

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: P956586

Luminaire Tested: **GALN-SB9A-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956586
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-SB9A-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA 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: 24649 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

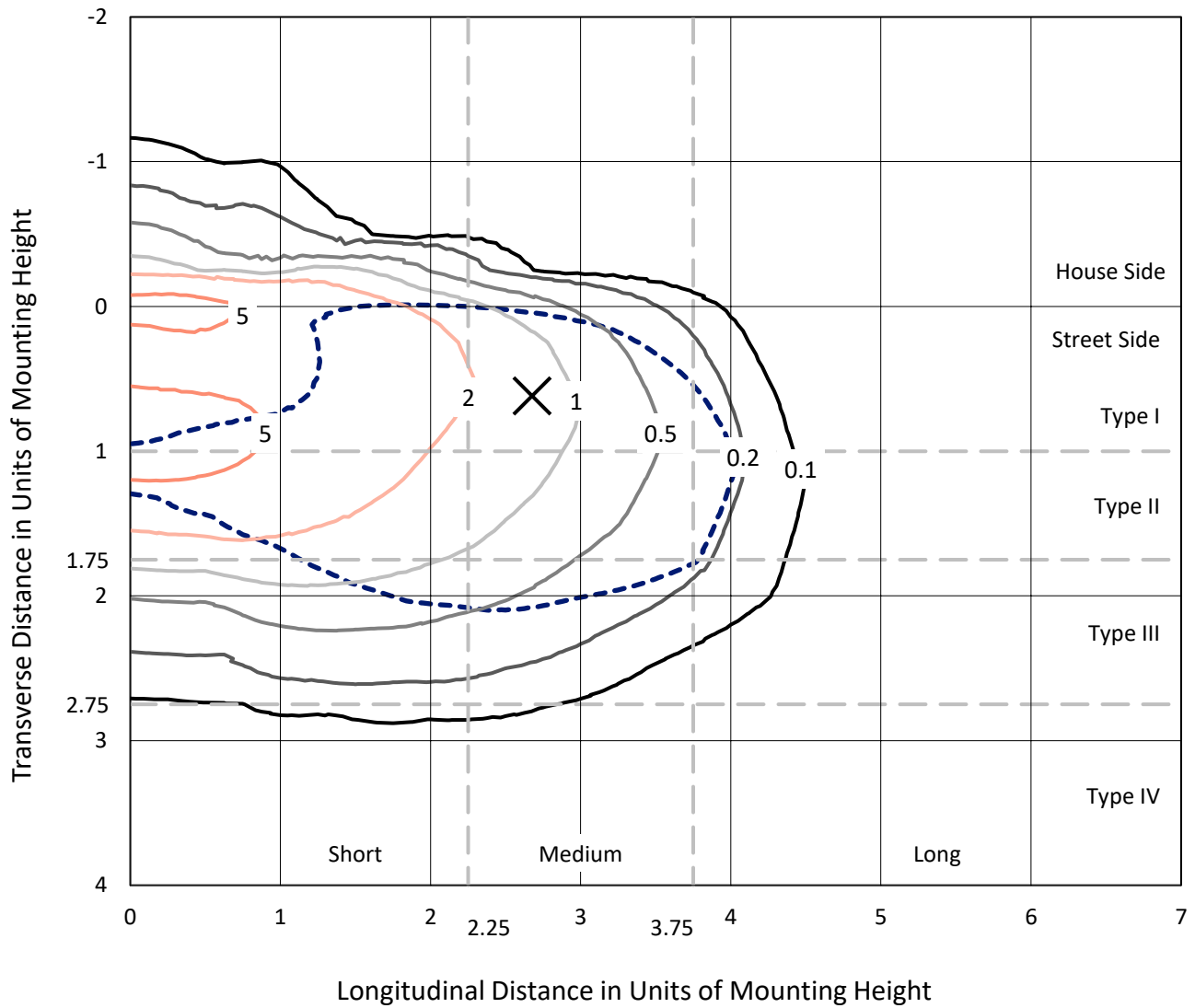
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

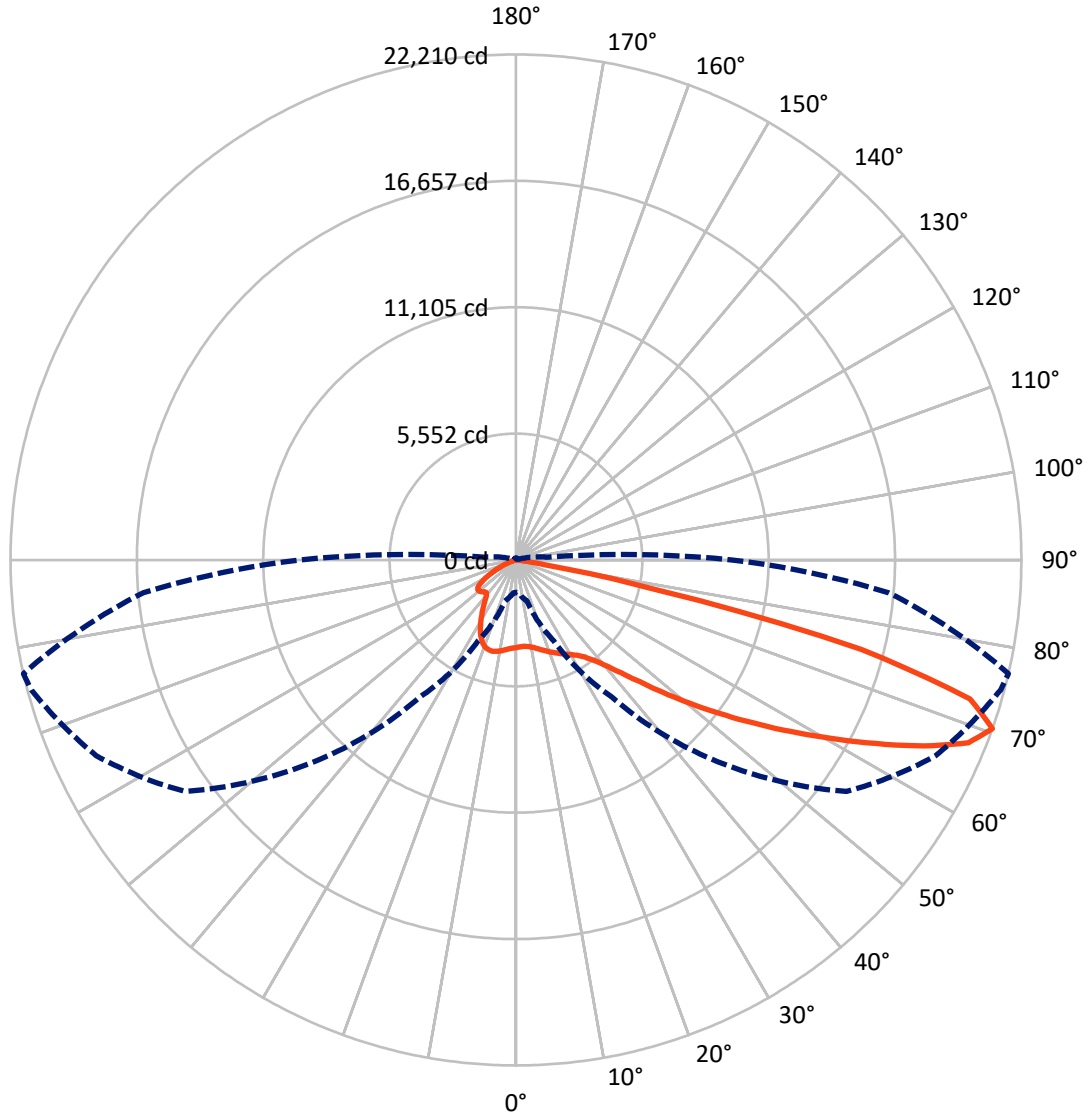
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2598.4	0.0	2598.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22050.6	0.0	22050.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	24649.0	0.0	24649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	1.3
10°-20°	786.6	3.2
20°-30°	1216.7	4.9
30°-40°	2207.7	9.0
40°-50°	4167.3	16.9
50°-60°	6021.4	24.4
60°-70°	6409.7	26.0
70°-80°	3396.7	13.8
80°-90°	111.5	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°	24649.0	100.0
0°-180°	24649.0	100.0

Coefficient of Utilization



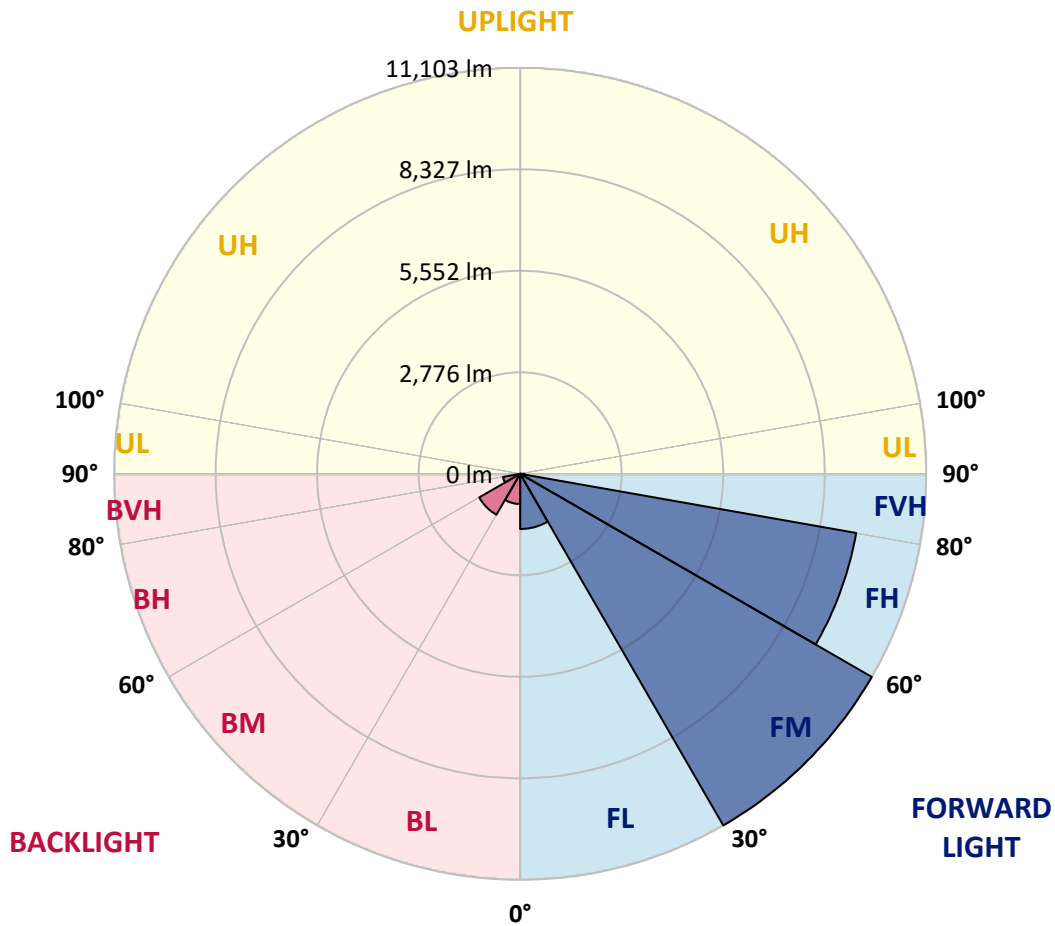
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.1	6.1			
FM (30°-60°)	11103.0	45.0			
FH (60°-80°)	9330.0	37.9			G4/12000
FVH (80°-90°)	108.5	0.4			G2/225
BL (0°-30°)	825.5	3.3	B2/1000		
BM (30°-60°)	1293.5	5.2	B2/2500		
BH (60°-80°)	476.3	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
2.5°	3609.8	3642.4	3637.8	3659.6	3667.3	3698.5	3729.6	3771.6	3818.3	3816.8
5°	3405.8	3438.5	3446.3	3475.9	3513.2	3561.5	3625.3	3709.4	3796.5	3810.6
7.5°	3164.6	3198.8	3219.0	3278.2	3346.7	3446.3	3550.6	3673.6	3818.3	3838.6
10°	2923.3	2954.4	2980.9	3064.9	3173.9	3321.8	3491.5	3668.9	3863.5	3893.1
12.5°	2773.9	2803.4	2833.0	2906.2	3041.6	3222.2	3452.5	3690.7	3938.2	3980.2
15°	2720.9	2747.4	2770.7	2836.1	2962.2	3167.7	3444.8	3735.8	4033.1	4089.2
17.5°	2728.7	2742.7	2758.3	2808.1	2931.1	3142.8	3458.8	3813.7	4145.2	4195.0
20°	2773.9	2781.6	2783.2	2817.4	2926.4	3139.7	3486.8	3888.4	4251.1	4318.0
22.5°	2831.5	2834.6	2831.5	2854.8	2956.0	3163.0	3524.1	3978.7	4369.4	4431.6
25°	3100.7	3041.6	2966.9	2921.7	3005.8	3208.1	3580.2	4100.1	4498.6	4559.3
27.5°	3936.6	3767.0	3499.2	3198.8	3108.5	3273.5	3658.0	4223.1	4629.3	4683.8
30°	5294.0	5071.4	4616.9	3939.8	3438.5	3410.5	3759.2	4346.0	4767.9	4827.0
32.5°	6654.5	6600.0	6075.4	5138.3	4181.0	3715.6	3927.3	4512.6	4951.5	4998.2
35°	8030.5	7920.0	7490.4	6564.2	5325.1	4336.7	4207.5	4730.5	5192.8	5245.7
37.5°	9084.3	9017.4	8751.2	7988.5	6682.5	5295.5	4686.9	5068.3	5543.0	5602.2
40°	10015.2	9984.0	9893.7	9391.0	8200.2	6550.2	5432.5	5591.3	6028.7	6098.8
42.5°	10746.8	10819.9	10871.3	10731.2	9764.5	7982.2	6435.0	6326.0	6705.8	6777.4
45°	11495.5	11520.4	11727.4	11929.8	11318.0	9479.7	7565.1	7186.8	7547.9	7636.7
47.5°	11976.5	12076.1	12440.3	12796.8	12624.0	10964.7	8779.2	8203.3	8523.9	8690.5
50°	12012.3	12200.6	12701.8	13322.9	13575.1	12378.1	10099.2	9361.4	9702.3	9886.0
52.5°	11416.1	11708.7	12485.5	13394.5	14088.8	13575.1	11464.3	10519.5	10956.9	11196.6
55°	8752.8	9135.7	11671.4	13005.4	14109.0	14482.6	12793.7	11725.9	12354.7	12625.6
57.5°	7625.8	7818.8	9176.1	12329.8	13733.9	14848.4	13995.4	12874.6	13875.5	14211.7
60°	6344.7	6598.4	7695.8	11224.6	13224.9	14884.2	15057.0	14356.5	15524.0	15902.2
62.5°	4311.8	4587.3	5678.5	9325.6	12529.1	14867.1	15927.1	15882.0	17356.1	17762.3
65°	2671.1	2843.9	3563.1	7614.9	11556.2	14885.8	16837.7	17734.3	19289.4	19701.9
67.5°	2110.7	2190.1	2565.3	5846.6	9879.7	14465.5	17746.8	19476.2	21109.0	21435.9
70°	1418.1	1466.3	1866.4	3919.5	7350.3	12525.9	17729.7	20351.0	22046.1	22209.6
72.5°	747.2	784.5	1091.2	1815.0	4439.4	8903.7	14944.9	19304.9	21113.7	20867.8
75°	373.6	435.8	734.7	921.5	1895.9	4965.5	9280.4	15220.4	16618.2	15665.6
77.5°	283.3	342.5	607.1	607.1	660.0	1671.8	3930.4	8301.3	7656.9	6375.8
80°	180.6	233.5	530.8	459.2	275.5	425.0	1024.2	2325.6	1626.6	1237.5
82.5°	105.8	152.5	442.1	303.5	154.1	157.2	289.5	495.0	421.8	328.4
85°	42.0	99.6	303.5	119.9	60.7	38.9	87.2	105.8	87.2	65.4
87.5°	0.0	23.3	52.9	0.0	4.7	3.1	6.2	7.8	7.8	6.2
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°
3844.8	0°	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8	3844.8
3847.9	2.5°	3861.9	3865.0	3874.4	3875.9	3854.1	3826.1	3815.2	3810.6	3791.9	3790.3
3872.8	5°	3908.6	3922.6	3908.6	3868.1	3771.6	3636.2	3533.5	3449.4	3373.1	3349.8
3958.4	7.5°	4002.0	4016.0	3974.0	3815.2	3572.4	3303.1	3060.3	2889.0	2734.9	2677.3
4062.7	10°	4135.9	4154.6	4022.3	3701.6	3272.0	2839.2	2428.3	2138.8	1913.1	1821.2
4204.4	12.5°	4304.0	4311.8	4048.7	3528.8	2881.3	2263.3	1681.1	1371.4	1170.6	1095.8
4375.6	15°	4489.2	4478.3	4051.8	3293.8	2348.9	1600.2	1097.4	901.3	820.3	795.4
4546.8	17.5°	4683.8	4638.7	3989.6	2954.4	1765.2	1094.3	814.1	767.4	753.4	747.2
4716.5	20°	4875.3	4774.1	3875.9	2510.8	1267.1	817.2	739.4	725.4	717.6	714.5
4887.7	22.5°	5049.6	4876.8	3681.4	1995.6	919.9	722.3	698.9	686.5	672.5	666.2
5054.3	25°	5219.3	4936.0	3407.4	1514.6	736.3	675.6	656.9	633.5	614.9	607.1
5233.3	27.5°	5384.3	4973.3	3064.9	1120.8	656.9	632.0	597.7	565.0	551.0	547.9
5424.7	30°	5560.2	4985.8	2675.8	835.9	608.6	577.5	527.7	490.3	482.5	484.1
5683.1	32.5°	5775.0	5004.5	2283.5	684.9	568.2	512.1	453.0	414.1	407.8	414.1
6059.8	35°	6031.8	5041.8	1905.3	630.4	532.4	445.2	381.4	348.7	342.5	347.1
6542.4	37.5°	6380.5	5102.5	1551.9	619.5	502.8	389.1	320.7	294.2	294.2	295.8
7133.9	40°	6844.4	5264.4	1235.9	611.7	487.2	347.1	270.8	260.0	264.6	267.7
7887.3	42.5°	7409.4	5608.4	1022.7	602.4	470.1	328.4	245.9	241.3	249.1	252.2
8790.1	45°	8042.9	6044.3	948.0	586.8	454.5	340.9	235.0	228.8	238.2	239.7
9801.9	47.5°	8698.3	6470.8	938.6	569.7	439.0	359.6	231.9	217.9	228.8	230.4
10882.2	50°	9361.4	6749.4	948.0	543.3	414.1	359.6	233.5	207.0	216.4	221.0
12002.9	52.5°	10029.2	6877.1	941.7	485.7	370.5	337.8	233.5	197.7	207.0	210.1
13214.0	55°	10676.7	6852.1	846.8	400.0	314.4	298.9	227.3	189.9	196.1	197.7
14358.1	57.5°	11188.8	6505.0	670.9	311.3	255.3	249.1	207.0	180.6	185.2	183.7
15407.2	60°	11456.6	5742.3	479.4	239.7	200.8	196.1	182.1	168.1	171.2	163.4
16296.0	62.5°	11459.7	4733.6	320.7	189.9	160.3	155.7	155.7	151.0	147.9	132.3
16984.0	65°	11215.3	3614.4	213.3	151.0	129.2	121.4	130.8	129.2	118.3	96.5
17194.2	67.5°	10661.1	2369.1	161.9	118.3	99.6	95.0	104.3	109.0	101.2	80.9
16428.3	70°	9521.7	1379.1	133.9	91.8	74.7	70.0	84.1	93.4	84.1	65.4
14042.1	72.5°	7909.1	744.1	109.0	68.5	51.4	46.7	66.9	76.3	66.9	48.3
9009.6	75°	5132.1	398.5	84.1	45.1	26.5	29.6	49.8	56.0	46.7	31.1
2644.7	77.5°	1723.2	175.9	52.9	21.8	12.5	12.5	29.6	34.2	21.8	10.9
481.0	80°	384.5	73.2	21.8	9.3	4.7	4.7	6.2	6.2	3.1	0.0
147.9	82.5°	126.1	29.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
37.4	85°	48.3	10.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	18.7	1.6	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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<u>180°</u>
3844.8
3793.4
3335.8
2654.0
1782.3
1072.5
795.4
745.6
711.4
664.7
604.0
544.8
484.1
412.5
345.6
294.2
267.7
252.2
241.3
231.9
222.6
210.1
197.7
183.7
161.9
127.6
93.4
79.4
62.3
46.7
28.0
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