

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: P952218

Luminaire Tested: **GALN-SB6A-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952218
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-SB6A-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 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: 21662 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

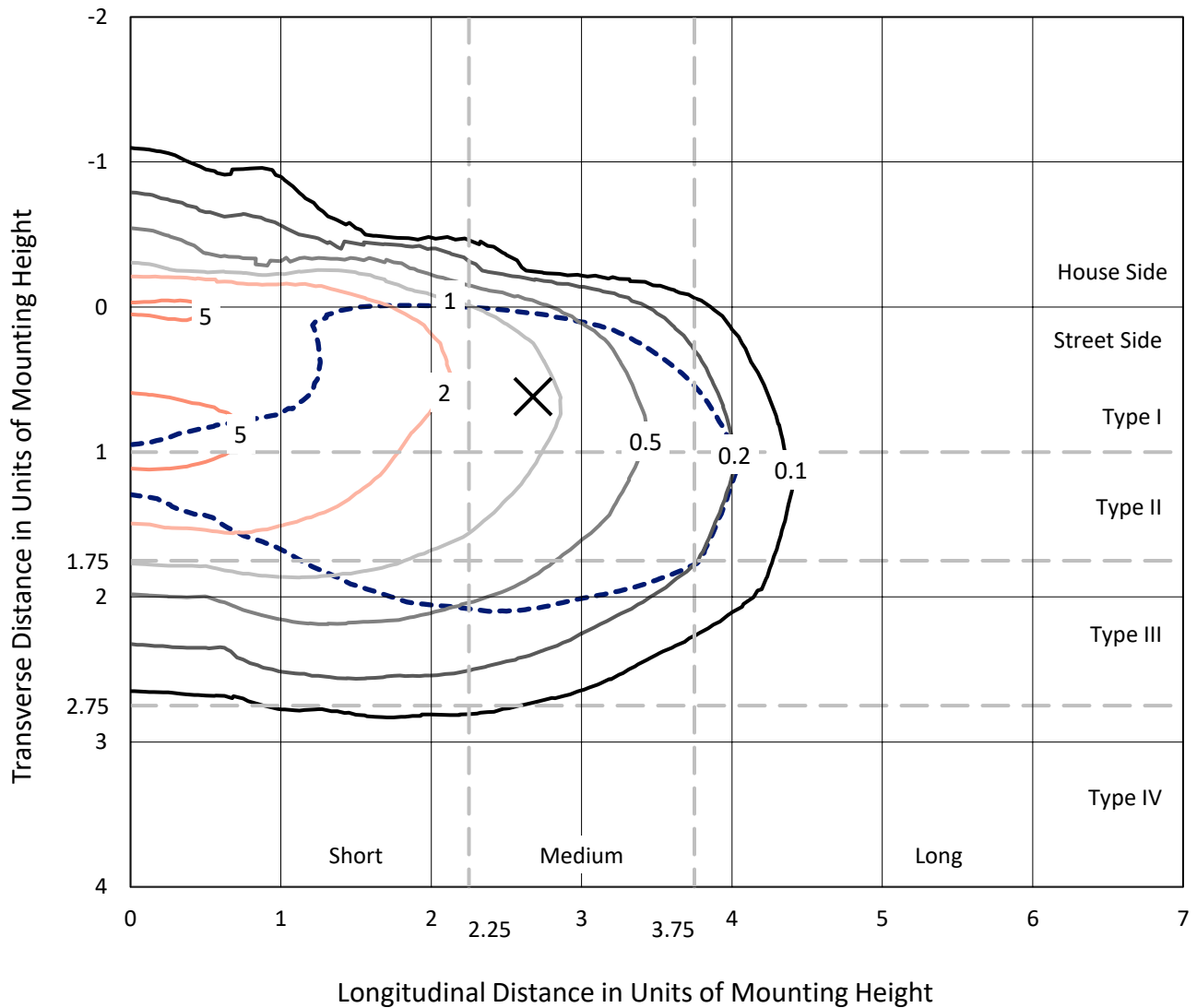
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

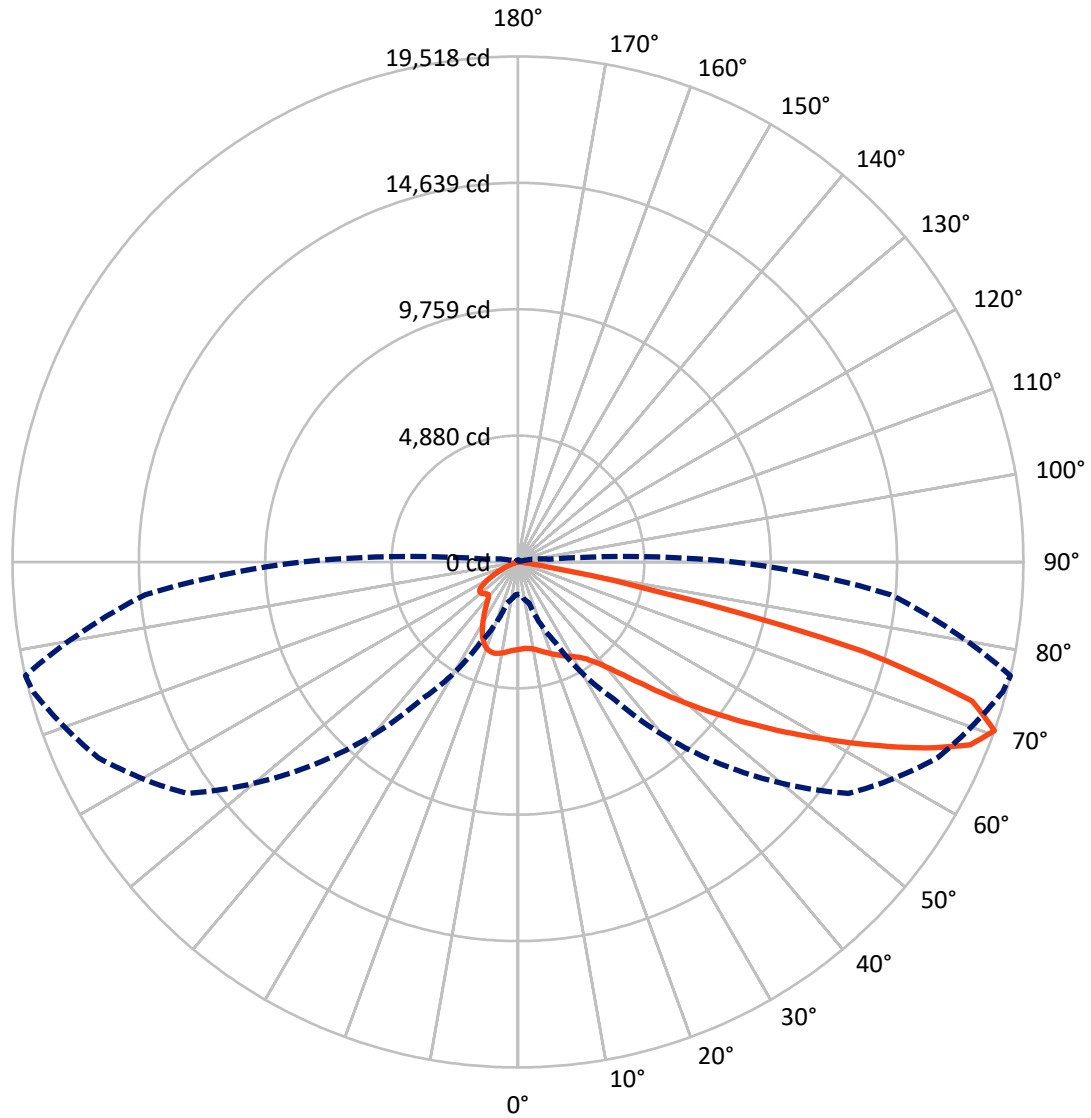
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2283.5	0.0	2283.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19378.5	0.0	19378.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	21662.0	0.0	21662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.3
10°-20°	691.3	3.2
20°-30°	1069.2	4.9
30°-40°	1940.2	9.0
40°-50°	3662.3	16.9
50°-60°	5291.8	24.4
60°-70°	5632.9	26.0
70°-80°	2985.1	13.8
80°-90°	98.0	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°	21662.0	100.0
0°-180°	21662.0	100.0

Coefficient of Utilization



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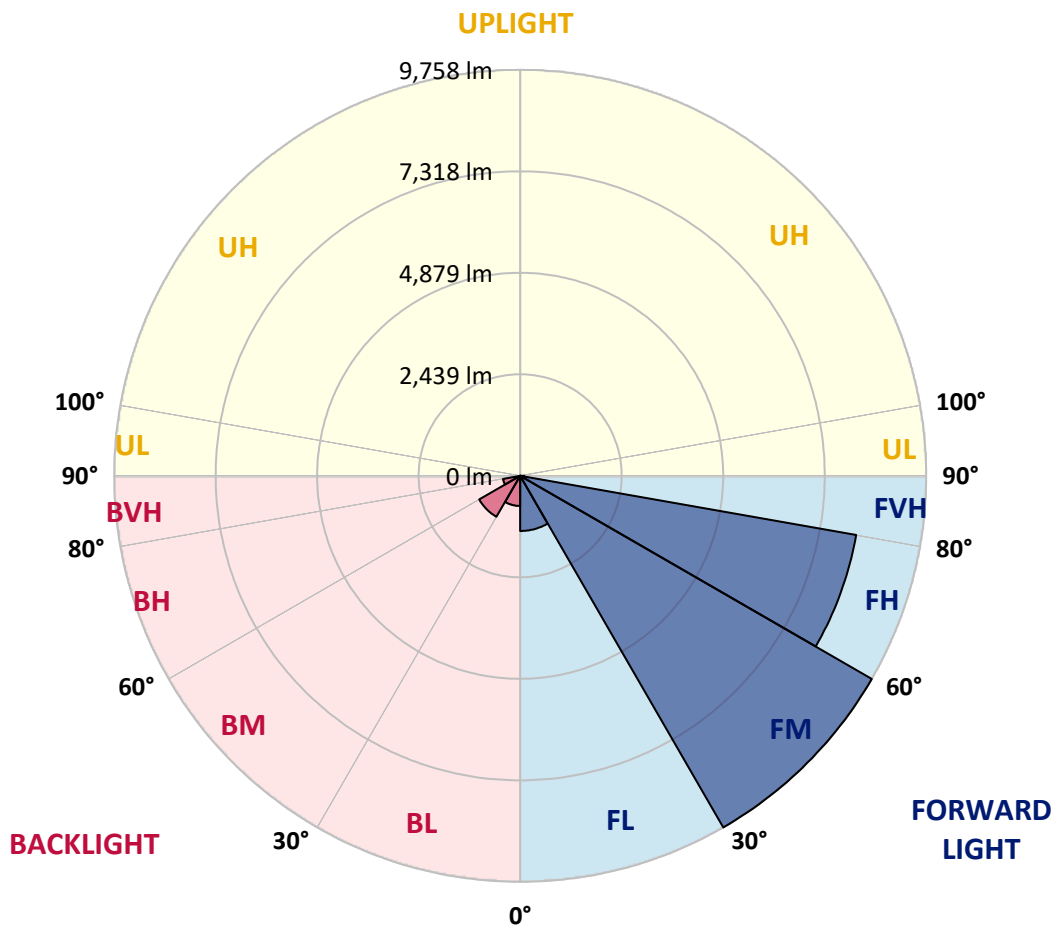
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.2	6.1			
FM (30°-60°)	9757.5	45.0			
FH (60°-80°)	8199.4	37.9			G4/12000
FVH (80°-90°)	95.4	0.4			G1/100
BL (0°-30°)	725.5	3.3	B2/1000		
BM (30°-60°)	1136.7	5.2	B2/2500		
BH (60°-80°)	418.6	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°	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9
2.5°	3172.3	3201.0	3196.9	3216.1	3222.9	3250.3	3277.7	3314.6	3355.6	3354.3
5°	2993.1	3021.8	3028.7	3054.7	3087.5	3129.9	3186.0	3259.9	3336.5	3348.8
7.5°	2781.1	2811.2	2829.0	2880.9	2941.1	3028.7	3120.3	3228.4	3355.6	3373.4
10°	2569.0	2596.4	2619.7	2693.5	2789.3	2919.2	3068.4	3224.3	3395.3	3421.3
12.5°	2437.7	2463.7	2489.7	2554.0	2673.0	2831.7	3034.2	3243.5	3461.0	3497.9
15°	2391.2	2414.5	2435.0	2492.4	2603.2	2783.8	3027.3	3283.1	3544.4	3593.7
17.5°	2398.0	2410.4	2424.0	2467.8	2575.9	2761.9	3039.6	3351.5	3642.9	3686.7
20°	2437.7	2444.6	2445.9	2476.0	2571.8	2759.2	3064.2	3417.2	3735.9	3794.7
22.5°	2488.3	2491.1	2488.3	2508.9	2597.8	2779.7	3097.1	3496.5	3839.9	3894.6
25°	2725.0	2673.0	2607.3	2567.7	2641.5	2819.4	3146.3	3603.2	3953.4	4006.8
27.5°	3459.6	3310.5	3075.2	2811.2	2731.8	2876.8	3214.7	3711.3	4068.3	4116.2
30°	4652.5	4456.8	4057.4	3462.3	3021.8	2997.2	3303.6	3819.4	4190.1	4242.1
32.5°	5848.1	5800.2	5339.2	4515.7	3674.4	3265.3	3451.4	3965.7	4351.5	4392.5
35°	7057.3	6960.2	6582.7	5768.7	4679.8	3811.2	3697.6	4157.3	4563.5	4610.1
37.5°	7983.5	7924.6	7690.7	7020.4	5872.7	4653.8	4119.0	4454.1	4871.3	4923.3
40°	8801.5	8774.1	8694.8	8253.0	7206.5	5756.4	4774.2	4913.7	5298.1	5359.7
42.5°	9444.5	9508.7	9553.9	9430.8	8581.3	7014.9	5655.2	5559.4	5893.2	5956.1
45°	10102.4	10124.3	10306.3	10484.1	9946.5	8330.9	6648.3	6315.9	6633.3	6711.3
47.5°	10525.1	10612.7	10932.8	11246.1	11094.2	9636.0	7715.3	7209.2	7491.0	7637.4
50°	10556.6	10722.1	11162.6	11708.4	11930.0	10878.1	8875.4	8227.0	8526.5	8688.0
52.5°	10032.7	10289.9	10972.5	11771.4	12381.5	11930.0	10075.1	9244.7	9629.1	9839.8
55°	7692.1	8028.6	10257.0	11429.4	12399.3	12727.6	11243.3	10304.9	10857.6	11095.6
57.5°	6701.7	6871.3	8064.2	10835.7	12069.6	13049.0	12299.4	11314.5	12194.1	12489.5
60°	5575.8	5798.8	6763.2	9864.4	11622.3	13080.5	13232.4	12616.8	13642.7	13975.2
62.5°	3789.3	4031.4	4990.3	8195.5	11010.8	13065.5	13997.0	13957.4	15252.8	15609.9
65°	2347.4	2499.3	3131.3	6692.1	10155.8	13081.9	14797.3	15585.3	16951.9	17314.4
67.5°	1855.0	1924.7	2254.4	5138.1	8682.5	12712.5	15596.2	17116.0	18551.0	18838.3
70°	1246.2	1288.6	1640.2	3444.5	6459.5	11008.0	15581.2	17884.8	19374.5	19518.2
72.5°	656.6	689.5	958.9	1595.1	3901.4	7824.8	13133.9	16965.5	18555.1	18339.0
75°	328.3	383.0	645.7	809.8	1666.2	4363.8	8155.8	13376.0	14604.4	13767.2
77.5°	249.0	301.0	533.5	533.5	580.0	1469.2	3454.1	7295.4	6729.0	5603.2
80°	158.7	205.2	466.5	403.6	242.1	373.5	900.1	2043.7	1429.5	1087.5
82.5°	93.0	134.1	388.5	266.8	135.4	138.2	254.4	435.0	370.7	288.6
85°	36.9	87.5	266.8	105.3	53.4	34.2	76.6	93.0	76.6	57.5
87.5°	0.0	20.5	46.5	0.0	4.1	2.7	5.5	6.8	6.8	5.5
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°
3378.9	0°	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9	3378.9
3381.6	2.5°	3393.9	3396.7	3404.9	3406.2	3387.1	3362.5	3352.9	3348.8	3332.4	3331.0
3403.5	5°	3435.0	3447.3	3435.0	3399.4	3314.6	3195.6	3105.3	3031.4	2964.4	2943.9
3478.7	7.5°	3517.0	3529.4	3492.4	3352.9	3139.5	2902.8	2689.4	2538.9	2403.5	2352.9
3570.4	10°	3634.7	3651.1	3534.8	3253.0	2875.5	2495.2	2134.0	1879.6	1681.2	1600.5
3694.9	12.5°	3782.4	3789.3	3558.1	3101.2	2532.1	1989.0	1477.4	1205.2	1028.7	963.0
3845.4	15°	3945.2	3935.6	3560.8	2894.6	2064.3	1406.3	964.4	792.1	720.9	699.0
3995.8	17.5°	4116.2	4076.5	3506.1	2596.4	1551.3	961.7	715.4	674.4	662.1	656.6
4144.9	20°	4284.5	4195.6	3406.2	2206.5	1113.5	718.2	649.8	637.5	630.6	627.9
4295.4	22.5°	4437.7	4285.8	3235.2	1753.7	808.5	634.7	614.2	603.3	591.0	585.5
4441.8	25°	4586.8	4337.8	2994.5	1331.0	647.0	593.7	577.3	556.8	540.3	533.5
4599.1	27.5°	4731.8	4370.7	2693.5	984.9	577.3	555.4	525.3	496.6	484.3	481.5
4767.4	30°	4886.4	4381.6	2351.5	734.6	534.9	507.5	463.7	430.9	424.1	425.4
4994.5	32.5°	5075.2	4398.0	2006.8	601.9	499.3	450.1	398.1	363.9	358.4	363.9
5325.5	35°	5300.9	4430.8	1674.4	554.0	467.8	391.2	335.2	306.4	301.0	305.1
5749.6	37.5°	5607.3	4484.2	1363.9	544.5	441.9	342.0	281.8	258.5	258.5	259.9
6269.4	40°	6015.0	4626.5	1086.2	537.6	428.2	305.1	238.0	228.5	232.6	235.3
6931.5	42.5°	6511.5	4928.8	898.8	529.4	413.1	288.6	216.1	212.0	218.9	221.6
7724.9	45°	7068.3	5311.8	833.1	515.7	399.4	299.6	206.6	201.1	209.3	210.7
8614.1	47.5°	7644.2	5686.6	824.9	500.7	385.8	316.0	203.8	191.5	201.1	202.5
9563.5	50°	8227.0	5931.5	833.1	477.4	363.9	316.0	205.2	181.9	190.1	194.3
10548.4	52.5°	8813.8	6043.7	827.6	426.8	325.6	296.8	205.2	173.7	181.9	184.7
11612.7	55°	9382.9	6021.8	744.2	351.6	276.3	262.6	199.7	166.9	172.4	173.7
12618.1	57.5°	9833.0	5716.7	589.6	273.6	224.3	218.9	181.9	158.7	162.8	161.4
13540.1	60°	10068.2	5046.4	421.3	210.7	176.5	172.4	160.1	147.7	150.5	143.6
14321.3	62.5°	10071.0	4160.0	281.8	166.9	140.9	136.8	136.8	132.7	130.0	116.3
14925.9	65°	9856.2	3176.4	187.4	132.7	113.5	106.7	114.9	113.5	104.0	84.8
15110.6	67.5°	9369.2	2082.0	142.3	104.0	87.5	83.4	91.7	95.8	88.9	71.1
14437.5	70°	8367.9	1212.0	117.6	80.7	65.7	61.6	73.9	82.1	73.9	57.5
12340.4	72.5°	6950.6	653.9	95.8	60.2	45.1	41.0	58.8	67.0	58.8	42.4
7917.8	75°	4510.2	350.2	73.9	39.7	23.3	26.0	43.8	49.2	41.0	27.4
2324.2	77.5°	1514.3	154.6	46.5	19.2	10.9	10.9	26.0	30.1	19.2	9.6
422.7	80°	337.9	64.3	19.2	8.2	4.1	4.1	5.5	5.5	2.7	0.0
130.0	82.5°	110.8	26.0	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
32.8	85°	42.4	9.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.9	87.5°	16.4	1.4	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>
3378.9
3333.7
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530.8
478.8
425.4
362.5
303.7
258.5
235.3
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212.0
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