

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: P942824

Luminaire Tested: **GALN-SB7A-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23295 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

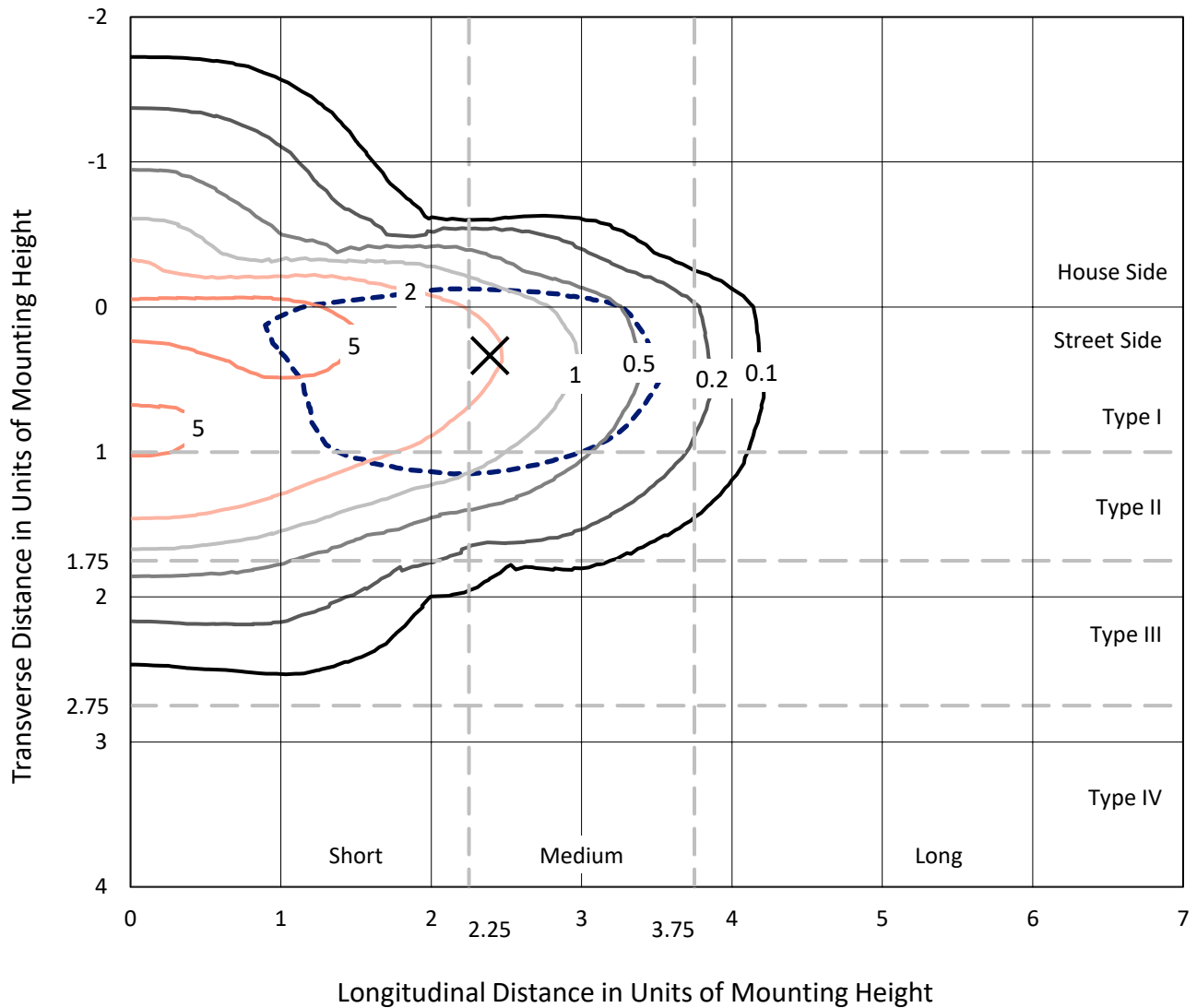
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942824
 CATALOG NUMBER: GALN-SB7A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

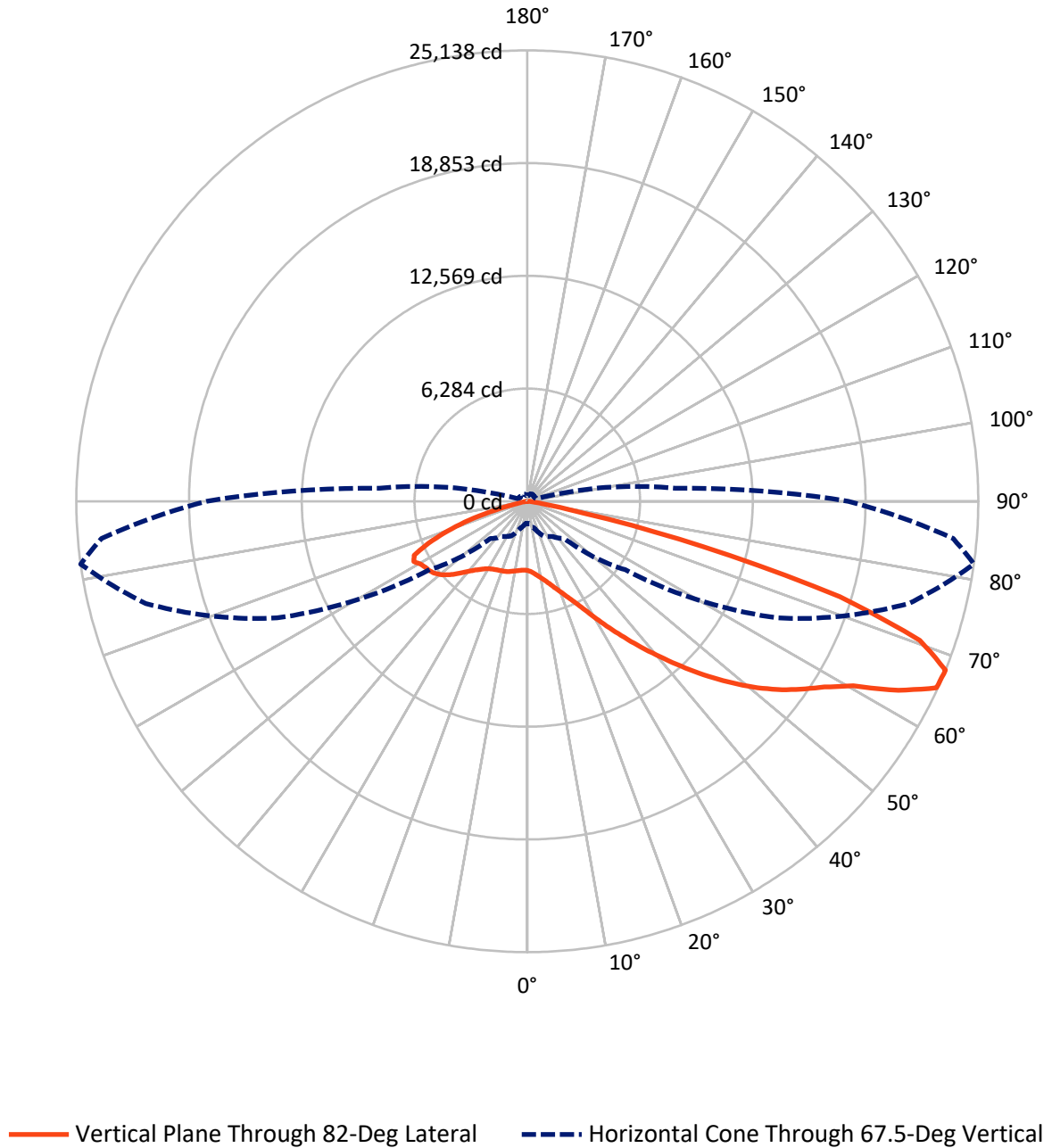
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P942824
CATALOG NUMBER: GALN-SB7A-735-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P942824

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4219.7	0.0	4219.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19075.3	0.0	19075.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	23295.0	0.0	23295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	1.5
10°-20°	893.5	3.8
20°-30°	1431.0	6.1
30°-40°	2530.5	10.9
40°-50°	4433.7	19.0
50°-60°	5913.3	25.4
60°-70°	5505.0	23.6
70°-80°	2112.8	9.1
80°-90°	131.2	0.6
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°	23295.0	100.0
0°-180°	23295.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942824

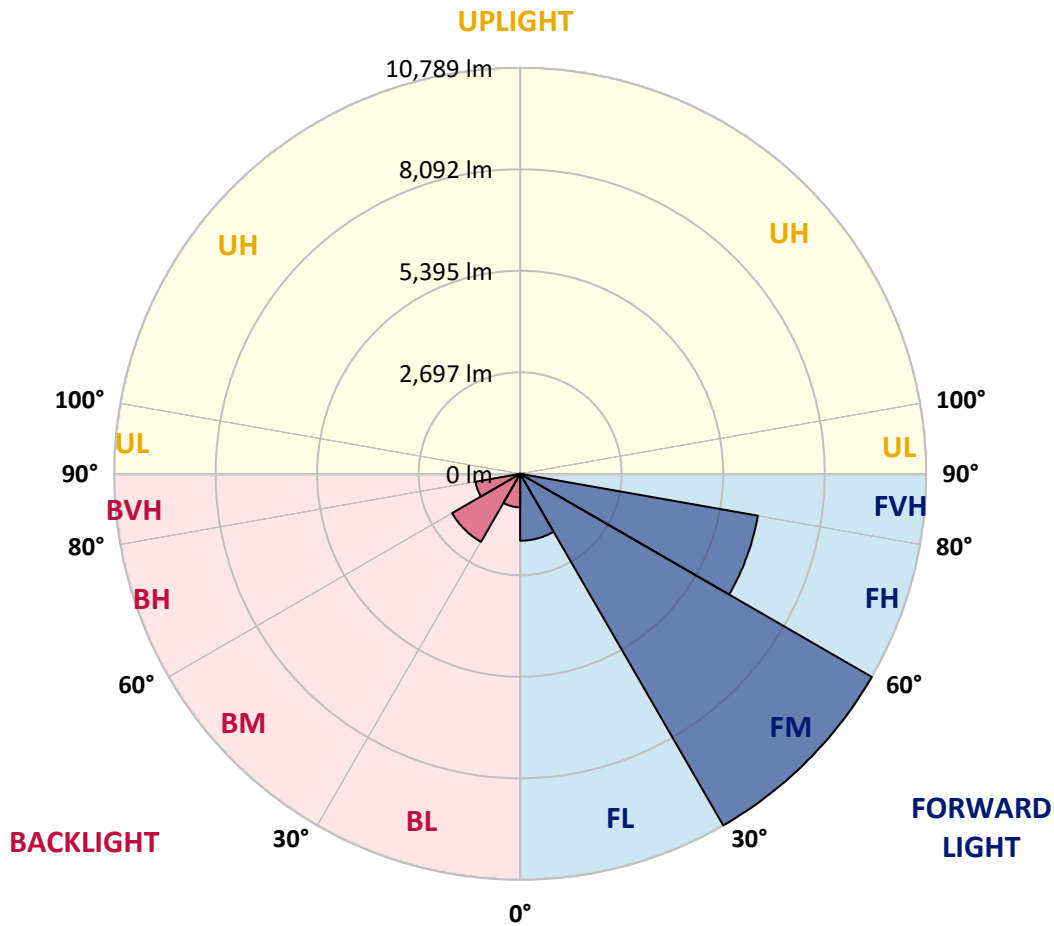
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1777.2	7.6			
FM (30°-60°)	10789.3	46.3			
FH (60°-80°)	6413.5	27.5			G3/7500
FVH (80°-90°)	95.4	0.4			G1/100
BL (0°-30°)	891.2	3.8	B2/1000		
BM (30°-60°)	2088.3	9.0	B2/2500		
BH (60°-80°)	1204.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P942824

CATALOG NUMBER: GALN-SB7A-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2
2.5°	4078.9	4102.4	4089.0	4082.3	4070.5	4053.7	4040.3	3998.4	3954.8	3926.3
5°	4161.1	4184.6	4182.9	4189.6	4198.0	4203.0	4199.7	4152.7	4090.6	4042.0
7.5°	4090.6	4117.5	4139.3	4172.8	4231.5	4293.6	4323.8	4313.7	4250.0	4182.9
10°	3891.1	3919.6	3971.6	4050.4	4174.5	4308.7	4421.0	4473.0	4432.8	4359.0
12.5°	3525.4	3553.9	3656.3	3827.3	4035.3	4268.4	4483.1	4622.3	4632.4	4558.6
15°	3114.5	3143.0	3252.1	3466.7	3783.7	4157.7	4516.6	4780.0	4868.9	4805.1
17.5°	2859.6	2884.8	2966.9	3139.7	3470.1	3936.3	4504.9	4947.7	5150.6	5100.3
20°	2782.4	2804.2	2842.8	2963.6	3238.6	3706.6	4427.8	5105.3	5454.2	5425.7
22.5°	2864.6	2884.8	2896.5	2950.2	3122.9	3555.6	4330.5	5266.3	5806.4	5809.8
25°	3054.1	3074.3	3060.9	3094.4	3169.9	3508.7	4293.6	5455.9	6249.2	6286.1
27.5°	3366.1	3367.8	3335.9	3334.2	3346.0	3579.1	4332.2	5658.8	6807.7	6876.4
30°	3991.7	3966.5	3844.1	3711.6	3651.2	3790.4	4439.5	5898.6	7466.8	7589.2
32.5°	4956.1	4919.2	4694.4	4377.4	4058.8	4130.9	4632.4	6172.0	8184.6	8406.0
35°	6002.6	5992.6	5757.8	5286.5	4729.7	4615.6	4946.0	6530.9	8967.9	9320.1
37.5°	6975.4	6970.4	6836.2	6281.0	5603.5	5291.5	5449.2	7000.6	9806.5	10316.3
40°	7864.3	7879.4	7745.2	7248.8	6566.2	6158.6	6133.5	7580.9	10739.0	11401.5
42.5°	8632.4	8649.2	8513.4	8146.1	7517.1	7118.0	6973.7	8292.0	11649.7	12567.1
45°	9154.1	9258.0	9237.9	8944.4	8493.2	8079.0	7983.4	9184.2	12687.9	13803.2
47.5°	9301.6	9397.2	9548.2	9588.4	9313.4	8905.8	9019.9	10259.3	13737.8	15041.0
50°	8937.7	9026.6	9340.2	9757.8	9949.0	9823.2	10027.9	11411.5	14812.9	16275.4
52.5°	8219.9	8310.4	8706.2	9367.1	10146.9	10542.8	11039.2	12547.0	15854.4	17444.4
55°	7181.7	7277.3	7785.5	8533.5	9769.6	10839.6	11882.8	13680.8	16808.7	18496.0
57.5°	5769.5	5839.9	6368.3	7414.8	8820.3	10544.4	12505.1	14918.5	17707.7	19529.1
60°	3760.2	3822.3	4436.1	5603.5	7247.1	9558.3	12629.2	16298.8	18901.8	20872.5
62.5°	2500.7	2542.6	2906.6	3763.6	5103.7	7664.7	11903.0	17400.8	20652.8	23210.5
65°	1715.8	1757.7	2121.6	2718.7	3297.3	5070.1	9814.9	17254.8	22239.4	25067.1
67.5°	1224.3	1259.6	1568.2	2131.7	2386.6	2945.1	6653.4	15389.8	22011.3	25137.6
70°	877.2	897.3	1152.2	1660.4	1896.9	1769.4	3699.9	11770.5	19272.5	23212.2
72.5°	613.8	620.6	800.0	1264.6	1527.9	1291.4	1761.0	7847.5	14576.4	18219.2
75°	415.9	424.3	538.4	927.5	1226.0	986.2	932.5	4208.0	8557.0	10084.9
77.5°	254.9	258.3	347.2	634.0	917.4	751.4	600.4	1782.8	3310.8	3250.4
80°	144.2	144.2	221.4	394.1	625.6	484.7	421.0	758.1	1048.2	920.8
82.5°	80.5	82.2	161.0	244.9	414.3	286.8	231.5	350.5	452.8	400.8
85°	33.5	36.9	99.0	115.7	197.9	142.6	93.9	147.6	167.7	149.3
87.5°	3.4	5.0	30.2	21.8	23.5	28.5	13.4	28.5	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942824
 CATALOG NUMBER: GALN-SB7A-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3859.2	0°	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2	3859.2
3916.2	2.5°	3884.4	3859.2	3795.5	3721.7	3624.4	3577.4	3513.7	3470.1	3433.2	3436.5
4013.5	5°	3959.8	3896.1	3753.5	3575.7	3354.4	3196.7	3029.0	2913.3	2819.3	2799.2
4147.7	7.5°	4063.8	3963.2	3713.3	3392.9	3018.9	2735.5	2482.2	2319.5	2203.8	2166.9
4310.4	10°	4198.0	4052.1	3661.3	3163.2	2624.8	2264.2	1992.5	1865.0	1786.2	1759.4
4501.6	12.5°	4354.0	4154.4	3592.5	2883.1	2218.9	1871.7	1699.0	1635.3	1610.1	1601.7
4736.4	15°	4550.2	4281.8	3488.5	2551.0	1875.1	1631.9	1558.1	1549.7	1553.1	1549.7
5018.1	17.5°	4783.3	4421.0	3319.1	2208.8	1643.6	1509.5	1482.6	1489.3	1497.7	1496.0
5333.4	20°	5038.3	4558.6	3102.8	1905.3	1486.0	1422.2	1407.2	1413.9	1420.6	1417.2
5697.4	22.5°	5328.4	4706.2	2862.9	1668.8	1380.3	1341.7	1325.0	1326.7	1326.7	1319.9
6158.6	25°	5675.6	4868.9	2611.4	1501.1	1299.8	1269.6	1249.5	1242.8	1232.7	1212.6
6718.8	27.5°	6089.8	5041.6	2369.9	1383.7	1236.1	1207.6	1184.1	1167.3	1142.2	1108.6
7391.3	30°	6556.1	5251.3	2165.2	1309.9	1185.8	1157.3	1130.4	1105.3	1068.4	1026.4
8164.5	32.5°	7104.5	5476.0	2016.0	1261.2	1140.5	1110.3	1078.4	1048.2	1008.0	966.1
9033.3	35°	7758.6	5747.7	1928.8	1227.7	1105.3	1065.0	1029.8	996.2	966.1	929.2
9977.5	37.5°	8468.1	6036.2	1901.9	1210.9	1081.8	1019.7	979.5	956.0	952.6	930.8
10999.0	40°	9244.6	6378.3	1922.0	1200.9	1056.6	976.1	932.5	927.5	935.9	897.3
12090.8	42.5°	10066.4	6784.2	1955.6	1189.1	1021.4	932.5	890.6	890.6	883.9	830.2
13244.7	45°	10955.3	7252.1	1989.1	1160.6	979.5	888.9	857.0	845.3	816.8	764.8
14405.3	47.5°	11851.0	7728.4	2014.3	1108.6	929.2	852.0	823.5	796.7	754.7	707.8
15544.1	50°	12701.3	8156.1	1987.5	1031.5	872.1	816.8	786.6	749.7	704.4	672.5
16622.5	52.5°	13461.1	8526.8	1873.4	940.9	811.8	779.9	753.1	714.5	677.6	644.0
17595.3	55°	14121.9	8827.0	1672.1	855.4	758.1	748.0	721.2	672.5	622.2	593.7
18559.7	57.5°	14755.8	9055.1	1420.6	784.9	709.4	712.8	672.5	628.9	582.0	551.8
19859.5	60°	15599.5	9360.3	1165.6	719.5	657.5	667.5	623.9	592.0	533.3	494.8
22088.5	62.5°	16947.9	9835.0	925.8	639.0	597.1	600.4	582.0	543.4	473.0	427.7
23740.5	65°	18018.0	9660.6	729.6	551.8	528.3	533.3	533.3	491.4	415.9	363.9
23829.4	67.5°	17897.2	8271.9	582.0	466.3	462.9	466.3	478.0	442.8	369.0	327.1
22014.7	70°	16486.7	6579.6	466.3	387.4	402.5	394.1	427.7	404.2	332.1	290.2
17067.0	72.5°	13452.7	4739.7	355.6	320.3	308.6	322.0	385.8	363.9	276.7	229.8
9040.0	75°	7860.9	2529.2	265.0	253.3	223.1	268.3	342.1	310.3	211.3	169.4
2770.7	77.5°	2559.4	882.2	194.6	186.2	166.0	216.4	291.8	261.6	172.7	134.2
811.8	80°	686.0	266.7	132.5	122.4	107.3	161.0	231.5	208.0	124.1	87.2
348.9	82.5°	275.1	112.4	77.2	68.8	58.7	110.7	182.8	167.7	92.2	55.3
109.0	85°	88.9	36.9	28.5	21.8	26.8	68.8	109.0	114.0	65.4	28.5
16.8	87.5°	11.7	5.0	5.0	6.7	5.0	11.7	33.5	31.9	18.4	3.4
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°
3859.2
3403.0
2753.9
2130.0
1739.2
1596.7
1548.0
1492.7
1415.5
1316.6
1209.2
1105.3
1023.1
967.7
925.8
929.2
899.0
830.2
763.1
706.1
667.5
640.7
590.4
548.4
489.7
424.3
358.9
320.3
285.1
224.7
164.4
129.1
85.5
55.3
21.8
0.0
0.0

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