

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: P954023

Luminaire Tested: **GALN-SB7B-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24703 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

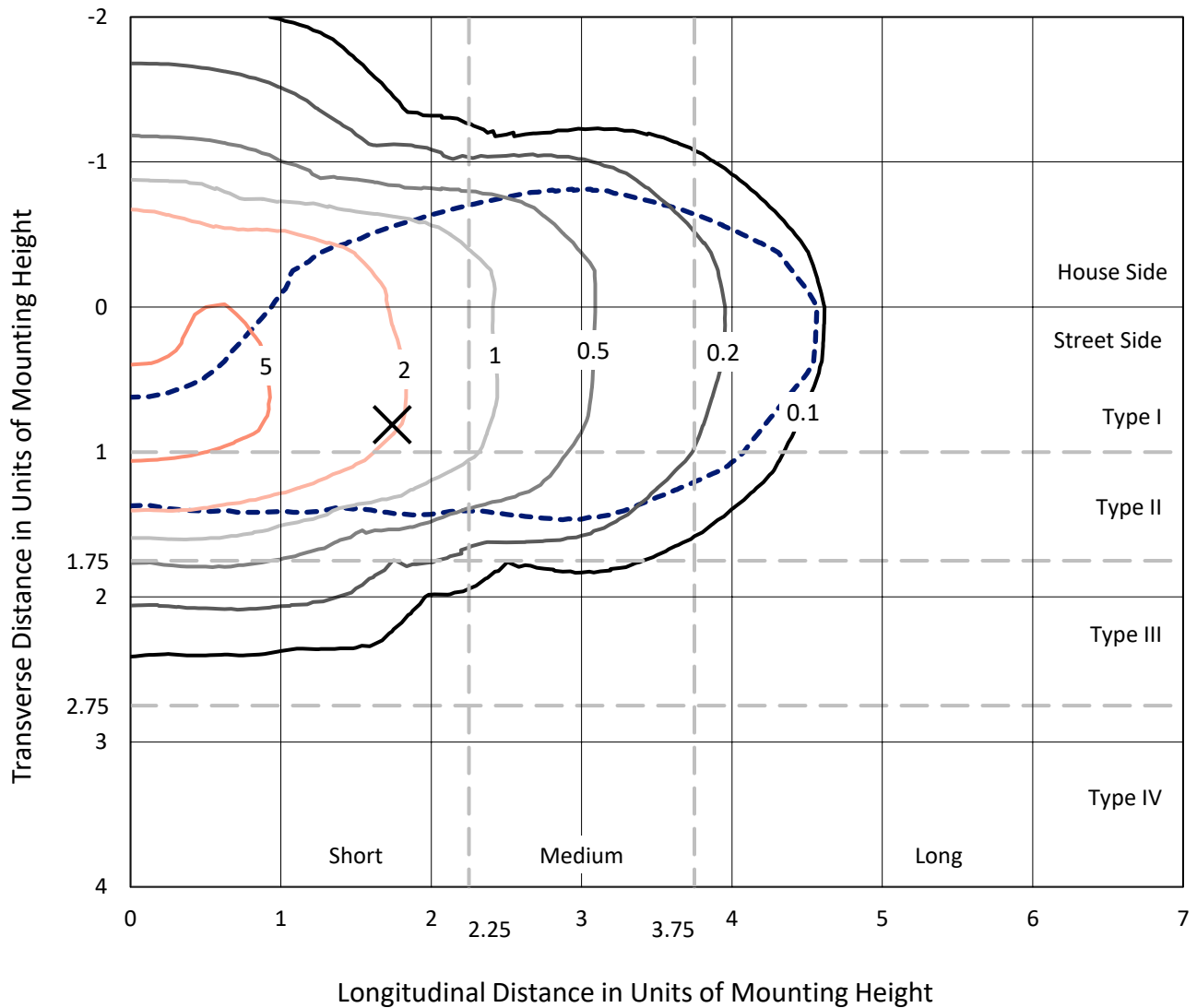
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

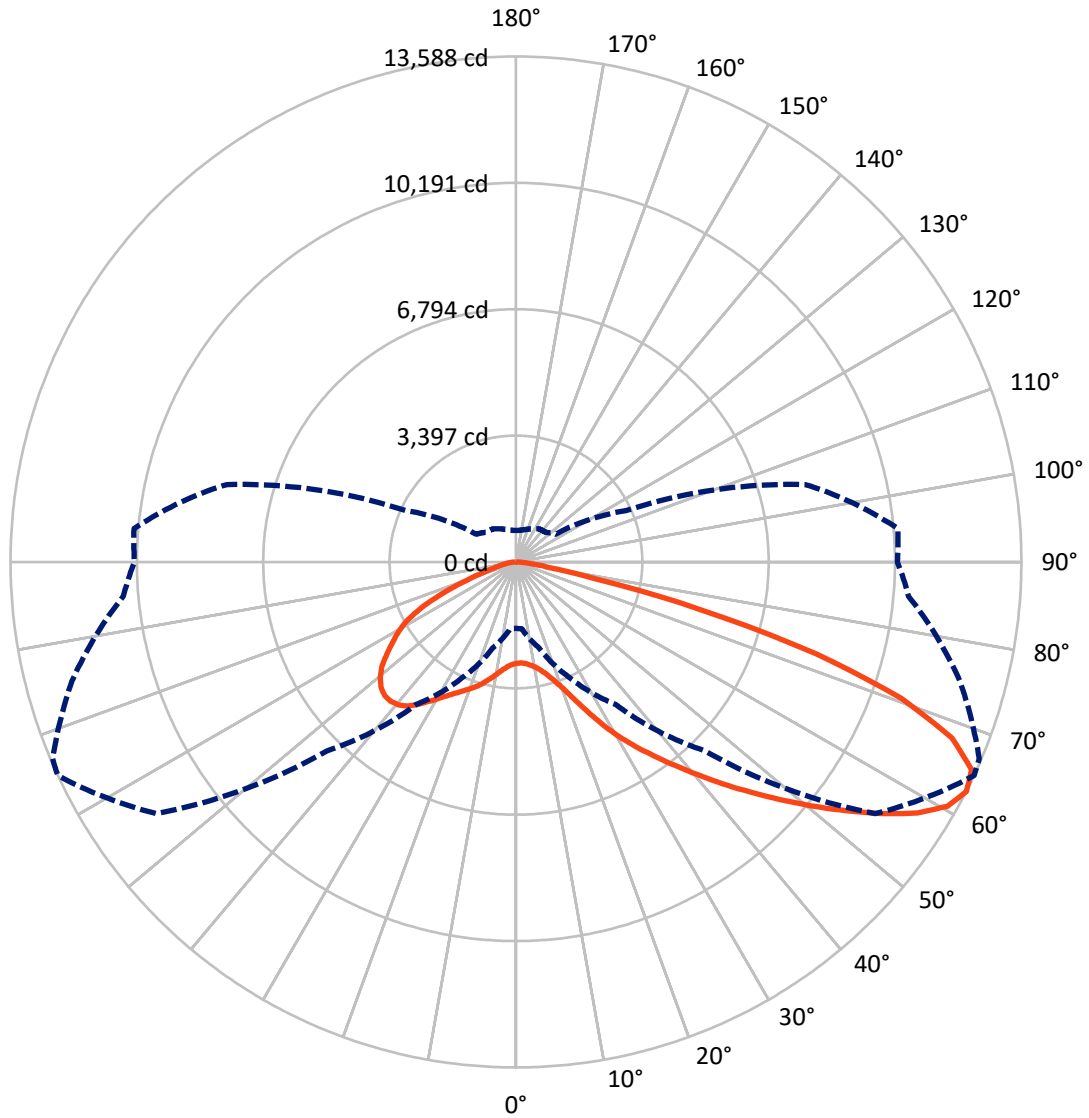
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7795.2	0.0	7795.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	16907.8	0.0	16907.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	24703.0	0.0	24703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.1
10°-20°	920.3	3.7
20°-30°	1866.1	7.6
30°-40°	3229.2	13.1
40°-50°	4886.8	19.8
50°-60°	5729.4	23.2
60°-70°	4803.4	19.4
70°-80°	2651.9	10.7
80°-90°	344.5	1.4
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°	24703.0	100.0
0°-180°	24703.0	100.0



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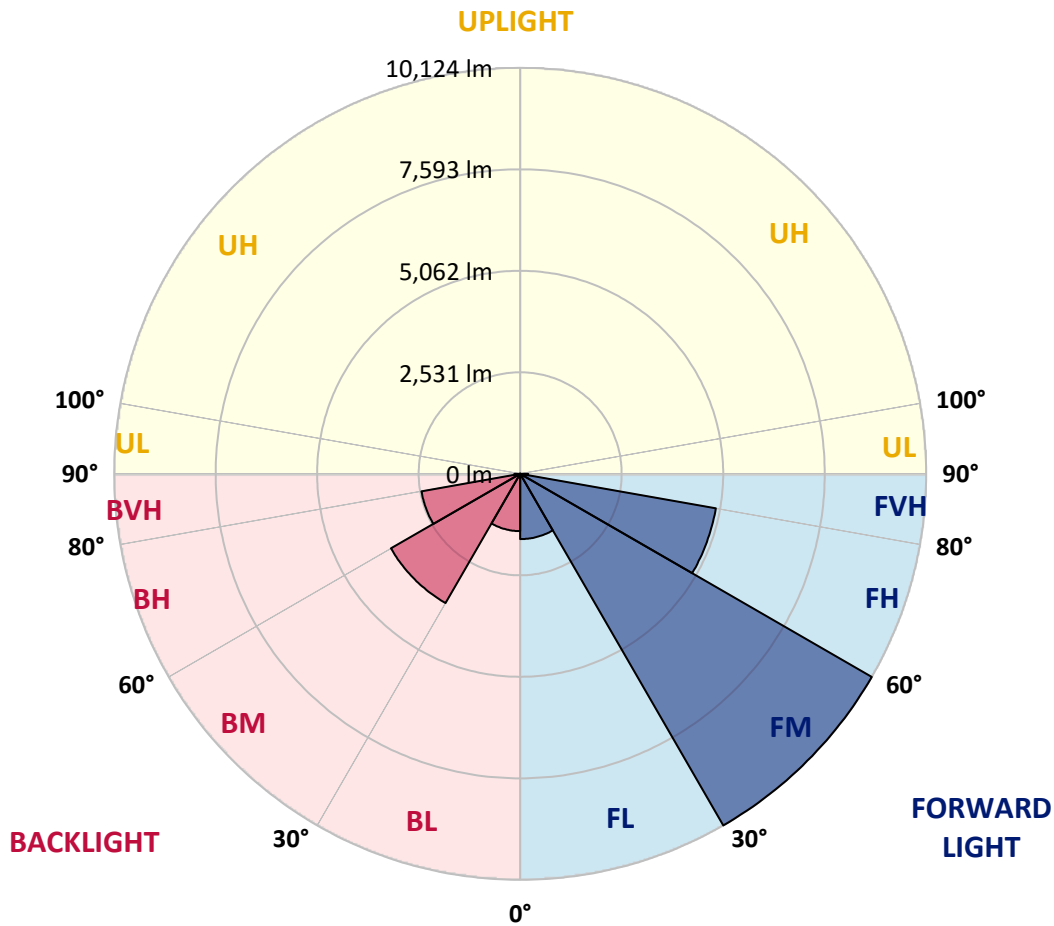
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.3	6.6			
FM (30°-60°)	10124.1	41.0			
FH (60°-80°)	4954.7	20.1			G2/5000
FVH (80°-90°)	200.8	0.8			G2/225
BL (0°-30°)	1429.5	5.8	B3/2500		
BM (30°-60°)	3721.3	15.1	B3/5000		
BH (60°-80°)	2500.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	143.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2
2.5°	2704.2	2696.5	2702.9	2702.9	2705.5	2704.2	2713.2	2715.8	2719.6	2727.3
5°	2677.3	2676.0	2687.6	2697.8	2708.1	2717.0	2728.6	2745.2	2747.8	2756.8
7.5°	2668.3	2660.6	2678.6	2691.4	2715.8	2737.5	2768.3	2796.5	2808.0	2811.9
10°	2737.5	2724.7	2741.4	2749.1	2769.6	2791.4	2827.3	2872.1	2884.9	2900.3
12.5°	2855.5	2841.4	2865.7	2877.2	2896.5	2915.7	2940.0	2983.6	2990.0	3018.2
15°	3016.9	3000.3	3015.7	3029.8	3061.8	3079.7	3104.1	3146.4	3146.4	3168.2
17.5°	3236.1	3214.3	3225.8	3231.0	3251.5	3278.4	3319.4	3356.6	3375.8	3368.1
20°	3562.9	3536.0	3536.0	3510.4	3502.7	3524.5	3578.3	3629.6	3650.1	3610.3
22.5°	4053.8	4015.3	3993.5	3906.4	3871.8	3874.3	3928.2	3991.0	4007.6	3937.1
25°	4677.9	4617.7	4588.2	4460.0	4381.9	4313.9	4356.2	4437.0	4460.0	4372.9
27.5°	5302.1	5305.9	5277.7	5123.9	4994.5	4870.2	4848.4	4933.0	4957.3	4858.6
30°	6177.4	6086.4	6032.6	5848.0	5663.5	5489.2	5399.5	5434.1	5440.5	5322.6
32.5°	6932.3	6909.2	6793.9	6632.4	6395.3	6122.3	5972.4	5917.2	5907.0	5739.1
35°	7792.3	7779.4	7657.7	7465.4	7209.1	6829.8	6559.3	6401.7	6388.9	6153.1
37.5°	8666.3	8666.3	8547.1	8336.9	8071.7	7597.5	7186.1	6936.1	6895.1	6587.5
40°	9363.5	9321.2	9343.0	9254.6	8950.8	8447.2	7882.0	7519.3	7464.2	7095.1
42.5°	9759.5	9745.4	9876.2	9974.9	9850.5	9448.1	8648.4	8151.1	8074.2	7653.8
45°	9848.0	9832.6	10065.9	10427.3	10601.6	10436.2	9481.4	8816.3	8722.7	8238.3
47.5°	9644.2	9613.4	9955.6	10526.0	11084.7	11375.7	10383.7	9537.8	9402.0	8807.3
50°	9031.6	9002.1	9519.9	10277.3	11247.5	12013.9	11362.9	10303.0	10095.3	9417.4
52.5°	7700.0	7714.1	8525.3	9566.0	11033.5	12411.2	12206.2	11109.1	10859.2	10041.5
55°	5998.0	6028.7	7025.8	8171.6	10177.4	12351.0	12781.6	11939.6	11690.9	10628.5
57.5°	4294.7	4430.6	5364.9	6499.1	8533.0	11396.2	12907.2	12729.1	12488.1	11269.3
60°	2783.7	2808.0	3769.2	4912.5	6497.8	9699.3	12652.2	13327.6	13139.2	11922.9
62.5°	1784.0	1800.7	2386.4	3436.0	4676.6	7175.8	11793.5	13587.7	13530.1	12354.8
65°	1311.1	1298.3	1603.3	2271.0	3150.2	4425.4	10126.1	13462.1	13576.2	12625.3
67.5°	1094.5	1076.6	1226.5	1572.5	2321.0	2513.3	7492.4	12645.8	13063.6	12594.5
70°	997.1	981.7	1072.7	1167.6	1810.9	1682.8	3776.9	10993.7	11637.1	12244.6
72.5°	844.6	817.7	942.0	1036.8	1408.5	1290.6	1561.0	8444.6	9229.0	11123.2
75°	654.9	637.0	743.3	912.5	1058.6	1007.4	986.8	5127.8	5983.9	8602.2
77.5°	519.1	494.7	592.1	711.3	952.2	760.0	719.0	2208.2	3056.7	5491.7
80°	390.9	369.1	449.8	562.6	731.8	572.9	465.2	901.0	1152.2	2782.4
82.5°	278.1	258.9	314.0	412.7	492.1	513.9	285.8	505.0	567.8	1072.7
85°	178.1	166.6	210.2	258.9	312.7	330.7	174.3	264.0	289.6	442.2
87.5°	97.4	79.5	112.8	120.5	144.8	132.0	83.3	96.1	103.8	160.2
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°
2722.2	0°	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2
2727.3	2.5°	2732.4	2736.3	2749.1	2752.9	2761.9	2773.4	2781.1	2788.8	2788.8	2796.5
2768.3	5°	2769.6	2778.6	2805.5	2819.6	2842.6	2865.7	2879.8	2896.5	2906.7	2911.8
2833.7	7.5°	2841.4	2855.5	2893.9	2918.3	2958.0	2990.0	3011.8	3034.9	3040.0	3054.1
2924.7	10°	2938.8	2955.4	2999.0	3045.1	3092.6	3132.3	3152.8	3169.4	3175.9	3178.4
3041.3	12.5°	3050.3	3074.6	3131.0	3187.4	3237.4	3272.0	3277.1	3273.3	3255.3	3239.9
3184.8	15°	3187.4	3209.2	3272.0	3333.5	3382.2	3388.6	3356.6	3336.1	3314.3	3310.4
3345.0	17.5°	3351.4	3363.0	3420.6	3480.9	3484.7	3462.9	3415.5	3396.3	3375.8	3361.7
3553.9	20°	3542.4	3538.6	3579.6	3605.2	3578.3	3511.6	3439.9	3407.8	3387.3	3370.7
3810.3	22.5°	3770.5	3741.1	3735.9	3729.5	3657.7	3518.1	3420.6	3379.6	3347.6	3324.5
4167.8	25°	4102.5	3989.7	3911.5	3867.9	3706.4	3483.4	3359.1	3268.1	3207.9	3168.2
4604.9	27.5°	4517.7	4328.0	4130.7	4024.3	3706.4	3413.0	3210.5	3063.1	2964.4	2923.4
5027.8	30°	4913.7	4715.1	4424.2	4212.7	3697.5	3297.6	2970.8	2765.7	2650.4	2609.4
5389.2	32.5°	5252.1	5035.5	4735.6	4419.0	3675.7	3110.5	2673.5	2446.6	2335.1	2286.4
5746.8	35°	5566.1	5335.4	5048.3	4645.9	3618.0	2836.2	2346.6	2173.6	2049.3	1971.1
6110.8	37.5°	5887.8	5613.5	5344.4	4850.9	3514.2	2515.8	2095.5	1948.1	1802.0	1696.9
6497.8	40°	6237.7	5909.6	5660.9	4972.7	3343.7	2210.8	1900.6	1766.1	1611.0	1499.5
6943.8	42.5°	6646.5	6264.6	6013.4	5035.5	3110.5	1994.2	1773.8	1641.8	1495.7	1404.7
7421.9	45°	7073.3	6655.5	6335.1	5034.2	2850.3	1893.0	1732.8	1602.0	1440.5	1345.7
7912.7	47.5°	7520.6	7064.3	6613.2	4952.2	2624.8	1907.1	1709.7	1516.2	1338.0	1245.7
8408.7	50°	7969.1	7511.6	6882.3	4798.4	2528.6	1876.3	1623.8	1395.7	1185.5	1102.2
8873.9	52.5°	8413.8	7987.1	7114.3	4579.2	2431.2	1762.2	1513.6	1239.3	1122.7	1065.0
9354.6	55°	8861.1	8457.4	7366.8	4260.1	2187.7	1628.9	1329.0	1180.4	1072.7	1020.2
9824.9	57.5°	9309.7	9000.8	7606.4	3941.0	1881.4	1464.9	1227.8	1108.6	1022.7	977.9
10218.4	60°	9776.2	9622.4	7853.8	3647.5	1579.0	1254.7	1153.5	1050.9	963.8	913.8
10596.4	62.5°	10256.8	10306.8	8047.3	3269.4	1300.8	1126.5	1086.8	981.7	897.1	849.7
10909.2	65°	10741.3	10966.8	8174.2	2745.2	1054.8	1004.8	1015.0	906.1	820.2	779.2
11138.6	67.5°	11106.5	11442.3	8138.3	2077.5	865.1	889.4	925.3	826.6	745.9	713.9
11101.4	70°	11147.5	11385.9	7784.6	1422.6	724.1	776.7	825.4	748.5	665.2	642.1
10578.5	72.5°	10601.6	10617.0	6799.0	929.2	612.6	681.8	720.3	669.0	588.3	565.2
9254.6	75°	9170.0	8780.4	4991.9	612.6	512.6	585.7	621.6	585.7	507.5	512.6
6924.6	77.5°	6947.7	6218.4	3031.0	435.8	428.1	492.1	540.8	515.2	448.6	503.7
3482.2	80°	3579.6	3364.3	1352.1	325.5	338.3	393.5	444.7	411.4	355.0	338.3
777.9	82.5°	820.2	953.5	533.2	233.3	244.8	283.2	339.6	308.9	255.0	215.3
324.3	85°	287.1	314.0	235.8	146.1	143.5	176.9	230.7	206.3	173.0	138.4
137.1	87.5°	91.0	119.2	88.4	59.0	61.5	79.5	106.4	97.4	80.7	52.5
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°
2722.2
2796.5
2914.4
3049.0
3172.0
3239.9
3310.4
3363.0
3371.9
3332.2
3183.5
2943.9
2633.7
2310.8
1996.8
1725.1
1521.3
1422.6
1361.1
1258.6
1107.3
1065.0
1015.0
970.2
910.0
848.4
777.9
715.1
643.4
563.9
494.7
443.4
308.9
212.7
146.1
55.1
0.0

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