

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: P950348

Luminaire Tested: **GALN-SB4D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35939 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

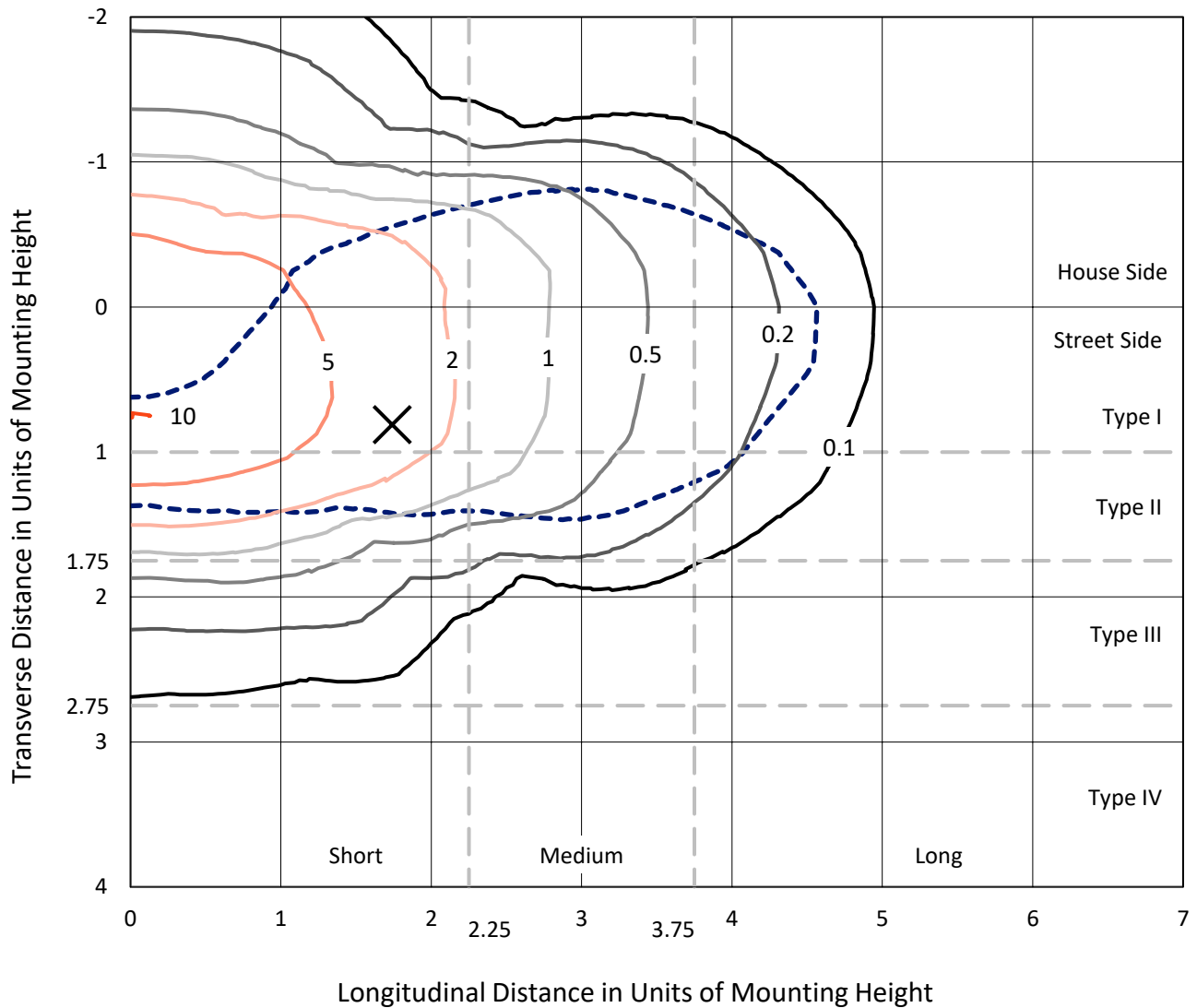
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

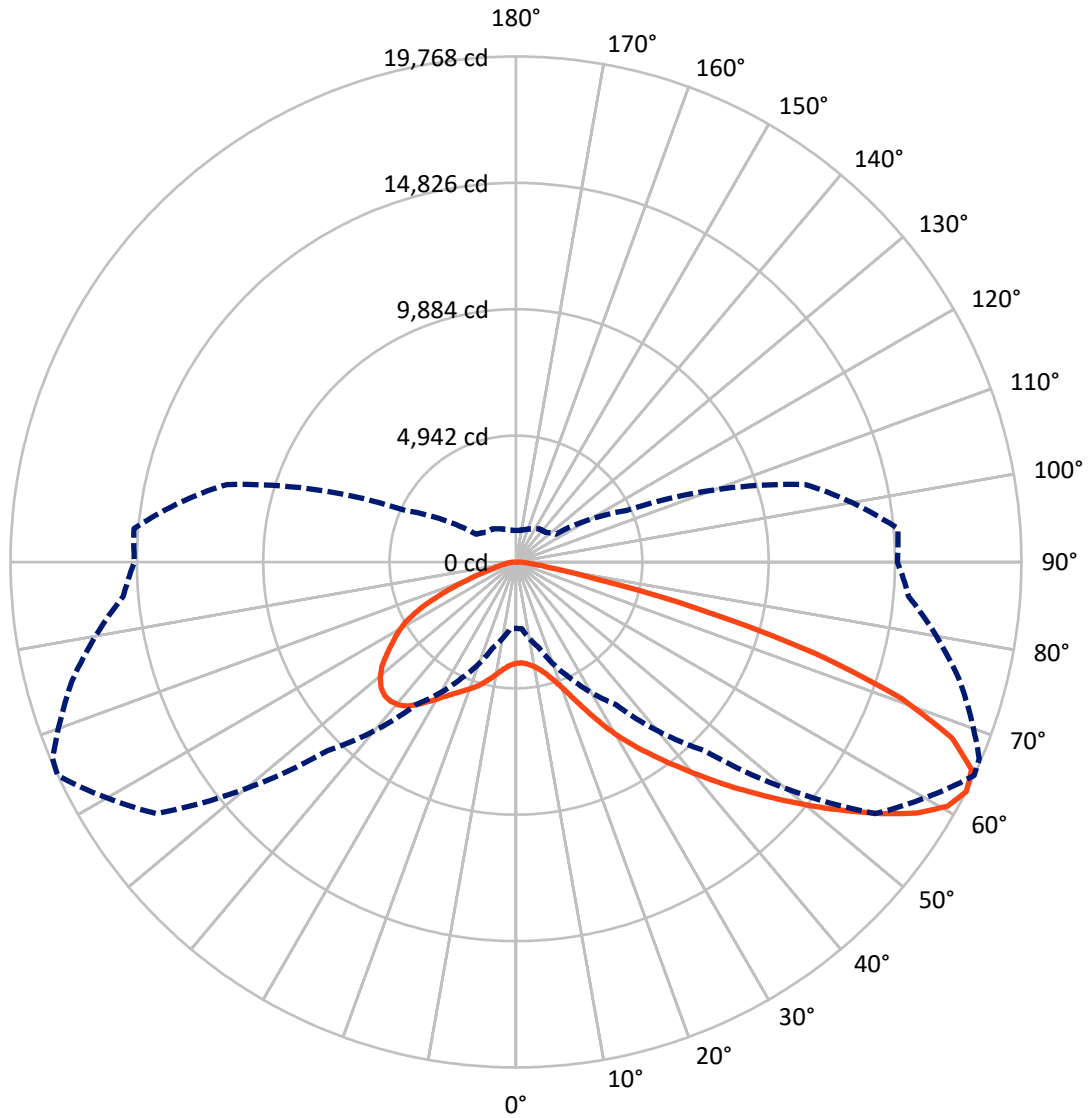
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11340.8	0.0	11340.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24598.2	0.0	24598.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	35939.0	0.0	35939.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	1.1
10°-20°	1338.9	3.7
20°-30°	2714.8	7.6
30°-40°	4698.0	13.1
40°-50°	7109.5	19.8
50°-60°	8335.4	23.2
60°-70°	6988.3	19.4
70°-80°	3858.1	10.7
80°-90°	501.1	1.4
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°	35939.0	100.0
0°-180°	35939.0	100.0



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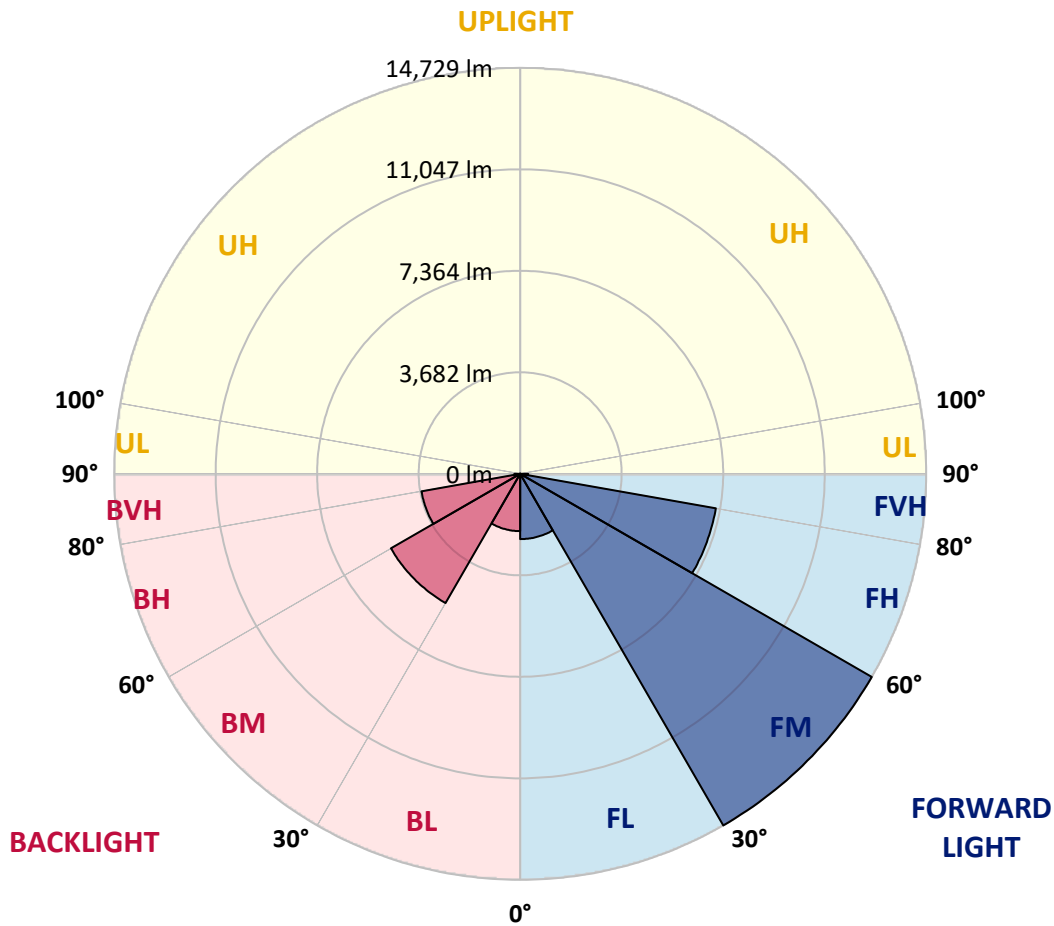
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.9	6.6			
FM (30°-60°)	14729.0	41.0			
FH (60°-80°)	7208.3	20.1			G3/7500
FVH (80°-90°)	292.1	0.8			G3/500
BL (0°-30°)	2079.8	5.8	B3/2500		
BM (30°-60°)	5413.9	15.1	B4/8500		
BH (60°-80°)	3638.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	209.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3
2.5°	3934.2	3923.0	3932.4	3932.4	3936.1	3934.2	3947.3	3951.0	3956.6	3967.8
5°	3895.1	3893.2	3910.0	3924.9	3939.8	3952.9	3969.6	3993.9	3997.6	4010.7
7.5°	3882.0	3870.8	3896.9	3915.6	3951.0	3982.7	4027.4	4068.5	4085.2	4090.8
10°	3982.7	3964.1	3988.3	3999.5	4029.3	4061.0	4113.2	4178.5	4197.1	4219.5
12.5°	4154.2	4133.7	4169.2	4185.9	4213.9	4241.9	4277.3	4340.7	4350.0	4391.0
15°	4389.2	4364.9	4387.3	4407.8	4454.4	4480.5	4516.0	4577.5	4577.5	4609.2
17.5°	4708.0	4676.3	4693.1	4700.6	4730.4	4769.5	4829.2	4883.3	4911.2	4900.1
20°	5183.5	5144.3	5144.3	5107.0	5095.8	5127.5	5205.8	5280.4	5310.3	5252.5
22.5°	5897.6	5841.7	5810.0	5683.2	5632.8	5636.6	5714.9	5806.2	5830.5	5727.9
25°	6805.6	6718.0	6675.1	6488.7	6374.9	6276.1	6337.6	6455.1	6488.7	6361.9
27.5°	7713.7	7719.3	7678.3	7454.5	7266.2	7085.3	7053.6	7176.7	7212.1	7068.5
30°	8987.2	8854.8	8776.5	8508.0	8239.5	7985.9	7855.4	7905.7	7915.1	7743.5
32.5°	10085.4	10051.8	9884.0	9649.1	9304.1	8907.0	8688.8	8608.7	8593.7	8349.5
35°	11336.5	11317.9	11140.7	10861.1	10488.1	9936.2	9542.8	9313.5	9294.8	8951.7
37.5°	12608.1	12608.1	12434.7	12129.0	11743.0	11053.1	10454.6	10091.0	10031.3	9583.8
40°	13622.5	13560.9	13592.6	13464.0	13022.1	12289.3	11467.0	10939.4	10859.2	10322.2
42.5°	14198.6	14178.1	14368.3	14511.9	14331.0	13745.5	12582.0	11858.6	11746.7	11135.1
45°	14327.3	14304.9	14644.2	15170.0	15423.6	15183.1	13794.0	12826.3	12690.2	11985.4
47.5°	14030.8	13986.1	14483.9	15313.6	16126.6	16549.8	15106.7	13876.0	13678.4	12813.2
50°	13139.5	13096.7	13849.9	14951.9	16363.4	17478.4	16531.2	14989.2	14687.1	13700.8
52.5°	11202.3	11222.8	12403.0	13917.1	16052.0	18056.4	17758.1	16162.0	15798.4	14608.8
55°	8726.1	8770.9	10221.5	11888.4	14806.5	17968.7	18595.2	17370.2	17008.5	15462.8
57.5°	6248.1	6445.8	7805.0	9455.2	12414.2	16579.7	18778.0	18518.8	18168.3	16395.1
60°	4049.8	4085.2	5483.7	7146.9	9453.3	14111.0	18406.9	19389.5	19115.5	17346.0
62.5°	2595.5	2619.7	3471.8	4998.9	6803.8	10439.7	17157.7	19768.0	19684.1	17974.3
65°	1907.4	1888.8	2332.6	3304.0	4583.1	6438.3	14731.9	19585.3	19751.3	18367.8
67.5°	1592.3	1566.2	1784.4	2287.8	3376.7	3656.4	10900.2	18397.6	19005.4	18323.0
70°	1450.6	1428.3	1560.6	1698.6	2634.6	2448.2	5494.9	15994.2	16930.2	17814.0
72.5°	1228.7	1189.6	1370.5	1508.4	2049.1	1877.6	2271.0	12285.6	13426.7	16182.5
75°	952.8	926.7	1081.4	1327.6	1540.1	1465.5	1435.7	7460.1	8705.6	12514.9
77.5°	755.1	719.7	861.4	1034.8	1385.4	1105.7	1046.0	3212.6	4447.0	7989.6
80°	568.7	537.0	654.5	818.5	1064.7	833.5	676.8	1310.8	1676.2	4048.0
82.5°	404.6	376.6	456.8	600.4	716.0	747.7	415.8	734.6	826.0	1560.6
85°	259.2	242.4	305.8	376.6	455.0	481.1	253.6	384.1	421.4	643.3
87.5°	141.7	115.6	164.1	175.3	210.7	192.0	121.2	139.8	151.0	233.1
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°
3960.3	0°	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3	3960.3
3967.8	2.5°	3975.2	3980.8	3999.5	4005.1	4018.1	4034.9	4046.1	4057.3	4057.3	4068.5
4027.4	5°	4029.3	4042.4	4081.5	4102.0	4135.6	4169.2	4189.7	4213.9	4228.8	4236.3
4122.5	7.5°	4133.7	4154.2	4210.2	4245.6	4303.4	4350.0	4381.7	4415.3	4422.7	4443.2
4254.9	10°	4275.4	4299.7	4363.1	4430.2	4499.2	4557.0	4586.8	4611.1	4620.4	4624.1
4424.6	12.5°	4437.6	4473.1	4555.1	4637.2	4709.9	4760.2	4767.7	4762.1	4736.0	4713.6
4633.4	15°	4637.2	4668.9	4760.2	4849.7	4920.6	4929.9	4883.3	4853.4	4821.7	4816.2
4866.5	17.5°	4875.8	4892.6	4976.5	5064.1	5069.7	5038.0	4969.0	4941.1	4911.2	4890.7
5170.4	20°	5153.6	5148.0	5207.7	5245.0	5205.8	5108.9	5004.5	4957.9	4928.0	4903.8
5543.3	22.5°	5485.5	5442.6	5435.2	5425.9	5321.4	5118.2	4976.5	4916.8	4870.2	4836.7
6063.5	25°	5968.5	5804.4	5690.6	5627.2	5392.3	5067.9	4887.0	4754.6	4667.0	4609.2
6699.4	27.5°	6572.6	6296.6	6009.5	5854.7	5392.3	4965.3	4670.7	4456.3	4312.7	4253.1
7314.7	30°	7148.7	6859.7	6436.5	6128.8	5379.3	4797.5	4322.0	4023.7	3855.9	3796.2
7840.5	32.5°	7641.0	7325.8	6889.5	6429.0	5347.6	4525.3	3889.5	3559.4	3397.2	3326.4
8360.7	35°	8097.8	7762.2	7344.5	6759.0	5263.6	4126.3	3414.0	3162.3	2981.4	2867.7
8890.2	37.5°	8565.8	8166.8	7775.2	7057.4	5112.6	3660.1	3048.6	2834.1	2621.6	2468.7
9453.3	40°	9074.8	8597.5	8235.8	7234.5	4864.6	3216.4	2765.1	2569.4	2343.7	2181.5
10102.2	42.5°	9669.6	9114.0	8748.5	7325.8	4525.3	2901.3	2580.5	2388.5	2175.9	2043.6
10797.7	45°	10290.5	9682.7	9216.5	7324.0	4146.8	2754.0	2520.9	2330.7	2095.8	1957.8
11511.8	47.5°	10941.2	10277.4	9621.1	7204.7	3818.6	2774.5	2487.3	2205.8	1946.6	1812.4
12233.4	50°	11593.8	10928.2	10012.7	6980.9	3678.8	2729.7	2362.4	2030.5	1724.7	1603.5
12910.2	52.5°	12240.8	11619.9	10350.2	6662.1	3537.1	2563.8	2202.0	1803.0	1633.4	1549.4
13609.4	55°	12891.6	12304.2	10717.5	6197.8	3182.8	2369.9	1933.5	1717.3	1560.6	1484.2
14293.7	57.5°	13544.2	13094.8	11066.2	5733.5	2737.2	2131.2	1786.2	1612.8	1487.9	1422.7
14866.1	60°	14222.9	13999.1	11426.0	5306.5	2297.1	1825.4	1678.1	1528.9	1402.1	1329.4
15416.2	62.5°	14922.1	14994.8	11707.6	4756.5	1892.5	1638.9	1581.1	1428.3	1305.2	1236.2
15871.1	65°	15626.9	15955.0	11892.2	3993.9	1534.5	1461.8	1476.7	1318.2	1193.3	1133.7
16204.9	67.5°	16158.3	16646.8	11839.9	3022.4	1258.6	1294.0	1346.2	1202.6	1085.2	1038.6
16150.8	70°	16217.9	16564.7	11325.3	2069.7	1053.5	1129.9	1200.8	1088.9	967.7	934.1
15390.1	72.5°	15423.6	15446.0	9891.5	1351.8	891.3	991.9	1047.9	973.3	855.8	822.3
13464.0	75°	13340.9	12774.1	7262.5	891.3	745.8	852.1	904.3	852.1	738.4	745.8
10074.2	77.5°	10107.8	9046.8	4409.7	633.9	622.8	716.0	786.8	749.6	652.6	732.8
5066.0	80°	5207.7	4894.5	1967.1	473.6	492.2	572.4	647.0	598.5	516.5	492.2
1131.8	82.5°	1193.3	1387.2	775.7	339.3	356.1	412.1	494.1	449.4	371.0	313.2
471.7	85°	417.7	456.8	343.1	212.6	208.8	257.3	335.6	300.2	251.7	201.4
199.5	87.5°	132.4	173.4	128.7	85.8	89.5	115.6	154.8	141.7	117.5	76.4
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°
3960.3
4068.5
4240.0
4435.8
4614.8
4713.6
4816.2
4892.6
4905.7
4847.9
4631.6
4282.9
3831.7
3361.8
2905.0
2509.7
2213.2
2069.7
1980.2
1831.0
1611.0
1549.4
1476.7
1411.5
1323.8
1234.3
1131.8
1040.4
936.0
820.4
719.7
645.1
449.4
309.5
212.6
80.2
0.0

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