

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: P956605

Luminaire Tested: **GALN-SB9A-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956605
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-SB9A-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA 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: 21722 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

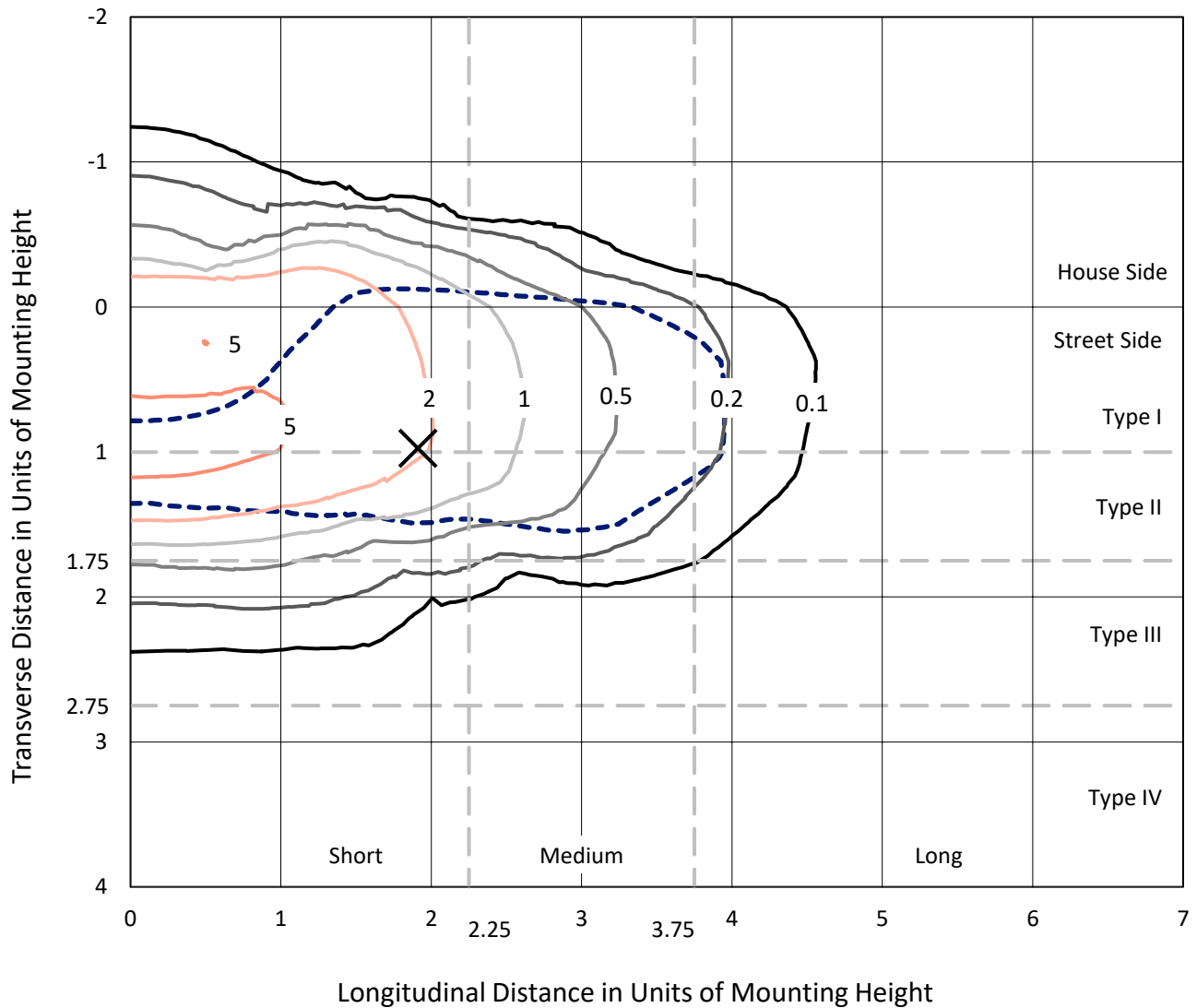
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

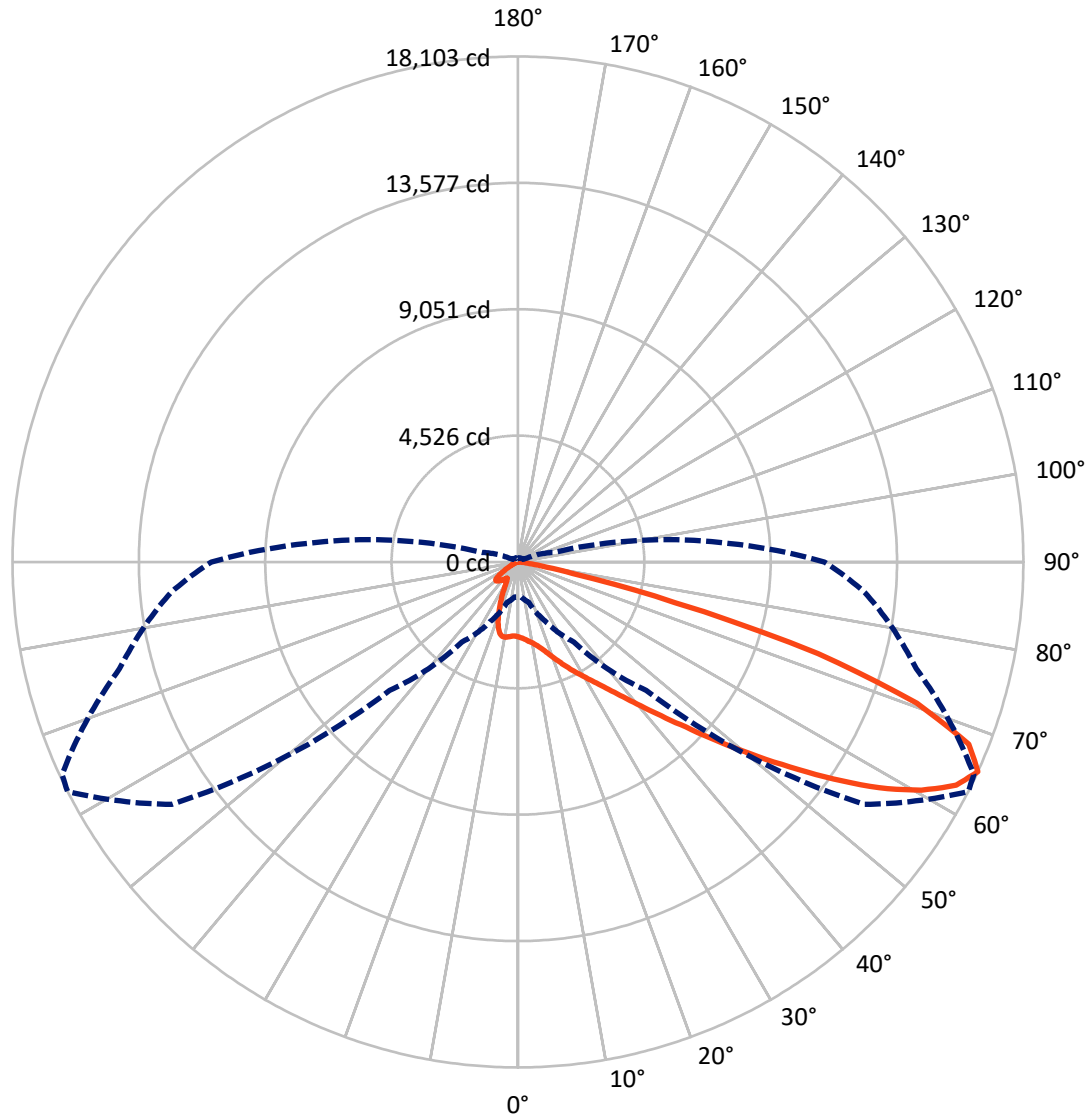
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3193.0	0.0	3193.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18529.0	0.0	18529.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	21722.0	0.0	21722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	1.2
10°-20°	700.9	3.2
20°-30°	1220.4	5.6
30°-40°	2199.6	10.1
40°-50°	4362.4	20.1
50°-60°	5942.4	27.4
60°-70°	4743.2	21.8
70°-80°	2146.4	9.9
80°-90°	154.3	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°	21722.0	100.0
0°-180°	21722.0	100.0

Coefficient of Utilization



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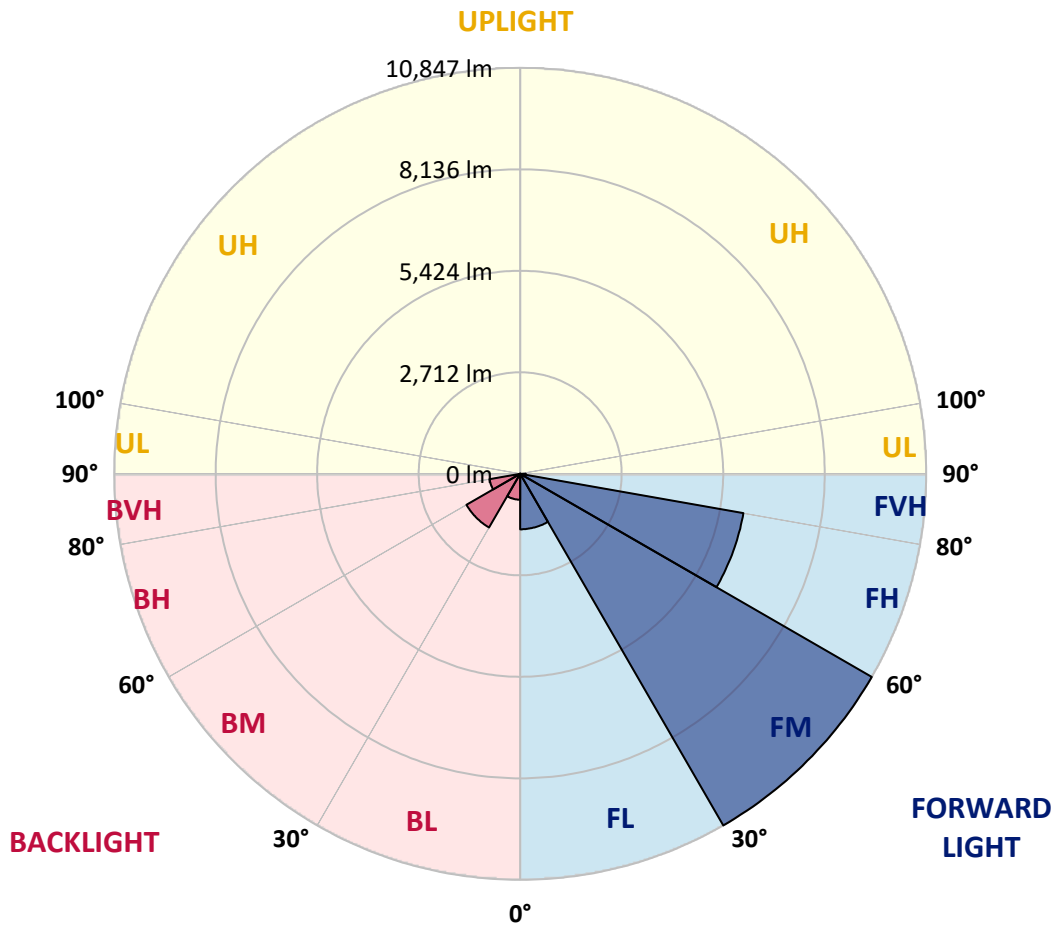
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.8	6.8			
FM (30°-60°)	10847.4	49.9			
FH (60°-80°)	6056.0	27.9			G3/7500
FVH (80°-90°)	142.8	0.7			G2/225
BL (0°-30°)	691.0	3.2	B2/1000		
BM (30°-60°)	1657.0	7.6	B2/2500		
BH (60°-80°)	833.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2.5°	2743.7	2736.2	2746.7	2742.2	2739.2	2733.2	2730.2	2727.2	2721.3	2716.8
5°	2751.1	2746.7	2757.1	2766.1	2775.1	2784.0	2788.5	2794.5	2788.5	2776.5
7.5°	2688.4	2685.4	2707.8	2734.7	2775.1	2809.4	2846.8	2867.7	2869.2	2864.7
10°	2683.9	2676.4	2698.8	2731.7	2784.0	2845.3	2911.0	2955.9	2961.8	2981.3
12.5°	2754.1	2746.7	2778.0	2813.9	2867.7	2932.0	3012.7	3075.4	3084.4	3111.3
15°	2872.2	2861.7	2897.6	2943.9	3012.7	3085.9	3171.1	3227.8	3235.3	3268.2
17.5°	3009.7	2999.2	3041.0	3090.4	3165.1	3265.2	3363.8	3426.6	3435.6	3456.5
20°	3186.0	3172.6	3205.4	3250.3	3329.5	3449.0	3567.1	3656.7	3655.2	3655.2
22.5°	3390.7	3369.8	3398.2	3434.1	3508.8	3653.7	3810.7	3916.8	3916.8	3874.9
25°	3610.4	3589.5	3620.9	3653.7	3719.5	3883.9	4067.7	4199.2	4205.2	4133.4
27.5°	3885.4	3858.5	3882.4	3921.2	3960.1	4127.5	4345.6	4498.1	4501.1	4390.5
30°	4414.4	4338.2	4263.4	4221.6	4239.5	4405.4	4638.5	4807.4	4822.3	4669.9
32.5°	5382.7	5367.8	5104.8	4761.1	4581.7	4704.3	4965.8	5169.0	5178.0	4982.2
35°	6887.6	6869.6	6446.7	5792.2	5207.9	5104.8	5363.3	5603.9	5597.9	5376.8
37.5°	8683.8	8667.4	8110.0	7234.3	6288.3	5710.0	5875.9	6128.4	6165.8	5875.9
40°	10218.5	10157.3	9804.6	8960.3	7722.9	6714.2	6605.1	6772.5	6811.4	6467.6
42.5°	11381.1	11328.8	11149.5	10622.0	9459.4	8199.6	7464.4	7528.7	7572.0	7159.5
45°	11983.4	11971.4	12043.2	11993.8	11228.7	10022.8	8692.8	8425.3	8441.7	7926.2
47.5°	12068.6	12062.6	12389.8	12853.1	12750.0	12079.0	10269.3	9543.1	9484.8	8791.4
50°	11566.4	11554.5	12182.1	13050.4	13766.2	13806.5	12059.6	10802.8	10674.3	9686.5
52.5°	9963.0	9960.0	10991.1	12436.2	14123.3	15318.8	13828.9	12186.6	11971.4	10634.0
55°	7666.1	7721.4	8903.5	10611.5	13471.8	16046.6	15417.4	13722.8	13392.6	11587.4
57.5°	5430.6	5511.2	6679.8	8201.1	11451.4	15616.2	16491.9	15262.0	14906.4	12537.8
60°	2917.0	2988.7	4158.8	5974.5	8519.4	14011.2	17058.3	16598.0	16261.8	13440.4
62.5°	1738.0	1761.9	2246.0	3857.0	5762.3	10704.2	16817.7	17615.7	17339.2	14198.0
65°	1247.8	1252.3	1495.9	2355.1	3498.3	6503.5	15130.5	18102.8	18017.7	14768.9
67.5°	1050.5	1047.6	1149.2	1564.6	2383.5	3257.7	11596.3	17413.9	17775.6	15130.5
70°	901.1	905.6	1025.1	1146.2	1791.8	1844.1	5765.3	15161.9	15933.0	15226.2
72.5°	671.0	685.9	796.5	1044.6	1352.4	1268.7	1990.5	11242.2	12636.4	14346.0
75°	473.7	481.2	560.4	878.7	1008.7	923.5	1016.2	5811.6	7598.9	10998.6
77.5°	364.6	378.1	424.4	614.2	993.8	648.6	621.7	2011.4	3090.4	6644.0
80°	197.3	221.2	306.3	443.8	697.9	458.8	307.8	801.0	1047.6	3106.8
82.5°	101.6	113.6	213.7	319.8	397.5	400.5	152.4	333.2	431.9	959.4
85°	40.3	49.3	143.5	176.3	204.7	197.3	68.7	134.5	155.4	266.0
87.5°	9.0	14.9	52.3	40.3	38.9	41.8	16.4	31.4	29.9	31.4
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°
2680.9	0°	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9	2680.9
2698.8	2.5°	2697.3	2691.4	2674.9	2657.0	2636.1	2624.1	2616.6	2615.2	2604.7	2597.2
2758.6	5°	2742.2	2736.2	2704.8	2667.5	2627.1	2595.7	2565.8	2538.9	2500.1	2492.6
2845.3	7.5°	2831.8	2815.4	2764.6	2713.8	2637.6	2546.4	2435.8	2308.8	2195.2	2160.9
2960.4	10°	2942.4	2920.0	2855.7	2766.1	2597.2	2349.2	2081.7	1833.6	1636.3	1581.0
3096.3	12.5°	3067.9	3048.5	2963.3	2797.5	2428.4	1978.5	1569.1	1261.3	1070.0	1022.2
3241.3	15°	3217.4	3189.0	3070.9	2749.6	2126.5	1503.3	1077.4	895.1	826.4	817.4
3407.2	17.5°	3375.8	3329.5	3166.6	2577.8	1720.0	1068.5	832.4	780.1	750.2	741.2
3574.5	20°	3520.7	3461.0	3223.4	2317.8	1285.2	832.4	745.7	711.3	684.4	674.0
3741.9	22.5°	3665.7	3580.5	3223.4	1963.6	963.9	738.2	684.4	653.0	621.7	608.2
3921.2	25°	3816.6	3703.1	3166.6	1569.1	775.6	677.0	626.1	591.8	564.9	548.4
4091.6	27.5°	3963.1	3806.2	3036.6	1195.5	690.4	623.2	572.3	539.5	514.1	502.1
4276.9	30°	4102.1	3907.8	2854.3	907.1	635.1	570.9	523.0	494.6	469.2	457.3
4517.5	32.5°	4290.3	4036.3	2660.0	744.2	587.3	521.5	478.2	451.3	428.9	419.9
4829.8	35°	4551.9	4226.1	2492.6	730.7	546.9	481.2	437.9	412.4	390.0	382.6
5233.3	37.5°	4922.5	4532.4	2404.4	820.4	514.1	445.3	405.0	378.1	357.2	351.2
5745.9	40°	5379.7	4947.9	2452.3	910.1	491.6	413.9	375.1	348.2	330.3	322.8
6334.6	42.5°	5922.2	5460.4	2716.8	978.8	476.7	387.0	346.7	316.8	304.9	301.9
7002.6	45°	6545.4	6023.8	3121.7	1052.0	452.8	361.6	318.3	295.9	286.9	285.4
7728.9	47.5°	7253.7	6642.5	3591.0	1143.2	428.9	337.7	295.9	280.9	273.5	270.5
8486.5	50°	7956.0	7265.6	4073.7	1194.0	409.5	315.3	278.0	266.0	260.0	258.5
9287.5	52.5°	8691.3	7906.7	4463.7	1146.2	393.0	297.4	263.0	254.0	248.1	246.6
10025.7	55°	9392.1	8425.3	4530.9	972.8	360.1	279.4	246.6	242.1	234.6	234.6
10774.4	57.5°	9995.9	8685.3	4055.7	714.3	327.3	252.5	230.1	225.7	219.7	218.2
11449.9	60°	10550.3	8610.6	3130.7	481.2	291.4	225.7	209.2	206.2	200.2	192.8
12037.2	62.5°	10862.6	8281.8	2141.4	313.8	255.5	197.3	185.3	183.8	170.4	155.4
12472.0	65°	10980.7	7606.4	1336.0	228.6	213.7	168.9	159.9	156.9	137.5	121.0
12718.6	67.5°	10877.5	6494.5	674.0	180.8	168.9	140.5	131.5	131.5	118.1	103.1
12703.7	70°	10465.1	4868.7	283.9	145.0	130.0	107.6	107.6	113.6	100.1	83.7
12044.6	72.5°	9570.0	3275.7	150.9	110.6	97.1	76.2	88.2	92.7	79.2	62.8
9858.4	75°	7607.9	1998.0	104.6	82.2	61.3	53.8	67.2	70.2	53.8	41.8
6759.0	77.5°	5203.4	1147.7	70.2	52.3	38.9	31.4	46.3	43.3	28.4	19.4
2606.2	80°	2284.9	478.2	40.3	23.9	14.9	12.0	16.4	12.0	9.0	6.0
357.2	82.5°	267.5	112.1	14.9	9.0	6.0	3.0	1.5	0.0	0.0	0.0
109.1	85°	55.3	13.4	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
19.4	87.5°	10.5	3.0	1.5	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>
2680.9
2604.7
2489.6
2144.4
1560.1
1008.7
808.5
736.7
668.0
600.7
542.5
502.1
458.8
419.9
382.6
349.7
321.3
301.9
283.9
270.5
258.5
246.6
233.1
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191.3
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