

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: P954189

Luminaire Tested: **GALN-SB7C-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54248 lumens
Efficiency: N/A
Efficacy: 154.8 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

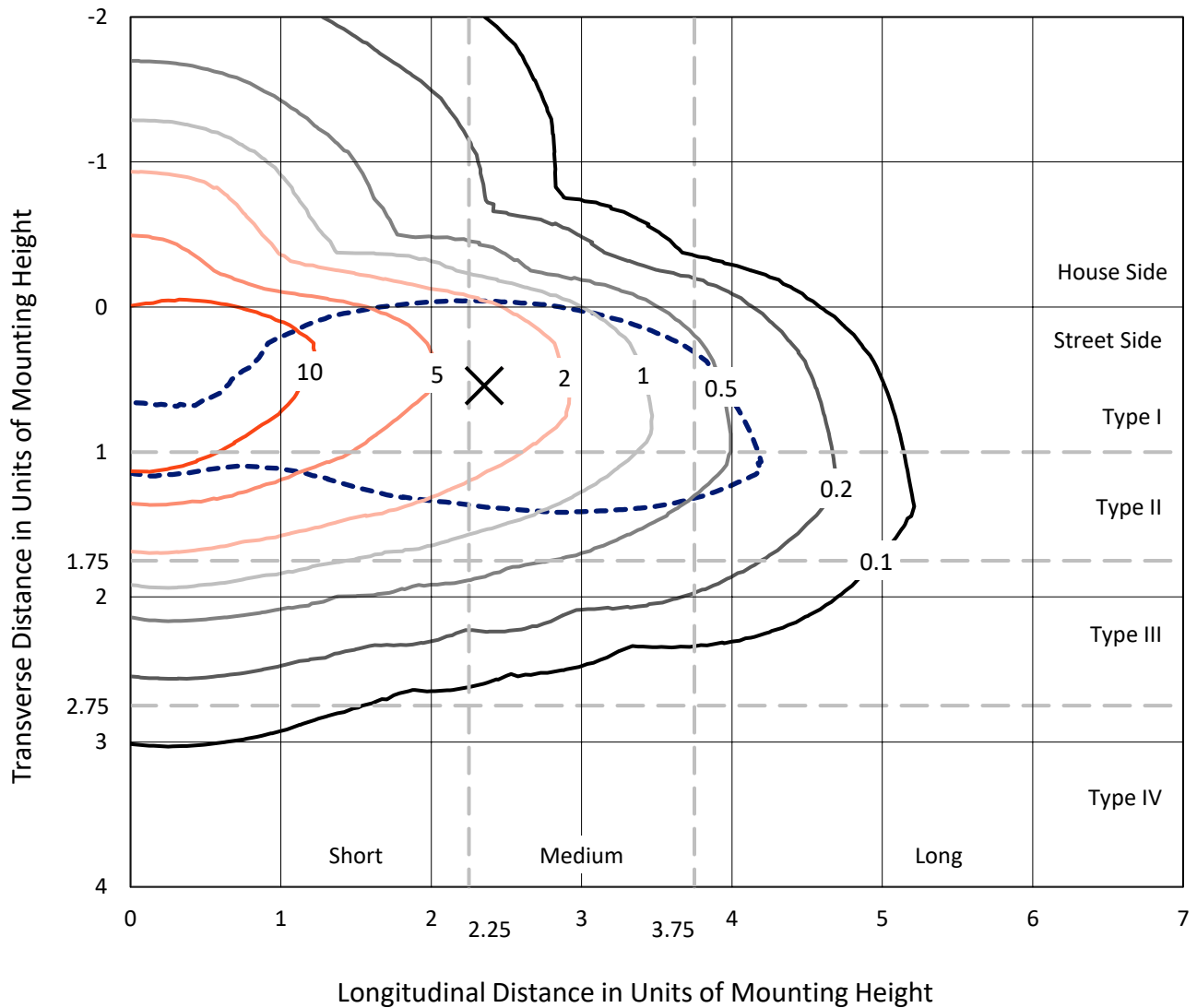
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

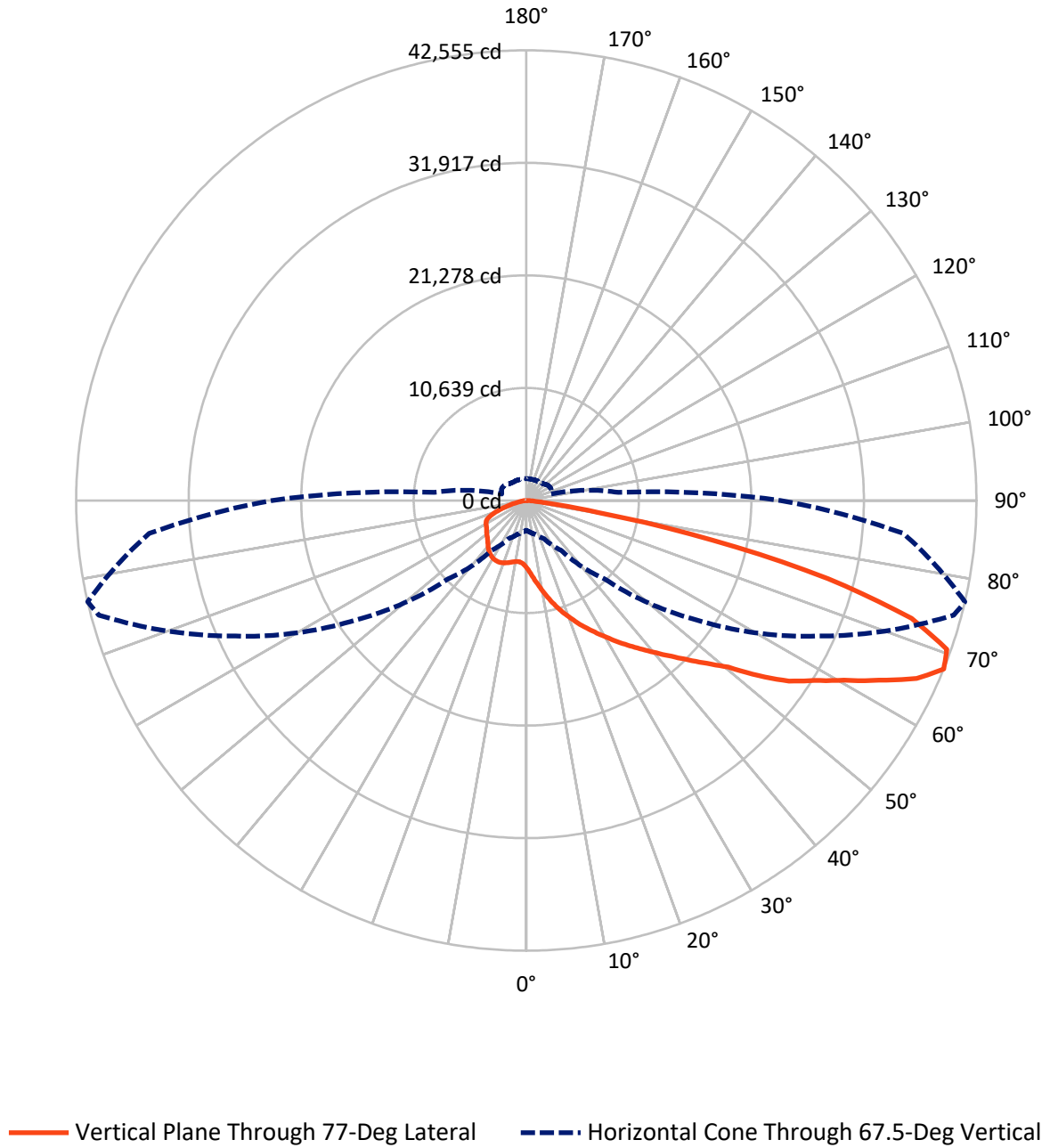
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10261.5	0.0	10261.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	43986.4	0.0	43986.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	54248.0	0.0	54248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.2	1.3
10°-20°	2451.0	4.5
20°-30°	4627.7	8.5
30°-40°	7455.2	13.7
40°-50°	10197.4	18.8
50°-60°	11502.7	21.2
60°-70°	10736.4	19.8
70°-80°	5885.3	10.8
80°-90°	709.9	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°	54248.0	100.0
0°-180°	54248.0	100.0

Coefficient of Utilization

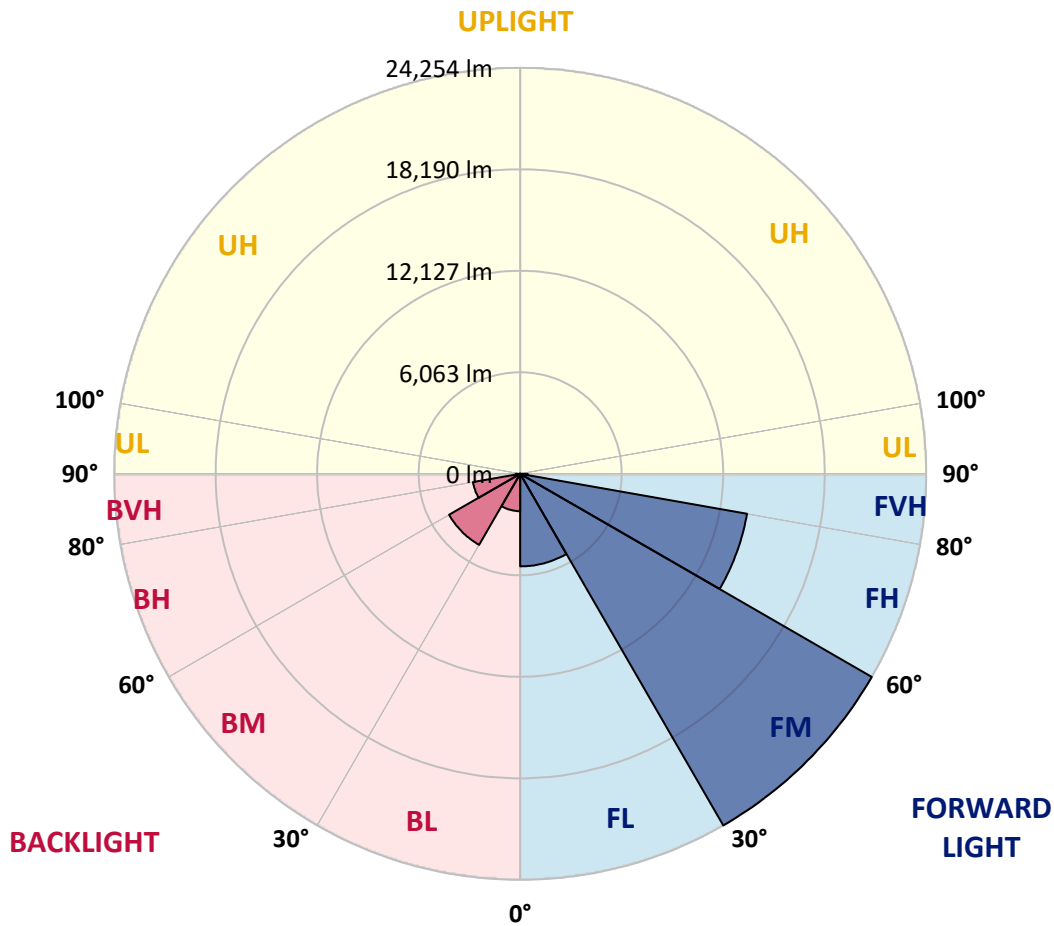


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5529.9	10.2			
FM (30°-60°)	24253.7	44.7			
FH (60°-80°)	13758.9	25.4			G5
FVH (80°-90°)	444.0	0.8			G3/500
BL (0°-30°)	2231.1	4.1	B3/2500		
BM (30°-60°)	4901.7	9.0	B3/5000		
BH (60°-80°)	2862.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	265.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0
2.5°	7969.5	8025.5	7955.5	7955.5	7720.3	7597.1	7361.9	7182.6	6860.6	6804.6
5°	9420.1	9490.1	9392.0	9350.0	9072.8	8818.0	8423.2	8033.9	7459.9	7401.1
7.5°	10543.0	10632.6	10545.8	10500.9	10254.5	9968.9	9506.9	8963.6	8154.3	8039.5
10°	11458.6	11472.6	11444.6	11461.4	11268.2	11033.0	10559.8	9926.9	8916.0	8759.2
12.5°	11976.7	12041.1	12097.1	12197.9	12164.3	12018.7	11593.0	10837.0	9722.5	9520.9
15°	12220.3	12332.3	12458.3	12690.7	12878.4	12914.8	12589.9	11814.3	10543.0	10299.3
17.5°	12307.1	12413.5	12612.3	12948.4	13351.6	13623.2	13477.6	12763.6	11355.0	11075.0
20°	12746.8	12777.6	12898.0	13217.2	13654.0	14104.9	14214.1	13676.4	12158.7	11842.3
22.5°	13687.6	13626.0	13659.6	13805.2	14118.9	14555.7	14804.9	14482.9	12984.8	12620.7
25°	15241.8	15062.6	14883.3	14715.3	14874.9	15121.4	15404.2	15289.4	13850.1	13388.0
27.5°	17204.8	16986.3	16591.5	16039.9	15846.6	15933.4	16059.5	16037.1	14650.9	14183.3
30°	19136.9	18882.1	18411.7	17613.6	17103.9	16874.3	16779.1	16714.7	15521.8	15023.4
32.5°	20679.9	20478.3	20016.2	19122.9	18383.7	17991.6	17675.2	17445.6	16431.9	15933.4
35°	22029.6	21842.0	21312.7	20338.2	19534.6	19117.3	18702.9	18212.8	17378.4	16874.3
37.5°	23261.7	23074.1	22348.8	21335.1	20525.9	20237.4	19867.8	19036.1	18327.7	17851.6
40°	24040.2	23998.2	23320.5	22172.4	21332.3	21189.5	21066.3	19991.0	19380.6	18938.1
42.5°	24239.0	24331.4	23793.8	22850.1	22049.2	21934.4	22222.8	21071.9	20562.3	20139.4
45°	23760.1	24026.2	23673.3	23032.1	22558.8	22497.2	23247.7	22253.6	21870.0	21483.5
47.5°	22547.6	22998.5	22852.9	22763.3	22696.1	22962.1	24149.4	23508.1	23351.3	23015.3
50°	20100.2	20954.3	21209.1	21774.8	22424.4	23323.3	24969.9	24877.5	25081.9	24743.0
52.5°	15869.0	17045.1	18523.7	19940.6	21590.0	23202.9	25871.5	26843.2	27705.7	27520.9
55°	13099.6	13628.8	14765.7	17364.4	19971.4	22696.1	26277.6	28431.0	30309.9	30144.7
57.5°	10971.4	11444.6	12144.7	14314.9	17524.0	21545.1	26529.6	29399.9	32093.7	32076.9
60°	8689.2	9190.4	9907.3	11444.6	14664.9	19557.0	26473.6	30503.2	34370.3	34510.3
62.5°	6113.0	6664.6	7459.9	8893.6	11744.3	16980.7	25331.1	31301.2	37050.2	37431.0
65°	4018.4	4382.4	4981.7	6219.4	8750.8	13668.0	23149.7	31404.8	39917.6	40561.7
67.5°	2817.1	2957.1	3309.9	3982.0	5768.5	10481.3	19674.6	30332.3	41830.2	42555.4
70°	2198.2	2268.2	2447.4	2716.2	3623.5	7048.2	15076.6	27543.3	41421.3	42177.4
72.5°	1898.6	1965.8	2033.0	2066.6	2430.6	4351.6	10212.5	23029.3	37571.0	38083.4
75°	1722.2	1739.0	1795.0	1783.8	1853.8	2822.7	5894.5	16779.1	29643.5	29467.1
77.5°	1447.7	1470.1	1562.5	1548.5	1646.5	1929.4	3060.7	10828.6	19218.1	18019.6
80°	1226.5	1237.7	1338.5	1321.7	1430.9	1397.3	1562.5	5519.3	8151.5	6905.4
82.5°	425.6	526.4	1022.1	1052.9	1092.1	845.7	901.7	2251.4	2489.4	1907.0
85°	207.2	221.2	520.8	739.3	736.5	425.6	439.6	803.7	784.1	616.1
87.5°	33.6	42.0	61.6	288.4	229.6	112.0	151.2	156.8	162.4	140.0
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°
6365.0	0°	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0	6365.0
6591.8	2.5°	6435.0	6295.0	6000.9	5729.3	5516.5	5312.1	5197.3	5099.3	5043.3	5032.1
6899.8	5°	6608.6	6320.2	5785.3	5334.5	5040.5	4822.0	4707.2	4634.4	4598.0	4575.6
7314.3	7.5°	6857.8	6435.0	5673.3	5160.9	4852.8	4696.0	4637.2	4626.0	4623.2	4626.0
7815.5	10°	7202.3	6622.6	5662.1	5118.9	4861.2	4774.4	4771.6	4774.4	4785.6	4788.4
8361.6	12.5°	7574.7	6815.8	5706.9	5155.3	4967.6	4920.0	4911.6	4908.8	4917.2	4922.8
8913.2	15°	7980.7	7070.6	5782.5	5233.7	5085.3	5034.9	5026.5	5009.7	5006.9	5004.1
9492.9	17.5°	8398.0	7322.7	5866.5	5317.7	5160.9	5090.9	5060.1	5020.9	4990.1	4981.7
10092.1	20°	8820.8	7571.9	5925.3	5359.7	5166.5	5068.5	5006.9	4939.6	4886.4	4855.6
10697.0	22.5°	9271.6	7832.3	5961.7	5348.5	5116.1	4981.7	4869.6	4791.2	4710.0	4656.8
11307.4	25°	9711.3	8059.1	5958.9	5289.7	5018.1	4847.2	4704.4	4603.6	4491.6	4435.6
11937.5	27.5°	10134.1	8263.5	5888.9	5186.1	4878.0	4687.6	4516.8	4396.4	4287.2	4234.0
12573.1	30°	10571.0	8434.4	5779.7	5034.9	4712.8	4502.8	4315.2	4211.6	4113.6	4063.2
13245.2	32.5°	11005.0	8591.2	5625.7	4847.2	4522.4	4320.8	4136.0	4040.8	3982.0	3982.0
13967.7	35°	11464.2	8700.4	5421.3	4628.8	4320.8	4127.6	3982.0	3926.0	3920.4	3886.8
14732.1	37.5°	11948.7	8770.4	5172.1	4404.8	4122.0	3940.0	3895.2	3827.9	3771.9	3699.1
15572.2	40°	12458.3	8840.4	4872.4	4172.4	3912.0	3811.1	3791.5	3701.9	3542.3	3363.1
16524.3	42.5°	13077.2	8888.0	4561.6	3940.0	3690.7	3657.1	3685.1	3531.1	3276.3	3141.9
17672.4	45°	13794.0	8966.4	4276.0	3710.3	3463.9	3463.9	3581.5	3379.9	3169.9	3085.9
18982.9	47.5°	14723.7	9148.4	4010.0	3458.3	3253.9	3309.9	3351.9	3197.9	3080.3	2976.7
20579.1	50°	16067.9	9585.3	3735.5	3203.5	3094.3	3206.3	3147.5	3057.9	2920.7	2836.7
23116.1	52.5°	17736.8	9842.9	3491.9	2973.9	2957.1	3069.1	2985.1	2901.1	2797.5	2685.4
25039.9	55°	18873.7	9890.5	3287.5	2805.9	2864.7	2853.5	2822.7	2747.0	2691.0	2542.6
26938.4	57.5°	20145.0	9985.7	3119.5	2705.0	2805.9	2682.6	2671.4	2607.0	2534.2	2433.4
29254.2	60°	21665.6	10134.1	2973.9	2665.8	2755.4	2570.6	2514.6	2489.4	2416.6	2366.2
32040.5	62.5°	23323.3	10268.5	2825.5	2671.4	2696.6	2461.4	2377.4	2369.0	2324.2	2307.4
34655.9	65°	24454.6	9901.7	2640.6	2665.8	2604.2	2349.4	2243.0	2240.2	2203.8	2198.2
35790.0	67.5°	24059.8	8739.6	2391.4	2587.4	2509.0	2237.4	2119.8	2108.6	2061.0	2063.8
34605.5	70°	22082.8	7081.8	2047.0	2394.2	2391.4	2136.6	1991.0	1954.6	1890.2	1901.4
30088.7	72.5°	18375.3	5247.7	1584.9	2072.2	2203.8	2044.2	1842.6	1783.8	1702.6	1713.8
22211.6	75°	13270.4	3567.5	1153.7	1576.5	1918.2	1935.0	1697.0	1596.1	1498.1	1514.9
12363.1	77.5°	6790.6	2021.8	848.5	1086.5	1506.5	1758.6	1565.3	1430.9	1408.5	1565.3
3564.7	80°	2215.0	1013.7	588.1	761.7	988.5	1439.3	1372.1	1218.1	1212.5	1248.9
747.7	82.5°	660.9	428.4	378.0	501.2	546.0	1103.3	1184.5	921.3	792.5	834.5
249.2	85°	226.8	207.2	215.6	249.2	260.4	646.9	828.9	610.5	576.9	635.7
56.0	87.5°	53.2	72.8	61.6	56.0	56.0	156.8	322.0	254.8	352.8	235.2
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°
6365.0
5032.1
4572.8
4634.4
4791.2
4925.6
5001.3
4990.1
4866.8
4659.6
4435.6
4231.2
4060.4
3984.8
3878.4
3687.9
3337.9
3144.7
3099.9
2973.9
2828.3
2663.0
2545.4
2399.8
2380.2
2307.4
2195.4
2063.8
1912.6
1711.0
1520.5
1542.9
1072.5
862.5
627.3
226.8
0.0

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