

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: P950053

Luminaire Tested: **GALN-SB4C-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950053
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-SB4C-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 21941 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

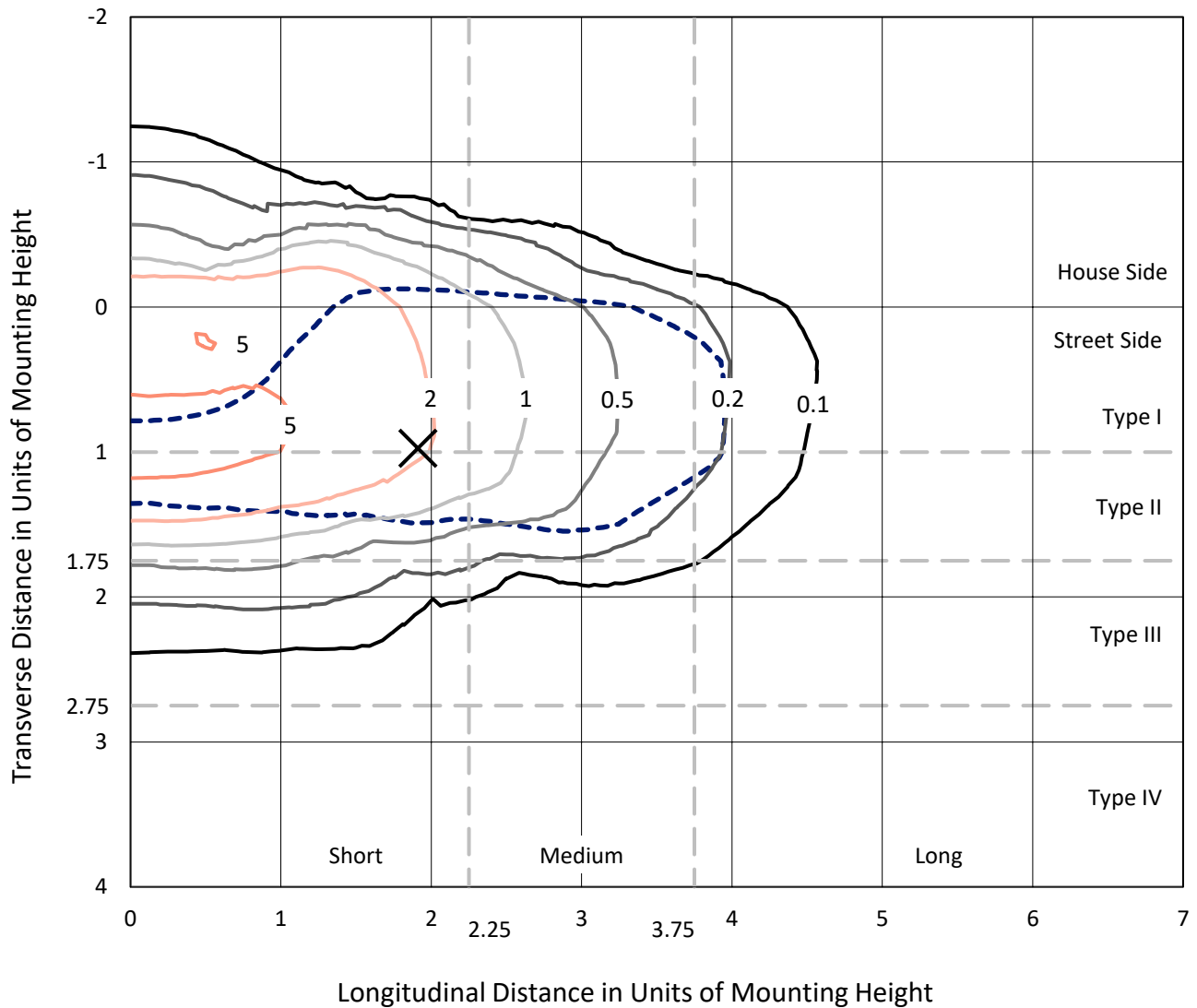
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

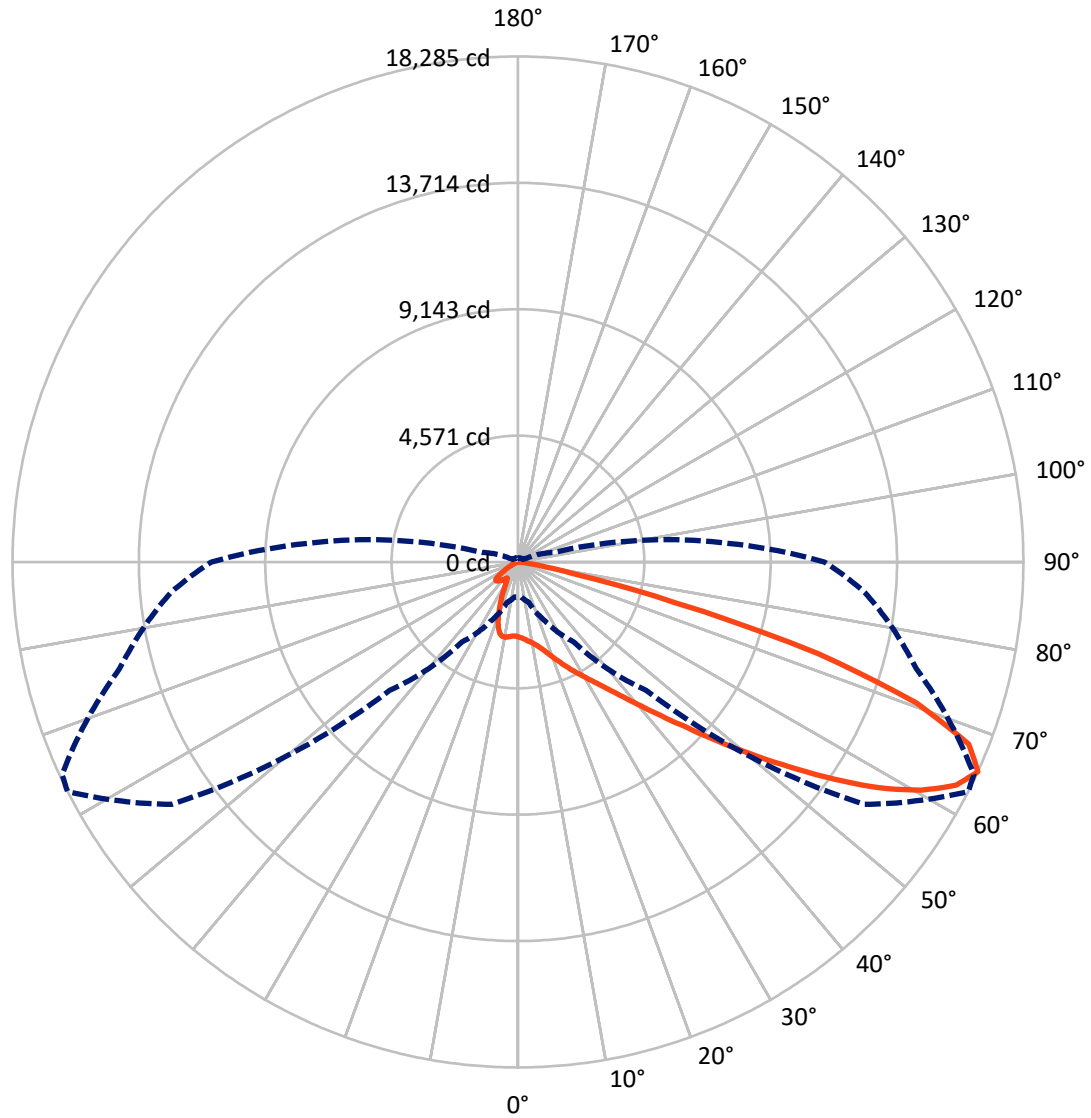
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3225.2	0.0	3225.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18715.8	0.0	18715.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	21941.0	0.0	21941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.2
10°-20°	707.9	3.2
20°-30°	1232.7	5.6
30°-40°	2221.7	10.1
40°-50°	4406.4	20.1
50°-60°	6002.3	27.4
60°-70°	4791.0	21.8
70°-80°	2168.0	9.9
80°-90°	155.8	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°	21941.0	100.0
0°-180°	21941.0	100.0

Coefficient of Utilization



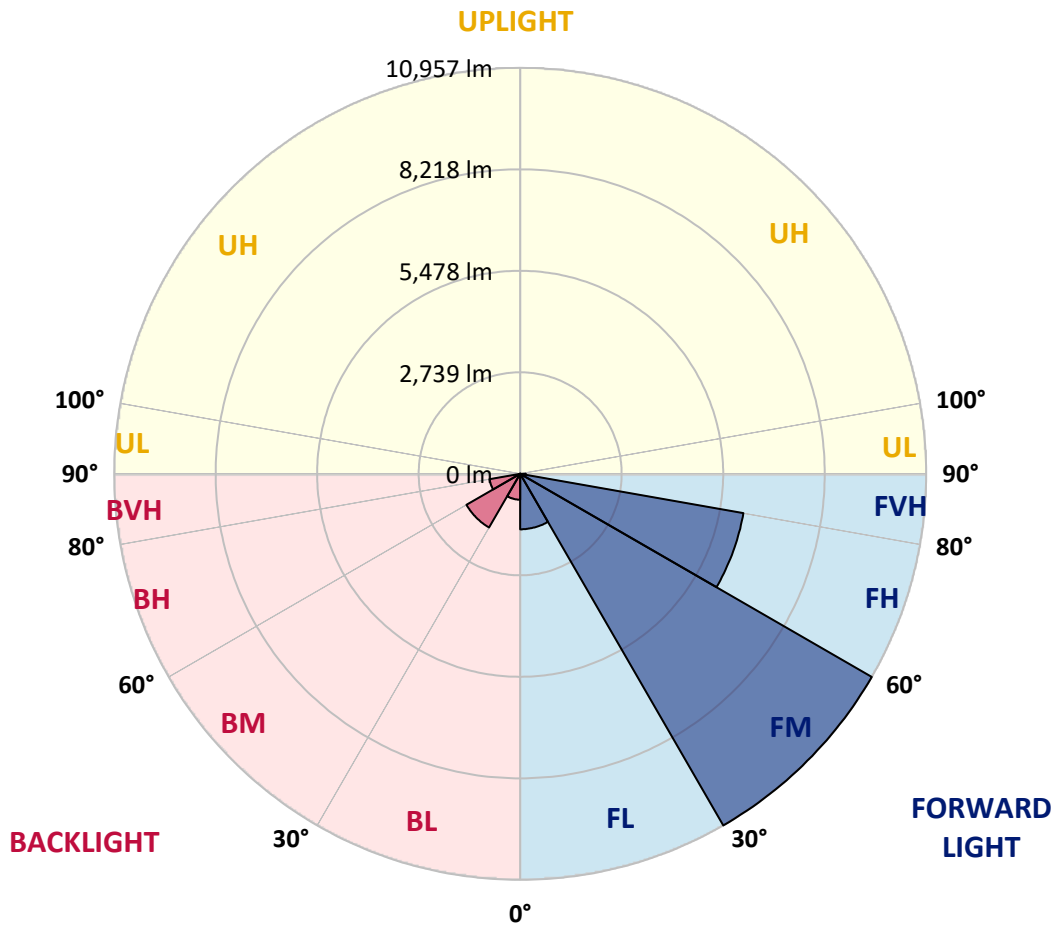
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.7	6.8			
FM (30°-60°)	10956.8	49.9			
FH (60°-80°)	6117.0	27.9			G3/7500
FVH (80°-90°)	144.3	0.7			G2/225
BL (0°-30°)	698.0	3.2	B2/1000		
BM (30°-60°)	1673.7	7.6	B2/2500		
BH (60°-80°)	842.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.6	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°	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9
2.5°	2771.3	2763.8	2774.3	2769.8	2766.8	2760.8	2757.7	2754.7	2748.7	2744.2
5°	2778.9	2774.3	2784.9	2794.0	2803.0	2812.1	2816.6	2822.7	2816.6	2804.5
7.5°	2715.5	2712.5	2735.1	2762.3	2803.0	2837.7	2875.5	2896.6	2898.1	2893.6
10°	2711.0	2703.4	2726.0	2759.3	2812.1	2874.0	2940.4	2985.7	2991.7	3011.3
12.5°	2781.9	2774.3	2806.0	2842.3	2896.6	2961.5	3043.0	3106.4	3115.5	3142.7
15°	2901.1	2890.6	2926.8	2973.6	3043.0	3117.0	3203.0	3260.4	3267.9	3301.1
17.5°	3040.0	3029.4	3071.7	3121.5	3197.0	3298.1	3397.7	3461.1	3470.2	3491.3
20°	3218.1	3204.5	3237.7	3283.0	3363.0	3483.8	3603.0	3693.6	3692.1	3692.1
22.5°	3424.9	3403.8	3432.5	3468.7	3544.2	3690.6	3849.1	3956.2	3956.2	3914.0
25°	3646.8	3625.7	3657.4	3690.6	3757.0	3923.0	4108.7	4241.5	4247.6	4175.1
27.5°	3924.5	3897.4	3921.5	3960.8	4000.0	4169.1	4389.4	4543.4	4546.4	4434.7
30°	4458.9	4381.9	4306.4	4264.2	4282.3	4449.8	4685.3	4855.9	4871.0	4717.0
32.5°	5437.0	5421.9	5156.2	4809.1	4627.9	4751.7	5015.9	5221.2	5230.2	5032.5
35°	6957.0	6938.9	6511.7	5850.6	5260.4	5156.2	5417.4	5660.4	5654.4	5431.0
37.5°	8771.4	8754.7	8191.7	7307.2	6351.7	5767.6	5935.1	6190.2	6227.9	5935.1
40°	10321.5	10259.7	9903.4	9050.6	7800.8	6781.9	6671.7	6840.8	6880.0	6532.9
42.5°	11495.9	11443.1	11261.9	10729.1	9554.8	8282.3	7539.6	7604.6	7648.3	7231.7
45°	12104.2	12092.1	12164.6	12114.8	11341.9	10123.8	8780.4	8510.2	8526.8	8006.1
47.5°	12190.2	12184.2	12514.8	12982.7	12878.5	12200.8	10372.9	9639.3	9580.4	8880.0
50°	11683.1	11671.0	12304.9	13181.9	13905.0	13945.7	12181.2	10911.7	10781.9	9784.2
52.5°	10063.4	10060.4	11101.9	12561.6	14265.7	15473.3	13968.4	12309.5	12092.1	10741.2
55°	7743.4	7799.3	8993.2	10718.5	13607.6	16208.4	15572.9	13861.2	13527.6	11704.2
57.5°	5485.3	5566.8	6747.2	8283.8	11566.8	15773.6	16658.2	15415.9	15056.7	12664.2
60°	2946.4	3018.9	4200.8	6034.7	8605.3	14152.5	17230.2	16765.3	16425.7	13575.9
62.5°	1755.5	1779.6	2268.7	3895.9	5820.4	10812.1	16987.2	17793.3	17514.0	14341.2
65°	1260.4	1264.9	1510.9	2378.9	3533.6	6569.1	15283.1	18285.3	18199.3	14917.8
67.5°	1061.1	1058.1	1160.8	1580.4	2407.6	3290.6	11713.2	17589.5	17954.8	15283.1
70°	910.2	914.7	1035.5	1157.7	1809.8	1862.6	5823.4	15314.8	16093.6	15379.7
72.5°	677.7	692.8	804.5	1055.1	1366.0	1281.5	2010.6	11355.5	12763.8	14490.6
75°	478.5	486.0	566.0	887.6	1018.9	932.8	1026.4	5870.2	7675.5	11109.5
77.5°	368.3	381.9	428.7	620.4	1003.8	655.1	627.9	2031.7	3121.5	6711.0
80°	199.2	223.4	309.4	448.3	704.9	463.4	310.9	809.1	1058.1	3138.1
82.5°	102.6	114.7	215.8	323.0	401.5	404.5	154.0	336.6	436.2	969.1
85°	40.8	49.8	144.9	178.1	206.8	199.2	69.4	135.8	157.0	268.7
87.5°	9.1	15.1	52.8	40.8	39.2	42.3	16.6	31.7	30.2	31.7
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°
2707.9	0°	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9	2707.9
2726.0	2.5°	2724.5	2718.5	2701.9	2683.8	2662.7	2650.6	2643.0	2641.5	2631.0	2623.4
2786.4	5°	2769.8	2763.8	2732.1	2694.3	2653.6	2621.9	2591.7	2564.5	2525.3	2517.7
2874.0	7.5°	2860.4	2843.8	2792.5	2741.1	2664.2	2572.1	2460.4	2332.1	2217.4	2182.6
2990.2	10°	2972.1	2949.4	2884.5	2794.0	2623.4	2372.8	2102.6	1852.1	1652.8	1597.0
3127.6	12.5°	3098.9	3079.3	2993.2	2825.7	2452.8	1998.5	1584.9	1274.0	1080.8	1032.5
3274.0	15°	3249.8	3221.1	3101.9	2777.4	2147.9	1518.5	1088.3	904.2	834.7	825.7
3441.5	17.5°	3409.8	3363.0	3198.5	2603.8	1737.4	1079.2	840.8	787.9	757.7	748.7
3610.6	20°	3556.2	3495.9	3255.9	2341.1	1298.1	840.8	753.2	718.5	691.3	680.8
3779.6	22.5°	3702.7	3616.6	3255.9	1983.4	973.6	745.7	691.3	659.6	627.9	614.3
3960.8	25°	3855.1	3740.4	3198.5	1584.9	783.4	683.8	632.5	597.7	570.6	554.0
4132.8	27.5°	4003.0	3844.5	3067.2	1207.6	697.4	629.4	578.1	544.9	519.2	507.2
4320.0	30°	4143.4	3947.2	2883.0	916.2	641.5	576.6	528.3	499.6	474.0	461.9
4563.0	32.5°	4333.6	4077.0	2686.8	751.7	593.2	526.8	483.0	455.9	433.2	424.2
4878.5	35°	4597.8	4268.7	2517.7	738.1	552.5	486.0	442.3	416.6	394.0	386.4
5286.1	37.5°	4972.1	4578.1	2428.7	828.7	519.2	449.8	409.1	381.9	360.8	354.7
5803.8	40°	5434.0	4997.8	2477.0	919.2	496.6	418.1	378.9	351.7	333.6	326.0
6398.5	42.5°	5981.9	5515.5	2744.2	988.7	481.5	390.9	350.2	320.0	307.9	304.9
7073.2	45°	6611.3	6084.5	3153.2	1062.6	457.4	365.3	321.5	298.9	289.8	288.3
7806.8	47.5°	7326.8	6709.5	3627.2	1154.7	433.2	341.1	298.9	283.8	276.2	273.2
8572.1	50°	8036.3	7338.9	4114.7	1206.0	413.6	318.5	280.8	268.7	262.6	261.1
9381.2	52.5°	8778.9	7986.4	4508.7	1157.7	397.0	300.4	265.7	256.6	250.6	249.1
10126.8	55°	9486.8	8510.2	4576.6	982.6	363.8	282.3	249.1	244.5	237.0	237.0
10883.1	57.5°	10096.6	8772.9	4096.6	721.5	330.6	255.1	232.5	227.9	221.9	220.4
11565.3	60°	10656.6	8697.4	3162.3	486.0	294.3	227.9	211.3	208.3	202.3	194.7
12158.5	62.5°	10972.1	8365.3	2163.0	317.0	258.1	199.2	187.2	185.7	172.1	157.0
12597.8	65°	11091.4	7683.0	1349.4	230.9	215.8	170.6	161.5	158.5	138.9	122.3
12846.8	67.5°	10987.2	6560.0	680.8	182.6	170.6	141.9	132.8	132.8	119.2	104.2
12831.7	70°	10570.6	4917.8	286.8	146.4	131.3	108.7	108.7	114.7	101.1	84.5
12166.1	72.5°	9666.4	3308.7	152.5	111.7	98.1	77.0	89.1	93.6	80.0	63.4
9957.8	75°	7684.6	2018.1	105.7	83.0	61.9	54.3	67.9	70.9	54.3	42.3
6827.2	77.5°	5255.9	1159.2	70.9	52.8	39.2	31.7	46.8	43.8	28.7	19.6
2632.5	80°	2307.9	483.0	40.8	24.2	15.1	12.1	16.6	12.1	9.1	6.0
360.8	82.5°	270.2	113.2	15.1	9.1	6.0	3.0	1.5	0.0	0.0	0.0
110.2	85°	55.8	13.6	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
19.6	87.5°	10.6	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>
2707.9
2631.0
2514.7
2166.0
1575.9
1018.9
816.6
744.2
674.7
606.8
547.9
507.2
463.4
424.2
386.4
353.2
324.5
304.9
286.8
273.2
261.1
249.1
235.5
218.9
193.2
154.0
120.8
102.6
83.0
63.4
40.8
21.1
6.0
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