1
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