

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: P943215

Luminaire Tested: **GALN-SB7C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47419 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

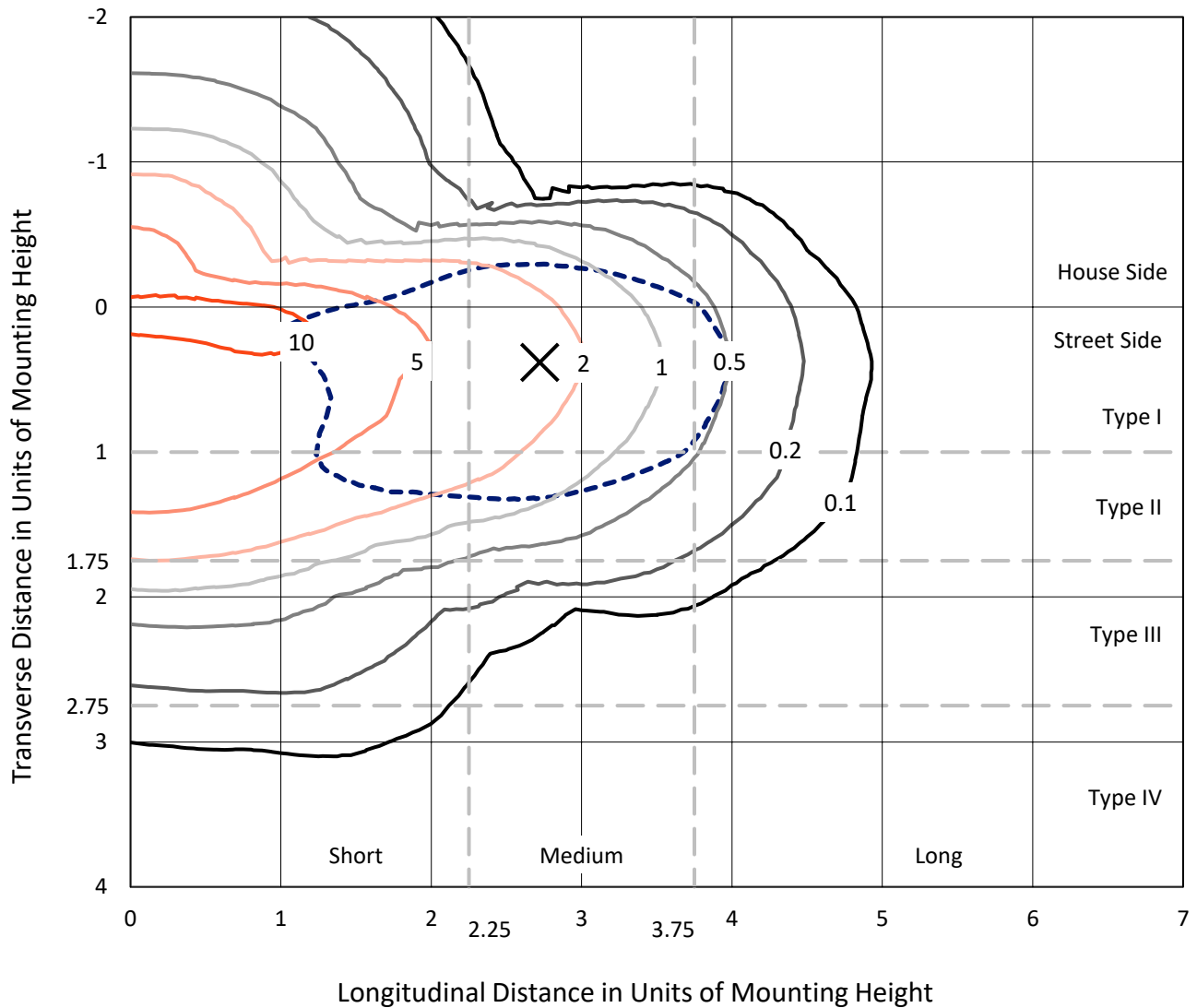
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943215
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Iso-Footcandle Lines of Horizontal Illumination

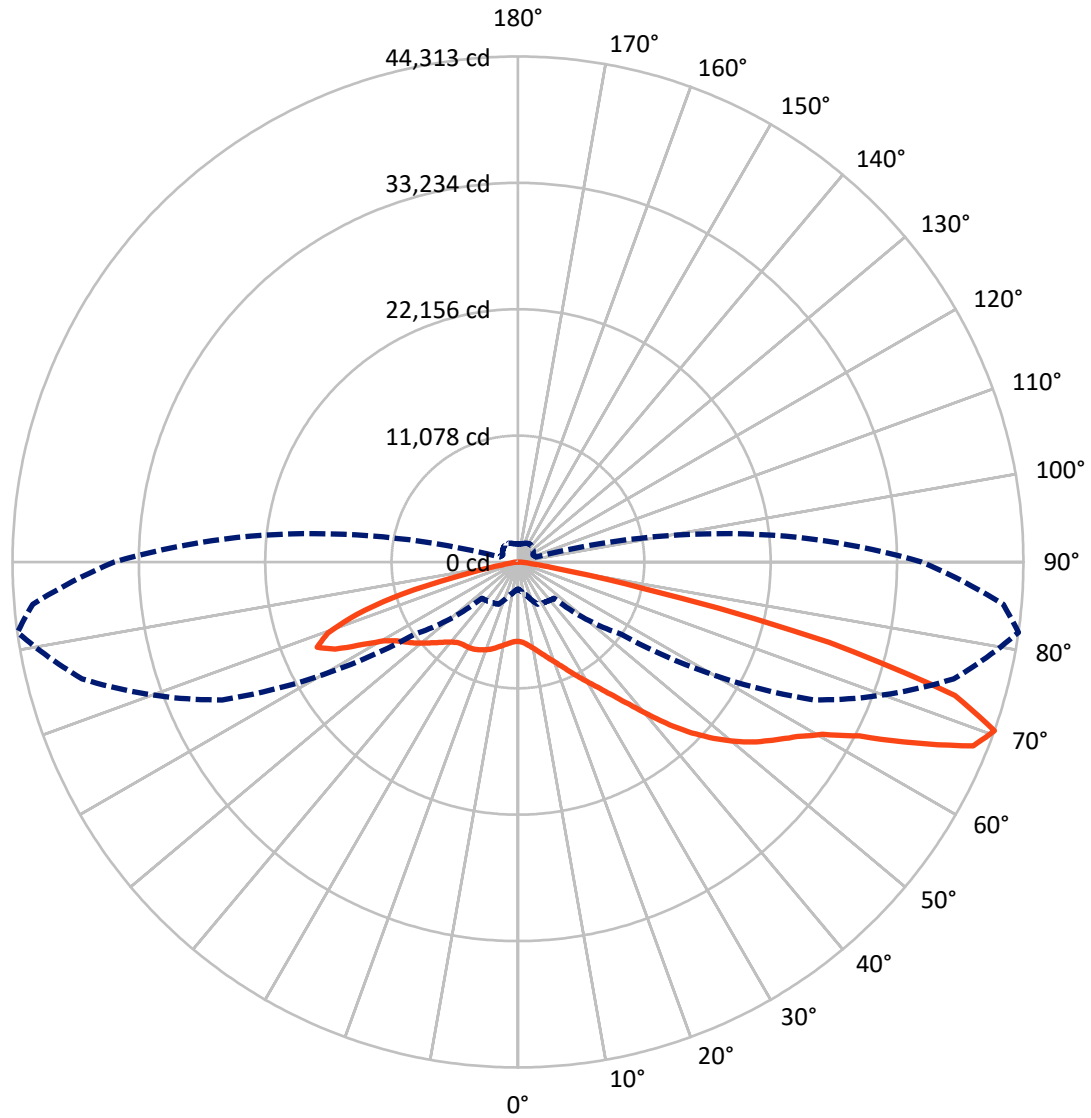
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P943215
CATALOG NUMBER: GALN-SB7C-830-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11690.0	0.0	11690.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	35729.0	0.0	35729.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	47419.0	0.0	47419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.4	1.4
10°-20°	1885.9	4.0
20°-30°	3154.9	6.7
30°-40°	4928.8	10.4
40°-50°	7849.7	16.6
50°-60°	10923.9	23.0
60°-70°	11426.9	24.1
70°-80°	5972.3	12.6
80°-90°	620.2	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°	47419.0	100.0
0°-180°	47419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943215

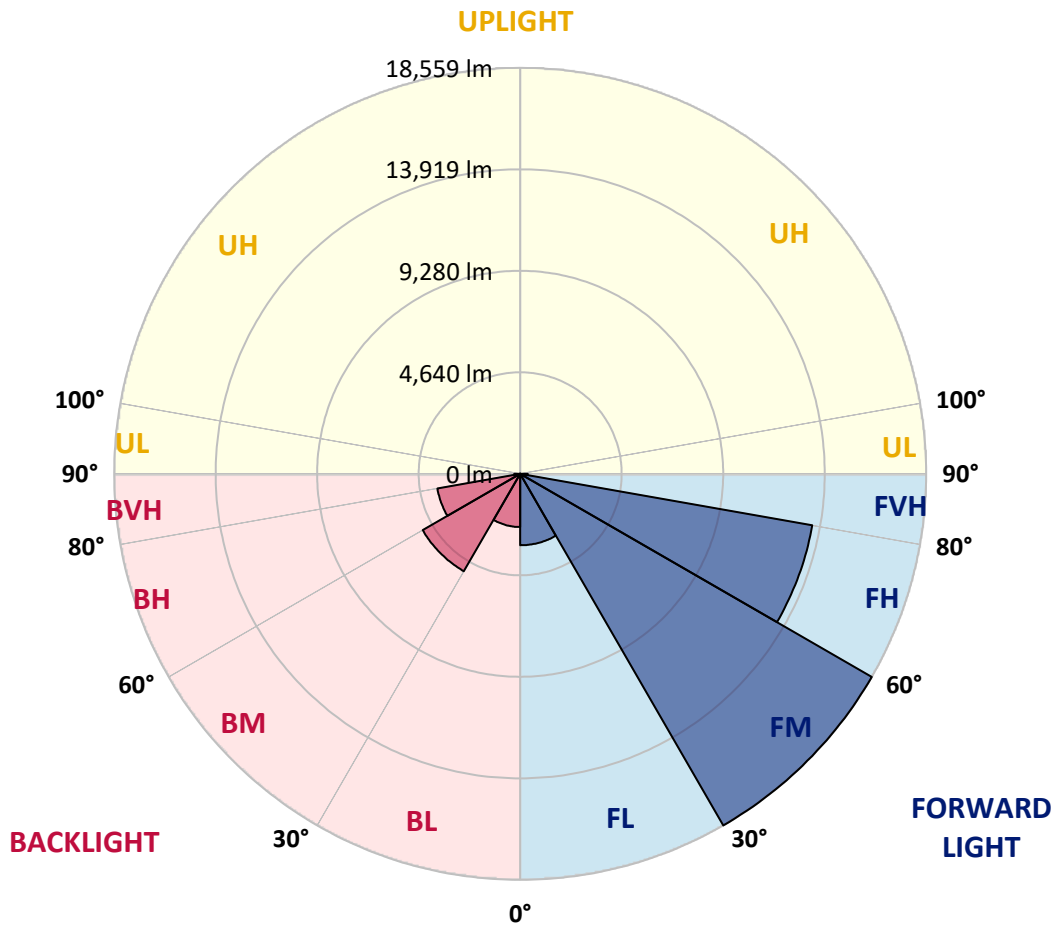
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3265.3	6.9			
FM (30°-60°)	18559.3	39.1			
FH (60°-80°)	13557.2	28.6			G5
FVH (80°-90°)	347.2	0.7			G3/500
BL (0°-30°)	2431.9	5.1	B3/2500		
BM (30°-60°)	5143.1	10.8	B4/8500		
BH (60°-80°)	3841.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	273.0	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 II Medium



REPORT NUMBER: P943215
 CATALOG NUMBER: GALN-SB7C-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2
2.5°	7118.3	7158.5	7146.0	7133.4	7133.4	7115.8	7113.3	7088.1	7068.0	7035.3
5°	7208.9	7251.6	7246.6	7256.7	7289.4	7296.9	7304.5	7289.4	7249.1	7208.9
7.5°	7128.4	7176.2	7191.3	7251.6	7352.3	7442.9	7510.8	7538.5	7500.7	7442.9
10°	6856.6	6909.4	6962.3	7105.7	7284.4	7498.2	7679.4	7787.6	7780.0	7724.7
12.5°	6305.6	6360.9	6474.1	6753.4	7080.5	7458.0	7795.1	8021.6	8099.6	8059.3
15°	5865.2	5913.0	5998.6	6285.4	6710.7	7284.4	7837.9	8278.2	8477.0	8454.4
17.5°	5852.6	5872.8	5925.6	6061.5	6388.6	7012.6	7792.6	8529.9	8909.8	8907.3
20°	6074.1	6081.6	6111.8	6139.5	6325.7	6806.3	7676.9	8738.7	9395.4	9395.4
22.5°	6381.0	6376.0	6406.2	6381.0	6471.6	6788.7	7603.9	8922.4	9936.4	9976.7
25°	6841.5	6816.3	6808.8	6750.9	6768.5	6952.2	7684.4	9131.2	10578.0	10661.1
27.5°	7455.5	7415.2	7387.5	7254.2	7208.9	7289.4	7931.0	9382.9	11292.6	11436.1
30°	8255.6	8182.6	8142.4	7910.9	7747.3	7759.9	8303.4	9717.5	12039.9	12271.4
32.5°	9347.6	9234.4	9126.2	8746.3	8446.8	8348.7	8784.0	10180.5	12850.2	13220.0
35°	10570.5	10479.9	10364.2	9777.9	9317.4	9091.0	9433.2	10827.1	13798.8	14385.0
37.5°	11748.1	11670.1	11725.4	10935.3	10341.5	10011.9	10283.6	11695.2	14968.8	15834.4
40°	12965.9	12905.5	12913.1	12158.2	11466.3	11096.4	11315.3	12784.7	16309.9	17557.9
42.5°	14289.4	14244.1	14093.2	13423.8	12646.3	12301.6	12502.9	14042.8	17749.2	19520.6
45°	15771.4	15743.8	15602.9	14835.4	13944.7	13557.2	13829.0	15431.8	19196.0	21367.4
47.5°	17052.2	17074.8	17057.2	16410.6	15487.1	14918.5	15243.0	16881.1	20542.1	23103.6
50°	17668.6	17786.9	17960.5	17759.2	17185.5	16606.8	16669.7	18280.1	21825.4	24731.6
52.5°	17346.6	17570.5	18043.6	18365.6	18587.1	18466.3	18297.7	19669.0	23033.2	26201.0
55°	16146.4	16460.9	17245.9	18023.4	19153.2	20031.3	20252.8	21208.9	24210.7	27494.4
57.5°	13959.8	14470.6	15175.1	16747.7	18650.0	20788.7	22532.4	23345.2	25458.8	28875.7
60°	10210.7	10895.1	11770.7	14110.8	16888.6	20383.6	24472.4	26626.3	27232.7	30664.7
62.5°	6534.5	6957.3	7762.4	9966.6	13159.6	18307.8	25066.2	30727.6	30239.5	33598.6
65°	4473.8	4745.5	5482.8	6720.7	8507.2	13627.7	23476.0	33802.4	35015.2	38248.5
67.5°	3250.9	3457.2	4086.3	5170.8	5543.2	8064.4	18217.2	33661.5	39657.6	43039.3
70°	2370.2	2516.2	3044.6	4086.3	4264.9	4486.4	11036.0	28614.1	39556.9	44312.5
72.5°	1756.3	1856.9	2211.7	3170.4	3452.2	3029.5	5462.6	20796.3	33991.1	40080.3
75°	1270.7	1346.2	1607.8	2425.6	2762.8	2307.3	2725.0	12153.2	23710.0	28193.8
77.5°	971.2	1029.1	1200.2	1776.4	2211.7	1731.1	1690.9	5591.0	11242.3	11297.7
80°	780.0	817.8	910.9	1250.5	1695.9	1295.8	1102.1	2257.0	3552.9	3006.8
82.5°	573.7	636.6	770.0	878.1	1212.8	893.2	671.8	1139.8	1351.2	1162.5
85°	327.1	369.9	465.5	629.0	775.0	546.0	385.0	505.8	629.0	515.8
87.5°	115.7	151.0	163.6	246.6	337.2	226.5	148.5	145.9	206.3	153.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943215
 CATALOG NUMBER: GALN-SB7C-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6952.2	0°	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2	6952.2
7027.7	2.5°	7002.5	6990.0	6939.6	6871.7	6801.2	6733.3	6710.7	6662.9	6630.1	6612.5
7191.3	5°	7143.4	7103.2	6984.9	6834.0	6675.4	6504.3	6383.6	6272.8	6192.3	6116.8
7415.2	7.5°	7344.7	7274.3	7070.5	6806.3	6524.5	6240.1	6028.8	5867.7	5759.5	5689.1
7676.9	10°	7578.7	7470.6	7158.5	6763.5	6328.2	5920.6	5671.5	5533.1	5465.2	5427.4
7976.3	12.5°	7848.0	7694.5	7249.1	6665.4	6028.8	5563.3	5392.2	5351.9	5354.4	5357.0
8353.7	15°	8180.1	7966.2	7322.1	6451.5	5638.8	5289.0	5258.8	5324.2	5392.2	5424.9
8781.5	17.5°	8555.0	8253.1	7334.7	6099.2	5256.3	5112.9	5208.5	5349.4	5452.6	5497.9
9259.6	20°	8957.6	8545.0	7244.1	5601.0	4941.8	4969.5	5140.6	5321.7	5435.0	5492.8
9805.6	22.5°	9418.1	8857.0	7027.7	5077.7	4685.1	4813.5	5014.8	5190.9	5309.1	5367.0
10447.2	25°	9944.0	9206.7	6688.0	4637.3	4463.7	4637.3	4838.6	4984.6	5080.2	5133.0
11164.3	27.5°	10527.7	9571.6	6235.1	4287.6	4270.0	4456.2	4622.2	4735.5	4785.8	4826.0
11926.7	30°	11114.0	9903.7	5686.6	4023.4	4101.4	4277.5	4395.8	4446.1	4461.2	4468.7
12777.2	32.5°	11748.1	10190.5	5110.4	3804.5	3940.3	4103.9	4174.4	4197.0	4126.5	4078.7
13808.8	35°	12515.5	10497.5	4546.7	3630.9	3781.8	3922.7	3945.4	3925.2	3842.2	3744.1
15102.1	37.5°	13464.1	10880.0	4096.3	3507.6	3633.4	3726.5	3698.8	3693.8	3701.3	3585.6
16657.1	40°	14626.6	11378.2	3766.7	3411.9	3512.6	3532.7	3454.7	3497.5	3535.2	3359.1
18363.1	42.5°	15917.4	11979.6	3557.9	3346.5	3411.9	3364.1	3243.4	3291.2	3286.1	3054.6
20076.6	45°	17233.3	12633.8	3484.9	3298.7	3318.8	3223.2	3089.9	3102.5	2996.8	2787.9
21719.7	47.5°	18541.8	13335.8	3530.2	3258.5	3203.1	3094.9	2991.7	2936.4	2780.4	2624.4
23294.8	50°	19825.0	14073.0	3696.3	3177.9	3044.6	2981.7	2906.2	2808.1	2642.0	2508.6
24784.4	52.5°	21015.2	14815.3	3882.5	3044.6	2845.8	2883.5	2835.7	2722.5	2559.0	2423.1
26193.5	55°	22142.4	15557.6	3955.4	2860.9	2659.6	2798.0	2770.3	2561.5	2365.2	2254.5
27668.0	57.5°	23370.3	16450.8	3874.9	2626.9	2508.6	2699.9	2594.2	2362.7	2249.5	2166.4
29587.8	60°	25071.3	17852.3	3701.3	2337.5	2365.2	2553.9	2372.8	2277.1	2153.9	2060.8
32466.3	62.5°	27896.9	20466.6	3422.0	2050.7	2196.6	2337.5	2267.1	2171.5	2045.7	1955.1
37388.0	65°	32073.8	24100.0	2896.1	1826.8	2007.9	2126.2	2153.9	2058.2	1927.4	1831.8
41700.7	67.5°	35596.5	26379.7	2191.6	1640.6	1814.2	1955.1	2033.1	1940.0	1801.6	1708.5
42709.7	70°	35402.7	24724.0	1673.3	1456.9	1643.1	1786.5	1887.1	1814.2	1665.7	1577.6
38794.5	72.5°	31444.8	20683.0	1353.7	1270.7	1469.5	1610.4	1731.1	1675.8	1524.8	1439.3
28420.3	75°	23101.1	14681.9	1082.0	1082.0	1253.1	1426.7	1560.0	1524.8	1386.4	1326.0
11931.7	77.5°	9737.6	6159.6	848.0	898.3	1041.7	1225.4	1391.5	1404.0	1283.3	1358.7
3155.3	80°	2589.2	1698.4	646.7	707.0	817.8	1011.5	1210.3	1205.3	1074.4	1004.0
1172.5	82.5°	986.3	669.3	460.5	498.2	591.3	775.0	958.7	988.9	858.0	742.3
460.5	85°	379.9	286.8	284.3	299.4	344.7	513.3	724.7	749.8	646.7	548.5
128.3	87.5°	98.1	85.6	105.7	100.6	158.5	274.3	415.2	430.3	395.0	229.0
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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180°
6952.2
6632.7
6147.0
5704.2
5437.5
5362.0
5422.4
5507.9
5507.9
5382.1
5148.1
4841.1
4486.4
4093.8
3749.1
3593.1
3364.1
3052.1
2795.5
2624.4
2498.6
2425.6
2244.4
2158.9
2055.7
1955.1
1836.8
1711.0
1585.2
1439.3
1308.4
1232.9
933.5
742.3
566.1
327.1
0.0

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