

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: P956164

Luminaire Tested: **GALN-SB8D-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956164
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-SB8D-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 38278 lumens
Efficiency: N/A
Efficacy: 65.4 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

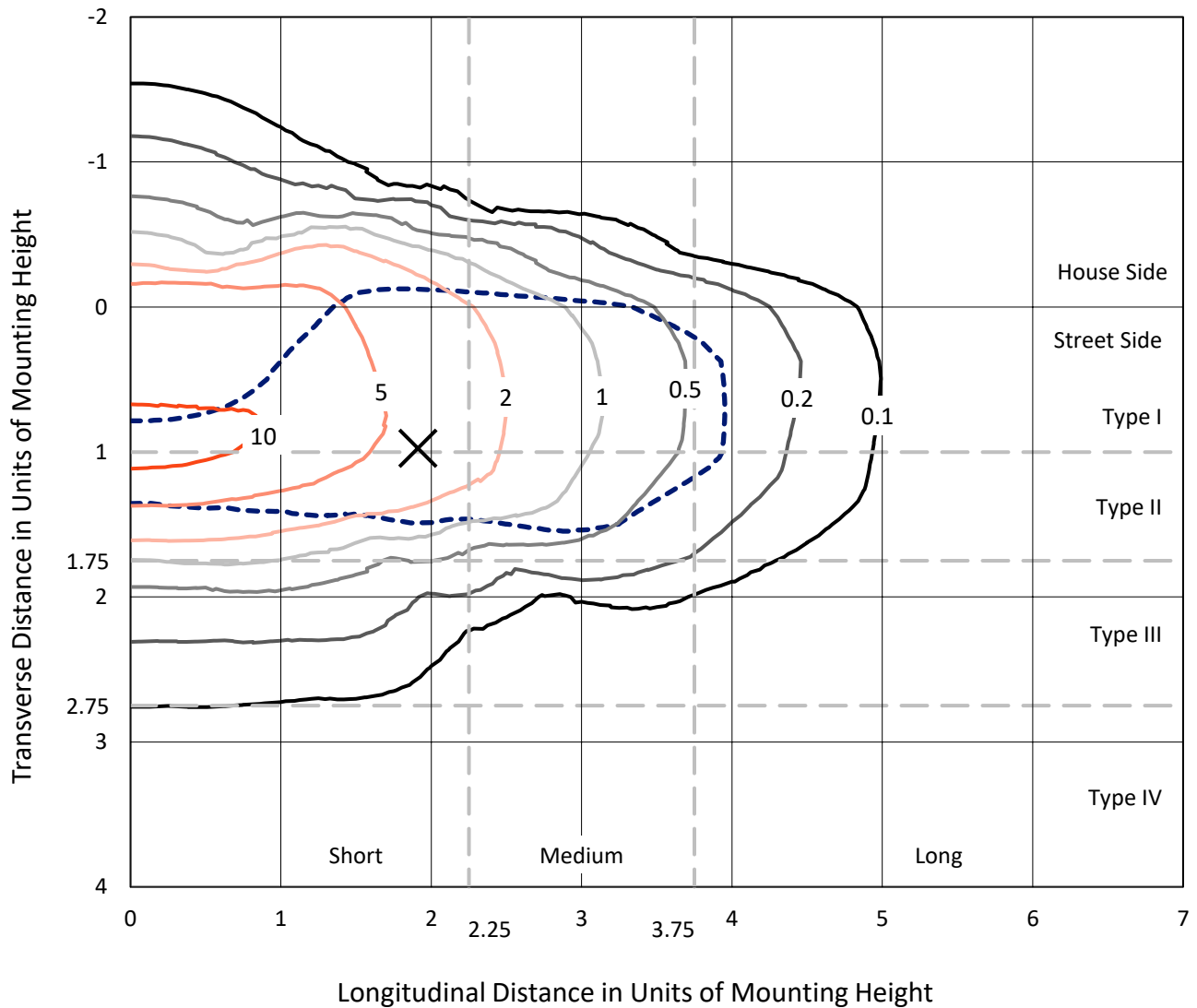
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

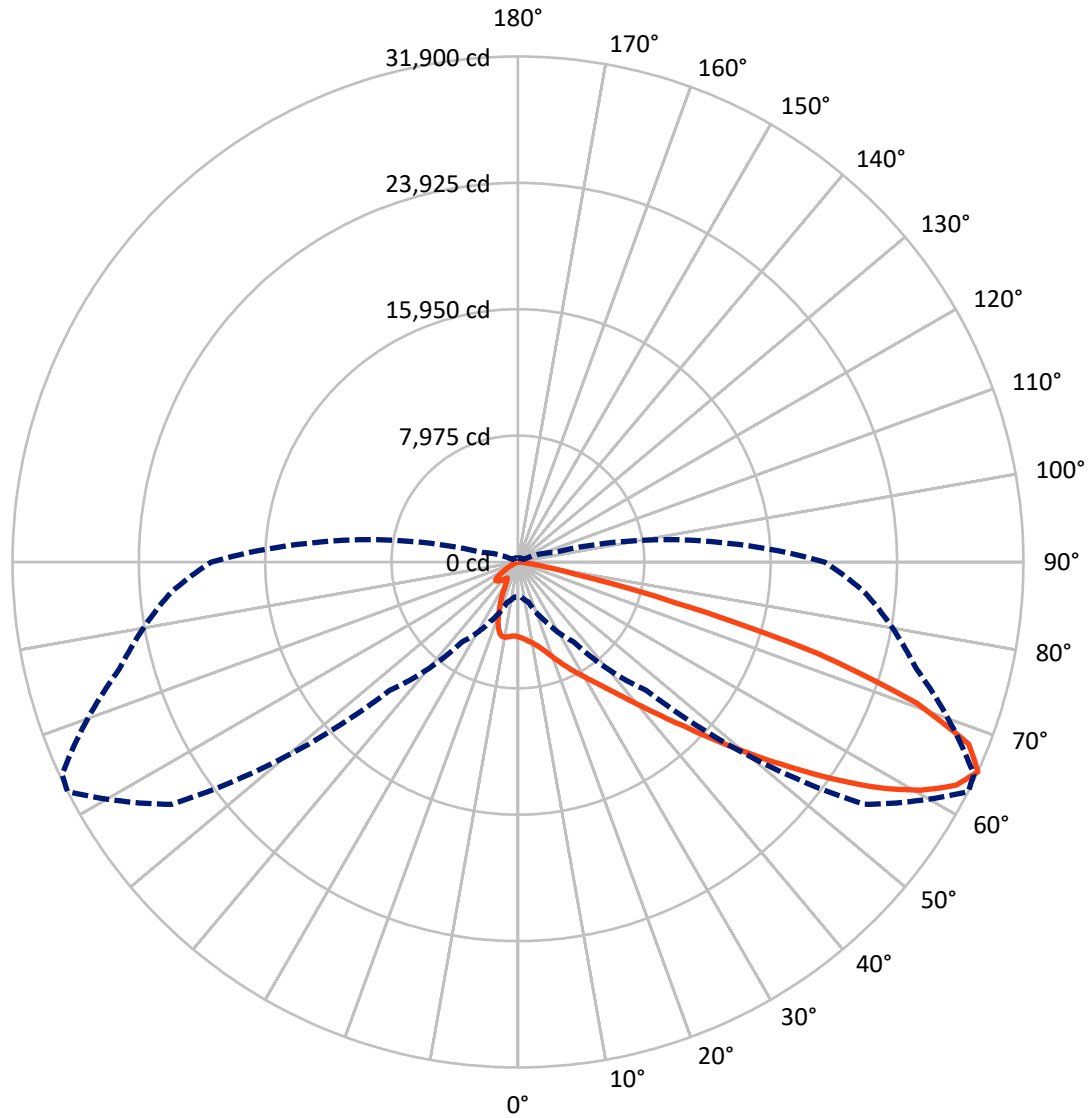
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	5626.6	0.0	5626.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32651.4	0.0	32651.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	38278.0	0.0	38278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	1.2
10°-20°	1235.0	3.2
20°-30°	2150.5	5.6
30°-40°	3876.0	10.1
40°-50°	7687.4	20.1
50°-60°	10471.5	27.4
60°-70°	8358.3	21.8
70°-80°	3782.3	9.9
80°-90°	271.9	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°	38278.0	100.0
0°-180°	38278.0	100.0

Coefficient of Utilization



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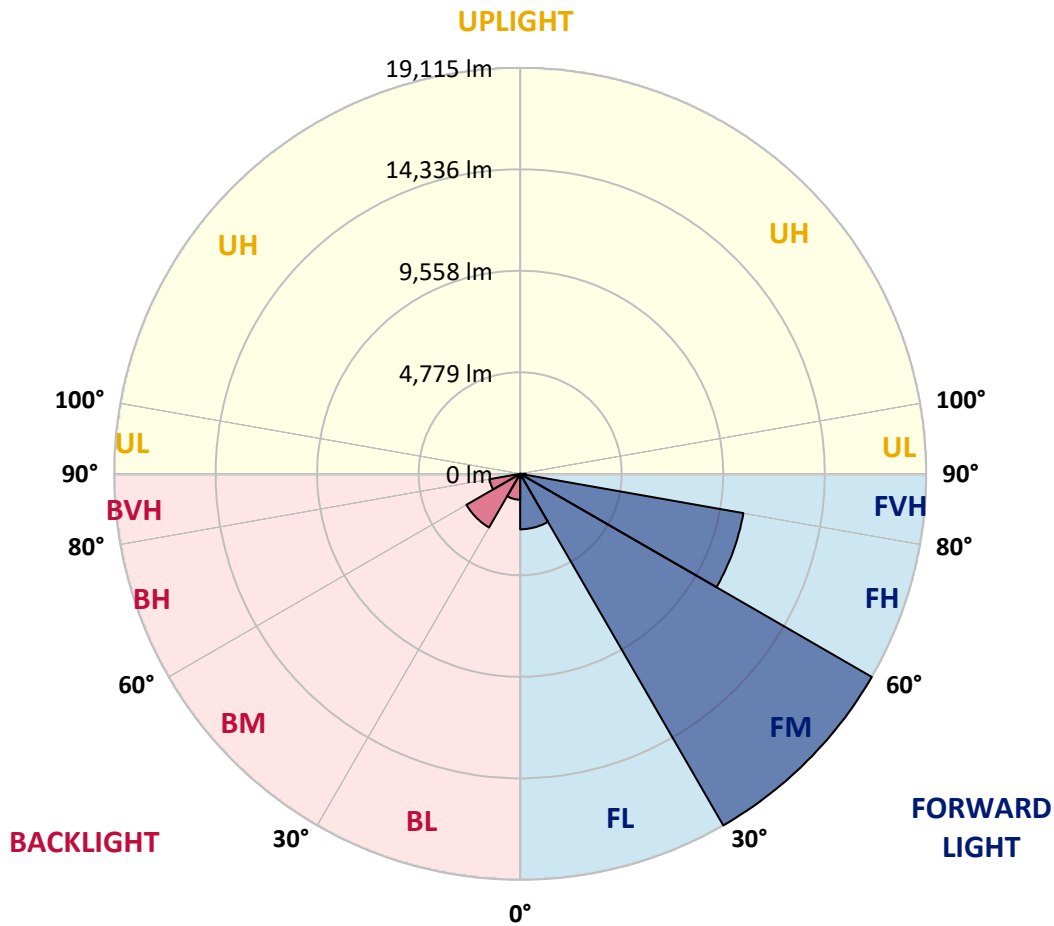
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2612.9	6.8			
FM (30°-60°)	19115.1	49.9			
FH (60°-80°)	10671.7	27.9			G4/12000
FVH (80°-90°)	251.7	0.7			G3/500
BL (0°-30°)	1217.7	3.2	B3/2500		
BM (30°-60°)	2919.8	7.6	B3/5000		
BH (60°-80°)	1468.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	20.2	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°	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2
2.5°	4834.8	4821.7	4840.1	4832.2	4826.9	4816.4	4811.1	4805.9	4795.3	4787.4
5°	4848.0	4840.1	4858.5	4874.3	4890.1	4905.9	4913.8	4924.4	4913.8	4892.8
7.5°	4737.4	4732.1	4771.6	4819.0	4890.1	4950.7	5016.5	5053.4	5056.0	5048.1
10°	4729.5	4716.3	4755.8	4813.8	4905.9	5013.9	5129.8	5208.8	5219.3	5253.5
12.5°	4853.3	4840.1	4895.4	4958.6	5053.4	5166.6	5308.8	5419.4	5435.2	5482.6
15°	5061.3	5042.9	5106.1	5187.7	5308.8	5437.9	5588.0	5688.0	5701.2	5759.1
17.5°	5303.6	5285.1	5358.9	5445.8	5577.4	5753.9	5927.7	6038.3	6054.1	6090.9
20°	5614.3	5590.6	5648.5	5727.5	5867.1	6077.8	6285.8	6443.8	6441.2	6441.2
22.5°	5975.1	5938.2	5988.2	6051.4	6183.1	6438.5	6715.0	6902.0	6902.0	6828.3
25°	6362.2	6325.3	6380.6	6438.5	6554.4	6844.1	7168.0	7399.7	7410.2	7283.8
27.5°	6846.7	6799.3	6841.4	6909.9	6978.4	7273.3	7657.8	7926.4	7931.6	7736.8
30°	7778.9	7644.6	7512.9	7439.2	7470.8	7763.1	8173.9	8471.5	8497.8	8229.2
32.5°	9485.3	9459.0	8995.5	8389.9	8073.8	8289.8	8750.6	9108.8	9124.6	8779.6
35°	12137.1	12105.5	11360.3	10206.9	9177.2	8995.5	9451.1	9875.1	9864.5	9474.8
37.5°	15302.4	15273.4	14291.2	12748.0	11081.1	10062.0	10354.3	10799.4	10865.2	10354.3
40°	18006.8	17898.9	17277.4	15789.6	13609.1	11831.6	11639.4	11934.3	12002.8	11397.1
42.5°	20055.6	19963.4	19647.4	18717.8	16669.1	14449.2	13153.6	13266.8	13343.2	12616.4
45°	21116.8	21095.8	21222.2	21135.3	19787.0	17661.9	15318.2	14846.8	14875.8	13967.3
47.5°	21266.9	21256.4	21833.1	22649.4	22467.7	21285.4	18096.4	16816.6	16713.9	15492.0
50°	20382.1	20361.1	21467.1	22997.0	24258.4	24329.5	21251.1	19036.5	18810.0	17069.4
52.5°	17556.5	17551.3	19368.3	21914.7	24887.8	26994.5	24369.0	21475.0	21095.8	18738.9
55°	13509.1	13606.5	15689.5	18699.4	23739.6	28276.9	27168.3	24182.0	23600.1	20419.0
57.5°	9569.6	9711.8	11771.1	14451.8	20179.4	27518.5	29061.6	26894.4	26267.7	22093.8
60°	5140.3	5266.7	7328.6	10528.1	15012.7	24690.3	30059.7	29248.6	28656.1	23684.3
62.5°	3062.6	3104.7	3957.9	6796.7	10154.2	18862.7	29635.7	31041.9	30554.8	25019.5
65°	2198.8	2206.7	2636.0	4150.2	6164.7	11460.3	26662.7	31900.4	31750.3	26025.4
67.5°	1851.2	1846.0	2025.0	2757.1	4200.2	5740.7	20434.8	30686.4	31323.7	26662.7
70°	1587.9	1595.8	1806.5	2019.8	3157.4	3249.6	10159.5	26718.0	28076.8	26831.2
72.5°	1182.4	1208.7	1403.6	1840.7	2383.2	2235.7	3507.6	19810.7	22267.6	25280.2
75°	834.8	847.9	987.5	1548.4	1777.5	1627.4	1790.7	10241.1	13390.6	19381.5
77.5°	642.5	666.2	747.9	1082.3	1751.2	1142.9	1095.5	3544.5	5445.8	11707.9
80°	347.6	389.7	539.8	782.1	1229.8	808.4	542.5	1411.5	1846.0	5474.7
82.5°	179.1	200.1	376.6	563.5	700.5	705.7	268.6	587.2	761.0	1690.6
85°	71.1	86.9	252.8	310.7	360.8	347.6	121.1	237.0	273.9	468.7
87.5°	15.8	26.3	92.2	71.1	68.5	73.7	29.0	55.3	52.7	55.3
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°
4724.2	0°	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2	4724.2
4755.8	2.5°	4753.2	4742.7	4713.7	4682.1	4645.2	4624.2	4611.0	4608.4	4589.9	4576.8
4861.2	5°	4832.2	4821.7	4766.4	4700.5	4629.4	4574.1	4521.5	4474.1	4405.6	4392.4
5013.9	7.5°	4990.2	4961.2	4871.7	4782.2	4647.9	4487.2	4292.4	4068.5	3868.4	3807.8
5216.7	10°	5185.1	5145.6	5032.3	4874.3	4576.8	4139.6	3668.3	3231.1	2883.5	2786.1
5456.3	12.5°	5406.3	5372.0	5221.9	4929.6	4279.2	3486.6	2765.0	2222.5	1885.5	1801.2
5711.7	15°	5669.6	5619.6	5411.5	4845.4	3747.3	2649.1	1898.6	1577.4	1456.2	1440.4
6004.0	17.5°	5948.7	5867.1	5580.1	4542.5	3031.0	1882.8	1466.8	1374.6	1321.9	1306.1
6299.0	20°	6204.2	6098.8	5680.1	4084.3	2264.7	1466.8	1314.0	1253.5	1206.1	1187.6
6593.9	22.5°	6459.6	6309.5	5680.1	3460.2	1698.5	1300.9	1206.1	1150.8	1095.5	1071.8
6909.9	25°	6725.6	6525.4	5580.1	2765.0	1366.7	1192.9	1103.4	1042.8	995.4	966.4
7210.1	27.5°	6983.6	6707.1	5351.0	2106.7	1216.6	1098.1	1008.6	950.6	905.9	884.8
7536.6	30°	7228.5	6886.2	5029.7	1598.4	1119.2	1005.9	921.7	871.6	826.9	805.8
7960.6	32.5°	7560.3	7112.7	4687.4	1311.4	1034.9	919.0	842.7	795.3	755.8	740.0
8511.0	35°	8021.2	7447.1	4392.4	1287.7	963.8	847.9	771.6	726.8	687.3	674.1
9222.0	37.5°	8674.3	7986.9	4237.1	1445.7	905.9	784.7	713.6	666.2	629.4	618.8
10125.2	40°	9480.1	8719.0	4321.3	1603.7	866.4	729.4	661.0	613.6	582.0	568.8
11162.8	42.5°	10436.0	9622.3	4787.4	1724.8	840.0	682.0	610.9	558.3	537.2	531.9
12339.9	45°	11534.1	10615.0	5501.1	1853.9	797.9	637.3	560.9	521.4	505.6	503.0
13619.7	47.5°	12782.3	11705.2	6327.9	2014.5	755.8	595.1	521.4	495.1	481.9	476.6
14954.8	50°	14020.0	12803.3	7178.5	2104.0	721.5	555.6	489.8	468.7	458.2	455.6
16366.3	52.5°	15315.6	13933.1	7865.8	2019.8	692.6	524.0	463.5	447.7	437.1	434.5
17667.1	55°	16550.6	14846.8	7984.3	1714.3	634.6	492.4	434.5	426.6	413.4	413.4
18986.4	57.5°	17614.5	15305.0	7146.9	1258.7	576.7	445.0	405.5	397.6	387.1	384.5
20176.7	60°	18591.4	15173.4	5516.9	847.9	513.5	397.6	368.7	363.4	352.9	339.7
21211.6	62.5°	19141.8	14594.0	3773.6	553.0	450.3	347.6	326.5	323.9	300.2	273.9
21977.9	65°	19349.8	13403.7	2354.2	402.9	376.6	297.6	281.8	276.5	242.3	213.3
22412.4	67.5°	19168.1	11444.5	1187.6	318.6	297.6	247.5	231.7	231.7	208.0	181.7
22386.1	70°	18441.3	8579.5	500.3	255.4	229.1	189.6	189.6	200.1	176.4	147.5
21224.8	72.5°	16864.0	5772.3	266.0	194.9	171.2	134.3	155.4	163.3	139.6	110.6
17372.2	75°	13406.4	3520.8	184.3	144.8	108.0	94.8	118.5	123.8	94.8	73.7
11910.6	77.5°	9169.3	2022.4	123.8	92.2	68.5	55.3	81.6	76.4	50.0	34.2
4592.6	80°	4026.4	842.7	71.1	42.1	26.3	21.1	29.0	21.1	15.8	10.5
629.4	82.5°	471.4	197.5	26.3	15.8	10.5	5.3	2.6	0.0	0.0	0.0
192.2	85°	97.4	23.7	13.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0
34.2	87.5°	18.4	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°
4724.2
4589.9
4387.2
3778.9
2749.2
1777.5
1424.6
1298.2
1177.1
1058.6
955.9
884.8
808.4
740.0
674.1
616.2
566.2
531.9
500.3
476.6
455.6
434.5
410.8
381.8
337.1
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