

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: P950436

Luminaire Tested: **GALN-SB4D-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38934 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

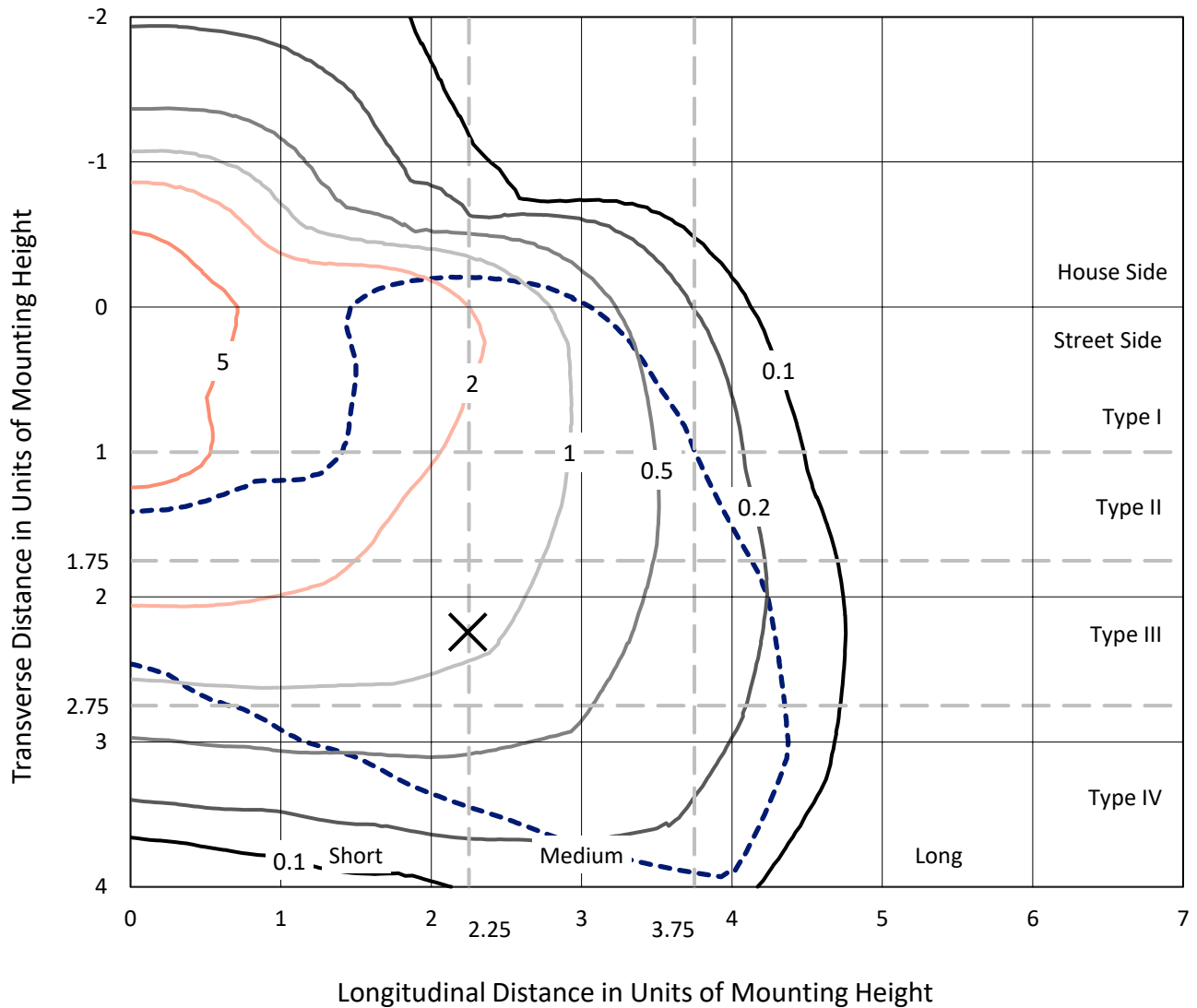
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

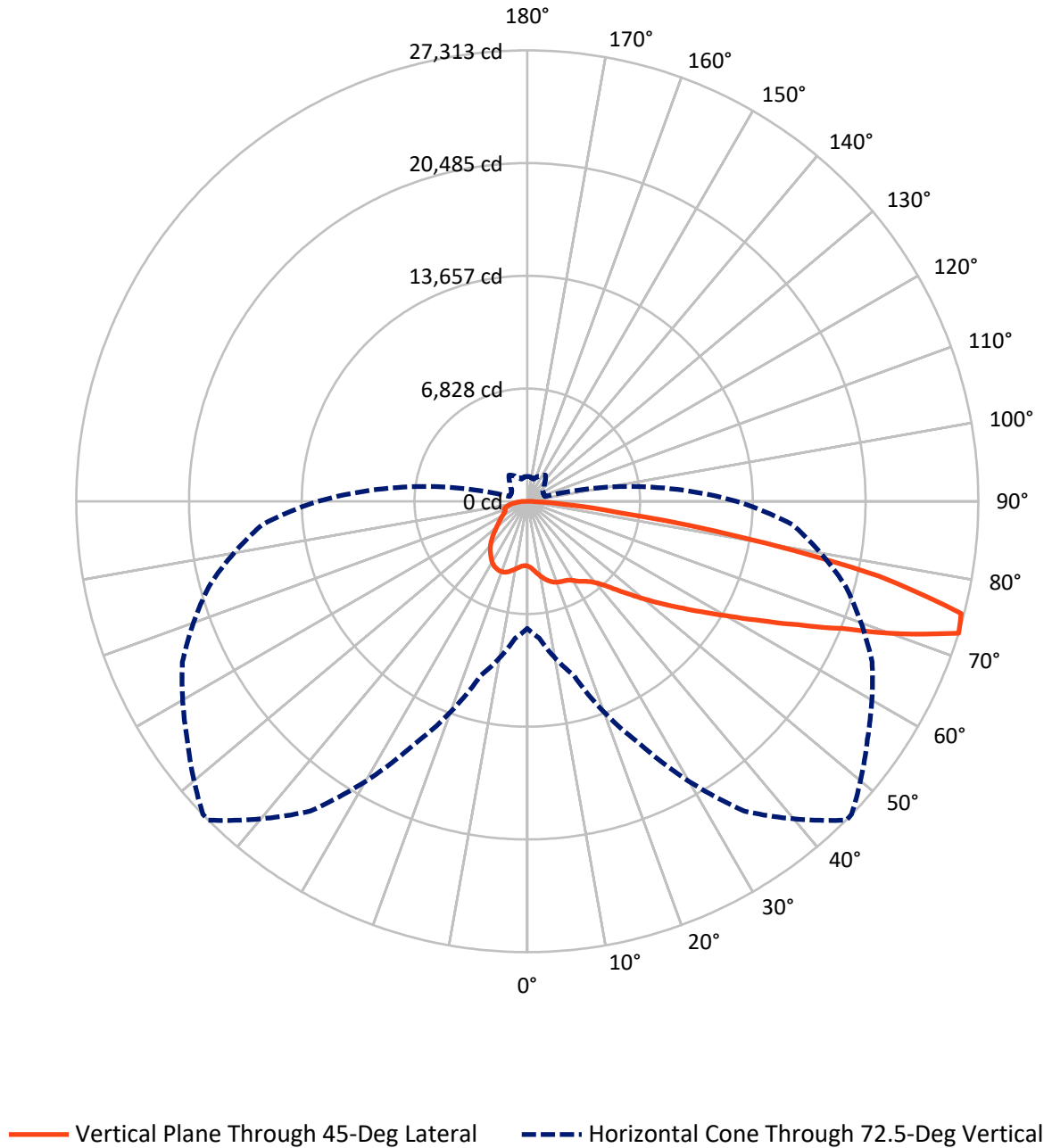
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8801.6	0.0	8801.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30132.4	0.0	30132.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	38934.0	0.0	38934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	1.0
10°-20°	1332.9	3.4
20°-30°	2318.6	6.0
30°-40°	3323.8	8.5
40°-50°	4680.1	12.0
50°-60°	7168.6	18.4
60°-70°	10384.7	26.7
70°-80°	8292.8	21.3
80°-90°	1032.8	2.7
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°	38934.0	100.0
0°-180°	38934.0	100.0



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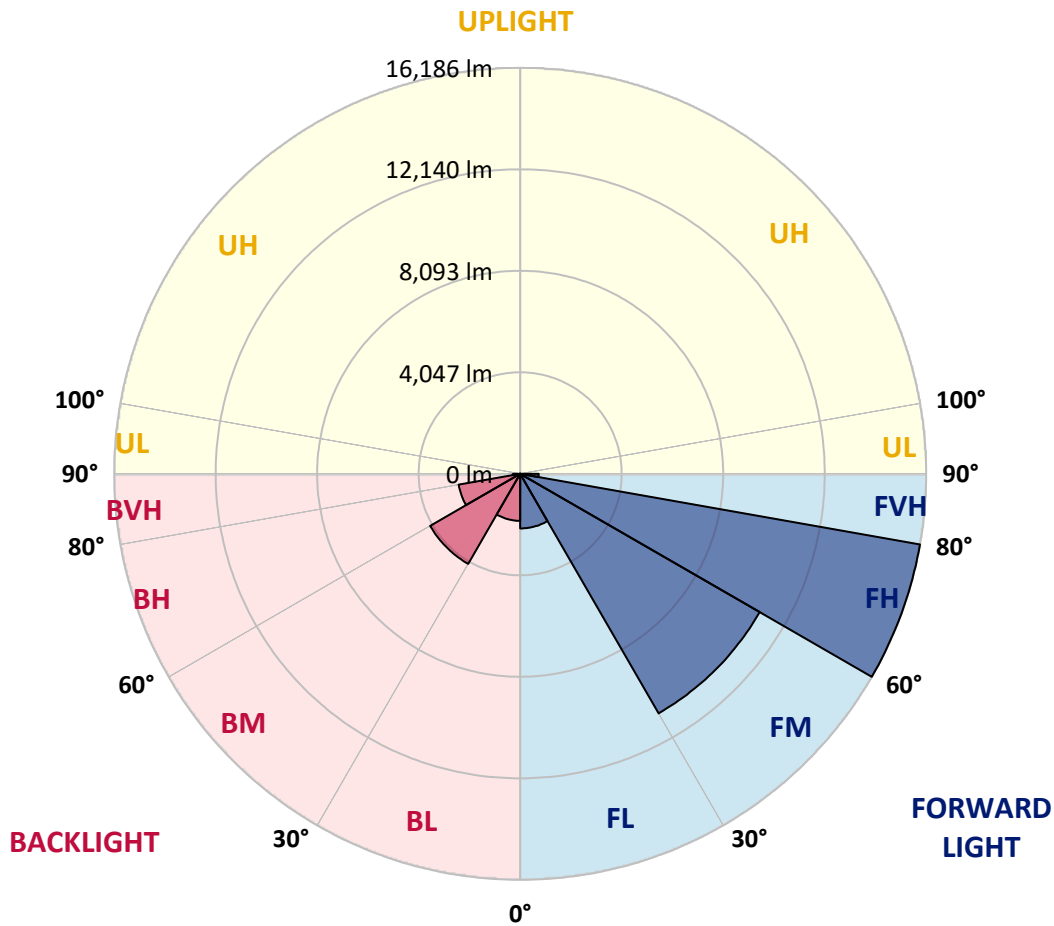
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.2	5.6			
FM (30°-60°)	11028.1	28.3			
FH (60°-80°)	16186.0	41.6			G5
FVH (80°-90°)	741.0	1.9			G4/750
BL (0°-30°)	1873.9	4.8	B3/2500		
BM (30°-60°)	4144.3	10.6	B3/5000		
BH (60°-80°)	2491.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	291.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7
2.5°	4081.5	4108.2	4083.6	4061.0	4050.7	4024.1	4022.0	4005.6	3995.4	3966.7
5°	4366.6	4401.5	4360.4	4315.3	4274.3	4208.7	4200.5	4153.3	4100.0	4038.4
7.5°	4688.6	4719.4	4672.2	4604.5	4532.7	4424.0	4422.0	4335.8	4251.7	4147.1
10°	4969.6	5010.6	4947.0	4854.7	4764.5	4641.4	4627.1	4528.6	4422.0	4286.6
12.5°	5217.8	5246.5	5185.0	5072.1	4967.5	4844.5	4826.0	4717.3	4598.4	4444.5
15°	5414.7	5451.6	5369.5	5248.5	5137.8	5016.8	5000.4	4901.9	4783.0	4620.9
17.5°	5543.9	5574.6	5490.6	5355.2	5248.5	5148.0	5135.7	5053.7	4949.1	4785.0
20°	5593.1	5625.9	5537.7	5400.3	5301.9	5223.9	5217.8	5158.3	5086.5	4936.8
22.5°	5642.3	5673.1	5558.2	5414.7	5328.5	5279.3	5277.2	5238.3	5209.6	5086.5
25°	5841.3	5849.5	5695.7	5488.5	5365.4	5322.4	5320.3	5318.3	5330.6	5234.2
27.5°	6013.6	6011.5	5880.2	5685.4	5494.7	5404.4	5402.4	5422.9	5461.8	5381.8
30°	6265.8	6243.3	6087.4	5884.3	5710.0	5570.5	5558.2	5539.8	5570.5	5507.0
32.5°	6801.1	6729.4	6477.1	6116.1	5888.4	5781.8	5765.4	5650.5	5662.8	5623.9
35°	7568.2	7473.9	7137.5	6555.0	6110.0	5958.2	5950.0	5804.4	5779.7	5744.9
37.5°	8480.9	8364.0	7972.3	7190.8	6491.4	6163.3	6151.0	6019.7	5919.2	5882.3
40°	9397.7	9250.1	8926.0	7966.1	7053.4	6505.8	6466.8	6267.9	6153.0	6091.5
42.5°	10287.9	10164.8	9887.9	8835.7	7746.7	7006.2	6920.1	6579.6	6493.5	6436.1
45°	11075.5	10964.7	10761.6	9764.9	8558.9	7687.2	7603.1	7047.3	7020.6	7020.6
47.5°	11715.4	11690.8	11475.4	10712.4	9516.7	8462.5	8316.8	7697.4	7769.2	7880.0
50°	12425.0	12357.3	12127.6	11645.6	10642.7	9350.6	9231.6	8495.3	8764.0	9067.5
52.5°	13077.2	13114.2	12857.8	12617.8	11914.3	10341.2	10132.0	9436.7	10017.1	10519.6
55°	13747.9	13750.0	13678.2	13645.4	13247.5	11436.4	11206.7	10568.9	11491.8	12115.3
57.5°	14377.6	14381.7	14488.3	14777.5	14793.9	12699.8	12439.4	11959.4	13130.6	13766.4
60°	14939.6	14968.3	15259.5	15936.3	16153.7	14147.9	13901.7	13602.3	14824.7	15464.6
62.5°	15128.2	15232.8	15881.0	16842.9	17497.2	15924.0	15682.0	15503.6	16605.0	17199.8
65°	14808.3	15048.3	16301.4	17591.5	18879.5	18034.5	17794.6	17599.7	18455.0	19014.9
67.5°	14022.8	14332.5	16276.8	18377.0	20557.3	20573.7	20350.1	19892.7	20438.3	20653.7
70°	11953.3	12416.8	14843.2	18670.3	22483.2	24046.0	23830.7	22653.4	22417.5	21375.6
72.5°	7701.5	8325.0	10929.8	16256.3	22911.8	27313.3	27301.0	25145.4	23043.1	19972.7
75°	2809.9	3191.4	5078.3	10203.8	19232.3	27147.2	27227.1	24718.8	21035.2	15427.7
77.5°	1023.5	1119.9	1657.2	3921.5	11828.2	21781.7	21947.9	19761.5	14972.4	7742.6
80°	537.4	590.7	849.1	1521.8	5068.0	12935.7	13196.2	11744.1	7037.0	2332.0
82.5°	297.4	322.0	475.8	826.6	2282.8	5531.6	5687.4	4639.4	2475.6	988.6
85°	160.0	170.2	223.6	451.2	1115.7	1917.7	1960.8	1386.5	986.5	580.4
87.5°	47.2	57.4	73.8	143.6	436.9	430.7	441.0	274.8	389.7	293.3
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°
3927.7	0°	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7	3927.7
3958.4	2.5°	3946.1	3940.0	3917.4	3907.2	3894.9	3892.8	3903.1	3905.1	3907.2	3909.2
4003.6	5°	3983.1	3962.5	3942.0	3929.7	3933.8	3935.9	3956.4	3970.8	3981.0	3989.2
4087.7	7.5°	4054.8	4038.4	4003.6	4001.5	4007.7	4026.1	4052.8	4085.6	4104.1	4118.4
4196.4	10°	4161.5	4130.7	4089.7	4095.9	4108.2	4134.8	4190.2	4216.9	4247.6	4274.3
4329.7	12.5°	4270.2	4243.5	4196.4	4200.5	4221.0	4268.2	4321.5	4354.3	4374.8	4395.3
4473.3	15°	4411.7	4364.5	4313.3	4313.3	4350.2	4401.5	4426.1	4452.7	4465.0	4487.6
4627.1	17.5°	4557.3	4495.8	4428.1	4424.0	4469.1	4493.8	4508.1	4512.2	4516.3	4540.9
4776.8	20°	4703.0	4635.3	4538.9	4530.7	4540.9	4536.8	4534.8	4530.7	4536.8	4567.6
4930.6	22.5°	4846.5	4768.6	4635.3	4598.4	4569.6	4530.7	4528.6	4526.6	4530.7	4561.4
5096.8	25°	5014.7	4920.4	4741.9	4631.2	4534.8	4481.5	4487.6	4489.7	4493.8	4518.4
5269.0	27.5°	5197.3	5092.7	4840.4	4620.9	4446.6	4409.7	4399.4	4405.6	4419.9	4458.9
5441.3	30°	5379.8	5256.7	4930.6	4579.9	4335.8	4284.6	4251.7	4266.1	4311.2	4350.2
5591.1	32.5°	5545.9	5422.9	5002.4	4489.7	4194.3	4114.3	4071.3	4089.7	4134.8	4149.2
5757.2	35°	5740.8	5601.3	5033.2	4346.1	4040.5	3917.4	3860.0	3833.3	3855.9	3841.5
5952.0	37.5°	5958.2	5812.6	5029.1	4157.4	3860.0	3718.5	3638.5	3538.0	3490.8	3441.6
6239.2	40°	6280.2	6071.0	4979.9	3929.7	3636.4	3507.2	3363.7	3193.4	3086.8	2990.4
6702.7	42.5°	6719.1	6429.9	4889.6	3679.5	3384.2	3263.2	3068.3	2869.4	2701.2	2541.2
7406.2	45°	7373.4	6899.6	4776.8	3412.9	3111.4	2992.4	2781.2	2557.6	2366.9	2161.8
8405.0	47.5°	8316.8	7531.3	4670.1	3109.3	2824.2	2715.5	2524.8	2317.6	2092.0	1893.1
9848.9	50°	9613.1	8437.9	4571.7	2814.0	2541.2	2459.2	2307.4	2096.1	1868.5	1708.5
11541.0	52.5°	11262.1	9670.5	4530.7	2528.9	2276.6	2245.9	2124.8	1927.9	1712.6	1577.2
13514.1	55°	13155.2	11145.2	4530.7	2256.1	2044.9	2055.1	1971.0	1788.5	1601.8	1480.8
15548.7	57.5°	15087.2	12638.3	4448.6	2003.8	1848.0	1891.0	1837.7	1677.7	1509.5	1384.4
17687.9	60°	16867.5	13889.4	4116.4	1774.1	1673.6	1741.3	1706.4	1569.0	1363.9	1259.3
19476.4	62.5°	18235.5	14595.0	3476.5	1591.6	1530.1	1608.0	1589.5	1425.5	1337.3	1294.2
20944.9	65°	18920.6	14480.1	2658.1	1429.6	1409.0	1530.1	1491.1	1484.9	1415.2	1366.0
21422.8	67.5°	18500.1	13491.5	1927.9	1310.6	1339.3	1458.3	1608.0	1632.6	1503.4	1407.0
20077.3	70°	16656.2	11703.1	1435.7	1197.8	1251.1	1460.3	1833.6	1708.5	1474.7	1361.9
16102.5	72.5°	12671.1	8727.0	1113.7	1078.8	1136.3	1470.6	1934.1	1673.6	1392.6	1505.4
10031.5	75°	7246.2	4791.2	894.2	933.2	992.7	1374.2	1882.8	1583.4	1329.1	1382.4
3974.9	77.5°	2762.7	1841.8	738.4	789.6	797.8	1199.8	1800.8	1577.2	1265.5	1234.7
1191.6	80°	957.8	719.9	611.2	627.6	617.4	1066.5	1726.9	1372.1	1035.8	927.1
492.2	82.5°	391.7	358.9	484.0	463.5	438.9	828.6	1394.7	1121.9	847.1	748.6
237.9	85°	170.2	227.7	320.0	281.0	254.3	574.3	1117.8	949.6	715.8	617.4
77.9	87.5°	34.9	86.1	135.4	127.2	131.3	383.5	793.7	674.8	506.6	379.4
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°
3927.7
3917.4
3993.3
4122.5
4268.2
4403.5
4495.8
4549.1
4579.9
4582.0
4551.2
4497.9
4393.3
4200.5
3886.7
3472.4
2996.5
2526.8
2137.2
1870.5
1698.2
1567.0
1468.5
1363.9
1242.9
1279.8
1349.6
1390.6
1343.4
1493.1
1382.4
1126.0
896.3
740.4
615.3
297.4
0.0

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