

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: P955179

Luminaire Tested: **GALN-SB8A-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955179
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-SB8A-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 21008 lumens
Efficiency: N/A
Efficacy: 92.5 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

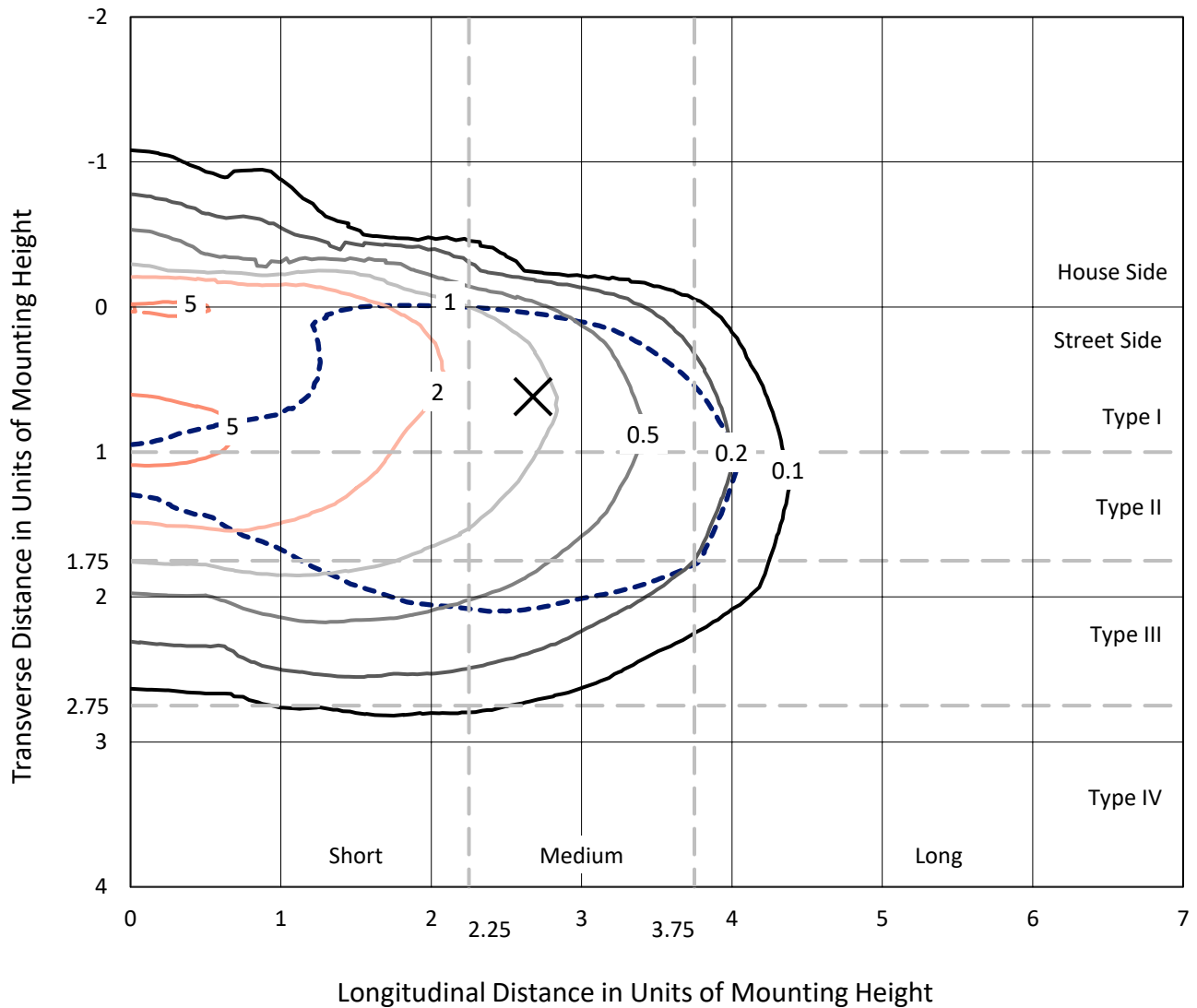
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

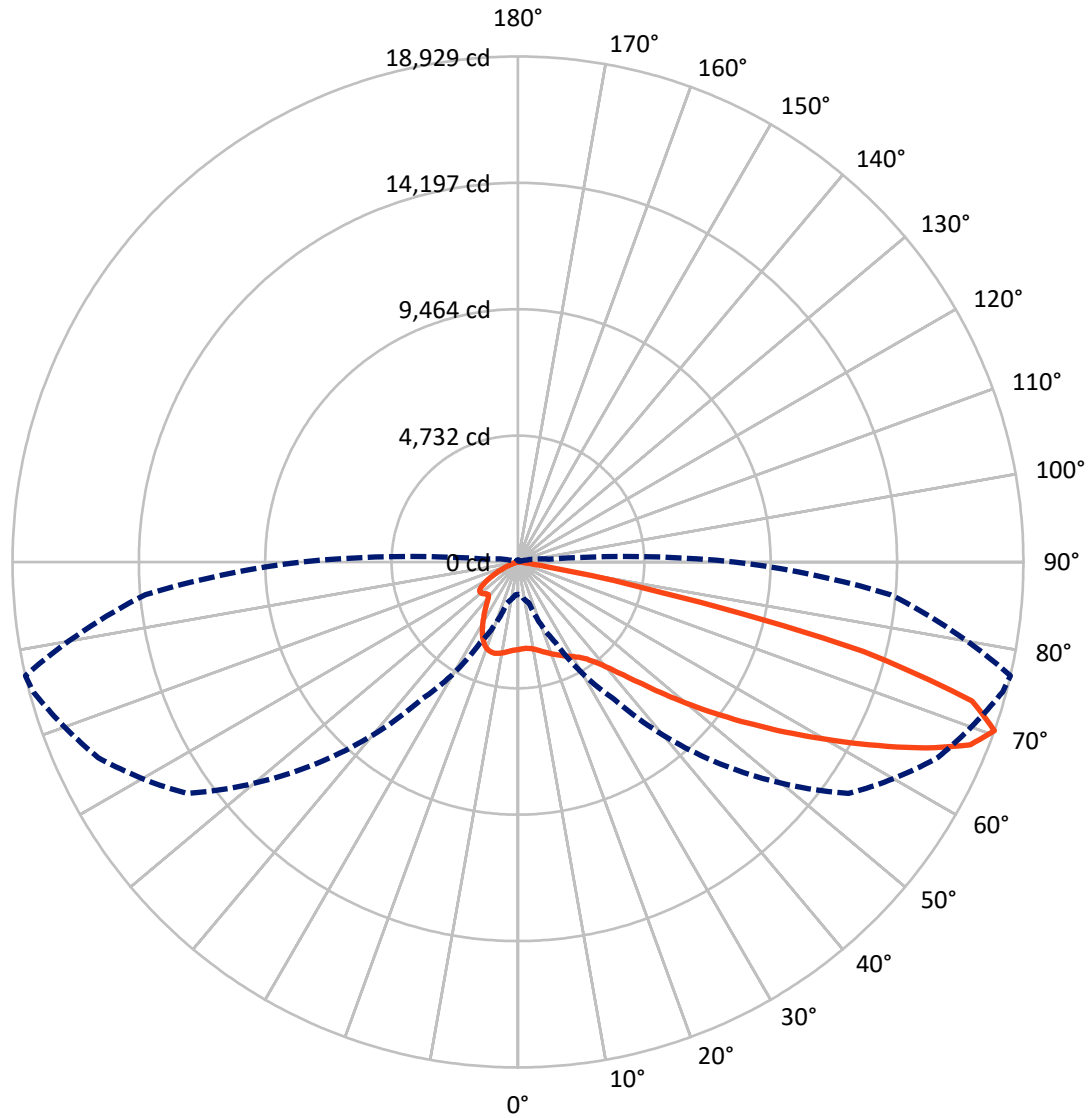
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SB8A-950-U-T3R-HSS

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	2214.5	0.0	2214.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18793.5	0.0	18793.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	21008.0	0.0	21008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	1.3
10°-20°	670.4	3.2
20°-30°	1037.0	4.9
30°-40°	1881.6	9.0
40°-50°	3551.8	16.9
50°-60°	5132.0	24.4
60°-70°	5462.9	26.0
70°-80°	2894.9	13.8
80°-90°	95.1	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°	21008.0	100.0
0°-180°	21008.0	100.0

Coefficient of Utilization



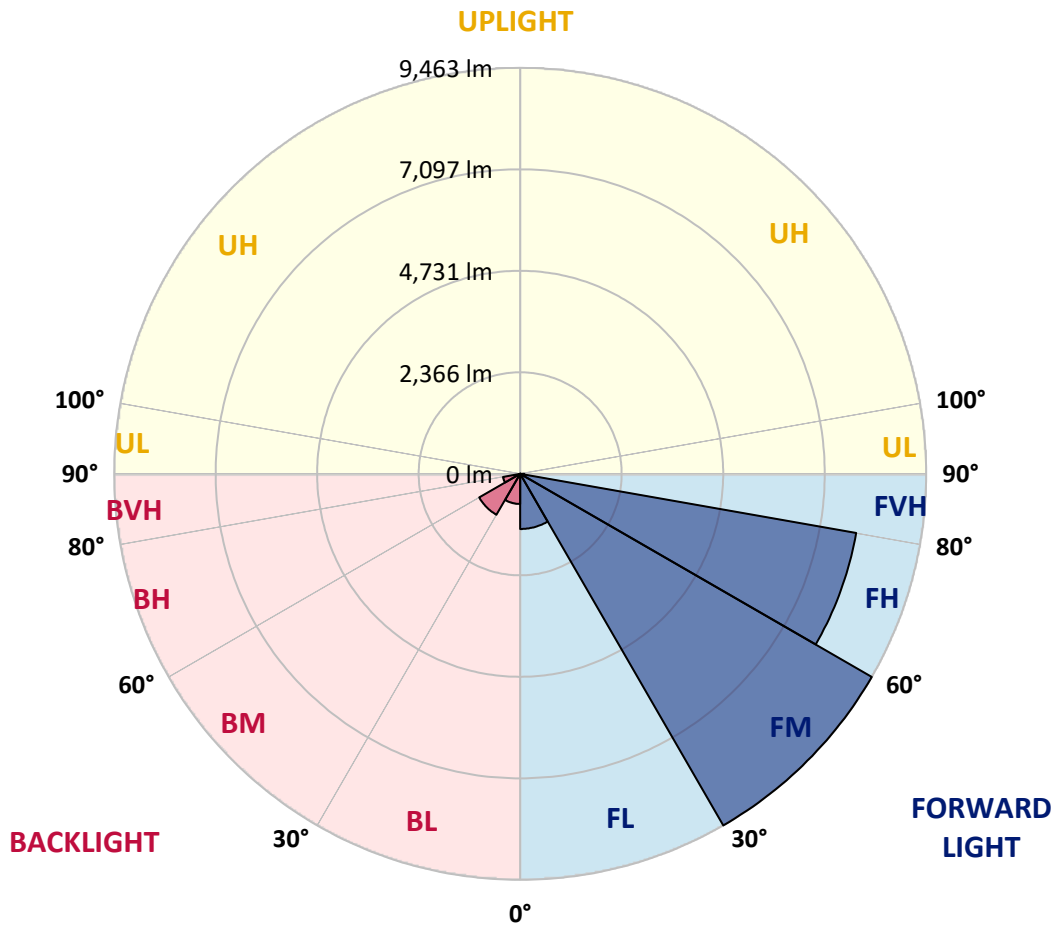
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.2	6.1			
FM (30°-60°)	9462.9	45.0			
FH (60°-80°)	7951.8	37.9			G4/12000
FVH (80°-90°)	92.5	0.4			G1/100
BL (0°-30°)	703.6	3.3	B2/1000		
BM (30°-60°)	1102.4	5.2	B2/2500		
BH (60°-80°)	406.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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°	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9
2.5°	3076.5	3104.4	3100.4	3119.0	3125.6	3152.2	3178.7	3214.5	3254.3	3253.0
5°	2902.7	2930.6	2937.2	2962.4	2994.3	3035.4	3089.8	3161.4	3235.7	3247.7
7.5°	2697.1	2726.3	2743.5	2794.0	2852.3	2937.2	3026.1	3130.9	3254.3	3271.6
10°	2491.5	2518.0	2540.6	2612.2	2705.1	2831.1	2975.7	3127.0	3292.8	3318.0
12.5°	2364.1	2389.3	2414.5	2476.9	2592.3	2746.2	2942.5	3145.5	3356.5	3392.3
15°	2319.0	2341.6	2361.5	2417.2	2524.6	2699.8	2935.9	3184.0	3437.4	3485.2
17.5°	2325.6	2337.6	2350.9	2393.3	2498.1	2678.5	2947.9	3250.3	3532.9	3575.4
20°	2364.1	2370.8	2372.1	2401.3	2494.1	2675.9	2971.7	3314.0	3623.1	3680.2
22.5°	2413.2	2415.9	2413.2	2433.1	2519.3	2695.8	3003.6	3391.0	3724.0	3777.0
25°	2642.7	2592.3	2528.6	2490.2	2561.8	2734.3	3051.3	3494.4	3834.1	3885.8
27.5°	3355.1	3210.5	2982.3	2726.3	2649.4	2790.0	3117.7	3599.2	3945.5	3991.9
30°	4512.0	4322.3	3934.9	3357.8	2930.6	2906.7	3203.9	3704.1	4063.6	4114.0
32.5°	5671.5	5625.1	5178.0	4379.3	3563.4	3166.8	3347.2	3846.0	4220.1	4259.9
35°	6844.3	6750.1	6383.9	5594.6	4538.5	3696.1	3586.0	4031.7	4425.8	4470.9
37.5°	7742.4	7685.4	7458.5	6808.5	5695.4	4513.3	3994.6	4319.6	4724.3	4774.7
40°	8535.8	8509.2	8432.3	8003.8	6988.9	5582.6	4630.1	4765.4	5138.2	5197.9
42.5°	9159.3	9221.7	9265.4	9146.0	8322.2	6803.2	5484.4	5391.6	5715.3	5776.3
45°	9797.4	9818.7	9995.1	10167.6	9646.2	8079.4	6447.6	6125.2	6433.0	6508.6
47.5°	10207.4	10292.3	10602.7	10906.5	10759.3	9345.0	7482.4	6991.5	7264.8	7406.8
50°	10237.9	10398.4	10825.6	11354.9	11569.9	10549.7	8607.4	7978.6	8269.1	8425.7
52.5°	9729.8	9979.2	10641.2	11416.0	12007.7	11569.9	9770.9	8965.6	9338.4	9542.7
55°	7459.9	7786.2	9947.4	11084.3	12024.9	12343.3	10903.9	9993.8	10529.8	10760.6
57.5°	6499.3	6663.9	7820.7	10508.5	11705.2	12655.1	11928.1	10972.9	11825.9	12112.5
60°	5407.5	5623.7	6559.0	9566.6	11271.4	12685.6	12832.9	12235.9	13230.9	13553.2
62.5°	3674.9	3909.7	4839.7	7948.1	10678.3	12671.0	13574.5	13536.0	14792.3	15138.6
65°	2276.6	2423.8	3036.7	6490.1	9849.2	12686.9	14350.6	15114.7	16440.1	16791.6
67.5°	1799.0	1866.6	2186.3	4983.0	8420.4	12328.7	15125.3	16599.3	17990.9	18269.5
70°	1208.6	1249.7	1590.7	3340.5	6264.5	10675.7	15110.7	17344.9	18789.6	18928.9
72.5°	636.8	668.6	930.0	1546.9	3783.7	7588.5	12737.3	16453.3	17994.9	17785.3
75°	318.4	371.5	626.2	785.4	1615.9	4232.1	7909.6	12972.2	14163.5	13351.6
77.5°	241.5	291.9	517.4	517.4	562.5	1424.8	3349.8	7075.1	6525.9	5434.0
80°	153.9	199.0	452.4	391.4	234.8	362.2	872.9	1982.0	1386.4	1054.7
82.5°	90.2	130.0	376.8	258.7	131.3	134.0	246.8	421.9	359.5	279.9
85°	35.8	84.9	258.7	102.2	51.7	33.2	74.3	90.2	74.3	55.7
87.5°	0.0	19.9	45.1	0.0	4.0	2.7	5.3	6.6	6.6	5.3
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°
3276.9	0°	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9
3279.5	2.5°	3291.5	3294.1	3302.1	3303.4	3284.8	3260.9	3251.7	3247.7	3231.8	3230.4
3300.7	5°	3331.3	3343.2	3331.3	3296.8	3214.5	3099.1	3011.5	2939.9	2874.9	2855.0
3373.7	7.5°	3410.9	3422.8	3387.0	3251.7	3044.7	2815.2	2608.2	2462.3	2331.0	2281.9
3462.6	10°	3525.0	3540.9	3428.1	3154.8	2788.7	2419.8	2069.6	1822.8	1630.5	1552.2
3583.3	12.5°	3668.2	3674.9	3450.7	3007.6	2455.7	1929.0	1432.8	1168.8	997.7	934.0
3729.3	15°	3826.1	3816.8	3453.3	2807.2	2001.9	1363.8	935.3	768.1	699.2	677.9
3875.2	17.5°	3991.9	3953.5	3400.2	2518.0	1504.4	932.6	693.8	654.0	642.1	636.8
4019.8	20°	4155.1	4068.9	3303.4	2139.9	1079.9	696.5	630.2	618.2	611.6	608.9
4165.7	22.5°	4303.7	4156.4	3137.6	1700.8	784.1	615.6	595.7	585.1	573.1	567.8
4307.7	25°	4448.3	4206.9	2904.1	1290.8	627.5	575.8	559.9	540.0	524.0	517.4
4460.3	27.5°	4588.9	4238.7	2612.2	955.2	559.9	538.6	509.4	481.6	469.6	467.0
4623.4	30°	4738.9	4249.3	2280.5	712.4	518.7	492.2	449.7	417.9	411.3	412.6
4843.7	32.5°	4921.9	4265.2	1946.2	583.7	484.2	436.5	386.1	352.9	347.6	352.9
5164.7	35°	5140.8	4297.1	1623.8	537.3	453.7	379.4	325.0	297.2	291.9	295.8
5576.0	37.5°	5438.0	4348.8	1322.7	528.0	428.5	331.7	273.3	250.7	250.7	252.1
6080.1	40°	5833.4	4486.8	1053.4	521.4	415.2	295.8	230.8	221.6	225.5	228.2
6722.2	42.5°	6314.9	4780.0	871.6	513.4	400.7	279.9	209.6	205.6	212.3	214.9
7491.7	45°	6854.9	5151.4	807.9	500.2	387.4	290.5	200.3	195.0	203.0	204.3
8354.0	47.5°	7413.4	5515.0	800.0	485.6	374.1	306.5	197.7	185.7	195.0	196.3
9274.7	50°	7978.6	5752.4	807.9	463.0	352.9	306.5	199.0	176.4	184.4	188.4
10229.9	52.5°	8547.7	5861.2	802.6	413.9	315.7	287.9	199.0	168.5	176.4	179.1
11262.1	55°	9099.6	5840.0	721.7	341.0	268.0	254.7	193.7	161.9	167.2	168.5
12237.2	57.5°	9536.1	5544.1	571.8	265.3	217.6	212.3	176.4	153.9	157.9	156.5
13131.4	60°	9764.3	4894.1	408.6	204.3	171.1	167.2	155.2	143.3	145.9	139.3
13888.9	62.5°	9766.9	4034.4	273.3	161.9	136.6	132.7	132.7	128.7	126.0	112.8
14475.3	65°	9558.6	3080.5	181.8	128.7	110.1	103.5	111.4	110.1	100.8	82.3
14654.4	67.5°	9086.3	2019.2	138.0	100.8	84.9	80.9	88.9	92.9	86.2	69.0
14001.6	70°	8115.2	1175.4	114.1	78.3	63.7	59.7	71.6	79.6	71.6	55.7
11967.9	72.5°	6740.8	634.1	92.9	58.4	43.8	39.8	57.0	65.0	57.0	41.1
7678.8	75°	4374.0	339.6	71.6	38.5	22.6	25.2	42.5	47.8	39.8	26.5
2254.0	77.5°	1468.6	149.9	45.1	18.6	10.6	10.6	25.2	29.2	18.6	9.3
409.9	80°	327.7	62.4	18.6	8.0	4.0	4.0	5.3	5.3	2.7	0.0
126.0	82.5°	107.5	25.2	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
31.8	85°	41.1	9.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.6	87.5°	15.9	1.3	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>
3276.9
3233.1
2843.0
2262.0
1519.0
914.1
677.9
635.5
606.3
566.5
514.7
464.3
412.6
351.6
294.5
250.7
228.2
214.9
205.6
197.7
189.7
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