

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: P943587

Luminaire Tested: **GALN-SB8A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34719 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

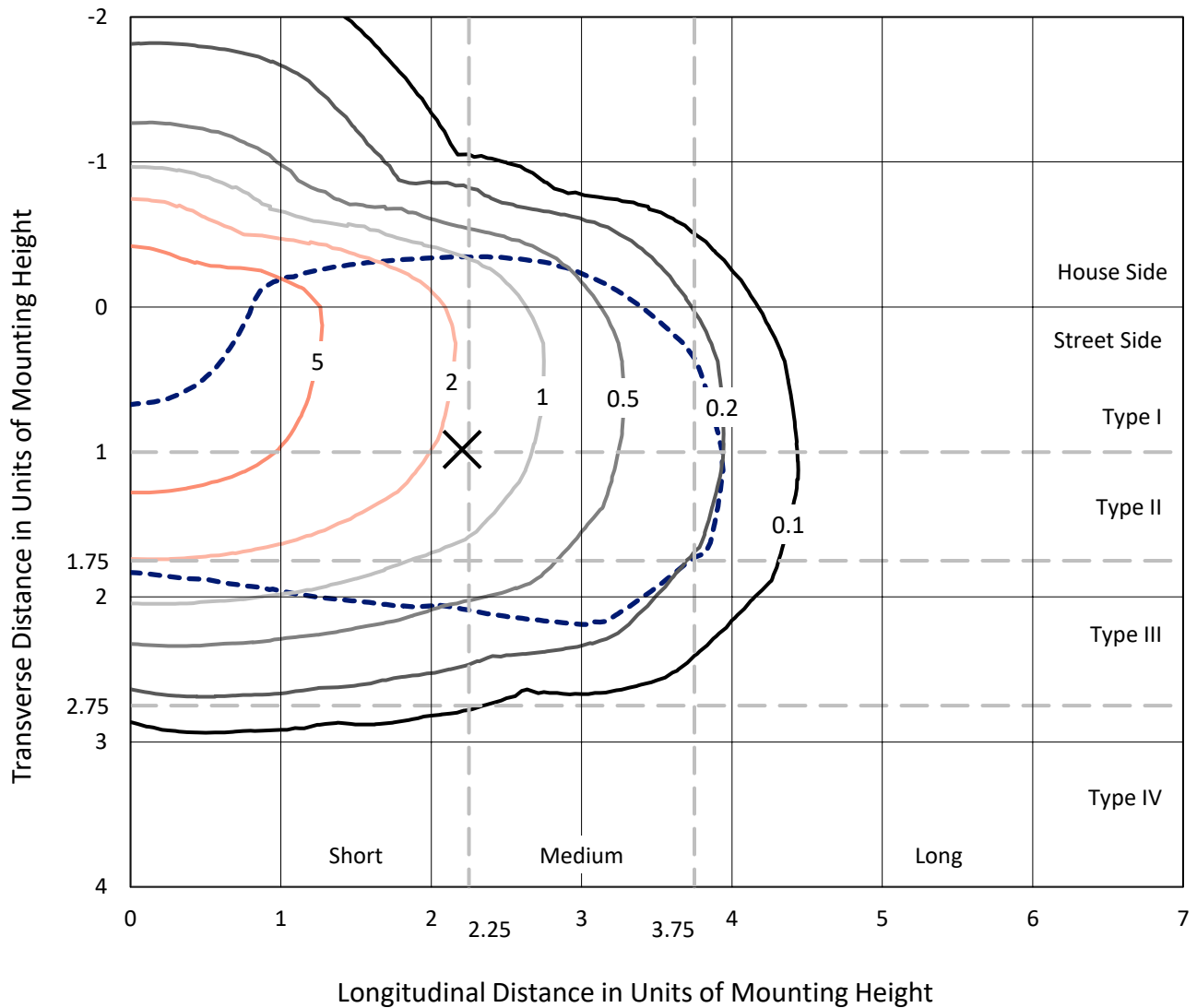
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

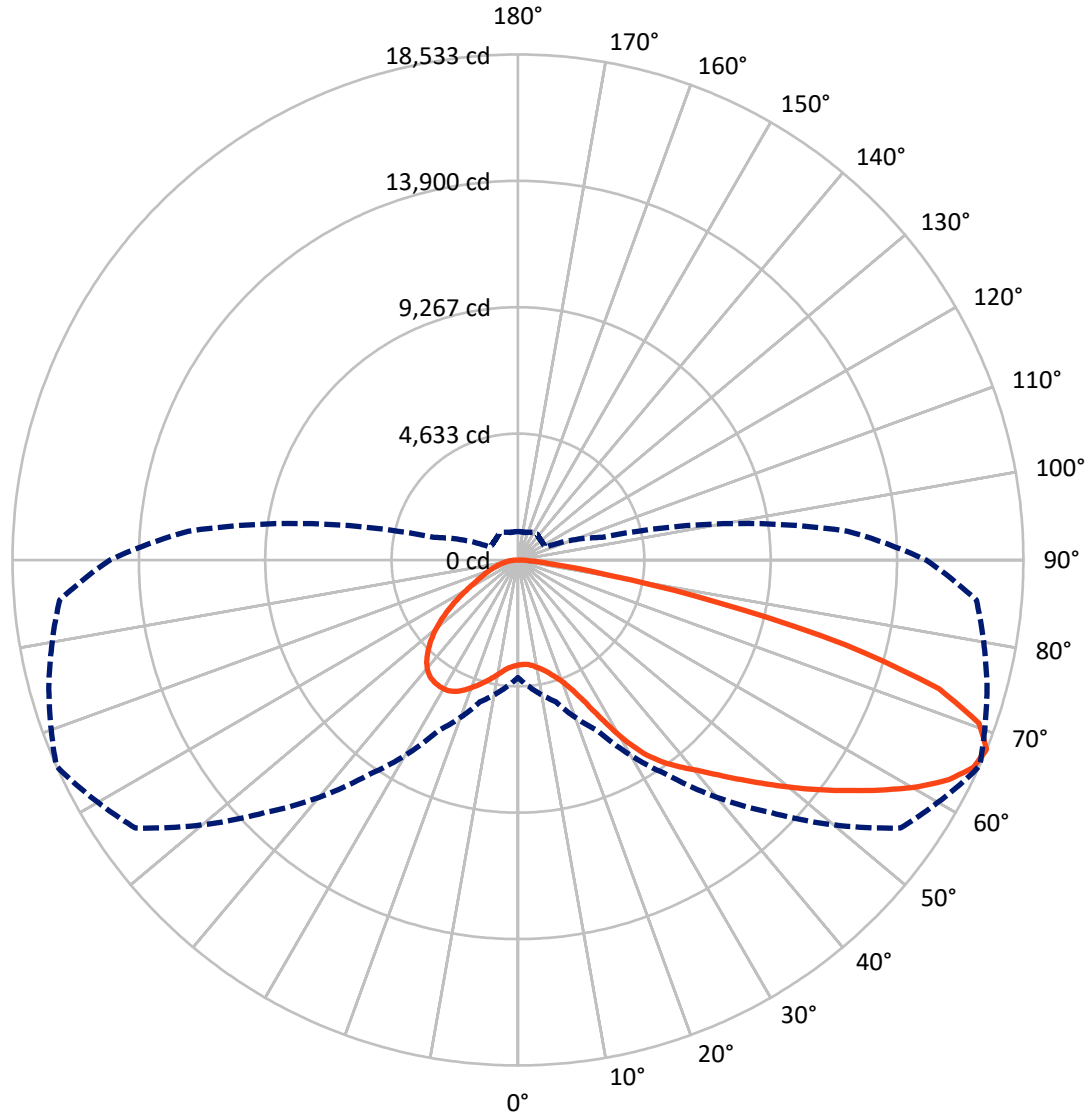
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8632.8	0.0	8632.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26086.2	0.0	26086.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	34719.0	0.0	34719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.8	1.1
10°-20°	1261.4	3.6
20°-30°	2431.3	7.0
30°-40°	4262.9	12.3
40°-50°	6337.5	18.3
50°-60°	8033.4	23.1
60°-70°	7860.5	22.6
70°-80°	3749.5	10.8
80°-90°	400.7	1.2
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°	34719.0	100.0
0°-180°	34719.0	100.0

Coefficient of Utilization



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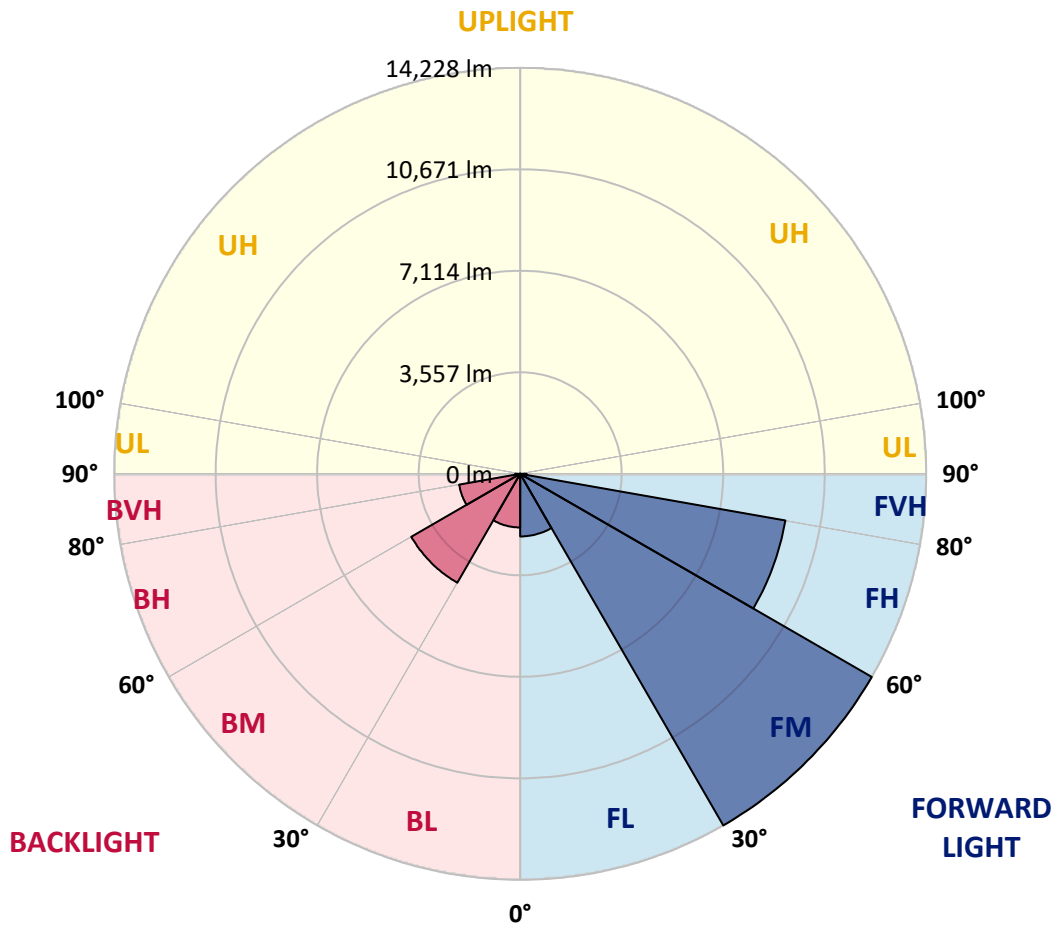
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.9	6.3			
FM (30°-60°)	14227.6	41.0			
FH (60°-80°)	9437.6	27.2			G4/12000
FVH (80°-90°)	227.2	0.7			G3/500
BL (0°-30°)	1880.5	5.4	B3/2500		
BM (30°-60°)	4406.3	12.7	B3/5000		
BH (60°-80°)	2172.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	173.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8
2.5°	3810.7	3832.6	3827.1	3818.0	3816.1	3819.8	3825.3	3830.7	3828.9	3838.0
5°	3799.7	3821.6	3819.8	3819.8	3827.1	3841.7	3850.8	3859.9	3850.8	3861.7
7.5°	3807.0	3823.4	3830.7	3838.0	3856.3	3883.6	3905.5	3925.6	3914.6	3927.4
10°	3900.0	3912.8	3920.1	3920.1	3932.9	3963.9	3985.8	4022.3	4013.1	4033.2
12.5°	4069.7	4082.5	4082.5	4075.2	4084.3	4104.4	4111.7	4151.8	4135.4	4168.2
15°	4277.6	4303.2	4283.1	4270.4	4274.0	4294.1	4292.2	4323.3	4306.8	4334.2
17.5°	4507.5	4540.3	4507.5	4505.7	4498.4	4520.3	4522.1	4549.4	4520.3	4540.3
20°	4779.3	4824.9	4797.5	4806.7	4790.2	4799.4	4808.5	4848.6	4803.0	4817.6
22.5°	5162.4	5217.1	5187.9	5222.6	5211.6	5204.3	5202.5	5273.6	5202.5	5208.0
25°	5720.6	5786.2	5735.2	5782.6	5782.6	5806.3	5833.7	5924.9	5806.3	5771.6
27.5°	6545.1	6610.7	6510.4	6539.6	6530.5	6588.9	6559.7	6785.9	6658.2	6601.6
30°	7537.4	7654.2	7464.5	7457.2	7448.0	7541.1	7583.0	7732.6	7603.1	7546.5
32.5°	8610.0	8732.2	8506.0	8440.4	8405.7	8462.3	8427.6	8548.0	8458.6	8371.1
35°	9744.6	9865.0	9649.8	9522.1	9383.5	9264.9	9140.9	9171.9	9088.0	8954.8
37.5°	10817.3	11038.0	10810.0	10673.1	10417.8	10186.1	9839.5	9695.4	9617.0	9494.7
40°	11909.9	12035.8	11862.5	11745.7	11468.5	11105.5	10550.9	10246.3	10140.5	10021.9
42.5°	12714.4	12834.8	12741.7	12661.5	12444.4	12023.0	11306.1	10924.9	10771.6	10638.5
45°	13352.8	13442.2	13383.8	13413.0	13320.0	12911.4	12088.7	11652.7	11494.0	11331.7
47.5°	13610.0	13704.9	13797.9	13971.2	14129.9	13828.9	12929.6	12440.8	12272.9	12106.9
50°	13580.9	13677.5	13947.5	14316.0	14808.5	14708.2	13816.2	13279.9	13124.8	12935.1
52.5°	13347.4	13456.8	13803.4	14416.3	15200.7	15366.7	14719.1	14146.3	14000.4	13774.2
55°	12734.4	12800.1	13320.0	14188.3	15293.7	15826.4	15603.8	15069.4	14923.4	14607.9
57.5°	11598.0	11692.8	12449.9	13573.6	15060.2	16138.3	16380.9	16039.8	15899.4	15445.1
60°	10115.0	10266.4	11132.8	12541.1	14465.6	16136.5	17086.9	16993.8	16877.1	16269.7
62.5°	8436.7	8611.8	9445.5	11081.8	13425.8	15678.6	17528.3	17792.8	17732.6	17030.3
65°	6479.4	6599.8	7429.8	9193.8	11807.8	14695.4	17579.4	18338.3	18349.2	17608.6
67.5°	4314.1	4660.7	5381.3	6899.0	9640.7	13088.3	17130.7	18427.6	18533.4	17807.4
70°	2105.1	2561.1	3267.1	4483.8	6899.0	10623.9	15957.7	17694.3	17929.6	17227.3
72.5°	873.8	1021.5	1406.4	2212.7	3960.2	7168.9	13600.9	15706.0	16142.0	15264.5
75°	589.2	638.5	804.5	1134.6	1804.1	3535.2	9808.5	11711.1	12413.4	11528.7
77.5°	454.2	485.2	585.6	793.5	1072.6	1337.1	5249.9	7057.7	7420.7	6869.8
80°	357.5	381.2	437.8	578.3	760.7	715.1	1789.5	3197.7	3407.5	2858.5
82.5°	310.1	319.2	313.8	392.2	505.3	417.7	587.4	1180.2	1302.4	944.9
85°	224.4	249.9	260.9	242.6	268.2	211.6	240.8	417.7	459.7	410.4
87.5°	91.2	135.0	166.0	156.9	98.5	60.2	74.8	122.2	140.5	153.2
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°
3850.8	0°	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8	3850.8
3852.6	2.5°	3854.4	3867.2	3876.3	3887.3	3894.6	3905.5	3927.4	3940.2	3942.0	3951.1
3881.8	5°	3889.1	3907.3	3927.4	3956.6	3989.4	4016.8	4058.7	4087.9	4098.9	4108.0
3952.9	7.5°	3963.9	3989.4	4025.9	4077.0	4124.4	4160.9	4212.0	4246.6	4281.3	4294.1
4066.0	10°	4075.2	4111.7	4164.6	4233.9	4284.9	4332.4	4385.3	4414.5	4449.1	4463.7
4201.0	12.5°	4213.8	4252.1	4321.4	4418.1	4465.5	4498.4	4516.6	4509.3	4516.6	4529.4
4363.4	15°	4372.5	4414.5	4492.9	4596.9	4629.7	4600.5	4560.4	4523.9	4518.4	4522.1
4560.4	17.5°	4560.4	4591.4	4682.6	4770.2	4746.5	4626.1	4538.5	4480.1	4450.9	4441.8
4812.1	20°	4823.1	4823.1	4897.9	4952.6	4793.9	4589.6	4452.8	4357.9	4297.7	4272.2
5155.1	22.5°	5142.3	5113.1	5160.5	5122.2	4784.8	4487.4	4297.7	4133.5	4042.3	4005.8
5634.8	25°	5547.3	5512.6	5499.8	5262.7	4719.1	4325.1	4016.8	3818.0	3737.7	3717.6
6326.2	27.5°	6158.4	6070.8	5904.8	5339.3	4598.7	4069.7	3688.4	3504.2	3458.6	3460.4
7214.5	30°	6971.9	6796.8	6390.0	5352.1	4401.7	3708.5	3352.8	3221.5	3199.6	3208.7
7960.6	32.5°	7725.3	7559.3	6886.2	5293.7	4098.9	3354.6	3051.8	2964.3	2931.4	2942.4
8529.8	35°	8316.3	8270.7	7345.9	5211.6	3726.8	3022.6	2781.8	2707.0	2643.2	2628.6
9066.1	37.5°	8874.5	8856.3	7690.6	5096.7	3358.3	2787.3	2564.8	2466.3	2373.2	2322.2
9658.9	40°	9487.4	9469.2	7916.8	4919.8	3031.7	2583.0	2369.6	2240.1	2125.1	2032.1
10330.2	42.5°	10177.0	10069.3	8024.5	4666.2	2754.5	2409.7	2210.9	2035.8	1884.4	1798.6
11089.1	45°	10930.4	10687.7	8022.6	4343.3	2521.0	2251.0	2041.2	1793.1	1652.7	1572.4
11868.0	47.5°	11729.3	11278.8	7924.1	3985.8	2294.8	2075.9	1778.6	1588.8	1495.8	1446.6
12714.4	50°	12553.9	11831.5	7756.3	3575.3	2063.1	1877.1	1614.4	1484.9	1413.7	1368.1
13553.5	52.5°	13329.1	12333.1	7553.8	3110.2	1827.8	1683.7	1541.4	1441.1	1366.3	1315.2
14367.1	55°	14049.7	12765.5	7267.4	2634.1	1636.3	1554.2	1506.8	1422.8	1337.1	1276.9
15193.4	57.5°	14689.9	13046.4	6773.1	2187.2	1499.5	1464.8	1470.3	1391.8	1293.3	1242.3
16007.0	60°	15222.6	13252.5	6041.6	1773.1	1388.2	1377.2	1413.7	1333.5	1218.5	1160.2
16694.7	62.5°	15541.8	13248.9	5144.1	1452.0	1293.3	1297.0	1338.9	1260.5	1143.7	1089.0
17054.0	65°	15514.5	12924.2	4159.1	1242.3	1202.1	1205.8	1260.5	1180.2	1081.7	1048.9
16873.5	67.5°	14965.4	12132.5	3190.5	1105.4	1101.8	1118.2	1182.1	1125.5	1043.4	1039.8
15797.2	70°	13478.7	10488.9	2298.4	996.0	997.8	1021.5	1105.4	1090.8	1023.4	1030.6
13281.7	72.5°	10808.1	7997.1	1543.2	881.1	882.9	921.2	1032.5	1063.5	1003.3	1100.0
9423.6	75°	7198.1	4987.2	992.3	758.8	760.7	809.9	968.6	1010.6	948.6	1096.3
4903.3	77.5°	3458.6	2241.9	718.7	638.5	638.5	684.1	837.3	904.8	808.1	851.9
1576.1	80°	1194.8	842.8	565.5	514.4	503.5	534.5	705.9	784.4	696.8	642.1
514.4	82.5°	470.6	437.8	454.2	399.5	363.0	383.1	549.1	647.6	512.6	463.3
290.0	85°	270.0	284.6	321.1	264.5	209.8	235.3	403.1	465.2	386.7	341.1
94.9	87.5°	73.0	100.3	147.8	136.8	94.9	100.3	191.5	257.2	222.5	171.5
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°
3850.8
3949.3
4106.2
4295.9
4471.0
4533.0
4534.9
4454.6
4266.7
4000.4
3721.3
3465.9
3239.7
2957.0
2639.6
2324.0
2041.2
1804.1
1568.8
1435.6
1351.7
1293.3
1253.2
1209.4
1134.6
1072.6
1047.1
1045.2
1028.8
1114.6
1105.4
780.7
602.0
461.5
348.4
176.9
0.0

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