

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: P954571

Luminaire Tested: **GALN-SB7D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78600 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

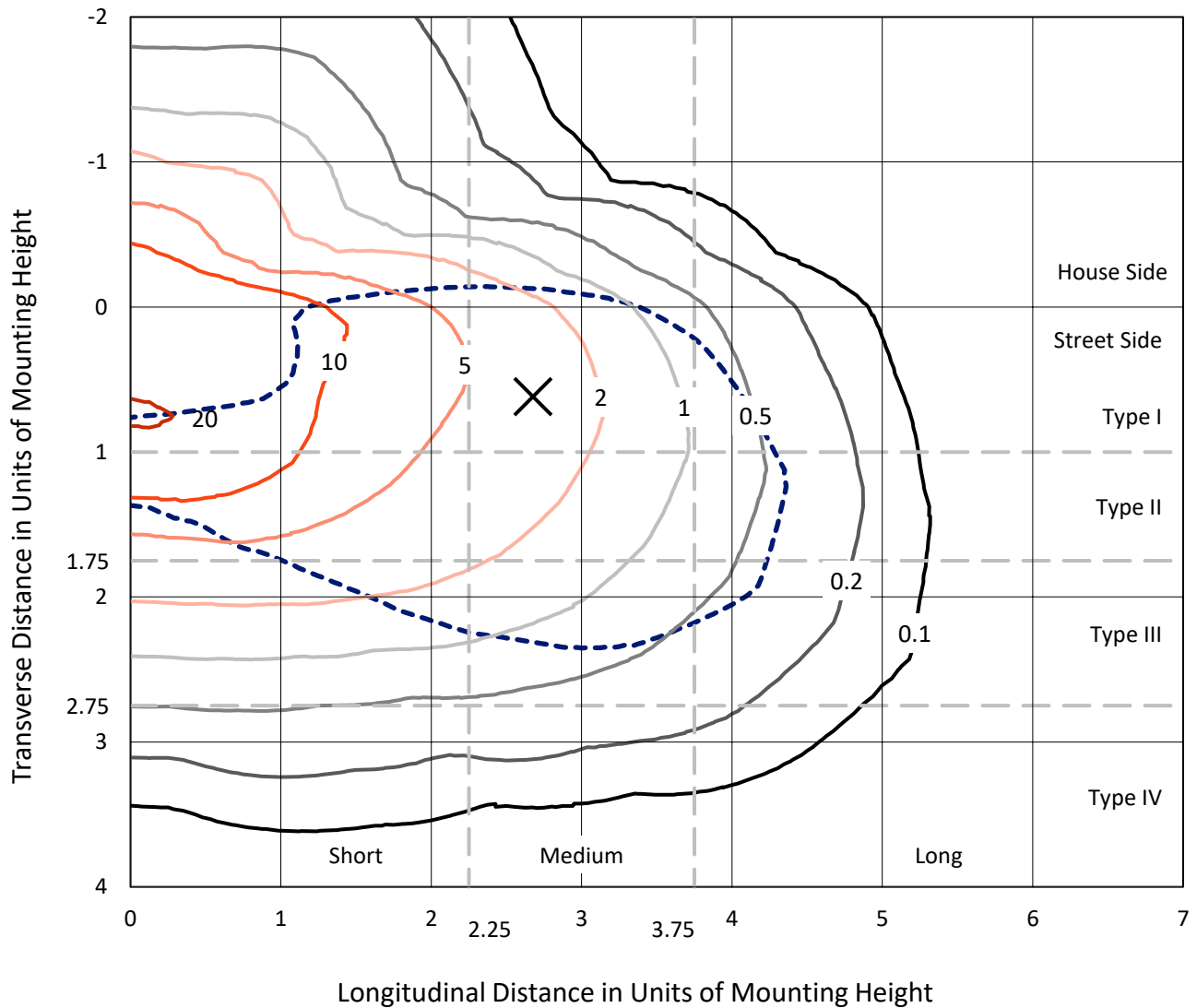
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

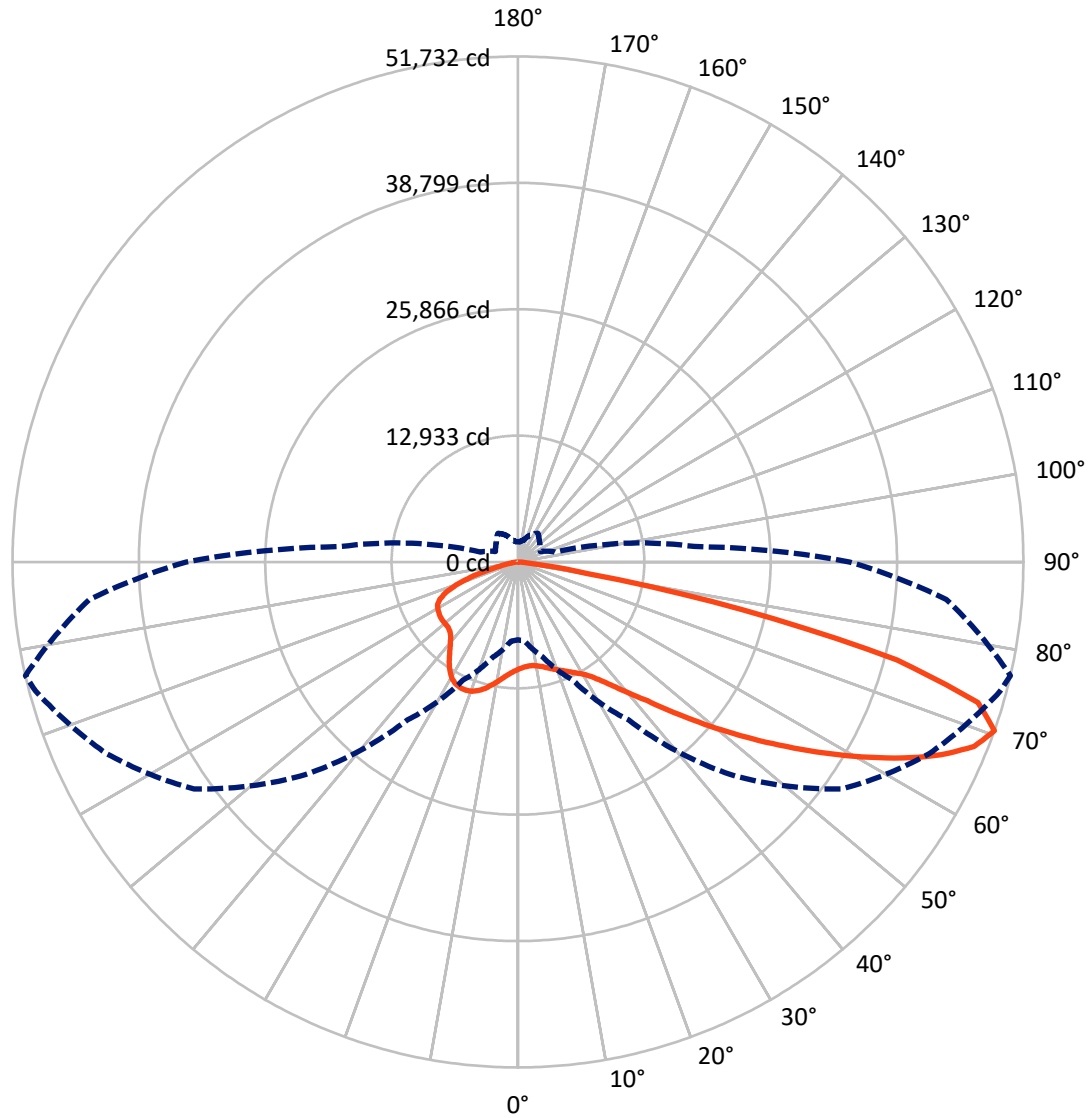
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17212.2	0.0	17212.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	61387.8	0.0	61387.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	78600.0	0.0	78600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1045.8	1.3
10°-20°	3018.3	3.8
20°-30°	5161.7	6.6
30°-40°	8300.6	10.6
40°-50°	12959.4	16.5
50°-60°	17310.6	22.0
60°-70°	18450.4	23.5
70°-80°	11358.0	14.5
80°-90°	995.3	1.3
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°	78600.0	100.0
0°-180°	78600.0	100.0

Coefficient of Utilization



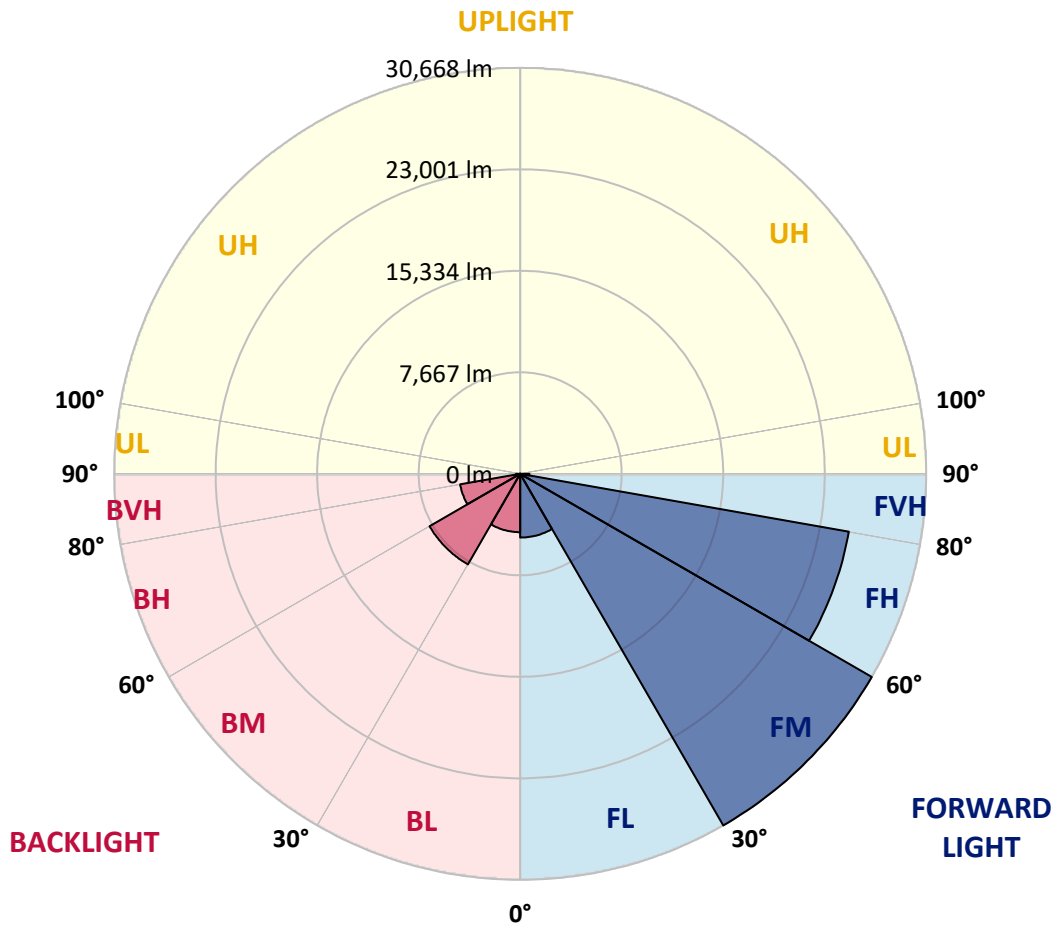
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4815.5	6.1			
FM (30°-60°)	30668.0	39.0			
FH (60°-80°)	25208.3	32.1			G5
FVH (80°-90°)	696.0	0.9			G4/750
BL (0°-30°)	4410.3	5.6	B4/5000		
BM (30°-60°)	7902.5	10.1	B4/8500		
BH (60°-80°)	4600.1	5.9	B4/5000		G4/5000
BVH (80°-90°)	299.3	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4
2.5°	10108.0	10104.0	10156.3	10172.4	10269.0	10337.4	10466.3	10603.1	10780.2	10800.4
5°	9524.3	9524.3	9584.7	9649.1	9773.9	9910.7	10108.0	10345.5	10651.4	10699.7
7.5°	9029.2	9061.4	9113.7	9238.5	9383.4	9580.7	9882.6	10220.7	10623.3	10699.7
10°	8630.6	8666.9	8731.3	8831.9	9049.3	9323.0	9717.5	10152.3	10691.7	10812.4
12.5°	8505.8	8542.1	8578.3	8654.8	8856.1	9178.1	9649.1	10184.5	10856.7	10977.5
15°	8795.7	8840.0	8811.8	8791.7	8896.3	9190.2	9681.3	10301.2	11062.0	11235.1
17.5°	9463.9	9480.0	9415.6	9226.4	9210.3	9367.3	9834.3	10462.2	11319.7	11508.9
20°	10542.7	10514.6	10381.7	10007.4	9794.0	9761.8	10095.9	10703.8	11585.3	11786.6
22.5°	12008.0	11975.8	11710.1	11118.4	10643.4	10329.4	10474.3	11017.7	11883.2	12108.7
25°	13835.6	13791.3	13400.8	12595.7	11859.1	11082.2	10989.6	11432.4	12249.5	12458.9
27.5°	15969.1	15932.9	15510.2	14447.5	13384.7	12112.7	11629.6	11919.5	12632.0	12869.5
30°	18263.6	18368.3	17619.5	16476.3	15131.8	13457.2	12491.1	12519.3	13127.1	13340.5
32.5°	20960.7	21141.8	20240.1	18791.0	16955.3	14918.4	13578.0	13356.6	13847.7	14024.8
35°	23633.6	23838.9	23090.2	21488.0	19374.7	16641.3	14713.1	14318.6	14805.7	14999.0
37.5°	25944.2	26218.0	25831.5	24438.7	21963.0	18718.5	16194.5	15449.8	15985.2	16226.7
40°	27767.8	28186.4	28158.3	27288.8	25014.4	21238.5	18074.4	16846.6	17450.5	17712.1
42.5°	29249.2	29611.5	29925.4	29881.2	28198.5	24100.6	20284.4	18662.1	19121.0	19423.0
45°	30271.6	30658.1	31334.4	32063.0	31261.9	27164.0	22816.4	20815.8	21234.4	21689.3
47.5°	31185.4	31624.2	32501.8	33657.1	33862.4	30239.4	25590.0	23323.7	23706.1	24177.1
50°	31265.9	31644.3	33004.9	34643.3	35710.1	33194.1	28568.9	26137.5	26495.7	26998.9
52.5°	29321.6	29917.4	32292.4	34615.1	36559.4	35665.8	31527.6	29064.0	29466.5	30070.4
55°	22760.1	23633.6	30203.2	33536.3	36257.5	37263.9	34341.4	32175.7	32691.0	33323.0
57.5°	19604.1	19986.5	23975.8	31571.9	34880.8	37678.5	36716.4	35319.6	36148.8	36841.2
60°	17619.5	17937.6	20296.5	28516.5	33069.3	37022.4	38552.1	38250.1	39683.2	40508.4
62.5°	15494.1	15796.0	17941.6	23810.7	30750.7	35931.5	39711.4	40955.3	43306.2	44207.9
65°	13384.7	13642.4	15699.4	20006.7	27804.0	34840.6	40311.2	43294.1	46659.4	47593.3
67.5°	11033.9	11247.2	13191.5	16878.9	24221.3	33347.1	40609.1	45133.7	49577.9	50378.9
70°	7962.4	8127.5	10136.2	13348.5	19724.9	30778.8	40488.3	46438.0	51091.4	51731.5
72.5°	3763.8	3912.8	6271.7	8666.9	13932.2	25779.2	38044.8	45403.4	49553.7	49235.7
75°	2008.7	2137.5	3602.8	4754.1	7358.6	17671.9	31133.1	39111.6	41611.4	40065.6
77.5°	1360.6	1461.3	2230.1	2854.1	3361.3	8389.1	20010.7	27079.4	26052.9	23500.8
80°	1078.8	1183.5	1827.6	1932.2	1626.3	3031.2	8268.3	12535.4	9005.0	7201.6
82.5°	829.2	946.0	1537.7	1400.9	885.6	1243.9	2407.2	3965.1	2306.6	1755.1
85°	507.2	632.0	1207.6	893.7	499.2	567.6	817.2	1103.0	704.5	587.7
87.5°	257.6	362.3	611.9	326.1	225.4	132.8	217.4	217.4	185.2	161.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10965.4	0°	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4	10965.4
10909.1	2.5°	11005.7	11086.2	11223.0	11351.9	11452.5	11549.1	11645.7	11698.1	11714.2	11778.6
10969.4	5°	11134.5	11283.4	11549.1	11798.7	11955.7	12052.3	12120.7	12161.0	12169.0	12189.2
11134.5	7.5°	11372.0	11609.5	11979.8	12229.4	12346.2	12338.1	12309.9	12209.3	12169.0	12132.8
11376.0	10°	11706.1	12020.1	12475.0	12648.1	12575.6	12382.4	12132.8	11838.9	11702.1	11569.2
11706.1	12.5°	12120.7	12519.3	12966.1	12958.0	12599.8	12104.6	11525.0	11074.1	10788.3	10583.0
12112.7	15°	12623.9	13082.8	13425.0	13151.3	12366.3	11476.7	10627.3	10039.6	9781.9	9556.5
12523.3	17.5°	13143.2	13634.3	13791.3	13090.9	11778.6	10546.8	9584.7	9121.7	8868.1	8747.4
12966.1	20°	13650.4	14137.5	14008.7	12744.7	10884.9	9492.1	8634.7	8381.1	8328.7	8356.9
13396.8	22.5°	14185.8	14620.6	14053.0	12076.5	9745.7	8413.3	7942.3	7950.3	8067.1	8151.6
13847.7	25°	14733.3	15027.1	13936.2	11110.3	8521.9	7620.2	7503.5	7632.3	7861.8	8026.8
14354.9	27.5°	15260.6	15389.4	13682.6	9914.8	7471.3	7052.6	7072.8	7338.5	7684.6	7914.1
14970.8	30°	15856.4	15711.5	13195.5	8570.3	6742.7	6565.6	6734.6	7044.6	7390.8	7596.1
15747.7	32.5°	16528.6	15989.2	12422.6	7326.4	6227.4	6175.1	6452.9	6654.1	6807.1	6867.5
16778.2	35°	17365.9	16379.7	11432.4	6452.9	5764.5	5889.3	6155.0	6054.3	5993.9	5961.7
18163.0	37.5°	18452.8	16907.0	10273.0	5885.3	5390.1	5684.0	5792.7	5478.7	5241.2	5124.4
19841.6	40°	19761.1	17679.9	9158.0	5446.5	5152.6	5506.9	5317.7	4939.3	4637.4	4472.3
21729.6	42.5°	21214.3	18489.0	8220.0	5116.4	5019.8	5361.9	4967.4	4516.6	4029.5	3977.2
23979.8	45°	22740.0	19322.3	7580.0	4862.8	4955.4	5237.2	4766.2	4037.6	3691.4	3904.7
26238.1	47.5°	24265.6	20087.2	7193.5	4673.6	4923.2	5096.3	4589.1	3771.9	3526.3	3836.3
28657.4	50°	25964.4	20771.5	7020.4	4536.7	4886.9	5039.9	4323.4	3703.4	3353.2	3558.5
31161.3	52.5°	27651.0	21302.9	6891.6	4399.9	4834.6	4995.6	4194.6	3622.9	3143.9	3156.0
33681.2	55°	29333.7	21649.1	6750.7	4218.7	4717.9	4899.0	4182.5	3534.4	2986.9	2930.6
36346.1	57.5°	31129.1	21846.3	6577.6	4017.4	4516.6	4653.5	4170.4	3465.9	2938.6	2846.0
39071.3	60°	32956.6	22136.1	6352.2	3771.9	4246.9	4359.6	4142.2	3441.8	2910.4	2753.4
41639.6	62.5°	34595.0	22236.8	6082.5	3538.4	3900.7	4069.8	4081.8	3421.7	2833.9	2564.2
43773.1	65°	35669.8	21802.0	5611.5	3272.7	3526.3	3771.9	3965.1	3353.2	2697.1	2427.4
44827.8	67.5°	35625.5	20562.2	4874.9	2930.6	3164.0	3441.8	3796.0	3236.5	2532.0	2258.3
44030.7	70°	33967.0	18114.7	3940.9	2532.0	2765.5	3087.5	3578.7	3063.4	2334.8	2073.1
39151.9	72.5°	29132.4	14177.8	2862.1	2065.1	2302.6	2721.2	3296.9	2854.1	2133.5	1908.1
28935.2	75°	20811.7	8972.8	1940.3	1586.0	1791.3	2306.6	2946.7	2608.5	1948.3	1916.1
14491.7	77.5°	10631.3	4287.1	1284.1	1159.3	1247.9	1819.5	2475.7	2330.8	1976.5	1582.0
4122.1	80°	3457.9	1582.0	809.1	789.0	829.2	1211.7	1916.1	1912.1	1497.5	1074.8
998.3	82.5°	1103.0	680.3	527.3	507.2	487.1	760.8	1336.5	1513.6	1010.4	680.3
358.3	85°	438.8	406.6	310.0	285.8	205.3	358.3	700.4	1006.4	752.8	491.1
92.6	87.5°	161.0	161.0	84.5	60.4	44.3	120.8	189.2	301.9	430.7	253.6
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°
10965.4
11814.8
12221.4
12140.9
11529.0
10534.7
9532.3
8783.6
8344.8
8171.7
8071.1
7970.5
7644.4
6899.7
5993.9
5152.6
4484.4
4029.5
4017.4
3981.2
3711.5
3240.5
2970.8
2858.1
2765.5
2564.2
2427.4
2270.4
2097.3
1896.0
1807.4
1408.9
950.0
676.3
503.2
249.6
0.0

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