

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: P954820

Luminaire Tested: **GALN-SB7D-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954820
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-SB7D-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA 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: 38475 lumens
Efficiency: N/A
Efficacy: 75.0 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

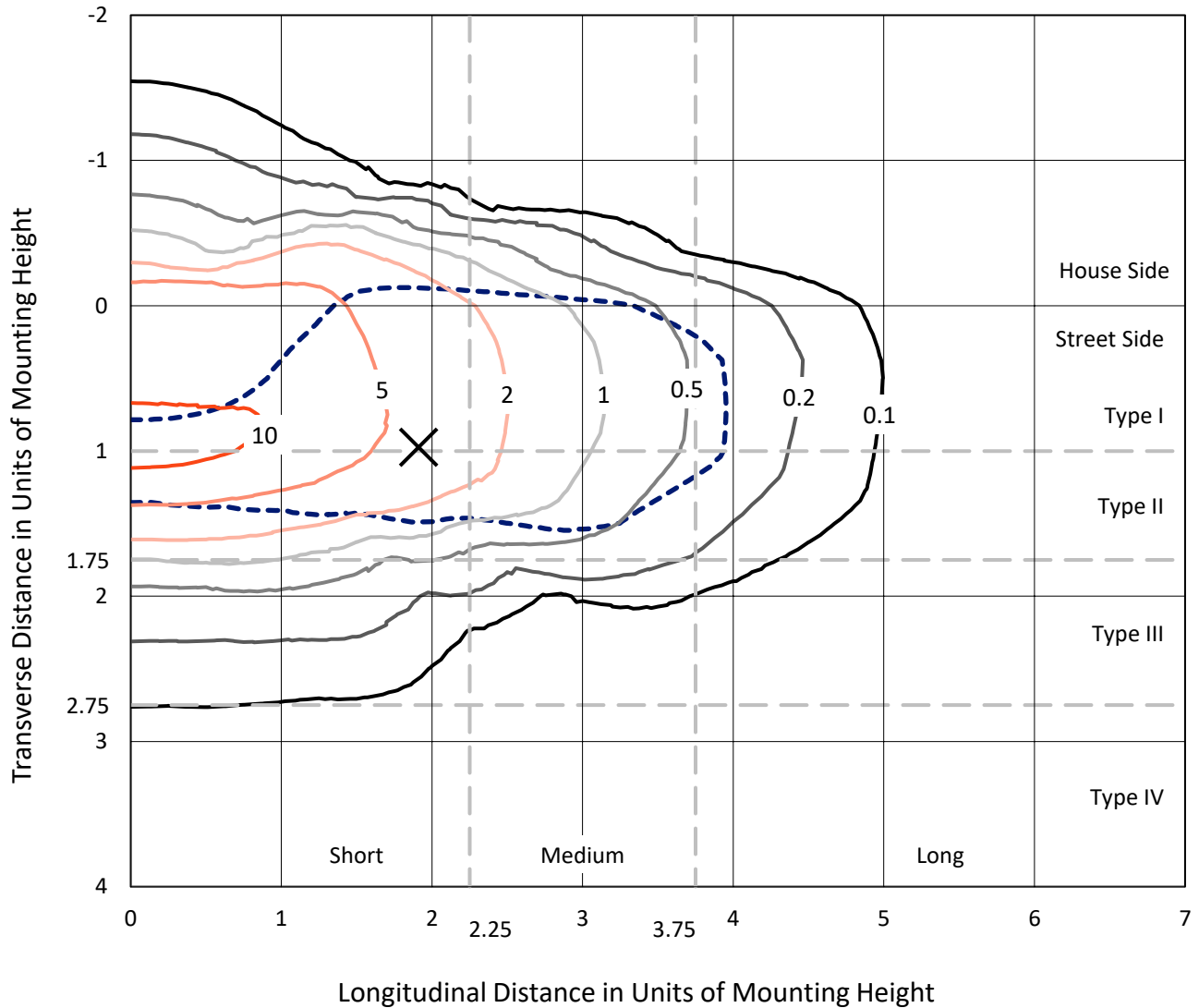
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

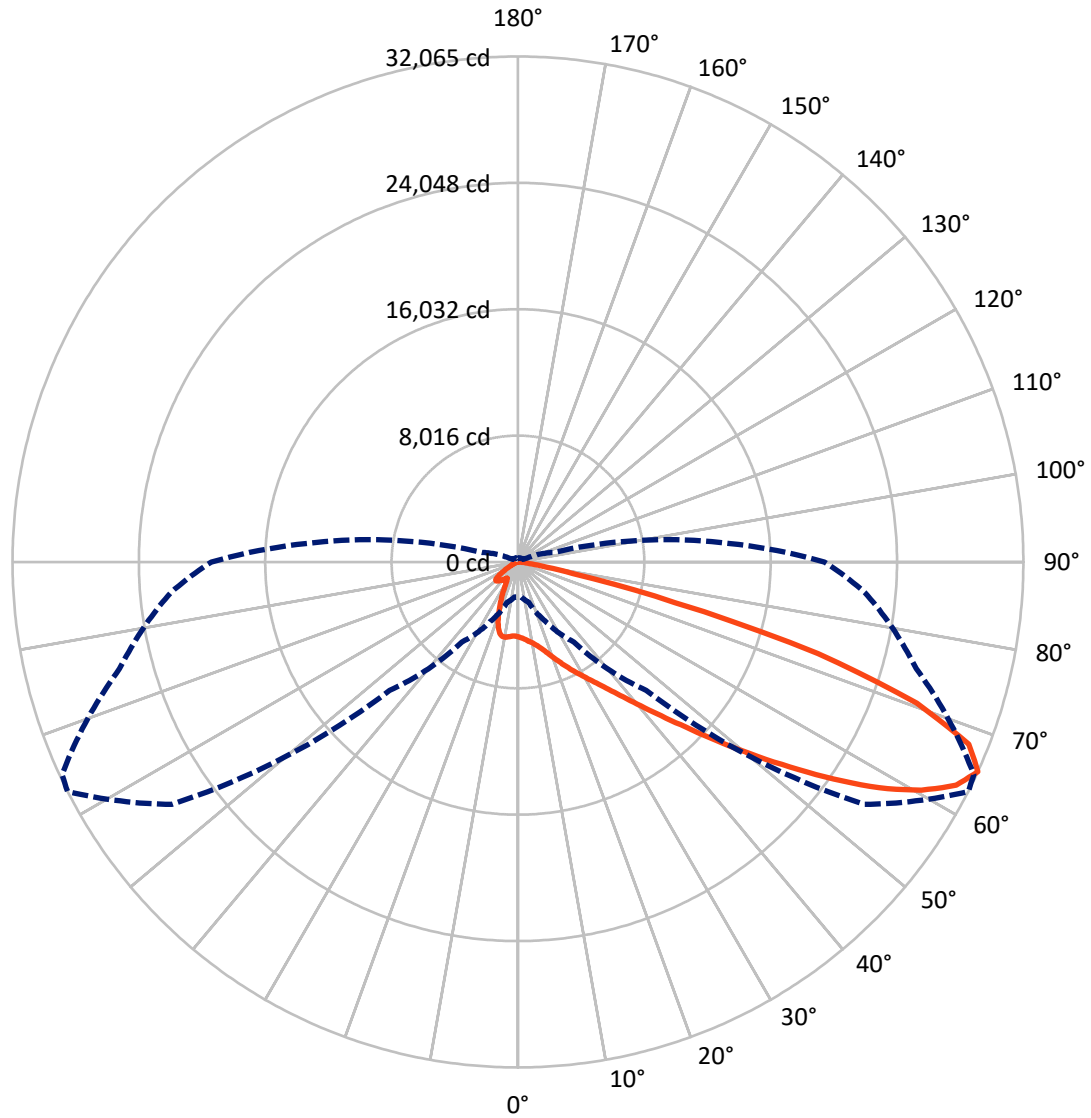
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	5655.5	0.0	5655.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32819.5	0.0	32819.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	38475.0	0.0	38475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	1.2
10°-20°	1241.4	3.2
20°-30°	2161.6	5.6
30°-40°	3896.0	10.1
40°-50°	7727.0	20.1
50°-60°	10525.4	27.4
60°-70°	8401.3	21.8
70°-80°	3801.8	9.9
80°-90°	273.3	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°	38475.0	100.0
0°-180°	38475.0	100.0

Coefficient of Utilization



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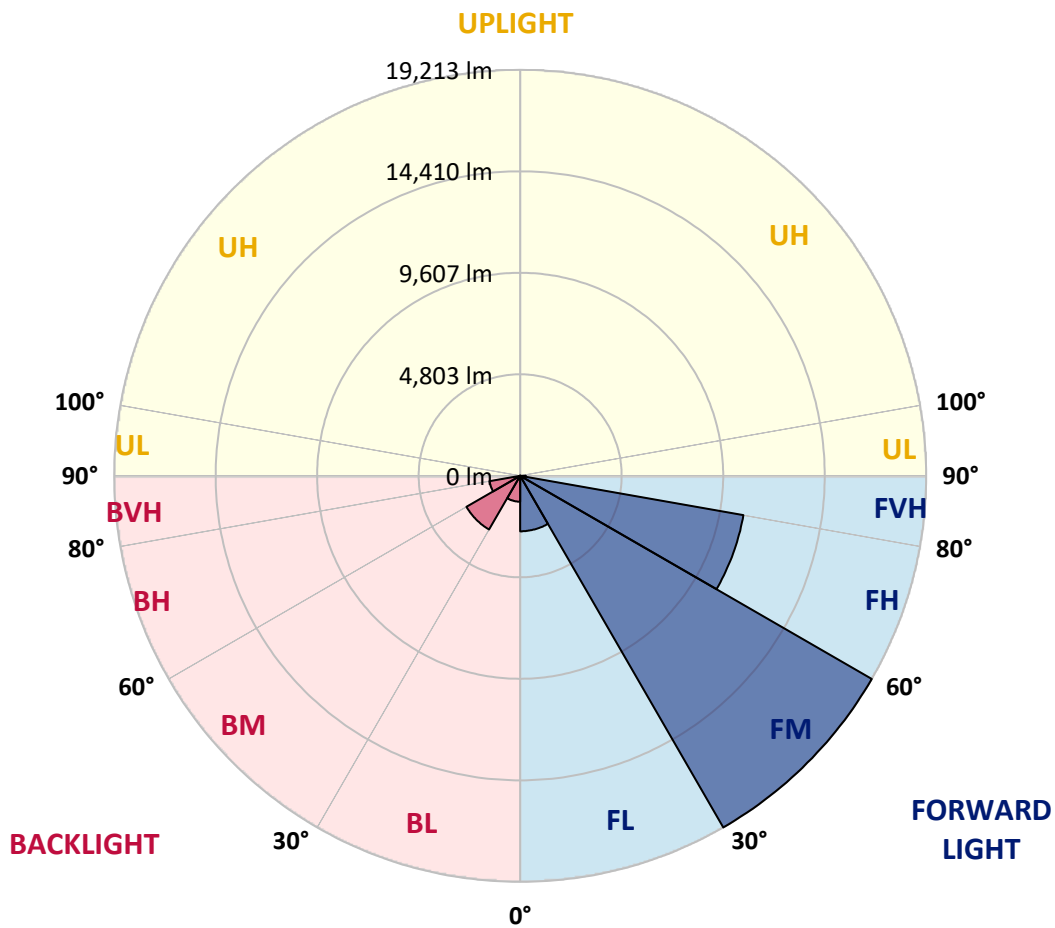
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.4	6.8			
FM (30°-60°)	19213.5	49.9			
FH (60°-80°)	10726.6	27.9			G4/12000
FVH (80°-90°)	253.0	0.7			G3/500
BL (0°-30°)	1223.9	3.2	B3/2500		
BM (30°-60°)	2934.9	7.6	B3/5000		
BH (60°-80°)	1476.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	20.3	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°	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5
2.5°	4859.7	4846.5	4865.0	4857.1	4851.8	4841.2	4835.9	4830.6	4820.0	4812.1
5°	4872.9	4865.0	4883.5	4899.4	4915.3	4931.2	4939.1	4949.7	4939.1	4917.9
7.5°	4761.8	4756.5	4796.2	4843.8	4915.3	4976.2	5042.3	5079.4	5082.1	5074.1
10°	4753.8	4740.6	4780.3	4838.5	4931.2	5039.7	5156.2	5235.6	5246.2	5280.6
12.5°	4878.2	4865.0	4920.6	4984.1	5079.4	5193.2	5336.2	5447.3	5463.2	5510.8
15°	5087.3	5068.8	5132.3	5214.4	5336.2	5465.9	5616.7	5717.3	5730.5	5788.8
17.5°	5330.9	5312.3	5386.4	5473.8	5606.1	5783.5	5958.2	6069.3	6085.2	6122.3
20°	5643.2	5619.4	5677.6	5757.0	5897.3	6109.0	6318.2	6477.0	6474.3	6474.3
22.5°	6005.8	5968.8	6019.1	6082.6	6214.9	6471.7	6749.6	6937.5	6937.5	6863.4
25°	6394.9	6357.9	6413.4	6471.7	6588.1	6879.3	7204.9	7437.8	7448.4	7321.3
27.5°	6881.9	6834.3	6876.7	6945.5	7014.3	7310.7	7697.2	7967.2	7972.5	7776.6
30°	7818.9	7684.0	7551.6	7477.5	7509.3	7803.1	8216.0	8515.1	8541.6	8271.6
32.5°	9534.1	9507.7	9041.8	8433.0	8115.4	8332.4	8795.7	9155.6	9171.5	8824.8
35°	12199.6	12167.8	11418.7	10259.4	9224.5	9041.8	9499.7	9925.9	9915.3	9523.6
37.5°	15381.1	15352.0	14364.7	12813.7	11138.2	10113.8	10407.6	10854.9	10921.1	10407.6
40°	18099.5	17991.0	17366.3	15870.8	13679.2	11892.5	11699.3	11995.8	12064.6	11455.8
42.5°	20158.8	20066.2	19748.5	18814.2	16754.9	14523.6	13221.3	13335.1	13411.9	12681.3
45°	21225.5	21204.3	21331.4	21244.0	19888.8	17752.8	15397.0	14923.2	14952.3	14039.2
47.5°	21376.4	21365.8	21945.5	22766.0	22583.4	21394.9	18189.5	16903.1	16799.9	15571.7
50°	20487.0	20465.8	21577.5	23115.4	24383.3	24454.7	21360.5	19134.5	18906.8	17157.2
52.5°	17646.9	17641.6	19468.0	22027.5	25015.9	27133.4	24494.4	21585.5	21204.3	18835.4
55°	13578.6	13676.5	15770.2	18795.7	23861.8	28422.4	27308.1	24306.5	23721.5	20524.1
57.5°	9618.8	9761.8	11831.7	14526.2	20283.2	27660.1	29211.2	27032.8	26402.8	22207.5
60°	5166.8	5293.8	7366.3	10582.3	15090.0	24817.4	30214.4	29399.1	28803.6	23806.2
62.5°	3078.3	3120.7	3978.3	6831.7	10206.5	18959.8	29788.2	31201.7	30712.0	25148.2
65°	2210.2	2218.1	2649.5	4171.5	6196.4	11519.3	26799.9	32064.6	31913.7	26159.3
67.5°	1860.8	1855.5	2035.5	2771.3	4221.8	5770.2	20540.0	30844.3	31484.9	26799.9
70°	1596.1	1604.0	1815.8	2030.2	3173.6	3266.3	10211.7	26855.5	28221.3	26969.3
72.5°	1188.5	1214.9	1410.8	1850.2	2395.4	2247.2	3525.7	19912.6	22382.2	25410.3
75°	839.1	852.3	992.6	1556.4	1786.7	1635.8	1799.9	10293.8	13459.5	19481.2
77.5°	645.8	669.7	751.7	1087.9	1760.2	1148.8	1101.1	3562.7	5473.8	11768.1
80°	349.4	391.7	542.6	786.1	1236.1	812.6	545.3	1418.7	1855.5	5502.9
82.5°	180.0	201.2	378.5	566.4	704.1	709.4	270.0	590.3	765.0	1699.3
85°	71.5	87.3	254.1	312.3	362.6	349.4	121.8	238.2	275.3	471.1
87.5°	15.9	26.5	92.6	71.5	68.8	74.1	29.1	55.6	52.9	55.6
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°
4748.5	0°	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5	4748.5
4780.3	2.5°	4777.7	4767.1	4738.0	4706.2	4669.1	4648.0	4634.7	4632.1	4613.5	4600.3
4886.2	5°	4857.1	4846.5	4790.9	4724.7	4653.3	4597.7	4544.7	4497.1	4428.3	4415.0
5039.7	7.5°	5015.9	4986.8	4896.8	4806.8	4671.8	4510.3	4314.5	4089.5	3888.3	3827.4
5243.5	10°	5211.7	5172.0	5058.2	4899.4	4600.3	4160.9	3687.1	3247.7	2898.4	2800.4
5484.4	12.5°	5434.1	5399.7	5248.8	4955.0	4301.2	3504.5	2779.2	2234.0	1895.2	1810.5
5741.1	15°	5698.8	5648.5	5439.4	4870.3	3766.5	2662.8	1908.4	1585.5	1463.7	1447.9
6034.9	17.5°	5979.4	5897.3	5608.8	4565.9	3046.6	1892.5	1474.3	1381.7	1328.7	1312.9
6331.4	20°	6236.1	6130.2	5709.4	4105.3	2276.3	1474.3	1320.8	1259.9	1212.3	1193.8
6627.8	22.5°	6492.9	6342.0	5709.4	3478.0	1707.3	1307.6	1212.3	1156.7	1101.1	1077.3
6945.5	25°	6760.2	6559.0	5608.8	2779.2	1373.7	1199.0	1109.1	1048.2	1000.5	971.4
7247.2	27.5°	7019.6	6741.7	5378.5	2117.5	1222.9	1103.8	1013.8	955.5	910.5	889.4
7575.4	30°	7265.7	6921.6	5055.6	1606.7	1124.9	1011.1	926.4	876.1	831.1	810.0
8001.6	32.5°	7599.3	7149.3	4711.5	1318.2	1040.2	923.8	847.0	799.4	759.7	743.8
8554.8	35°	8062.5	7485.4	4415.0	1294.3	968.8	852.3	775.5	730.5	690.8	677.6
9269.5	37.5°	8718.9	8028.1	4258.9	1453.1	910.5	788.8	717.3	669.7	632.6	622.0
10177.3	40°	9528.8	8763.9	4343.6	1612.0	870.8	733.2	664.4	616.7	585.0	571.7
11220.2	42.5°	10489.7	9671.8	4812.1	1733.7	844.4	685.5	614.1	561.1	540.0	534.7
12403.4	45°	11593.4	10669.7	5529.4	1863.4	802.0	640.6	563.8	524.1	508.2	505.6
13689.8	47.5°	12848.1	11765.5	6360.5	2024.9	759.7	598.2	524.1	497.6	484.4	479.1
15031.8	50°	14092.1	12869.2	7215.5	2114.9	725.3	558.5	492.3	471.1	460.6	457.9
16450.5	52.5°	15394.4	14004.8	7906.3	2030.2	696.1	526.7	465.9	450.0	439.4	436.7
17758.1	55°	16635.8	14923.2	8025.4	1723.1	637.9	495.0	436.7	428.8	415.6	415.6
19084.2	57.5°	17705.1	15383.8	7183.7	1265.2	579.7	447.3	407.6	399.7	389.1	386.4
20280.6	60°	18687.1	15251.4	5545.3	852.3	516.1	399.7	370.6	365.3	354.7	341.5
21320.8	62.5°	19240.3	14669.1	3793.0	555.8	452.6	349.4	328.2	325.6	301.7	275.3
22091.0	65°	19449.4	13472.7	2366.3	405.0	378.5	299.1	283.2	277.9	243.5	214.4
22527.8	67.5°	19266.8	11503.4	1193.8	320.3	299.1	248.8	232.9	232.9	209.1	182.6
22501.3	70°	18536.3	8623.6	502.9	256.7	230.3	190.6	190.6	201.2	177.3	148.2
21334.0	72.5°	16950.8	5802.0	267.3	195.9	172.0	135.0	156.2	164.1	140.3	111.2
17461.6	75°	13475.4	3538.9	185.3	145.6	108.5	95.3	119.1	124.4	95.3	74.1
11971.9	77.5°	9216.5	2032.8	124.4	92.6	68.8	55.6	82.1	76.8	50.3	34.4
4616.2	80°	4047.1	847.0	71.5	42.4	26.5	21.2	29.1	21.2	15.9	10.6
632.6	82.5°	473.8	198.5	26.5	15.9	10.6	5.3	2.6	0.0	0.0	0.0
193.2	85°	97.9	23.8	13.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0
34.4	87.5°	18.5	5.3	2.6	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°
4748.5
4613.5
4409.7
3798.3
2763.4
1786.7
1432.0
1304.9
1183.2
1064.1
960.8
889.4
812.6
743.8
677.6
619.4
569.1
534.7
502.9
479.1
457.9
436.7
412.9
383.8
338.8
270.0
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