

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: P943506

Luminaire Tested: **GALN-SB8A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28448 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

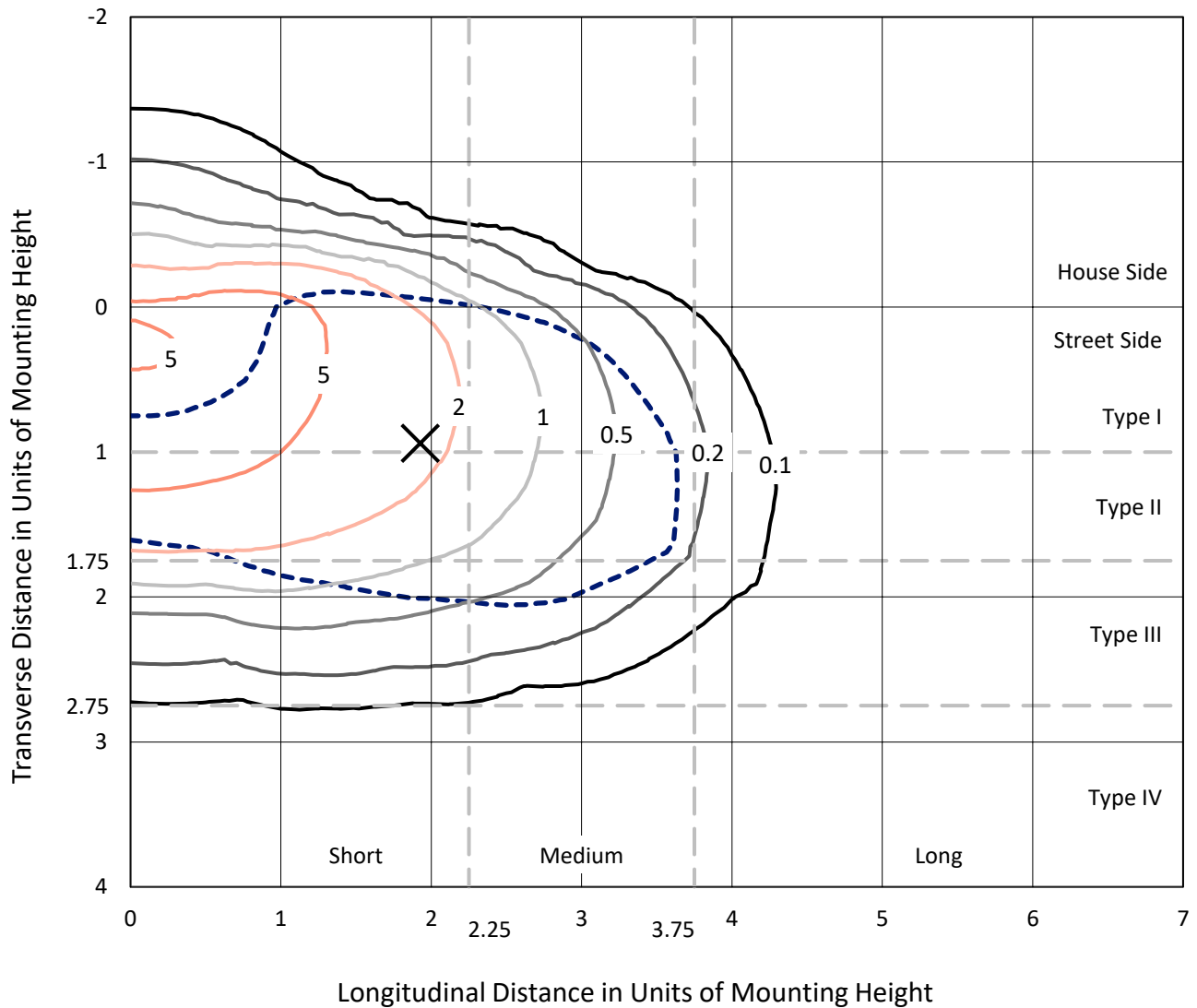
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

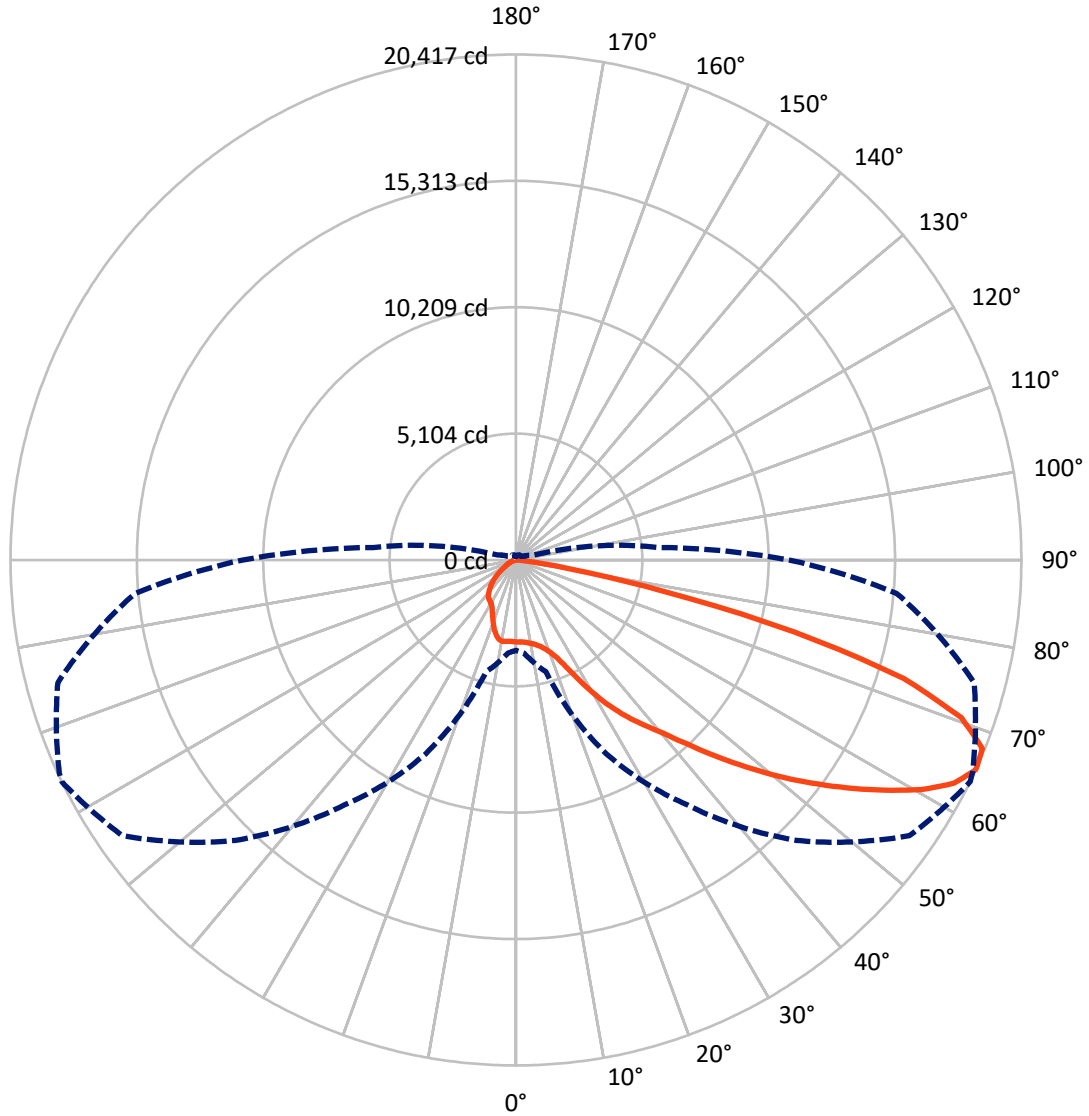
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3804.4	0.0	3804.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24643.6	0.0	24643.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	28448.0	0.0	28448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	1.1
10°-20°	828.0	2.9
20°-30°	1568.9	5.5
30°-40°	3174.8	11.2
40°-50°	5408.3	19.0
50°-60°	7354.9	25.9
60°-70°	6906.6	24.3
70°-80°	2767.1	9.7
80°-90°	134.1	0.5
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°	28448.0	100.0
0°-180°	28448.0	100.0

Coefficient of Utilization



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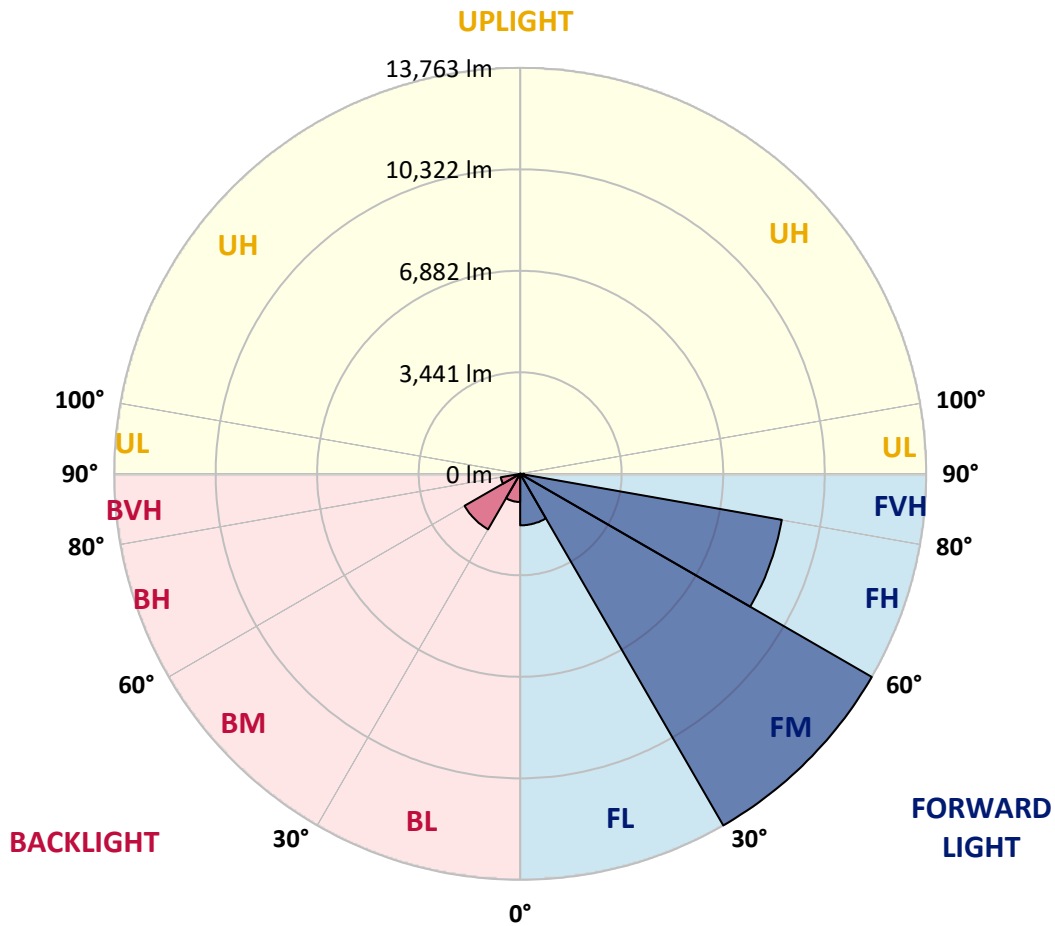
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.0	6.1			
FM (30°-60°)	13763.1	48.4			
FH (60°-80°)	9006.0	31.7			G4/12000
FVH (80°-90°)	127.5	0.4			G2/225
BL (0°-30°)	955.2	3.4	B2/1000		
BM (30°-60°)	2174.9	7.6	B2/2500		
BH (60°-80°)	667.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8
2.5°	3297.4	3320.2	3314.5	3308.8	3306.9	3310.7	3312.6	3310.7	3310.7	3310.7
5°	3234.4	3253.5	3253.5	3266.8	3285.9	3308.8	3326.0	3329.8	3333.6	3339.3
7.5°	3114.3	3129.5	3141.0	3184.8	3232.5	3293.5	3345.0	3371.7	3375.5	3396.5
10°	3032.3	3051.3	3070.4	3116.2	3184.8	3276.4	3364.1	3428.9	3438.5	3488.1
12.5°	3028.5	3047.5	3072.3	3121.9	3202.0	3299.3	3406.1	3499.5	3516.7	3589.1
15°	3068.5	3091.4	3114.3	3175.3	3261.1	3379.4	3493.8	3610.1	3627.3	3730.3
17.5°	3150.5	3181.0	3198.2	3259.2	3350.8	3482.3	3633.0	3766.5	3781.8	3901.9
20°	3312.6	3348.8	3354.6	3404.2	3493.8	3634.9	3814.2	3980.1	3999.2	4136.5
22.5°	3648.3	3699.8	3654.0	3678.8	3758.9	3900.0	4094.5	4304.3	4331.0	4487.4
25°	4239.5	4311.9	4193.7	4151.7	4186.1	4332.9	4577.0	4842.1	4872.6	4998.5
27.5°	5400.9	5307.4	5128.2	4952.7	4849.7	4933.6	5208.3	5536.3	5574.4	5696.5
30°	6676.7	6594.7	6352.5	5963.5	5719.4	5706.0	5959.7	6325.8	6369.7	6486.0
32.5°	7954.5	7876.3	7613.1	7134.4	6711.0	6501.3	6676.7	7082.9	7105.8	7180.2
35°	9211.2	9131.1	8868.0	8377.8	7857.2	7380.4	7346.1	7803.8	7811.4	7889.6
37.5°	10475.6	10408.9	10128.5	9648.0	9135.0	8477.0	8158.5	8486.5	8496.1	8572.4
40°	11377.7	11406.3	11213.7	10841.8	10401.3	9682.3	9070.1	9213.1	9155.9	9283.7
42.5°	12152.0	12209.2	12041.4	11854.5	11598.9	10965.8	10199.1	10174.3	10082.8	10151.4
45°	12821.4	12869.0	12718.4	12674.5	12668.8	12224.4	11433.0	11284.2	11156.5	11143.1
47.5°	13067.4	13158.9	13223.7	13370.6	13656.7	13469.8	12708.8	12478.1	12335.0	12230.2
50°	13160.8	13258.1	13479.3	13906.5	14583.5	14663.6	13979.0	13719.6	13544.1	13353.4
52.5°	13034.9	13208.5	13506.0	14225.0	15207.1	15621.0	15197.6	14970.6	14770.4	14459.5
55°	12293.1	12466.6	13075.0	14221.2	15518.0	16292.3	16349.5	16248.4	16023.4	15533.2
57.5°	10729.3	10986.7	11949.8	13736.8	15512.3	16870.1	17478.5	17550.9	17299.2	16597.4
60°	8562.8	8911.8	10086.6	12663.1	15033.6	17182.9	18468.2	18830.6	18563.6	17646.3
62.5°	5974.9	6379.2	7491.0	10981.0	13938.9	16957.8	19191.0	19860.4	19658.3	18584.6
65°	3644.4	3774.1	4670.5	8641.0	12077.6	16015.7	19414.2	20417.3	20350.5	19158.6
67.5°	2427.7	2536.4	2793.9	5925.3	9375.2	14133.4	18880.2	20320.0	20339.1	19065.2
70°	1462.7	1556.2	1724.0	3446.1	6076.0	11187.0	17226.7	19080.4	19191.0	17816.0
72.5°	602.6	665.6	818.1	1561.9	3146.7	7100.1	13717.7	16381.9	16639.3	14980.2
75°	341.4	373.8	480.6	783.8	1365.5	3308.8	8309.2	11629.4	12008.9	10325.0
77.5°	226.9	242.2	310.9	507.3	768.6	1129.0	3551.0	6058.8	6783.5	5639.3
80°	152.6	165.9	213.6	339.5	499.7	484.4	1130.9	2244.6	2761.5	1937.6
82.5°	103.0	104.9	152.6	223.1	316.6	234.6	333.7	698.0	877.3	560.7
85°	59.1	57.2	112.5	129.7	141.1	97.3	101.1	209.8	274.6	236.5
87.5°	7.6	11.4	43.9	34.3	19.1	21.0	21.0	36.2	53.4	57.2
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°
3308.8	0°	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8	3308.8
3312.6	2.5°	3312.6	3310.7	3305.0	3299.3	3285.9	3278.3	3282.1	3278.3	3276.4	3278.3
3337.4	5°	3337.4	3331.7	3316.4	3297.4	3270.7	3238.2	3217.3	3186.7	3158.1	3141.0
3404.2	7.5°	3404.2	3398.4	3377.5	3324.1	3238.2	3102.8	2978.9	2870.2	2788.2	2740.5
3510.9	10°	3510.9	3501.4	3469.0	3350.8	3125.7	2830.1	2584.1	2380.0	2246.5	2183.6
3636.8	12.5°	3636.8	3625.4	3568.2	3326.0	2912.1	2450.6	2111.1	1884.2	1760.2	1704.9
3781.8	15°	3785.6	3770.3	3657.8	3207.7	2601.3	2031.0	1720.2	1550.5	1470.4	1420.8
3966.7	17.5°	3970.6	3943.9	3724.5	3030.4	2263.7	1710.7	1479.9	1352.1	1281.6	1233.9
4208.9	20°	4210.9	4167.0	3777.9	2818.7	1952.9	1508.5	1317.8	1211.0	1157.6	1115.6
4552.2	22.5°	4546.5	4483.6	3842.8	2589.8	1733.5	1369.3	1197.7	1119.5	1075.6	1027.9
5030.9	25°	4962.2	4887.9	3922.9	2378.1	1582.9	1249.1	1109.9	1045.1	993.6	938.3
5658.3	27.5°	5543.9	5410.4	4018.2	2204.6	1453.2	1146.2	1029.8	957.4	898.2	852.5
6369.7	30°	6192.3	5973.0	4102.1	2099.7	1335.0	1050.8	924.9	852.5	797.2	764.7
7008.5	32.5°	6806.4	6508.9	4157.5	2053.9	1228.2	942.1	810.5	732.3	690.4	680.8
7634.1	35°	7386.2	6993.3	4151.7	2010.1	1132.8	833.4	698.0	617.9	585.5	591.2
8307.3	37.5°	8053.6	7510.1	4111.7	1941.4	1054.6	734.2	600.7	530.2	501.6	503.5
9125.4	40°	8829.8	8107.0	4086.9	1811.7	968.8	642.7	520.6	463.4	442.4	434.8
9987.4	42.5°	9657.5	8684.9	4090.7	1664.9	862.0	560.7	465.3	417.7	398.6	392.9
10946.7	45°	10489.0	9236.0	4096.4	1512.3	749.5	497.7	425.3	385.2	373.8	366.2
11919.3	47.5°	11270.9	9705.2	3989.6	1348.3	638.9	450.1	392.9	366.2	356.6	347.1
12895.7	50°	11999.4	10017.9	3732.2	1157.6	551.1	411.9	368.1	349.0	339.5	329.9
13780.6	52.5°	12565.8	10067.5	3306.9	961.2	490.1	383.3	352.8	335.6	324.2	314.7
14495.8	55°	12817.5	9756.7	2702.3	778.1	442.4	358.5	337.6	320.4	307.0	297.5
15058.4	57.5°	12752.7	9102.5	2107.3	625.5	396.7	333.7	318.5	307.0	291.8	276.5
15514.2	60°	12434.2	8227.2	1588.6	520.6	354.7	307.0	297.5	288.0	267.0	244.1
15689.6	62.5°	11883.1	7126.8	1132.8	431.0	308.9	276.5	272.7	265.1	234.6	192.6
15430.2	65°	11040.1	5789.9	762.8	358.5	265.1	242.2	244.1	230.8	190.7	143.0
14480.5	67.5°	9808.2	4233.7	488.2	293.7	221.2	202.2	204.1	196.4	162.1	122.1
12680.2	70°	8238.6	2803.4	318.5	223.1	177.4	156.4	167.8	169.7	137.3	99.2
9731.9	72.5°	6039.7	1655.4	223.1	165.9	129.7	108.7	137.3	141.1	110.6	74.4
5854.8	75°	3442.3	785.7	167.8	120.1	80.1	76.3	106.8	106.8	76.3	49.6
2534.5	77.5°	1445.6	328.0	118.2	78.2	45.8	43.9	72.5	66.7	38.1	22.9
617.9	80°	417.7	146.8	62.9	38.1	19.1	17.2	28.6	21.0	9.5	3.8
234.6	82.5°	164.0	64.8	24.8	15.3	7.6	7.6	3.8	0.0	0.0	0.0
133.5	85°	97.3	26.7	11.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0
28.6	87.5°	24.8	5.7	3.8	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°
3308.8
3285.9
3144.8
2742.4
2177.9
1699.2
1422.7
1230.1
1108.0
1020.3
932.6
842.9
759.0
686.6
591.2
511.1
432.9
391.0
366.2
347.1
329.9
312.8
295.6
274.6
240.3
188.8
139.2
116.3
95.4
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