

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: P956353

Luminaire Tested: **GALN-SB9A-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33036 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

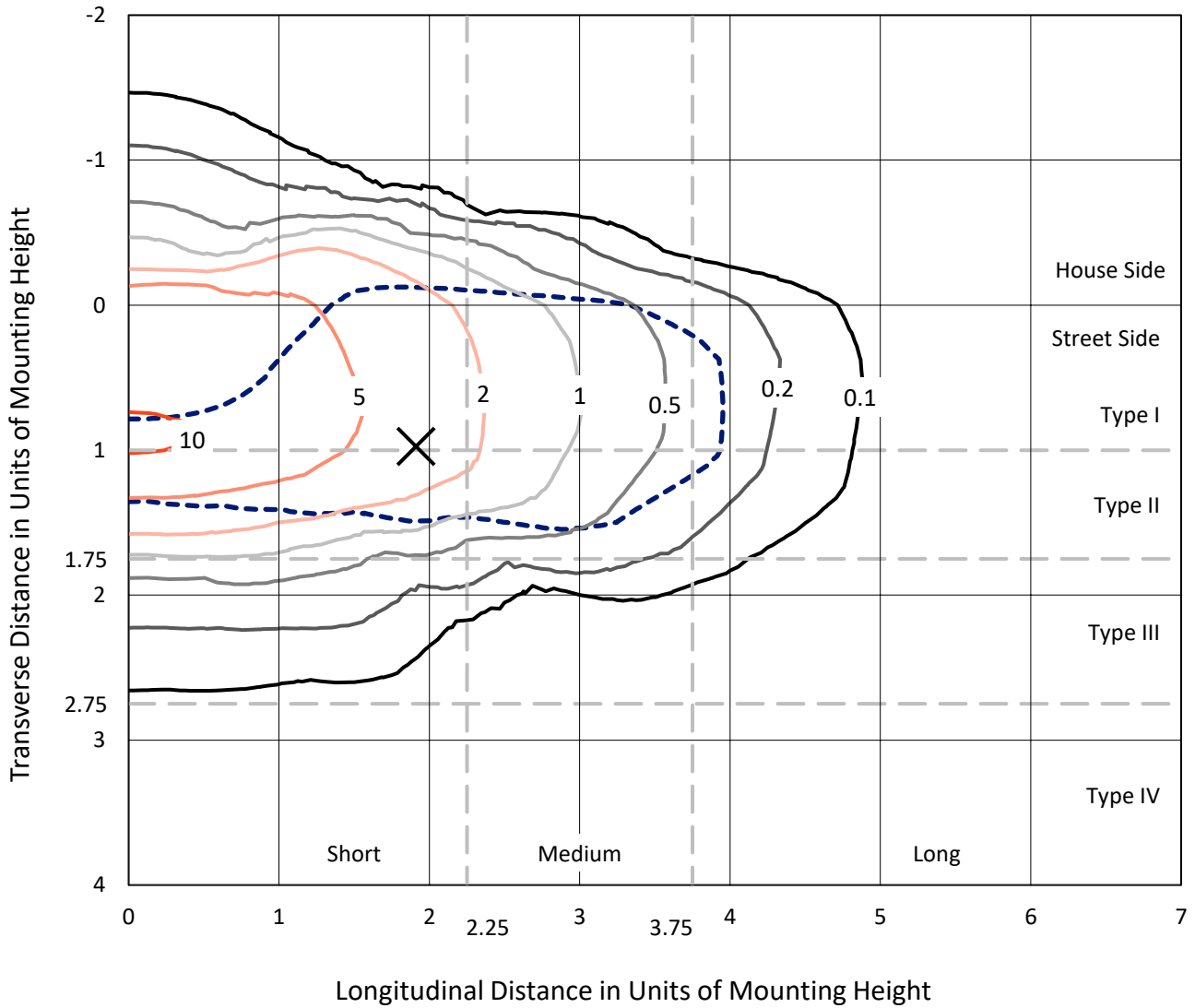
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

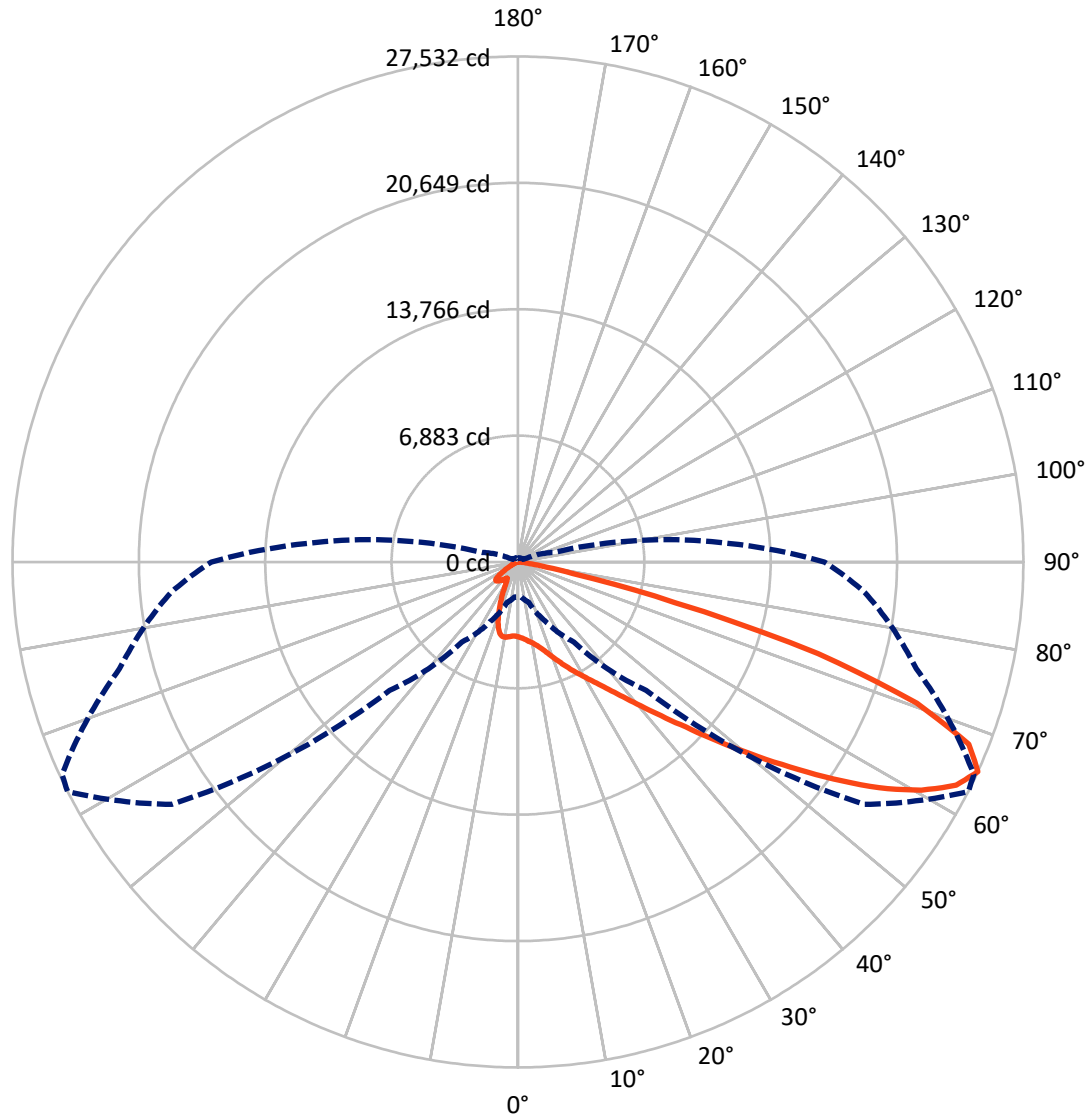
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4856.0	0.0	4856.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28180.0	0.0	28180.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	33036.0	0.0	33036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	1.2
10°-20°	1065.9	3.2
20°-30°	1856.0	5.6
30°-40°	3345.2	10.1
40°-50°	6634.6	20.1
50°-60°	9037.5	27.4
60°-70°	7213.6	21.8
70°-80°	3264.3	9.9
80°-90°	234.6	0.7
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°	33036.0	100.0
0°-180°	33036.0	100.0

Coefficient of Utilization



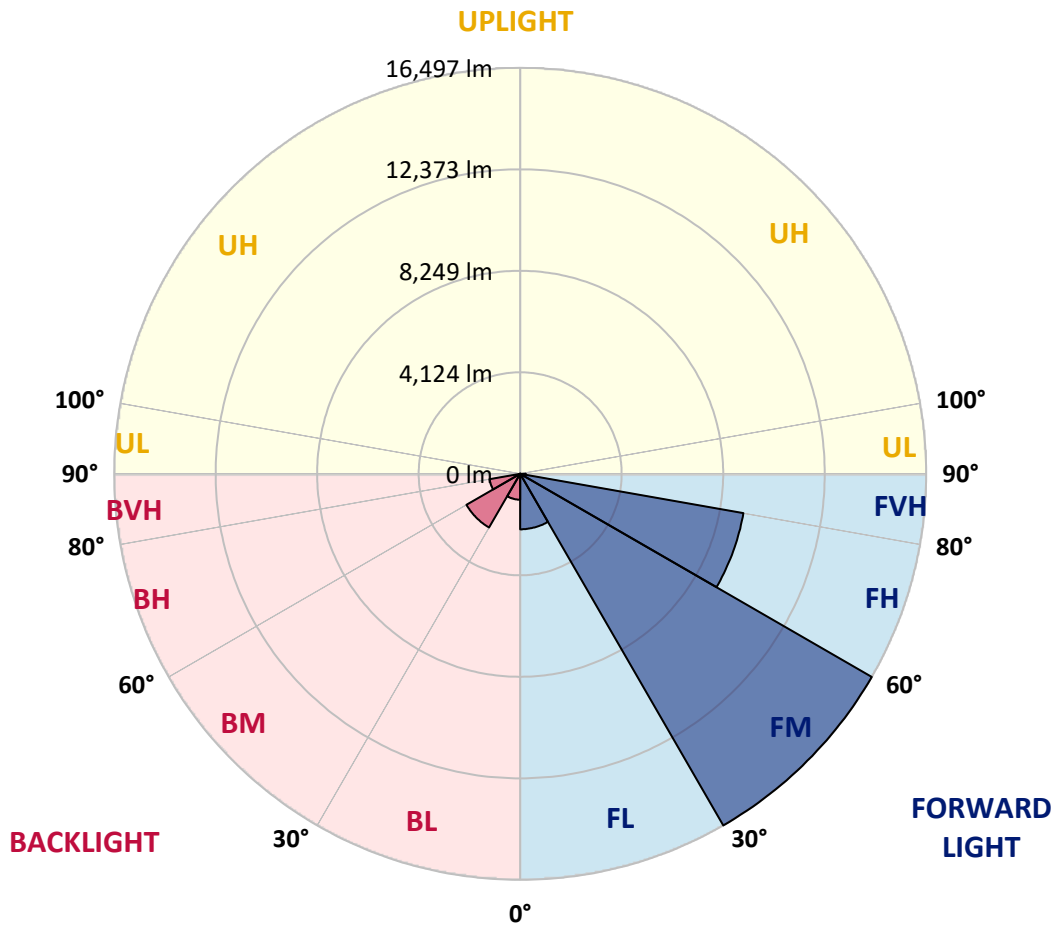
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2255.1	6.8			
FM	(30°-60°)	16497.4	49.9			
FH	(60°-80°)	9210.3	27.9			G4/12000
FVH	(80°-90°)	217.2	0.7			G2/225
BL	(0°-30°)	1050.9	3.2	B3/2500		
BM	(30°-60°)	2520.0	7.6	B3/5000		
BH	(60°-80°)	1267.7	3.8	B3/2500		G3/2500
BVH	(80°-90°)	17.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3
2.5°	4172.7	4161.4	4177.3	4170.4	4165.9	4156.8	4152.3	4147.7	4138.6	4131.8
5°	4184.1	4177.3	4193.2	4206.8	4220.4	4234.1	4240.9	4250.0	4240.9	4222.7
7.5°	4088.6	4084.1	4118.2	4159.1	4220.4	4272.7	4329.5	4361.4	4363.6	4356.8
10°	4081.8	4070.4	4104.5	4154.5	4234.1	4327.3	4427.3	4495.4	4504.5	4534.1
12.5°	4188.6	4177.3	4225.0	4279.5	4361.4	4459.1	4581.8	4677.3	4690.9	4731.8
15°	4368.2	4352.3	4406.8	4477.3	4581.8	4693.2	4822.7	4909.1	4920.4	4970.4
17.5°	4577.3	4561.4	4625.0	4700.0	4813.6	4965.9	5115.9	5211.4	5225.0	5256.8
20°	4845.4	4825.0	4875.0	4943.2	5063.6	5245.4	5425.0	5561.4	5559.1	5559.1
22.5°	5156.8	5125.0	5168.2	5222.7	5336.4	5556.8	5795.4	5956.8	5956.8	5893.2
25°	5490.9	5459.1	5506.8	5556.8	5656.8	5906.8	6186.4	6386.4	6395.4	6286.4
27.5°	5909.1	5868.2	5904.5	5963.6	6022.7	6277.3	6609.1	6840.9	6845.4	6677.3
30°	6713.6	6597.7	6484.1	6420.4	6447.7	6700.0	7054.5	7311.4	7334.1	7102.3
32.5°	8186.4	8163.6	7763.6	7240.9	6968.2	7154.5	7552.3	7861.4	7875.0	7577.3
35°	10475.0	10447.7	9804.5	8809.1	7920.4	7763.6	8156.8	8522.7	8513.6	8177.3
37.5°	13206.8	13181.8	12334.1	11002.3	9563.6	8684.1	8936.4	9320.4	9377.3	8936.4
40°	15540.9	15447.7	14911.3	13627.3	11745.4	10211.3	10045.4	10300.0	10359.1	9836.3
42.5°	17309.1	17229.5	16956.8	16154.5	14386.3	12470.4	11352.3	11450.0	11515.9	10888.6
45°	18225.0	18206.8	18315.9	18240.9	17077.2	15243.2	13220.4	12813.6	12838.6	12054.5
47.5°	18354.5	18345.4	18843.2	19547.7	19390.9	18370.4	15618.2	14513.6	14425.0	13370.4
50°	17590.9	17572.7	18527.2	19847.7	20936.3	20997.7	18340.9	16429.5	16234.1	14731.8
52.5°	15152.2	15147.7	16715.9	18913.6	21479.5	23297.7	21031.8	18534.1	18206.8	16172.7
55°	11659.1	11743.2	13540.9	16138.6	20488.6	24404.5	23447.7	20870.4	20368.2	17622.7
57.5°	8259.1	8381.8	10159.1	12472.7	17415.9	23750.0	25081.8	23211.3	22670.4	19068.2
60°	4436.4	4545.4	6325.0	9086.3	12956.8	21309.1	25943.1	25243.1	24731.8	20440.9
62.5°	2643.2	2679.5	3415.9	5865.9	8763.6	16279.5	25577.2	26790.9	26370.4	21593.1
65°	1897.7	1904.5	2275.0	3581.8	5320.4	9890.9	23011.3	27531.8	27402.2	22461.3
67.5°	1597.7	1593.2	1747.7	2379.5	3625.0	4954.5	17636.3	26484.1	27034.1	23011.3
70°	1370.5	1377.3	1559.1	1743.2	2725.0	2804.5	8768.2	23059.1	24231.8	23156.8
72.5°	1020.5	1043.2	1211.4	1588.6	2056.8	1929.5	3027.3	17097.7	19218.2	21818.1
75°	720.5	731.8	852.3	1336.4	1534.1	1404.5	1545.5	8838.6	11556.8	16727.2
77.5°	554.5	575.0	645.5	934.1	1511.4	986.4	945.5	3059.1	4700.0	10104.5
80°	300.0	336.4	465.9	675.0	1061.4	697.7	468.2	1218.2	1593.2	4725.0
82.5°	154.5	172.7	325.0	486.4	604.5	609.1	231.8	506.8	656.8	1459.1
85°	61.4	75.0	218.2	268.2	311.4	300.0	104.5	204.5	236.4	404.5
87.5°	13.6	22.7	79.5	61.4	59.1	63.6	25.0	47.7	45.5	47.7
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°
4077.3	0°	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3	4077.3
4104.5	2.5°	4102.3	4093.2	4068.2	4040.9	4009.1	3990.9	3979.5	3977.3	3961.4	3950.0
4195.4	5°	4170.4	4161.4	4113.6	4056.8	3995.4	3947.7	3902.3	3861.4	3802.3	3790.9
4327.3	7.5°	4306.8	4281.8	4204.5	4127.3	4011.4	3872.7	3704.5	3511.4	3338.6	3286.4
4502.3	10°	4475.0	4440.9	4343.2	4206.8	3950.0	3572.7	3165.9	2788.6	2488.6	2404.5
4709.1	12.5°	4665.9	4636.4	4506.8	4254.5	3693.2	3009.1	2386.4	1918.2	1627.3	1554.5
4929.5	15°	4893.2	4850.0	4670.4	4181.8	3234.1	2286.4	1638.6	1361.4	1256.8	1243.2
5181.8	17.5°	5134.1	5063.6	4815.9	3920.4	2615.9	1625.0	1265.9	1186.4	1140.9	1127.3
5436.4	20°	5354.5	5263.6	4902.3	3525.0	1954.5	1265.9	1134.1	1081.8	1040.9	1025.0
5690.9	22.5°	5575.0	5445.4	4902.3	2986.4	1465.9	1122.7	1040.9	993.2	945.5	925.0
5963.6	25°	5804.5	5631.8	4815.9	2386.4	1179.5	1029.5	952.3	900.0	859.1	834.1
6222.7	27.5°	6027.3	5788.6	4618.2	1818.2	1050.0	947.7	870.5	820.5	781.8	763.6
6504.5	30°	6238.6	5943.2	4340.9	1379.5	965.9	868.2	795.5	752.3	713.6	695.5
6870.4	32.5°	6525.0	6138.6	4045.4	1131.8	893.2	793.2	727.3	686.4	652.3	638.6
7345.4	35°	6922.7	6427.3	3790.9	1111.4	831.8	731.8	665.9	627.3	593.2	581.8
7959.1	37.5°	7486.4	6893.2	3656.8	1247.7	781.8	677.3	615.9	575.0	543.2	534.1
8738.6	40°	8181.8	7525.0	3729.5	1384.1	747.7	629.5	570.5	529.5	502.3	490.9
9634.1	42.5°	9006.8	8304.5	4131.8	1488.6	725.0	588.6	527.3	481.8	463.6	459.1
10650.0	45°	9954.5	9161.3	4747.7	1600.0	688.6	550.0	484.1	450.0	436.4	434.1
11754.5	47.5°	11031.8	10102.3	5461.4	1738.6	652.3	513.6	450.0	427.3	415.9	411.4
12906.8	50°	12100.0	11050.0	6195.4	1815.9	622.7	479.5	422.7	404.5	395.5	393.2
14125.0	52.5°	13218.2	12025.0	6788.6	1743.2	597.7	452.3	400.0	386.4	377.3	375.0
15247.7	55°	14284.1	12813.6	6890.9	1479.5	547.7	425.0	375.0	368.2	356.8	356.8
16386.3	57.5°	15202.2	13209.1	6168.2	1086.4	497.7	384.1	350.0	343.2	334.1	331.8
17413.6	60°	16045.4	13095.4	4761.4	731.8	443.2	343.2	318.2	313.6	304.5	293.2
18306.8	62.5°	16520.4	12595.4	3256.8	477.3	388.6	300.0	281.8	279.5	259.1	236.4
18968.2	65°	16700.0	11568.2	2031.8	347.7	325.0	256.8	243.2	238.6	209.1	184.1
19343.2	67.5°	16543.2	9877.3	1025.0	275.0	256.8	213.6	200.0	200.0	179.5	156.8
19320.4	70°	15915.9	7404.5	431.8	220.5	197.7	163.6	163.6	172.7	152.3	127.3
18318.2	72.5°	14554.5	4981.8	229.5	168.2	147.7	115.9	134.1	140.9	120.5	95.5
14993.2	75°	11570.4	3038.6	159.1	125.0	93.2	81.8	102.3	106.8	81.8	63.6
10279.5	77.5°	7913.6	1745.5	106.8	79.5	59.1	47.7	70.5	65.9	43.2	29.5
3963.6	80°	3475.0	727.3	61.4	36.4	22.7	18.2	25.0	18.2	13.6	9.1
543.2	82.5°	406.8	170.5	22.7	13.6	9.1	4.5	2.3	0.0	0.0	0.0
165.9	85°	84.1	20.5	11.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0
29.5	87.5°	15.9	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
4077.3
3961.4
3786.4
3261.4
2372.7
1534.1
1229.5
1120.5
1015.9
913.6
825.0
763.6
697.7
638.6
581.8
531.8
488.6
459.1
431.8
411.4
393.2
375.0
354.5
329.5
290.9
231.8
181.8
154.5
125.0
95.5
61.4
31.8
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