

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: P957237

Luminaire Tested: **GALN-SB9C-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957237
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-SB9C-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 34568 lumens
Efficiency: N/A
Efficacy: 76.9 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

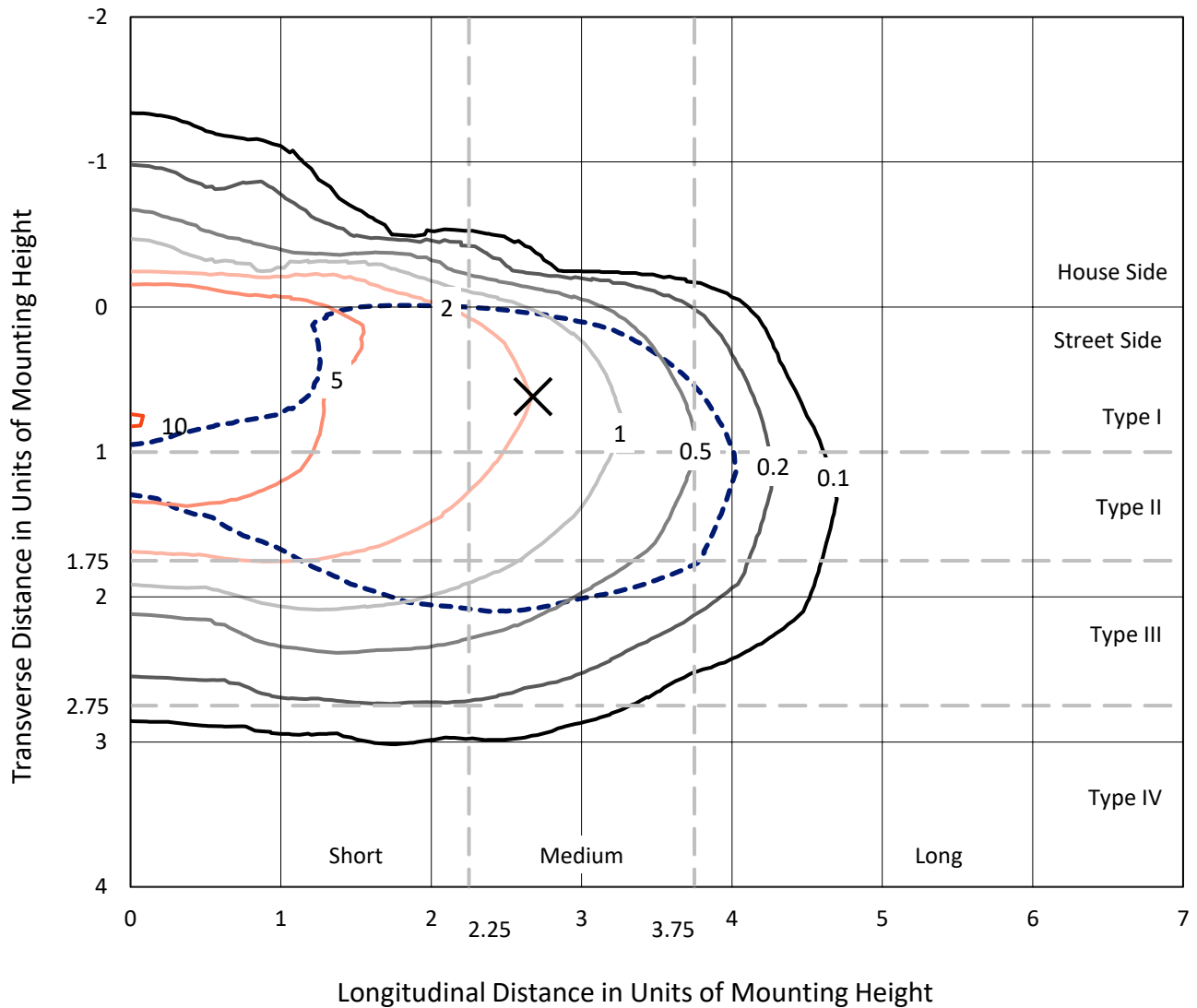
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

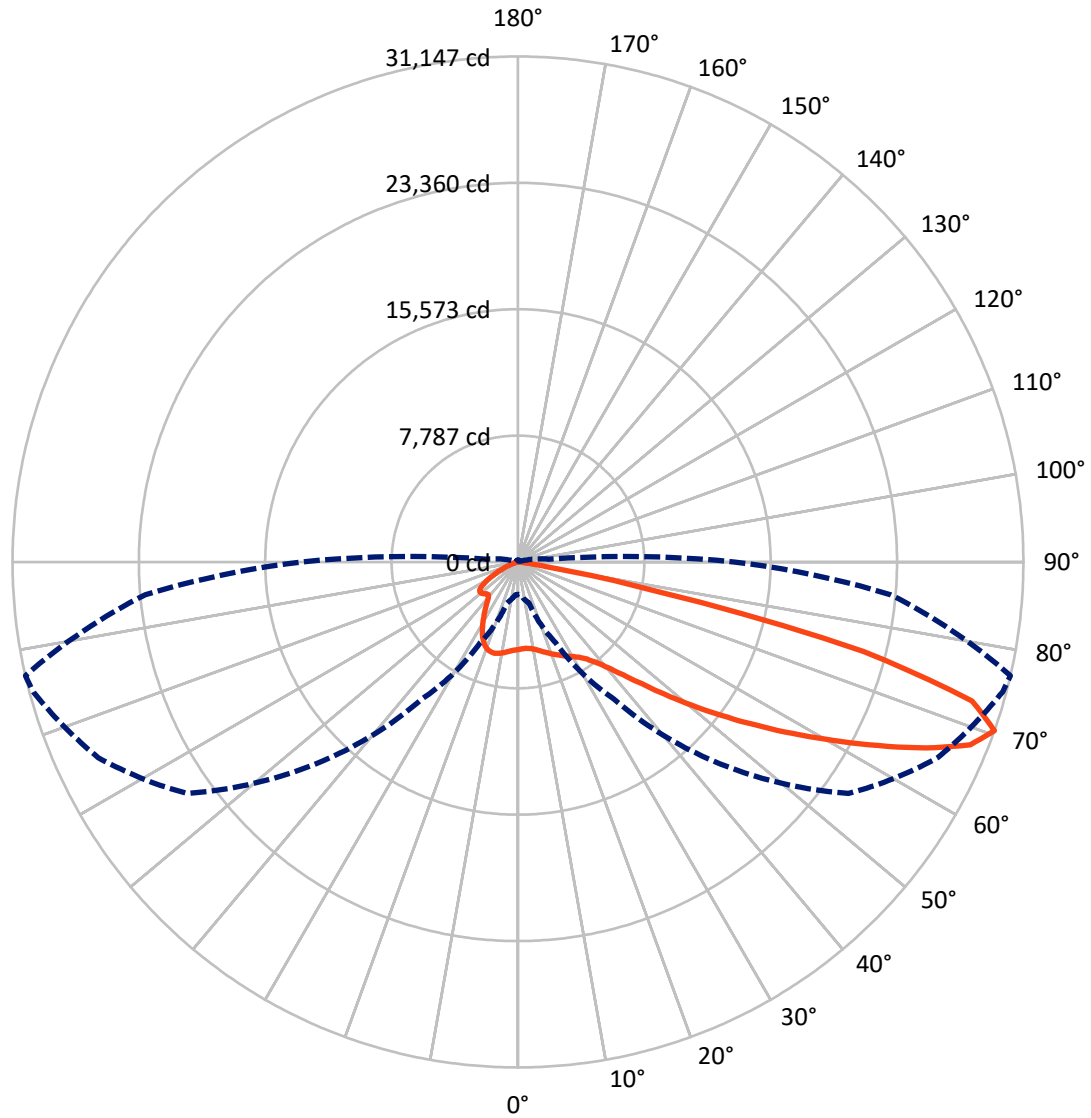
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3644.0	0.0	3644.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30924.0	0.0	30924.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	34568.0	0.0	34568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	1.3
10°-20°	1103.2	3.2
20°-30°	1706.3	4.9
30°-40°	3096.1	9.0
40°-50°	5844.3	16.9
50°-60°	8444.5	24.4
60°-70°	8989.0	26.0
70°-80°	4763.5	13.8
80°-90°	156.4	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°	34568.0	100.0
0°-180°	34568.0	100.0

Coefficient of Utilization



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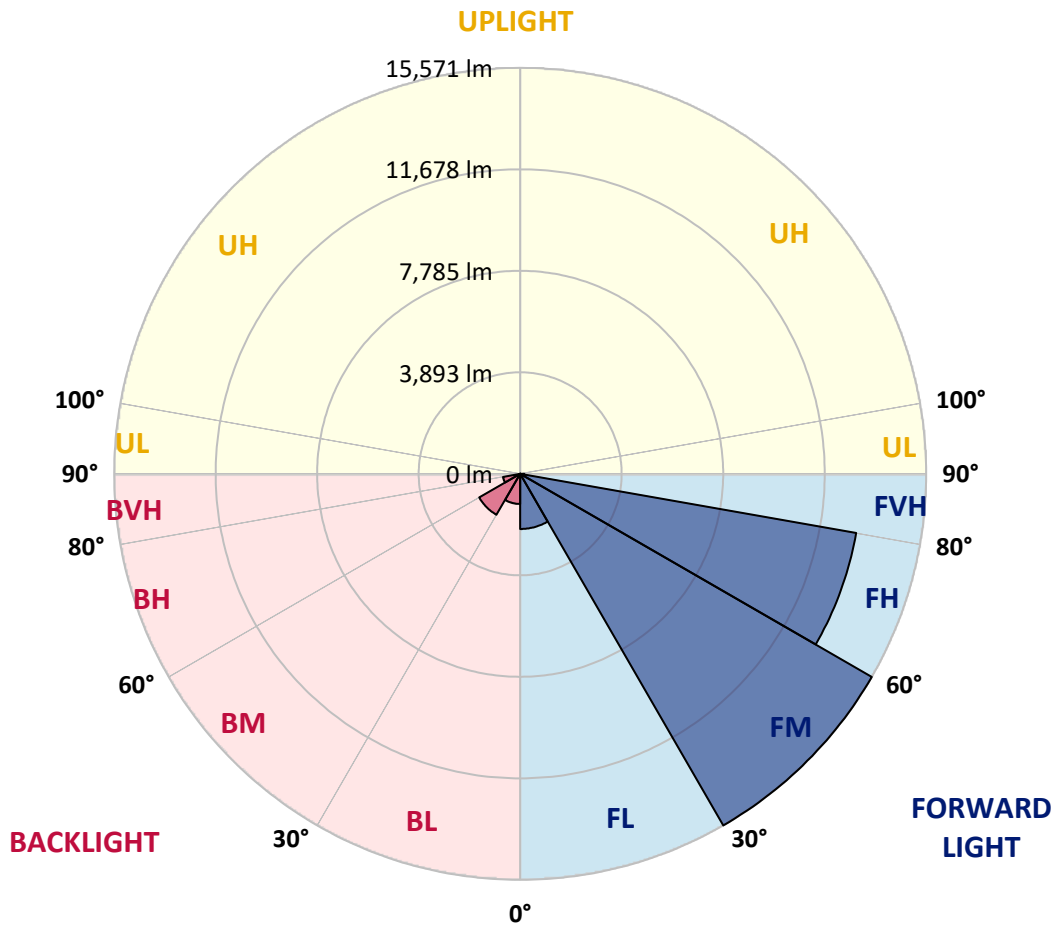
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.4	6.1			
FM (30°-60°)	15571.0	45.0			
FH (60°-80°)	13084.5	37.9			G5
FVH (80°-90°)	152.2	0.4			G2/225
BL (0°-30°)	1157.7	3.3	B3/2500		
BM (30°-60°)	1814.0	5.2	B2/2500		
BH (60°-80°)	668.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0
2.5°	5062.4	5108.2	5101.6	5132.2	5143.1	5186.8	5230.4	5289.4	5354.9	5352.7
5°	4776.4	4822.2	4833.1	4874.6	4927.0	4994.7	5084.2	5202.1	5324.3	5344.0
7.5°	4438.0	4486.0	4514.4	4597.4	4693.4	4833.1	4979.4	5151.9	5354.9	5383.3
10°	4099.7	4143.3	4180.4	4298.3	4451.1	4658.5	4896.4	5145.3	5418.2	5459.7
12.5°	3890.1	3931.6	3973.0	4075.6	4265.6	4518.8	4841.9	5175.9	5523.0	5581.9
15°	3815.9	3853.0	3885.7	3977.4	4154.2	4442.4	4831.0	5239.2	5656.1	5734.7
17.5°	3826.8	3846.4	3868.3	3938.1	4110.6	4407.5	4850.6	5348.3	5813.3	5883.2
20°	3890.1	3901.0	3903.2	3951.2	4104.0	4403.1	4889.9	5453.1	5961.7	6055.6
22.5°	3970.9	3975.2	3970.9	4003.6	4145.5	4435.8	4942.3	5579.7	6127.7	6215.0
25°	4348.5	4265.6	4160.8	4097.5	4215.4	4499.1	5020.9	5750.0	6308.8	6394.0
27.5°	5520.8	5282.8	4907.4	4486.0	4359.4	4590.8	5130.0	5922.5	6492.2	6568.6
30°	7424.3	7112.2	6474.7	5525.1	4822.2	4782.9	5271.9	6094.9	6686.5	6769.4
32.5°	9332.3	9255.9	8520.2	7206.0	5863.5	5210.8	5507.7	6328.5	6944.1	7009.6
35°	11262.0	11107.0	10504.5	9205.7	7468.0	6081.8	5900.6	6634.1	7282.5	7356.7
37.5°	12739.9	12646.1	12272.8	11203.1	9371.6	7426.5	6573.0	7107.8	7773.6	7856.6
40°	14045.4	14001.7	13875.1	13170.0	11500.0	9186.0	7618.6	7841.3	8454.7	8553.0
42.5°	15071.4	15174.0	15246.0	15049.5	13693.9	11194.4	9024.5	8871.7	9404.3	9504.7
45°	16121.4	16156.3	16446.6	16730.4	15872.5	13294.4	10609.3	10078.9	10585.3	10709.7
47.5°	16795.9	16935.6	17446.5	17946.4	17704.0	15377.0	12312.1	11504.4	11954.0	12187.6
50°	16846.1	17110.3	17813.2	18684.2	19037.9	17359.1	14163.2	13128.5	13606.6	13864.2
52.5°	16010.0	16420.4	17509.8	18784.6	19758.2	19037.9	16077.7	14752.6	15366.1	15702.2
55°	12274.9	12812.0	16368.1	18238.9	19786.6	20310.5	17942.0	16444.5	17326.4	17706.2
57.5°	10694.5	10965.2	12868.7	17291.5	19260.5	20823.5	19627.3	18055.5	19459.2	19930.7
60°	8897.9	9253.7	10792.7	15741.5	18546.7	20873.7	21116.1	20133.7	21771.0	22301.4
62.5°	6046.9	6433.3	7963.5	13078.3	17570.9	20849.7	22336.3	22273.0	24340.3	24910.1
65°	3746.0	3988.3	4996.9	10679.2	16206.5	20875.9	23613.4	24870.8	27051.6	27630.1
67.5°	2960.1	3071.5	3597.6	8199.3	13855.4	20286.5	24888.3	27313.6	29603.5	30061.9
70°	1988.7	2056.4	2617.4	5496.8	10308.1	17566.5	24864.2	28540.4	30917.7	31146.9
72.5°	1047.8	1100.2	1530.3	2545.4	6225.9	12486.7	20958.9	27073.4	29610.1	29265.2
75°	523.9	611.2	1030.4	1292.3	2658.9	6963.7	13015.0	21345.3	23305.6	21969.6
77.5°	397.3	480.3	851.4	851.4	925.6	2344.5	5512.0	11641.9	10738.1	8941.5
80°	253.2	327.4	744.4	644.0	386.4	596.0	1436.4	3261.4	2281.2	1735.5
82.5°	148.4	213.9	620.0	425.7	216.1	220.5	406.0	694.2	591.6	460.6
85°	58.9	139.7	425.7	168.1	85.1	54.6	122.2	148.4	122.2	91.7
87.5°	0.0	32.7	74.2	0.0	6.5	4.4	8.7	10.9	10.9	8.7
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°
5392.0	0°	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0	5392.0
5396.3	2.5°	5416.0	5420.4	5433.5	5435.6	5405.1	5365.8	5350.5	5344.0	5317.8	5315.6
5431.3	5°	5481.5	5501.1	5481.5	5424.7	5289.4	5099.5	4955.4	4837.5	4730.5	4697.8
5551.3	7.5°	5612.5	5632.1	5573.2	5350.5	5010.0	4632.3	4291.8	4051.6	3835.5	3754.7
5697.6	10°	5800.2	5826.4	5640.8	5191.1	4588.6	3981.8	3405.5	2999.4	2682.9	2554.1
5896.3	12.5°	6036.0	6046.9	5678.0	4948.8	4040.7	3174.1	2357.6	1923.2	1641.6	1536.8
6136.4	15°	6295.7	6280.5	5682.3	4619.2	3294.1	2244.1	1539.0	1264.0	1150.4	1115.5
6376.5	17.5°	6568.6	6505.3	5595.0	4143.3	2475.5	1534.6	1141.7	1076.2	1056.6	1047.8
6614.5	20°	6837.1	6695.2	5435.6	3521.2	1777.0	1146.1	1036.9	1017.3	1006.4	1002.0
6854.6	22.5°	7081.6	6839.3	5162.8	2798.6	1290.1	1012.9	980.2	962.7	943.1	934.3
7088.2	25°	7319.6	6922.3	4778.6	2124.0	1032.6	947.4	921.2	888.5	862.3	851.4
7339.2	27.5°	7551.0	6974.7	4298.3	1571.8	921.2	886.3	838.3	792.4	772.8	768.4
7607.7	30°	7797.6	6992.1	3752.6	1172.3	853.5	809.9	740.0	687.6	676.7	678.9
7970.1	32.5°	8098.9	7018.3	3202.4	960.5	796.8	718.2	635.2	580.7	571.9	580.7
8498.4	35°	8459.1	7070.7	2672.0	884.1	746.6	624.3	534.8	489.0	480.3	486.8
9175.1	37.5°	8948.1	7155.8	2176.4	868.8	705.1	545.7	449.7	412.6	412.6	414.8
10004.6	40°	9598.6	7382.9	1733.3	857.9	683.3	486.8	379.8	364.6	371.1	375.5
11061.2	42.5°	10391.0	7865.3	1434.2	844.8	659.3	460.6	344.9	338.4	349.3	353.6
12327.3	45°	11279.5	8476.5	1329.4	823.0	637.4	478.1	329.6	320.9	334.0	336.2
13746.3	47.5°	12198.5	9074.7	1316.3	799.0	615.6	504.3	325.3	305.6	320.9	323.1
15261.3	50°	13128.5	9465.4	1329.4	761.9	580.7	504.3	327.4	290.3	303.4	310.0
16833.0	52.5°	14065.0	9644.4	1320.7	681.1	519.6	473.7	327.4	277.2	290.3	294.7
18531.4	55°	14973.1	9609.5	1187.5	561.0	441.0	419.1	318.7	266.3	275.1	277.2
20135.9	57.5°	15691.3	9122.7	940.9	436.6	358.0	349.3	290.3	253.2	259.8	257.6
21607.2	60°	16066.8	8053.0	672.4	336.2	281.6	275.1	255.4	235.8	240.1	229.2
22853.7	62.5°	16071.2	6638.5	449.7	266.3	224.8	218.3	218.3	211.7	207.4	185.6
23818.6	65°	15728.4	5068.9	299.1	211.7	181.2	170.3	183.4	181.2	165.9	135.3
24113.3	67.5°	14951.3	3322.5	227.0	165.9	139.7	133.2	146.3	152.8	141.9	113.5
23039.3	70°	13353.3	1934.1	187.7	128.8	104.8	98.2	117.9	131.0	117.9	91.7
19692.7	72.5°	11091.8	1043.5	152.8	96.1	72.0	65.5	93.9	107.0	93.9	67.7
12635.1	75°	7197.3	558.8	117.9	63.3	37.1	41.5	69.9	78.6	65.5	43.7
3708.9	77.5°	2416.6	246.7	74.2	30.6	17.5	17.5	41.5	48.0	30.6	15.3
674.5	80°	539.2	102.6	30.6	13.1	6.5	6.5	8.7	8.7	4.4	0.0
207.4	82.5°	176.8	41.5	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
52.4	85°	67.7	15.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5	87.5°	26.2	2.2	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°
5392.0
5319.9
4678.1
3722.0
2499.5
1504.1
1115.5
1045.7
997.6
932.1
847.0
764.0
678.9
578.5
484.6
412.6
375.5
353.6
338.4
325.3
312.2
294.7
277.2
257.6
227.0
179.0
131.0
111.3
87.3
65.5
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