

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: P954357

Luminaire Tested: **GALN-SB7C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954357
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-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51889 lumens
Efficiency: N/A
Efficacy: 148.0 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

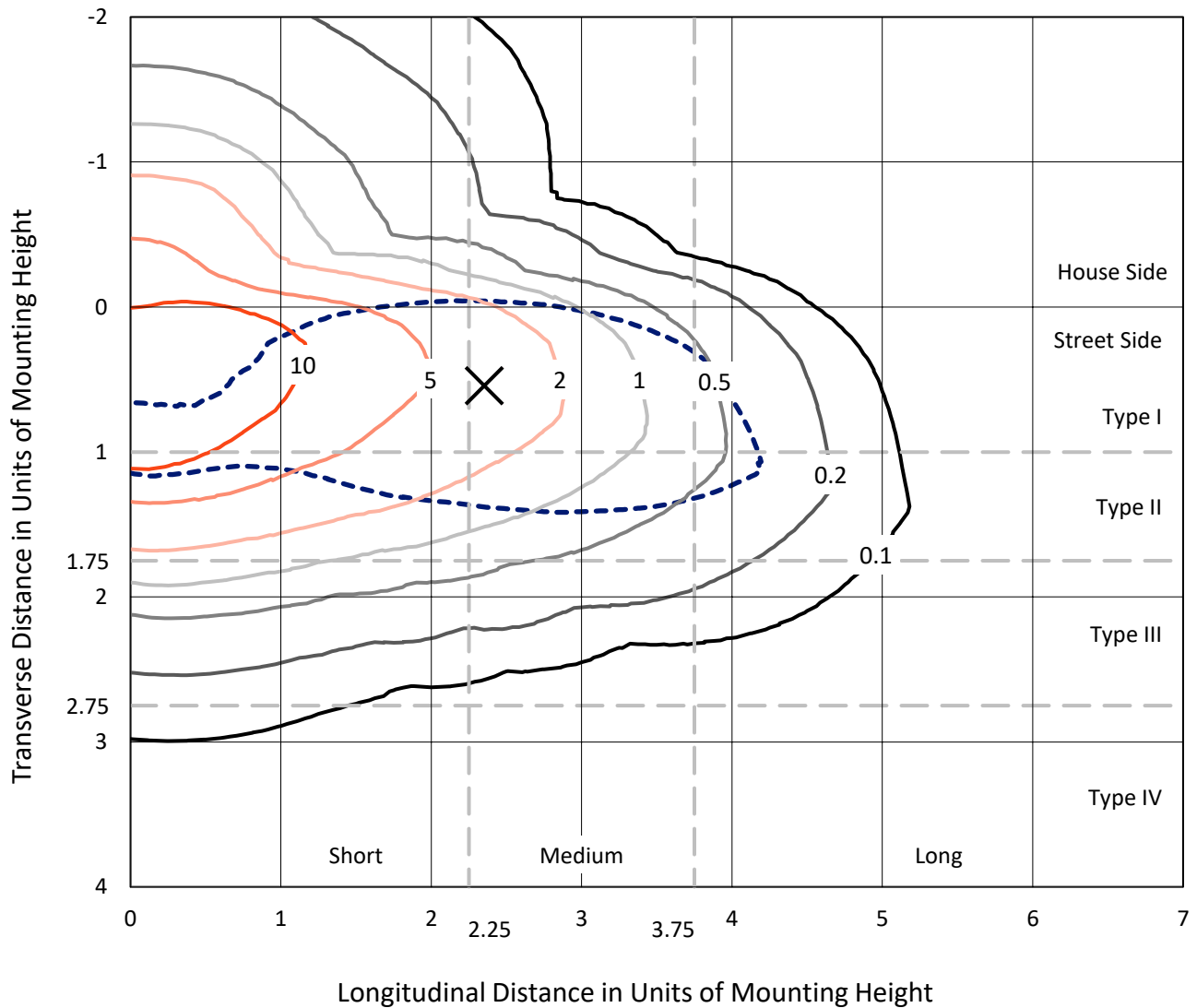
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

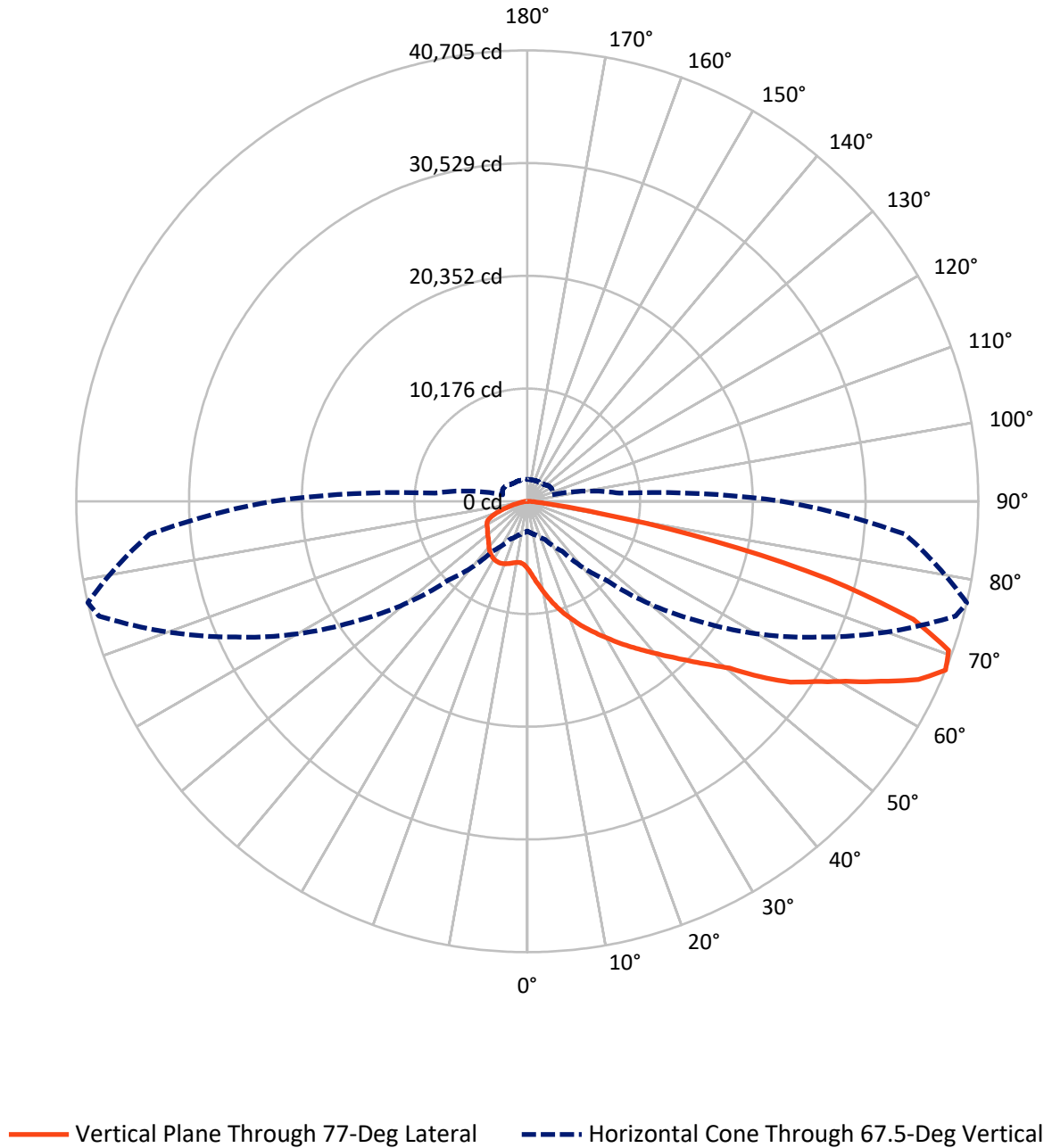
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	9815.3	0.0	9815.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	42073.7	0.0	42073.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	51889.0	0.0	51889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.6	1.3
10°-20°	2344.4	4.5
20°-30°	4426.5	8.5
30°-40°	7131.0	13.7
40°-50°	9754.0	18.8
50°-60°	11002.5	21.2
60°-70°	10269.5	19.8
70°-80°	5629.4	10.8
80°-90°	679.0	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°	51889.0	100.0
0°-180°	51889.0	100.0

Coefficient of Utilization



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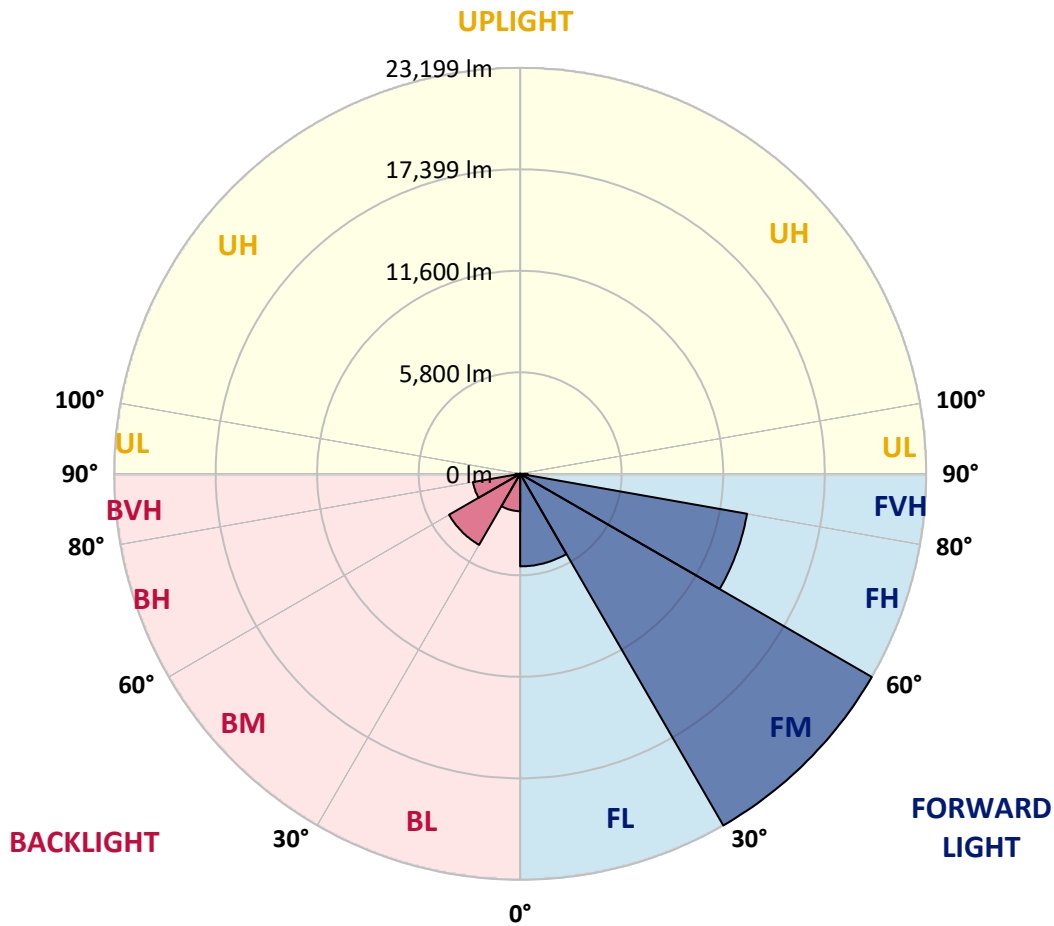
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5289.4	10.2			
FM (30°-60°)	23199.0	44.7			
FH (60°-80°)	13160.6	25.4			G5
FVH (80°-90°)	424.7	0.8			G3/500
BL (0°-30°)	2134.1	4.1	B3/2500		
BM (30°-60°)	4688.5	9.0	B3/5000		
BH (60°-80°)	2738.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	254.4	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°	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2
2.5°	7623.0	7676.5	7609.6	7609.6	7384.6	7266.7	7041.7	6870.3	6562.3	6508.7
5°	9010.4	9077.4	8983.6	8943.5	8678.3	8434.5	8056.9	7684.6	7135.5	7079.2
7.5°	10084.5	10170.2	10087.2	10044.3	9808.6	9535.4	9093.4	8573.8	7799.7	7689.9
10°	10960.4	10973.7	10947.0	10963.0	10778.2	10553.2	10100.6	9495.2	8528.3	8378.3
12.5°	11455.9	11517.5	11571.0	11667.5	11635.3	11496.0	11088.9	10365.7	9299.7	9106.8
15°	11688.9	11796.0	11916.6	12138.9	12318.3	12353.2	12042.5	11300.5	10084.5	9851.5
17.5°	11771.9	11873.7	12063.9	12385.3	12771.0	13030.8	12891.5	12208.5	10861.2	10593.4
20°	12192.5	12221.9	12337.1	12642.4	13060.3	13491.5	13596.0	13081.7	11630.0	11327.3
22.5°	13092.4	13033.5	13065.6	13204.9	13504.9	13922.8	14161.1	13853.1	12420.1	12071.9
25°	14579.0	14407.6	14236.1	14075.4	14228.1	14463.8	14734.3	14624.5	13247.8	12805.8
27.5°	16456.6	16247.7	15870.0	15342.4	15157.5	15240.6	15361.1	15339.7	14013.8	13566.5
30°	18304.8	18061.0	17611.0	16847.7	16360.2	16140.5	16049.5	15987.9	14846.8	14370.1
32.5°	19780.6	19587.7	19145.8	18291.4	17584.2	17209.3	16906.6	16686.9	15717.3	15240.6
35°	21071.6	20892.2	20385.9	19453.8	18685.1	18286.0	17889.6	17420.9	16622.7	16140.5
37.5°	22250.2	22070.7	21377.0	20407.4	19633.3	19357.4	19003.8	18208.3	17530.7	17075.3
40°	22994.8	22954.6	22306.4	21208.2	20404.7	20268.1	20150.2	19121.7	18537.8	18114.6
42.5°	23184.9	23273.3	22759.1	21856.4	21090.4	20980.6	21256.4	20155.6	19668.1	19263.6
45°	22726.9	22981.4	22643.9	22030.5	21577.9	21518.9	22236.8	21285.9	20919.0	20549.3
47.5°	21567.1	21998.4	21859.1	21773.4	21709.1	21963.6	23099.2	22485.9	22335.9	22014.5
50°	19226.2	20043.1	20286.8	20827.9	21449.3	22309.1	23884.0	23795.6	23991.2	23667.1
52.5°	15179.0	16303.9	17718.2	19073.5	20651.1	22193.9	24746.5	25675.9	26500.9	26324.1
55°	12529.9	13036.2	14123.6	16609.3	19102.9	21709.1	25134.9	27194.6	28991.9	28833.9
57.5°	10494.3	10947.0	11616.6	13692.4	16761.9	20608.2	25375.9	28121.4	30698.1	30682.0
60°	8311.3	8790.8	9476.5	10947.0	14027.2	18706.5	25322.4	29176.7	32875.7	33009.6
62.5°	5847.1	6374.8	7135.5	8506.9	11233.6	16242.3	24229.6	29940.1	35439.0	35803.3
65°	3843.6	4191.8	4765.0	5948.9	8370.3	13073.7	22143.0	30039.2	38181.8	38797.8
67.5°	2694.6	2828.5	3166.0	3808.8	5517.7	10025.6	18819.0	29013.3	40011.2	40704.9
70°	2102.6	2169.6	2341.0	2598.1	3466.0	6741.7	14421.0	26345.6	39620.1	40343.3
72.5°	1816.0	1880.3	1944.6	1976.7	2324.9	4162.4	9768.4	22027.8	35937.2	36427.4
75°	1647.3	1663.3	1716.9	1706.2	1773.2	2699.9	5638.2	16049.5	28354.4	28185.7
77.5°	1384.8	1406.2	1494.6	1481.2	1574.9	1845.5	2927.6	10357.7	18382.4	17236.0
80°	1173.2	1183.9	1280.3	1264.2	1368.7	1336.6	1494.6	5279.3	7797.1	6605.1
82.5°	407.1	503.6	977.6	1007.1	1044.6	808.9	862.5	2153.5	2381.2	1824.0
85°	198.2	211.6	498.2	707.1	704.4	407.1	420.5	768.7	750.0	589.3
87.5°	32.1	40.2	58.9	275.9	219.6	107.1	144.6	150.0	155.4	133.9
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°
6088.2	0°	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2	6088.2
6305.1	2.5°	6155.2	6021.2	5740.0	5480.2	5276.6	5081.1	4971.3	4877.5	4823.9	4813.2
6599.8	5°	6321.2	6045.3	5533.7	5102.5	4821.3	4612.3	4502.5	4432.9	4398.1	4376.6
6996.2	7.5°	6559.6	6155.2	5426.6	4936.4	4641.8	4491.8	4435.6	4424.9	4422.2	4424.9
7475.6	10°	6889.1	6334.6	5415.9	4896.3	4649.8	4566.8	4564.1	4566.8	4577.5	4580.2
7998.0	12.5°	7245.3	6519.4	5458.7	4931.1	4751.6	4706.1	4698.1	4695.4	4703.4	4708.8
8525.6	15°	7633.7	6763.2	5531.1	5006.1	4864.1	4815.9	4807.9	4791.8	4789.1	4786.4
9080.1	17.5°	8032.8	7004.2	5611.4	5086.4	4936.4	4869.5	4840.0	4802.5	4773.1	4765.0
9653.3	20°	8437.2	7242.6	5667.7	5126.6	4941.8	4848.1	4789.1	4724.8	4674.0	4644.5
10231.8	22.5°	8868.5	7491.7	5702.5	5115.9	4893.6	4765.0	4657.9	4582.9	4505.2	4454.3
10815.7	25°	9289.0	7708.7	5699.8	5059.7	4799.8	4636.5	4499.9	4403.4	4296.3	4242.7
11418.4	27.5°	9693.4	7904.2	5632.8	4960.6	4665.9	4483.8	4320.4	4205.2	4100.8	4049.9
12026.4	30°	10111.3	8067.6	5528.4	4815.9	4507.9	4307.0	4127.5	4028.4	3934.7	3886.5
12669.2	32.5°	10526.4	8217.6	5381.1	4636.5	4325.7	4132.9	3956.1	3865.1	3808.8	3808.8
13360.3	35°	10965.7	8322.0	5185.5	4427.5	4132.9	3948.1	3808.8	3755.2	3749.9	3717.7
14091.5	37.5°	11429.1	8389.0	4947.2	4213.3	3942.7	3768.6	3725.8	3661.5	3607.9	3538.3
14895.0	40°	11916.6	8456.0	4660.6	3990.9	3741.8	3645.4	3626.7	3541.0	3388.3	3216.9
15805.7	42.5°	12508.5	8501.5	4363.2	3768.6	3530.2	3498.1	3524.9	3377.6	3133.8	3005.3
16903.9	45°	13194.2	8576.5	4090.0	3549.0	3313.3	3313.3	3425.8	3232.9	3032.0	2951.7
18157.4	47.5°	14083.5	8750.6	3835.6	3307.9	3112.4	3166.0	3206.1	3058.8	2946.3	2847.2
19684.2	50°	15369.1	9168.4	3573.1	3064.2	2959.7	3066.9	3010.6	2924.9	2793.7	2713.3
22110.9	52.5°	16965.5	9414.9	3340.1	2844.5	2828.5	2935.6	2855.3	2774.9	2675.8	2568.7
23951.0	55°	18053.0	9460.4	3144.5	2683.8	2740.1	2729.4	2699.9	2627.6	2574.0	2432.1
25767.0	57.5°	19269.0	9551.5	2983.8	2587.4	2683.8	2566.0	2555.3	2493.7	2424.0	2327.6
27982.1	60°	20723.4	9693.4	2844.5	2549.9	2635.6	2458.8	2405.3	2381.2	2311.5	2263.3
30647.2	62.5°	22309.1	9822.0	2702.6	2555.3	2579.4	2354.4	2274.0	2266.0	2223.1	2207.1
33148.9	65°	23391.2	9471.1	2525.8	2549.9	2491.0	2247.2	2145.5	2142.8	2108.0	2102.6
34233.7	67.5°	23013.5	8359.5	2287.4	2474.9	2399.9	2140.1	2027.6	2016.9	1971.4	1974.0
33100.7	70°	21122.5	6773.9	1958.0	2290.1	2287.4	2043.7	1904.4	1869.6	1808.0	1818.7
28780.3	72.5°	17576.2	5019.5	1516.0	1982.1	2108.0	1955.3	1762.4	1706.2	1628.5	1639.2
21245.7	75°	12693.3	3412.4	1103.5	1508.0	1834.8	1850.8	1623.2	1526.7	1433.0	1449.1
11825.5	77.5°	6495.3	1933.9	811.6	1039.3	1441.0	1682.1	1497.3	1368.7	1347.3	1497.3
3409.7	80°	2118.7	969.6	562.5	728.5	945.5	1376.7	1312.5	1165.1	1159.8	1194.6
715.2	82.5°	632.1	409.8	361.6	479.4	522.3	1055.3	1133.0	881.2	758.0	798.2
238.4	85°	217.0	198.2	206.2	238.4	249.1	618.7	792.8	583.9	551.8	608.0
53.6	87.5°	50.9	69.6	58.9	53.6	53.6	150.0	308.0	243.7	337.5	225.0
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°
6088.2
4813.2
4374.0
4432.9
4582.9
4711.5
4783.8
4773.1
4655.2
4457.0
4242.7
4047.2
3883.8
3811.5
3709.7
3527.6
3192.8
3007.9
2965.1
2844.5
2705.3
2547.2
2434.7
2295.5
2276.7
2207.1
2099.9
1974.0
1829.4
1636.6
1454.4
1475.8
1025.9
825.0
600.0
217.0
0.0

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