

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: P954276

Luminaire Tested: **GALN-SB7C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38557 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

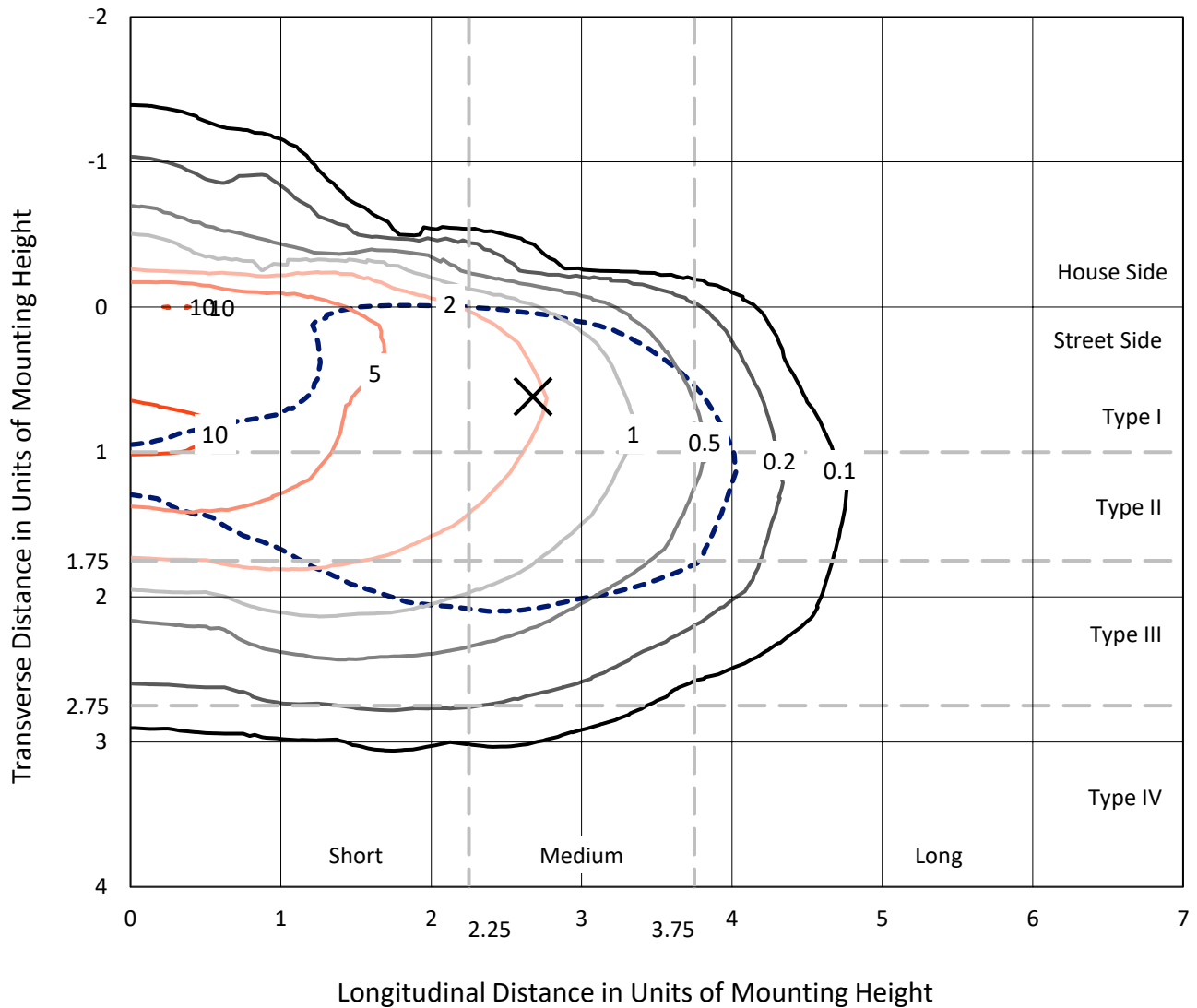
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

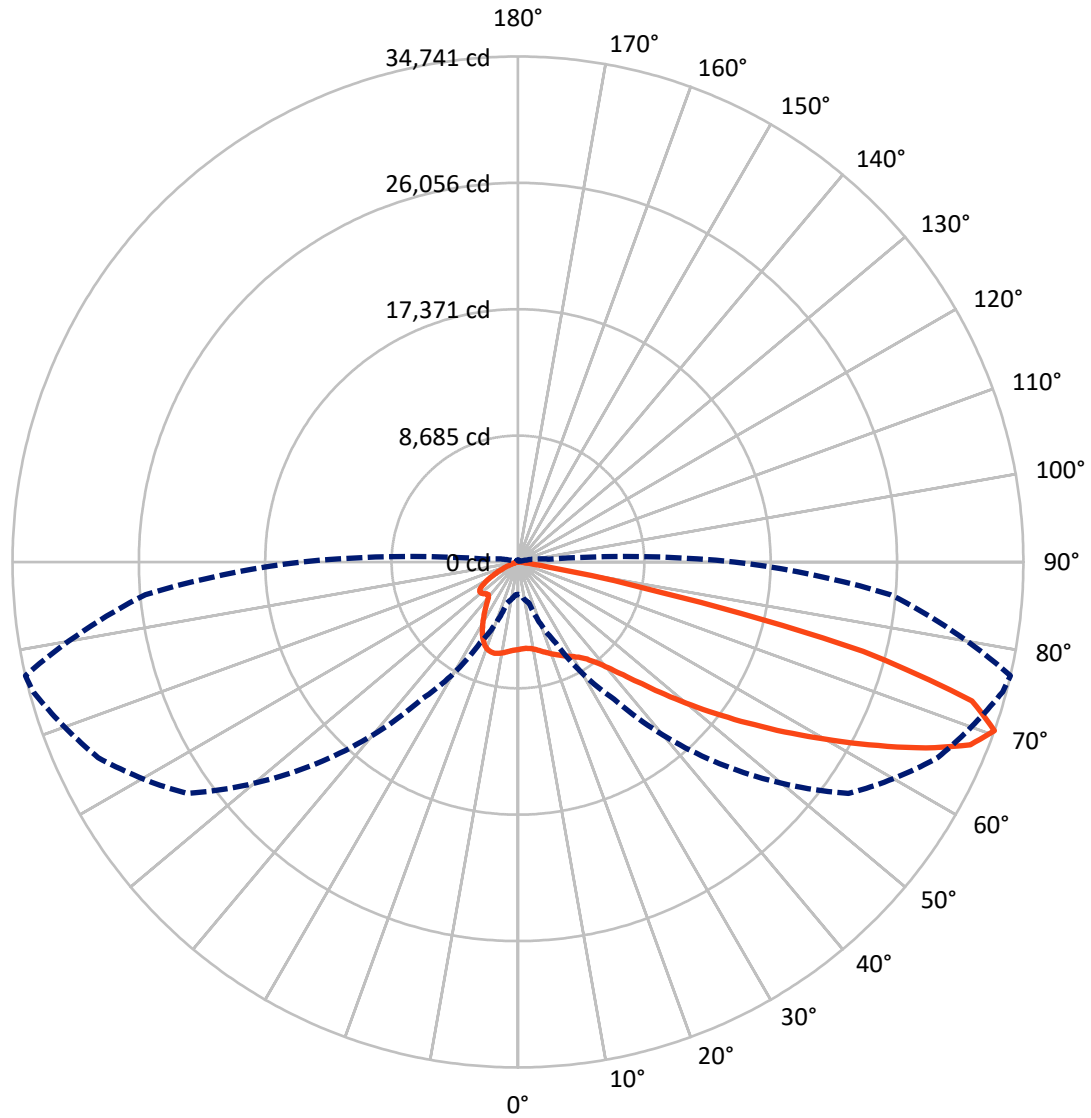
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4064.5	0.0	4064.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34492.5	0.0	34492.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	38557.0	0.0	38557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	1.3
10°-20°	1230.5	3.2
20°-30°	1903.2	4.9
30°-40°	3453.4	9.0
40°-50°	6518.7	16.9
50°-60°	9419.0	24.4
60°-70°	10026.3	26.0
70°-80°	5313.2	13.8
80°-90°	174.5	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°	38557.0	100.0
0°-180°	38557.0	100.0

Coefficient of Utilization



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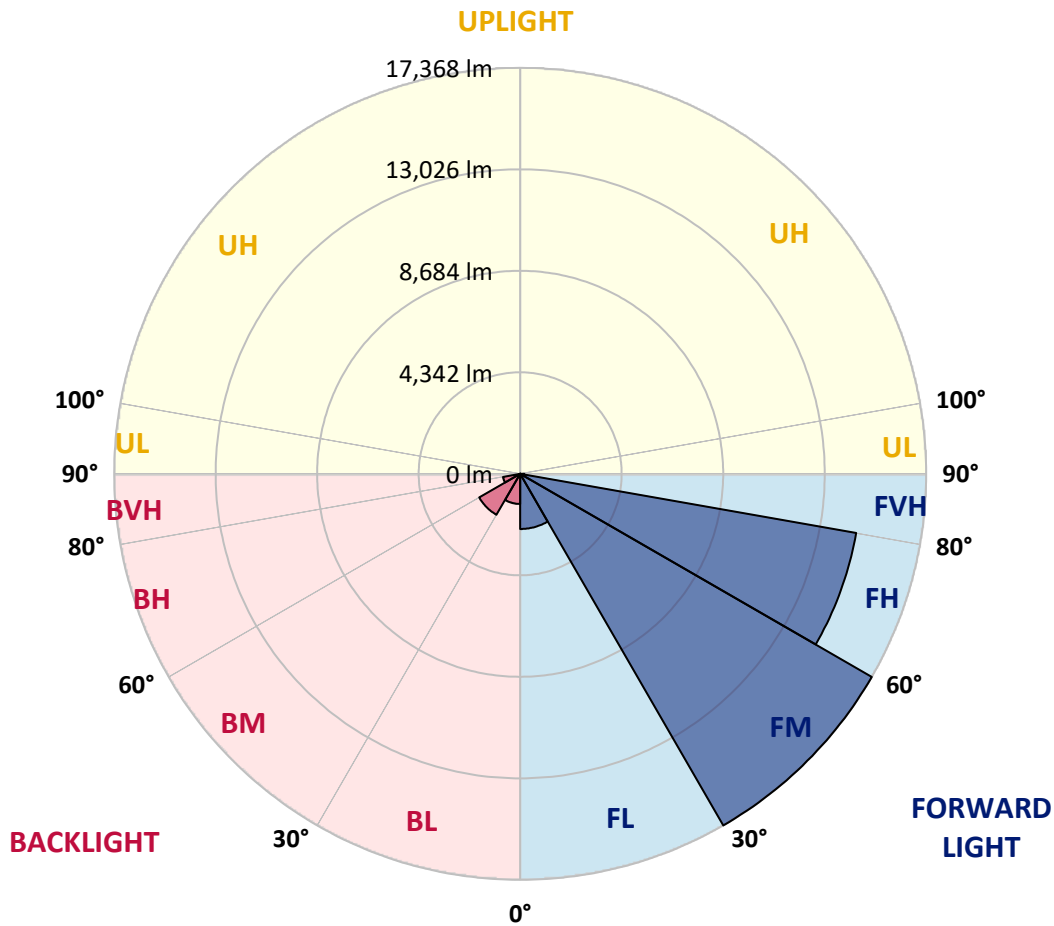
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.6	6.1			
FM (30°-60°)	17367.8	45.0			
FH (60°-80°)	14594.4	37.9			G5
FVH (80°-90°)	169.8	0.4			G2/225
BL (0°-30°)	1291.3	3.3	B3/2500		
BM (30°-60°)	2023.3	5.2	B2/2500		
BH (60°-80°)	745.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2
2.5°	5646.5	5697.7	5690.4	5724.4	5736.6	5785.3	5834.0	5899.8	5972.8	5970.4
5°	5327.6	5378.7	5390.9	5437.1	5495.6	5571.0	5670.9	5802.4	5938.7	5960.6
7.5°	4950.1	5003.7	5035.4	5127.9	5235.0	5390.9	5554.0	5746.4	5972.8	6004.5
10°	4572.7	4621.4	4662.8	4794.3	4964.8	5196.1	5461.5	5739.1	6043.4	6089.7
12.5°	4339.0	4385.2	4431.5	4546.0	4757.8	5040.2	5400.6	5773.1	6160.3	6226.0
15°	4256.2	4297.6	4334.1	4436.4	4633.6	4955.0	5388.4	5843.8	6308.8	6396.5
17.5°	4268.4	4290.3	4314.6	4392.6	4584.9	4916.1	5410.3	5965.5	6484.1	6562.0
20°	4339.0	4351.2	4353.6	4407.2	4577.6	4911.2	5454.2	6082.4	6649.7	6754.4
22.5°	4429.1	4433.9	4429.1	4465.6	4623.9	4947.7	5512.6	6223.6	6834.8	6932.2
25°	4850.3	4757.8	4640.9	4570.3	4701.8	5018.3	5600.3	6413.5	7036.9	7131.8
27.5°	6157.9	5892.5	5473.6	5003.7	4862.5	5120.6	5722.0	6605.9	7241.4	7326.6
30°	8281.1	7932.9	7221.9	6162.7	5378.7	5334.9	5880.3	6798.2	7458.1	7550.6
32.5°	10409.2	10324.0	9503.4	8037.6	6540.1	5812.1	6143.2	7058.8	7745.4	7818.5
35°	12561.6	12388.8	11716.7	10268.0	8329.8	6783.6	6581.5	7399.7	8122.8	8205.6
37.5°	14210.1	14105.4	13689.0	12495.9	10453.0	8283.5	7331.5	7928.0	8670.7	8763.2
40°	15666.1	15617.4	15476.2	14689.7	12827.0	10246.0	8497.8	8746.2	9430.4	9539.9
42.5°	16810.5	16925.0	17005.3	16786.2	15274.1	12486.2	10065.9	9895.4	10489.5	10601.5
45°	17981.7	18020.7	18344.5	18661.1	17704.1	14828.5	11833.6	11241.9	11806.8	11945.6
47.5°	18734.1	18889.9	19459.7	20017.3	19747.0	17151.4	13732.8	12831.9	13333.5	13594.0
50°	18790.1	19084.7	19868.8	20840.3	21234.7	19362.3	15797.6	14643.5	15176.7	15464.0
52.5°	17857.5	18315.3	19530.3	20952.3	22038.3	21234.7	17933.0	16455.0	17139.2	17514.2
55°	13691.4	14290.4	18256.9	20343.6	22069.9	22654.3	20012.4	18342.1	19325.8	19749.4
57.5°	11928.6	12230.5	14353.7	19286.8	21483.1	23226.5	21892.2	20139.0	21704.7	22230.6
60°	9924.6	10321.5	12038.1	17558.0	20686.9	23282.5	23552.8	22457.1	24283.2	24874.9
62.5°	6744.7	7175.6	8882.5	14587.5	19598.5	23255.7	24913.9	24843.3	27149.1	27784.6
65°	4178.3	4448.6	5573.5	11911.5	18076.7	23284.9	26338.3	27740.8	30173.2	30818.5
67.5°	3301.7	3425.9	4012.7	9145.5	15454.3	22627.5	27760.3	30465.4	33019.6	33531.0
70°	2218.2	2293.7	2919.4	6131.1	11497.6	19593.6	27733.5	31833.8	34485.4	34741.1
72.5°	1168.8	1227.2	1706.9	2839.1	6944.3	13927.6	23377.4	30197.6	33026.9	32642.2
75°	584.4	681.8	1149.3	1441.5	2965.7	7767.3	14516.9	23808.4	25995.0	24504.8
77.5°	443.2	535.7	949.6	949.6	1032.4	2615.1	6148.1	12985.3	11977.3	9973.3
80°	282.4	365.2	830.3	718.3	431.0	664.7	1602.2	3637.7	2544.5	1935.7
82.5°	165.6	238.6	691.5	474.8	241.1	245.9	452.9	774.3	659.9	513.8
85°	65.7	155.8	474.8	187.5	95.0	60.9	136.4	165.6	136.4	102.3
87.5°	0.0	36.5	82.8	0.0	7.3	4.9	9.7	12.2	12.2	9.7
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°
6014.2	0°	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2	6014.2
6019.1	2.5°	6041.0	6045.8	6060.5	6062.9	6028.8	5985.0	5967.9	5960.6	5931.4	5929.0
6058.0	5°	6114.0	6135.9	6114.0	6050.7	5899.8	5687.9	5527.2	5395.7	5276.4	5239.9
6191.9	7.5°	6260.1	6282.0	6216.3	5967.9	5588.1	5166.9	4787.0	4519.2	4278.1	4188.0
6355.1	10°	6469.5	6498.7	6291.8	5790.2	5118.2	4441.3	3798.4	3345.5	2992.5	2848.8
6576.7	12.5°	6732.5	6744.7	6333.2	5519.9	4507.0	3540.3	2629.7	2145.1	1831.0	1714.2
6844.5	15°	7022.2	7005.2	6338.0	5152.2	3674.3	2503.1	1716.6	1409.8	1283.2	1244.2
7112.3	17.5°	7326.6	7256.0	6240.6	4621.4	2761.2	1711.7	1273.5	1200.4	1178.5	1168.8
7377.7	20°	7626.1	7467.8	6062.9	3927.5	1982.0	1278.3	1156.6	1134.7	1122.5	1117.6
7645.6	22.5°	7898.8	7628.5	5758.5	3121.5	1439.0	1129.8	1093.3	1073.8	1051.9	1042.1
7906.1	25°	8164.2	7721.1	5330.0	2369.2	1151.7	1056.7	1027.5	991.0	961.8	949.6
8186.1	27.5°	8422.3	7779.5	4794.3	1753.1	1027.5	988.6	935.0	883.9	862.0	857.1
8485.6	30°	8697.5	7799.0	4185.6	1307.5	952.0	903.3	825.4	767.0	754.8	757.3
8889.8	32.5°	9033.5	7828.2	3572.0	1071.4	888.7	801.1	708.6	647.7	637.9	647.7
9479.1	35°	9435.2	7886.6	2980.3	986.1	832.7	696.4	596.5	545.4	535.7	543.0
10233.9	37.5°	9980.6	7981.6	2427.6	969.1	786.5	608.7	501.6	460.2	460.2	462.6
11159.1	40°	10706.2	8234.8	1933.3	956.9	762.1	543.0	423.7	406.6	413.9	418.8
12337.6	42.5°	11590.1	8772.9	1599.7	942.3	735.3	513.8	384.7	377.4	389.6	394.5
13749.9	45°	12581.1	9454.7	1482.9	918.0	711.0	533.2	367.7	357.9	372.5	375.0
15332.5	47.5°	13606.2	10121.9	1468.2	891.2	686.6	562.5	362.8	340.9	357.9	360.4
17022.4	50°	14643.5	10557.7	1482.9	849.8	647.7	562.5	365.2	323.8	338.5	345.8
18775.5	52.5°	15688.0	10757.4	1473.1	759.7	579.5	528.4	365.2	309.2	323.8	328.7
20669.8	55°	16701.0	10718.4	1324.6	625.8	491.8	467.5	355.5	297.1	306.8	309.2
22459.5	57.5°	17502.0	10175.4	1049.4	487.0	399.3	389.6	323.8	282.4	289.8	287.3
24100.6	60°	17920.8	8982.3	749.9	375.0	314.1	306.8	284.9	263.0	267.8	255.7
25490.9	62.5°	17925.7	7404.5	501.6	297.1	250.8	243.5	243.5	236.2	231.3	207.0
26567.2	65°	17543.4	5653.8	333.6	236.2	202.1	189.9	204.5	202.1	185.1	151.0
26895.9	67.5°	16676.6	3705.9	253.2	185.1	155.8	148.5	163.1	170.4	158.3	126.6
25697.9	70°	14894.3	2157.3	209.4	143.7	116.9	109.6	131.5	146.1	131.5	102.3
21965.2	72.5°	12371.7	1163.9	170.4	107.1	80.4	73.0	104.7	119.3	104.7	75.5
14093.2	75°	8027.9	623.3	131.5	70.6	41.4	46.3	77.9	87.7	73.0	48.7
4136.9	77.5°	2695.4	275.1	82.8	34.1	19.5	19.5	46.3	53.6	34.1	17.0
752.4	80°	601.4	114.4	34.1	14.6	7.3	7.3	9.7	9.7	4.9	0.0
231.3	82.5°	197.2	46.3	14.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
58.4	85°	75.5	17.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.5	87.5°	29.2	2.4	0.0	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°
6014.2
5933.8
5218.0
4151.5
2788.0
1677.6
1244.2
1166.3
1112.7
1039.7
944.7
852.2
757.3
645.2
540.5
460.2
418.8
394.5
377.4
362.8
348.2
328.7
309.2
287.3
253.2
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