

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: P950268

Luminaire Tested: **GALN-SB4D-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950268
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40704 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

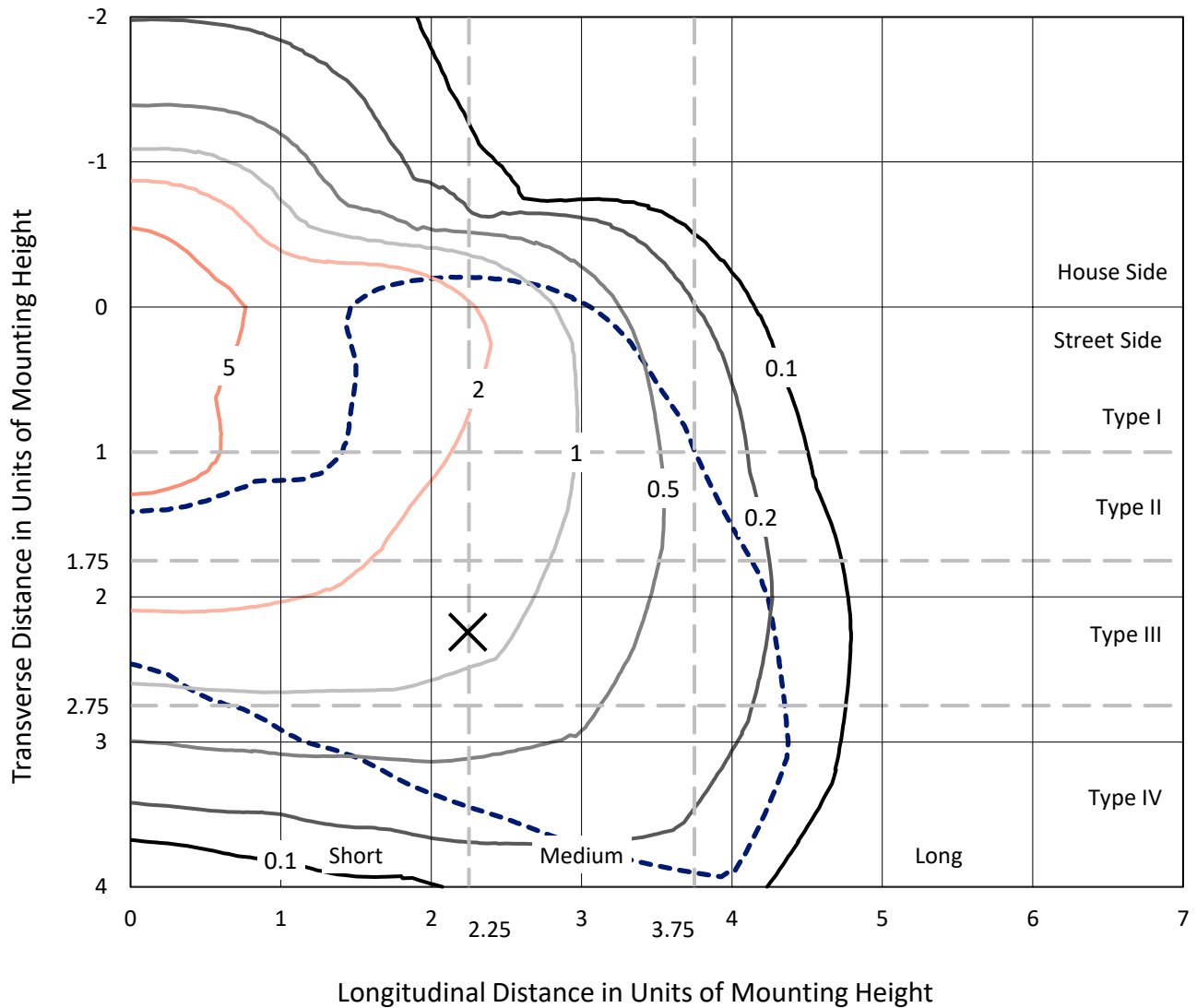
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

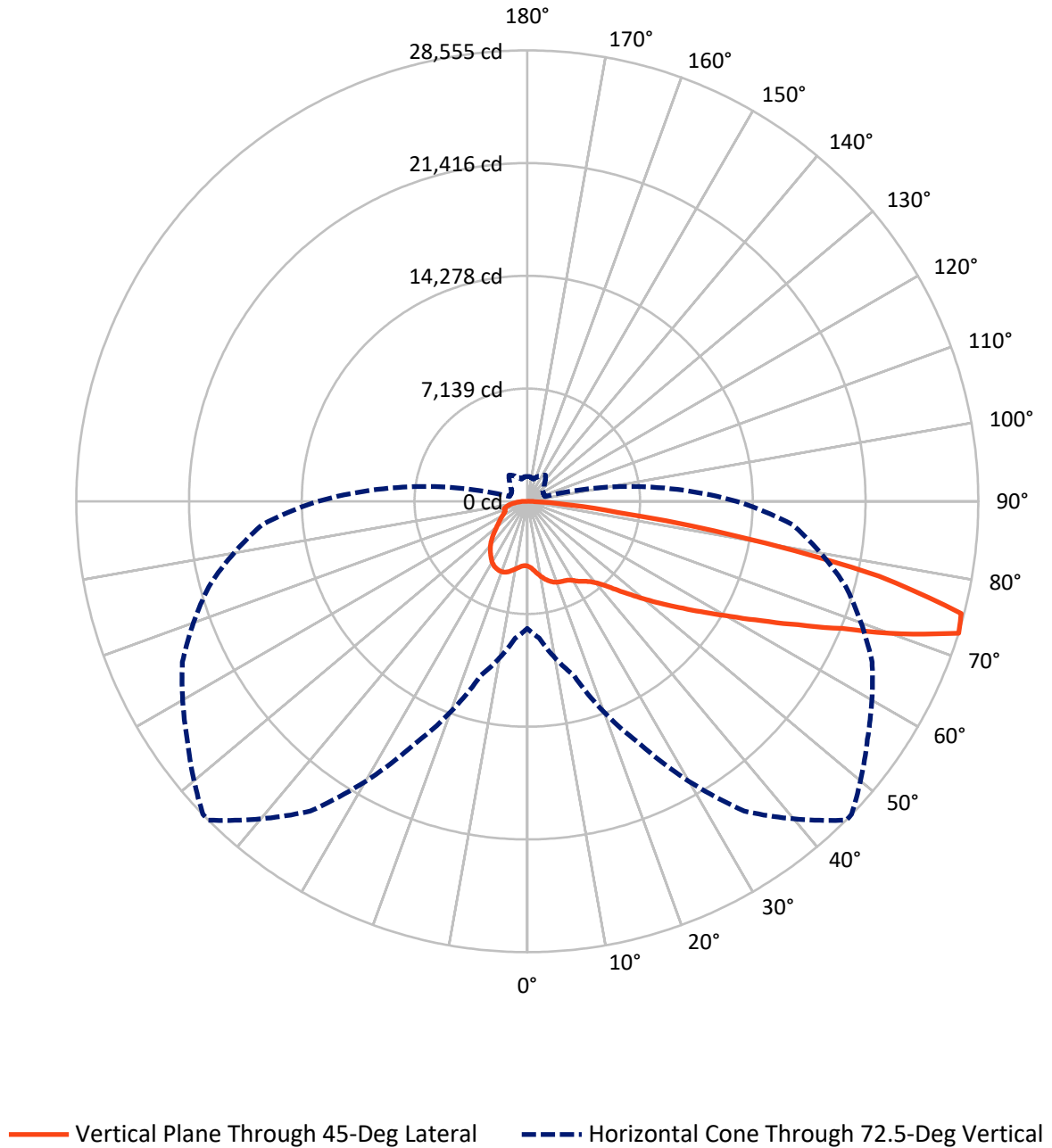
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	9201.8	0.0	9201.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	31502.2	0.0	31502.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	40704.0	0.0	40704.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.0
10°-20°	1393.4	3.4
20°-30°	2424.0	6.0
30°-40°	3474.9	8.5
40°-50°	4892.9	12.0
50°-60°	7494.4	18.4
60°-70°	10856.8	26.7
70°-80°	8669.8	21.3
80°-90°	1079.8	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°	40704.0	100.0
0°-180°	40704.0	100.0



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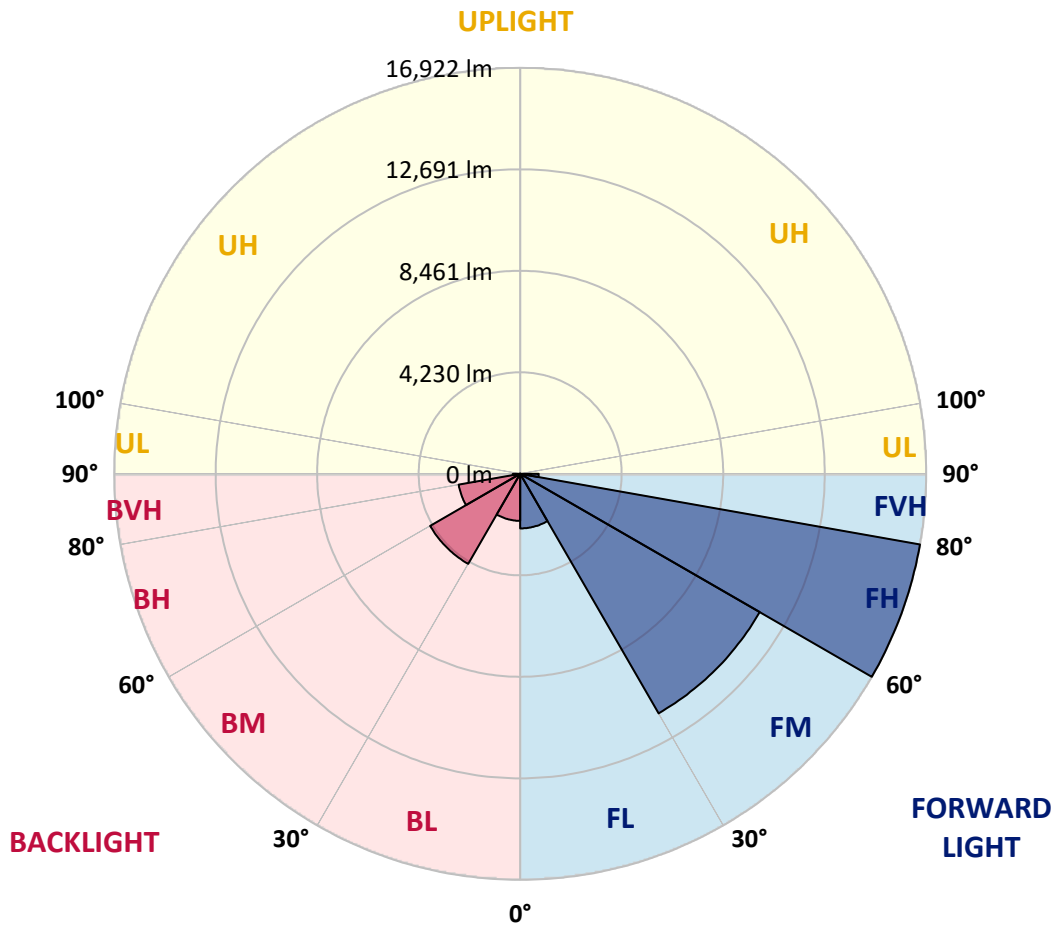
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.2	5.6			
FM (30°-60°)	11529.5	28.3			
FH (60°-80°)	16921.8	41.6			G5
FVH (80°-90°)	774.6	1.9			G5
BL (0°-30°)	1959.1	4.8	B3/2500		
BM (30°-60°)	4332.7	10.6	B3/5000		
BH (60°-80°)	2604.8	6.4	B4/5000		G4/5000
BVH (80°-90°)	305.1	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2
2.5°	4267.1	4294.9	4269.2	4245.6	4234.9	4207.0	4204.9	4187.7	4177.0	4147.0
5°	4565.1	4601.6	4558.7	4511.5	4468.6	4400.0	4391.4	4342.1	4286.4	4222.0
7.5°	4901.8	4933.9	4884.6	4813.8	4738.8	4625.2	4623.0	4532.9	4445.0	4335.7
10°	5195.5	5238.4	5171.9	5075.4	4981.1	4852.4	4837.4	4734.5	4623.0	4481.5
12.5°	5455.0	5485.0	5420.7	5302.7	5193.4	5064.7	5045.4	4931.8	4807.4	4646.6
15°	5660.8	5699.4	5613.7	5487.1	5371.3	5244.8	5227.7	5124.8	5000.4	4831.0
17.5°	5795.9	5828.1	5740.2	5598.6	5487.1	5382.1	5369.2	5283.4	5174.1	5002.5
20°	5847.4	5881.7	5789.5	5645.8	5542.9	5461.4	5455.0	5392.8	5317.7	5161.2
22.5°	5898.8	5931.0	5810.9	5660.8	5570.8	5519.3	5517.2	5476.4	5446.4	5317.7
25°	6106.8	6115.4	5954.6	5738.0	5609.4	5564.3	5562.2	5560.0	5572.9	5472.1
27.5°	6286.9	6284.8	6147.6	5943.9	5744.4	5650.1	5648.0	5669.4	5710.1	5626.5
30°	6550.7	6527.1	6364.1	6151.9	5969.6	5823.8	5810.9	5791.6	5823.8	5757.3
32.5°	7110.3	7035.3	6771.5	6394.2	6156.1	6044.6	6027.5	5907.4	5920.3	5879.5
35°	7912.3	7813.7	7462.0	6853.0	6387.7	6229.1	6220.5	6068.2	6042.5	6006.0
37.5°	8866.5	8744.3	8334.7	7517.7	6786.6	6443.5	6430.6	6293.4	6188.3	6149.7
40°	9825.0	9670.6	9331.8	8328.3	7374.1	6801.6	6760.8	6552.8	6432.8	6368.4
42.5°	10755.6	10626.9	10337.4	9237.4	8098.8	7324.8	7234.7	6878.8	6788.7	6728.7
45°	11579.0	11463.2	11250.9	10208.8	8948.0	8036.7	7948.7	7367.6	7339.8	7339.8
47.5°	12248.0	12222.2	11997.1	11199.4	9949.3	8847.2	8694.9	8047.4	8122.4	8238.2
50°	12989.9	12919.1	12679.0	12175.1	11126.5	9775.6	9651.3	8881.5	9162.4	9479.7
52.5°	13671.7	13710.3	13442.3	13191.4	12456.0	10811.3	10592.6	9865.7	10472.5	10997.9
55°	14372.9	14375.1	14300.0	14265.7	13849.7	11956.3	11716.2	11049.3	12014.2	12666.1
57.5°	15031.2	15035.5	15147.0	15449.3	15466.5	13277.2	13004.9	12503.1	13727.5	14392.2
60°	15618.7	15648.7	15953.2	16660.8	16888.1	14791.0	14533.7	14220.7	15498.6	16167.7
62.5°	15816.0	15925.4	16602.9	17608.6	18292.6	16648.0	16394.9	16208.4	17359.9	17981.7
65°	15481.5	15732.4	17042.5	18391.2	19737.8	18854.4	18603.5	18399.8	19294.0	19879.4
67.5°	14660.2	14984.0	17016.8	19212.5	21491.8	21509.0	21275.3	20797.1	21367.5	21592.6
70°	12496.7	12981.3	15517.9	19519.1	23505.3	25139.2	24914.1	23683.3	23436.7	22347.4
72.5°	8051.7	8703.5	11426.7	16995.3	23953.4	28555.0	28542.1	26288.5	24090.7	20880.7
75°	2937.6	3336.5	5309.2	10667.7	20106.6	28381.3	28464.9	25842.5	21991.4	16129.1
77.5°	1070.0	1170.8	1732.6	4099.8	12365.9	22771.9	22945.6	20659.9	15653.0	8094.5
80°	561.8	617.5	887.7	1591.0	5298.4	13523.8	13796.1	12278.0	7356.9	2438.0
82.5°	310.9	336.6	497.5	864.1	2386.6	5783.0	5946.0	4850.3	2588.1	1033.5
85°	167.3	178.0	233.7	471.7	1166.5	2004.9	2049.9	1449.5	1031.4	606.8
87.5°	49.3	60.0	77.2	150.1	456.7	450.3	461.0	287.3	407.4	306.6
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°
4106.2	0°	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2	4106.2
4138.4	2.5°	4125.5	4119.1	4095.5	4084.8	4071.9	4069.8	4080.5	4082.7	4084.8	4086.9
4185.6	5°	4164.1	4142.7	4121.3	4108.4	4112.7	4114.8	4136.3	4151.3	4162.0	4170.6
4273.5	7.5°	4239.2	4222.0	4185.6	4183.4	4189.9	4209.2	4237.0	4271.3	4290.6	4305.7
4387.1	10°	4350.7	4318.5	4275.6	4282.1	4294.9	4322.8	4380.7	4408.6	4440.7	4468.6
4526.5	12.5°	4464.3	4436.5	4387.1	4391.4	4412.9	4462.2	4517.9	4552.2	4573.7	4595.1
4676.6	15°	4612.3	4563.0	4509.4	4509.4	4548.0	4601.6	4627.3	4655.2	4668.0	4691.6
4837.4	17.5°	4764.5	4700.2	4629.4	4625.2	4672.3	4698.1	4713.1	4717.4	4721.6	4747.4
4994.0	20°	4916.8	4846.0	4745.2	4736.7	4747.4	4743.1	4740.9	4736.7	4743.1	4775.2
5154.8	22.5°	5066.9	4985.4	4846.0	4807.4	4777.4	4736.7	4734.5	4732.4	4736.7	4768.8
5328.5	25°	5242.7	5144.1	4957.5	4841.7	4740.9	4685.2	4691.6	4693.8	4698.1	4723.8
5508.6	27.5°	5433.5	5324.2	5060.4	4831.0	4648.7	4610.1	4599.4	4605.9	4620.9	4661.6
5688.7	30°	5624.4	5495.7	5154.8	4788.1	4532.9	4479.3	4445.0	4460.0	4507.2	4548.0
5845.2	32.5°	5798.1	5669.4	5229.8	4693.8	4385.0	4301.4	4256.3	4275.6	4322.8	4337.8
6018.9	35°	6001.8	5856.0	5262.0	4543.7	4224.2	4095.5	4035.5	4007.6	4031.2	4016.2
6222.6	37.5°	6229.1	6076.8	5257.7	4346.4	4035.5	3887.5	3803.9	3698.8	3649.5	3598.1
6522.8	40°	6565.7	6347.0	5206.2	4108.4	3801.8	3666.7	3516.6	3338.6	3227.1	3126.3
7007.4	42.5°	7024.6	6722.2	5111.9	3846.8	3538.0	3411.5	3207.8	2999.8	2824.0	2656.7
7742.9	45°	7708.6	7213.3	4994.0	3568.0	3252.8	3128.5	2907.6	2673.9	2474.5	2260.0
8787.1	47.5°	8694.9	7873.7	4882.5	3250.7	2952.6	2839.0	2639.6	2423.0	2187.1	1979.1
10296.7	50°	10050.1	8821.5	4779.5	2941.9	2656.7	2571.0	2412.3	2191.4	1953.4	1786.2
12065.7	52.5°	11774.1	10110.1	4736.7	2643.9	2380.1	2348.0	2221.4	2015.6	1790.4	1648.9
14128.5	55°	13753.2	11651.9	4736.7	2358.7	2137.8	2148.5	2060.6	1869.8	1674.7	1548.1
16255.6	57.5°	15773.1	13212.9	4650.9	2094.9	1932.0	1977.0	1921.2	1754.0	1578.2	1447.4
18492.0	60°	17634.3	14520.9	4303.5	1854.8	1749.7	1820.5	1784.0	1640.4	1425.9	1316.6
20361.8	62.5°	19064.5	15258.5	3634.5	1663.9	1599.6	1681.1	1661.8	1490.3	1398.1	1353.0
21897.1	65°	19780.7	15138.4	2778.9	1494.5	1473.1	1599.6	1558.9	1552.4	1479.5	1428.1
22396.7	67.5°	19341.1	14104.9	2015.6	1370.2	1400.2	1524.6	1681.1	1706.8	1571.7	1471.0
20990.1	70°	17413.5	12235.1	1501.0	1252.2	1308.0	1526.7	1917.0	1786.2	1541.7	1423.8
16834.5	72.5°	13247.2	9123.8	1164.3	1127.9	1187.9	1537.4	2022.0	1749.7	1455.9	1573.9
10487.5	75°	7575.6	5009.0	934.9	975.6	1037.8	1436.6	1968.4	1655.4	1389.5	1445.2
4155.6	77.5°	2888.3	1925.5	771.9	825.5	834.1	1254.4	1882.7	1648.9	1323.0	1290.8
1245.8	80°	1001.4	752.6	639.0	656.1	645.4	1115.0	1805.5	1434.5	1082.8	969.2
514.6	82.5°	409.6	375.2	506.0	484.6	458.9	866.3	1458.1	1172.9	885.6	782.7
248.7	85°	178.0	238.0	334.5	293.8	265.9	600.4	1168.6	992.8	748.3	645.4
81.5	87.5°	36.5	90.1	141.5	132.9	137.2	401.0	829.8	705.5	529.6	396.7
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°
4106.2
4095.5
4174.9
4309.9
4462.2
4603.7
4700.2
4755.9
4788.1
4790.3
4758.1
4702.3
4593.0
4391.4
4063.4
3630.2
3132.8
2641.7
2234.3
1955.6
1775.4
1638.2
1535.3
1425.9
1299.4
1338.0
1410.9
1453.8
1404.5
1561.0
1445.2
1177.2
937.0
774.1
643.3
310.9
0.0

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