

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: P942942

Luminaire Tested: **GALN-SB7A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22915 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

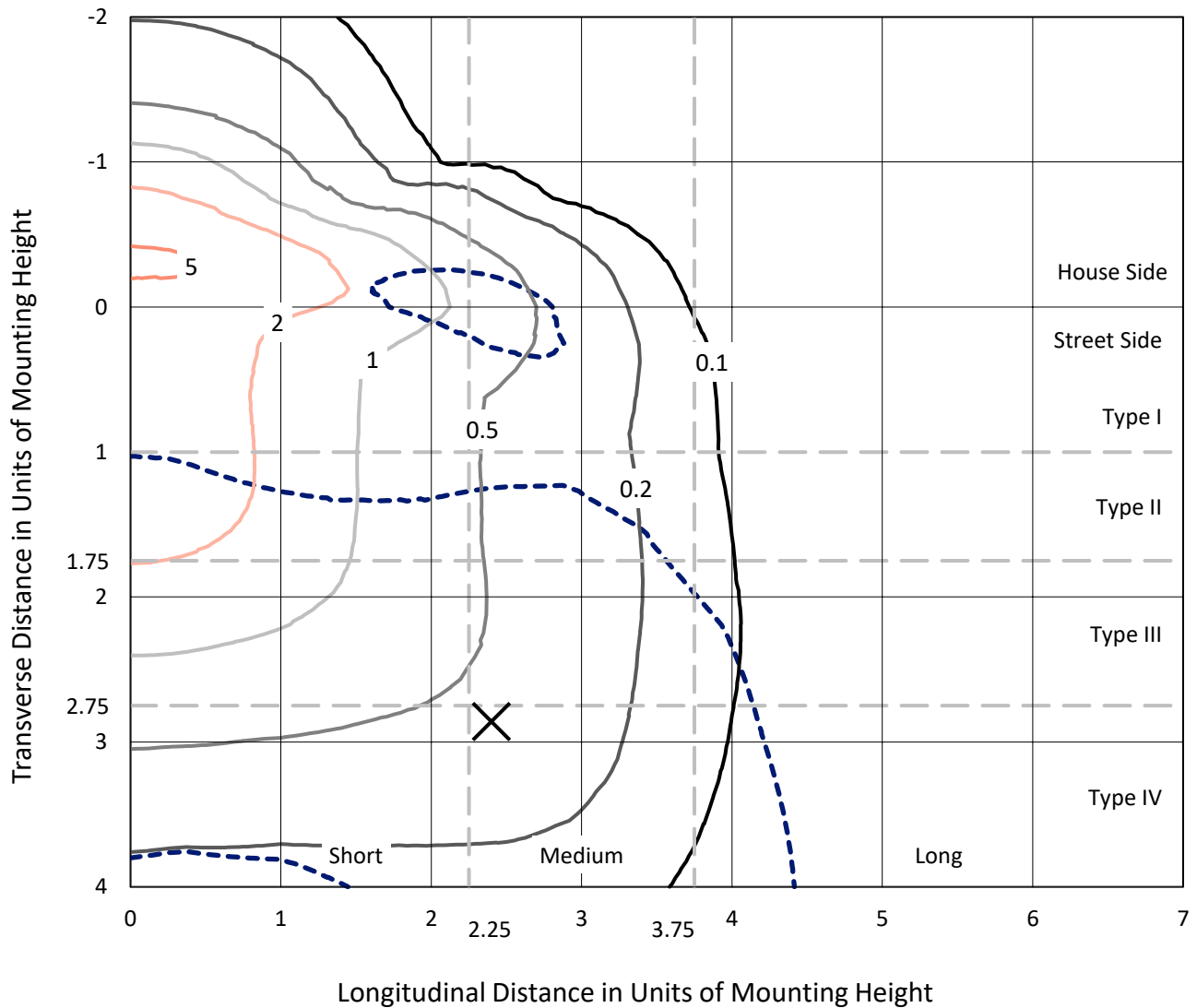
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

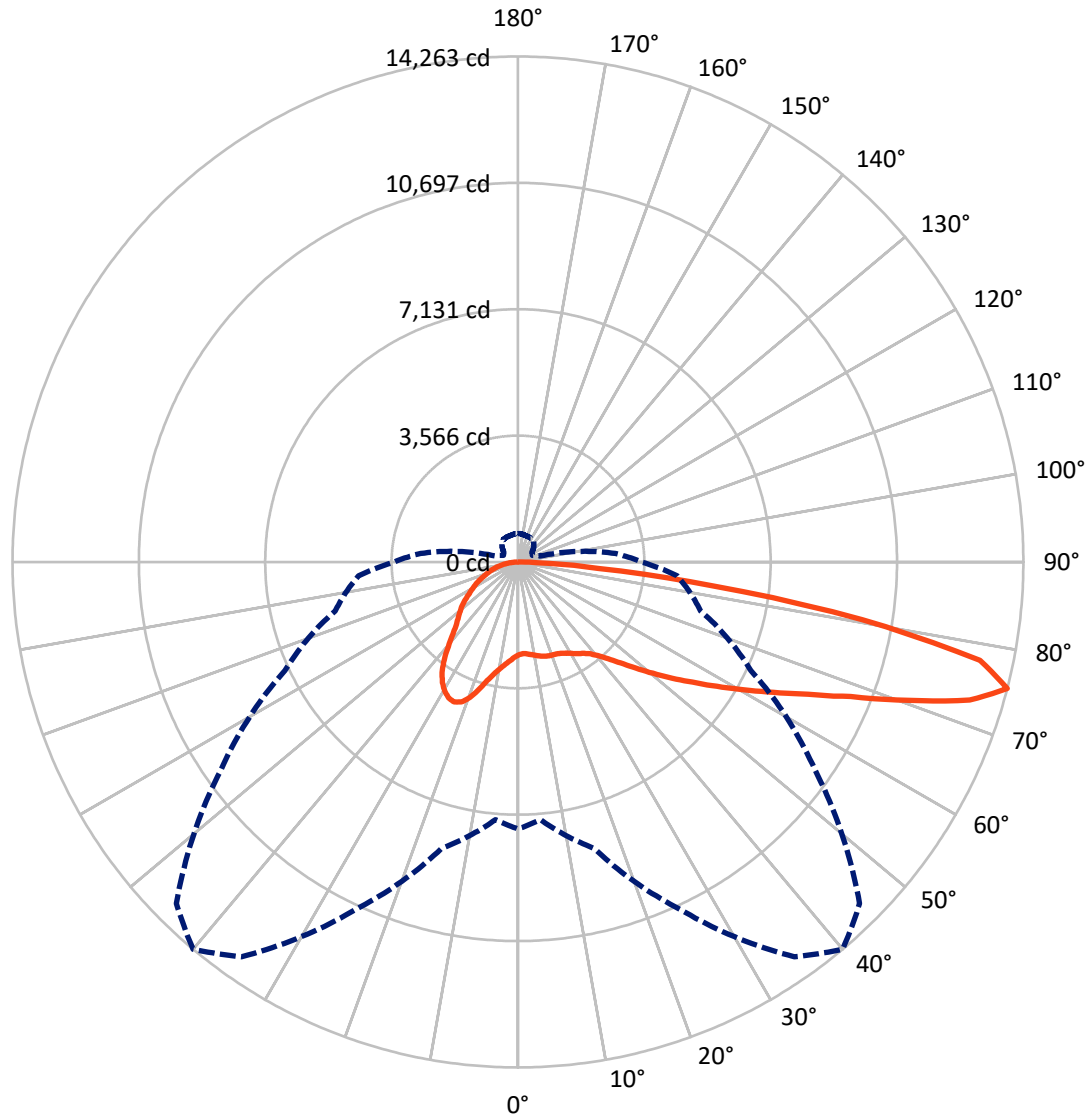
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7099.8	0.0	7099.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15815.2	0.0	15815.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	22915.0	0.0	22915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	1.1
10°-20°	878.2	3.8
20°-30°	1603.5	7.0
30°-40°	2274.2	9.9
40°-50°	3070.8	13.4
50°-60°	4131.1	18.0
60°-70°	5243.3	22.9
70°-80°	4758.6	20.8
80°-90°	693.7	3.0
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°	22915.0	100.0
0°-180°	22915.0	100.0

Coefficient of Utilization



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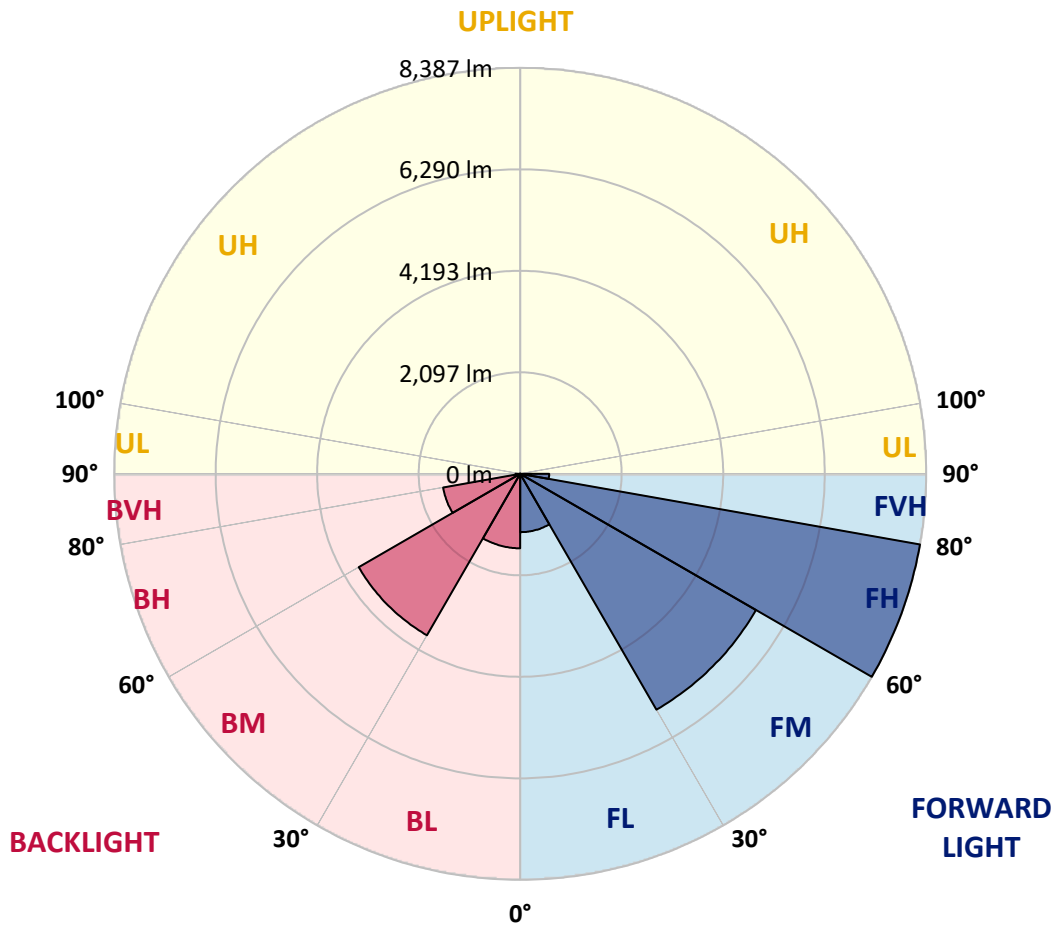
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.4	5.3			
FM (30°-60°)	5625.1	24.5			
FH (60°-80°)	8386.5	36.6			G4/12000
FVH (80°-90°)	598.2	2.6			G4/750
BL (0°-30°)	1537.9	6.7	B3/2500		
BM (30°-60°)	3851.0	16.8	B3/5000		
BH (60°-80°)	1615.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	95.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4
2.5°	2580.3	2594.8	2591.2	2586.3	2586.3	2587.5	2586.3	2594.8	2603.3	2611.9
5°	2607.0	2621.6	2614.3	2608.2	2603.3	2602.1	2598.5	2597.3	2602.1	2613.1
7.5°	2659.3	2673.8	2662.9	2652.0	2642.2	2637.4	2632.5	2625.2	2621.6	2627.7
10°	2717.6	2732.2	2718.8	2699.4	2683.6	2677.5	2672.6	2665.3	2660.5	2664.1
12.5°	2775.9	2790.5	2772.3	2745.5	2724.9	2721.2	2715.2	2712.7	2711.5	2710.3
15°	2830.6	2842.8	2819.7	2788.1	2766.2	2760.1	2754.1	2757.7	2763.8	2771.1
17.5°	2873.2	2885.3	2851.3	2810.0	2789.3	2786.9	2783.2	2795.4	2812.4	2830.6
20°	2912.1	2924.2	2880.5	2824.5	2800.2	2800.2	2801.5	2827.0	2851.3	2878.0
22.5°	2966.7	2976.5	2923.0	2846.4	2811.2	2813.6	2823.3	2848.9	2879.2	2915.7
25°	3048.2	3055.5	2989.8	2887.7	2847.6	2854.9	2863.4	2875.6	2904.8	2947.3
27.5°	3179.4	3185.5	3099.2	2960.7	2899.9	2912.1	2924.2	2915.7	2929.1	2965.5
30°	3364.2	3367.8	3258.4	3074.9	2988.6	2994.7	2997.1	2961.9	2936.4	2965.5
32.5°	3582.9	3581.7	3451.7	3213.5	3089.5	3083.4	3062.8	2993.5	2933.9	2959.5
35°	3922.0	3908.7	3740.9	3407.9	3203.7	3166.1	3117.5	3028.7	2946.1	2953.4
37.5°	4483.5	4442.2	4210.1	3726.4	3373.9	3277.9	3206.2	3085.9	2972.8	2950.9
40°	5116.8	5064.5	4809.3	4162.7	3629.1	3474.8	3359.3	3167.3	3016.6	2961.9
42.5°	5867.9	5793.7	5519.0	4676.8	3952.4	3728.8	3555.0	3270.6	3081.0	2997.1
45°	6790.3	6691.9	6303.0	5256.5	4359.6	4061.8	3829.7	3427.4	3179.4	3065.2
47.5°	7722.5	7746.8	7193.8	5920.1	4848.2	4472.6	4173.6	3663.2	3322.9	3174.6
50°	8713.1	8730.1	8079.9	6655.4	5402.4	4936.9	4560.1	3926.9	3522.2	3330.1
52.5°	9486.0	9488.5	8884.4	7424.8	5979.7	5447.3	4977.0	4228.3	3753.1	3536.8
55°	9969.8	9963.7	9448.4	8152.8	6643.3	5983.3	5438.8	4571.0	4035.1	3779.8
57.5°	10321.0	10302.8	9837.3	8778.7	7350.6	6616.5	5961.4	4960.0	4368.1	4069.1
60°	10454.7	10443.8	10101.0	9319.5	8094.4	7316.6	6564.3	5395.1	4746.1	4410.6
62.5°	10505.8	10526.4	10359.9	9843.4	8890.5	8092.0	7226.7	5915.3	5171.4	4797.1
65°	10685.6	10723.3	10689.3	10528.8	9789.9	8999.9	8105.4	6533.9	5635.7	5211.6
67.5°	11041.7	11079.4	11094.0	11349.2	10888.6	10131.4	9201.6	7304.4	6179.0	5641.8
70°	11033.2	11022.3	11279.9	12001.9	12264.4	11698.0	10679.6	8252.4	6826.8	5999.1
72.5°	10042.7	9955.2	10564.1	11994.6	13409.3	13333.9	12484.4	9475.1	7385.9	6042.9
75°	7534.1	7300.8	8376.4	10809.6	13600.1	14262.5	13631.7	10233.5	7253.4	5339.2
77.5°	3222.0	2987.4	4255.0	8002.1	12172.0	13332.7	12579.2	8928.2	5790.1	3530.7
80°	843.5	842.3	1285.9	3627.9	8278.0	9845.8	8637.7	5765.8	3308.3	1261.6
82.5°	348.8	340.3	472.8	1411.1	4044.8	5525.1	4509.1	2571.7	1194.7	341.5
85°	130.0	128.8	229.7	487.4	1426.9	2278.8	1649.3	657.5	297.8	166.5
87.5°	36.5	35.2	49.8	168.9	347.6	527.5	282.0	108.2	83.9	65.6
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°
2620.4	0°	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4	2620.4
2625.2	2.5°	2628.9	2634.9	2645.9	2654.4	2665.3	2677.5	2694.5	2705.4	2716.4	2723.7
2631.3	5°	2639.8	2653.2	2681.1	2709.1	2741.9	2772.3	2807.5	2833.1	2853.7	2859.8
2653.2	7.5°	2664.1	2686.0	2733.4	2780.8	2833.1	2882.9	2933.9	2977.7	3012.9	3026.3
2692.1	10°	2706.7	2735.8	2802.7	2869.5	2938.8	3015.4	3081.0	3144.2	3194.0	3214.7
2738.3	12.5°	2760.1	2796.6	2884.1	2976.5	3072.5	3178.2	3263.3	3341.1	3403.1	3431.0
2802.7	15°	2829.4	2876.8	2988.6	3112.6	3253.6	3400.6	3508.8	3595.1	3664.4	3698.4
2869.5	17.5°	2904.8	2968.0	3108.9	3296.1	3497.9	3691.1	3817.5	3880.7	3952.4	3985.2
2931.5	20°	2977.7	3055.5	3257.2	3529.5	3798.1	4003.5	4105.6	4122.6	4127.4	4131.1
2989.8	22.5°	3053.0	3157.6	3443.2	3823.6	4111.6	4253.8	4268.4	4195.5	4093.4	4046.0
3047.0	25°	3135.7	3274.2	3686.2	4148.1	4381.4	4398.5	4286.6	4109.2	3916.0	3827.2
3093.1	27.5°	3215.9	3409.1	3977.9	4458.0	4575.9	4426.4	4185.8	3934.2	3700.8	3607.2
3126.0	30°	3296.1	3563.5	4300.0	4729.0	4664.6	4357.1	4026.6	3745.8	3511.2	3412.8
3155.1	32.5°	3377.5	3743.4	4670.7	4924.7	4648.8	4210.1	3828.4	3534.3	3327.7	3224.4
3180.7	35°	3469.9	3964.6	5022.0	5031.7	4543.1	3993.7	3567.1	3281.5	3101.7	3019.0
3211.0	37.5°	3590.2	4245.3	5331.9	5058.4	4358.4	3676.5	3242.6	2982.5	2834.3	2796.6
3256.0	40°	3739.7	4583.2	5568.9	5015.9	4084.9	3291.3	2887.7	2679.9	2596.1	2604.6
3316.8	42.5°	3934.2	4961.2	5735.4	4906.5	3704.5	2893.8	2576.6	2484.2	2524.3	2558.4
3407.9	45°	4187.0	5353.8	5838.7	4720.5	3274.2	2557.2	2393.1	2415.0	2445.3	2449.0
3555.0	47.5°	4510.3	5751.2	5906.8	4439.8	2835.5	2320.2	2276.4	2281.3	2275.2	2249.7
3775.0	50°	4913.8	6137.7	5967.5	4067.9	2462.4	2171.9	2113.5	2096.5	2012.7	1930.0
4067.9	52.5°	5373.2	6492.6	5993.0	3606.0	2171.9	2047.9	1953.1	1846.2	1689.4	1663.9
4436.1	55°	5883.7	6820.7	5927.4	3038.5	1927.6	1888.7	1745.3	1616.5	1599.4	1577.6
4921.1	57.5°	6493.8	7174.4	5793.7	2405.2	1677.2	1702.7	1563.0	1577.6	1547.2	1513.1
5544.6	60°	7161.0	7540.2	5559.2	1827.9	1418.3	1470.6	1515.6	1514.4	1505.9	1477.9
6202.1	62.5°	7761.4	7780.9	5097.3	1400.1	1191.1	1290.7	1413.5	1412.3	1405.0	1389.2
6888.8	65°	8118.7	7744.4	4326.8	1102.4	1003.9	1142.5	1274.9	1284.7	1285.9	1284.7
7405.3	67.5°	8055.5	7317.8	3269.4	877.5	849.6	991.8	1137.6	1151.0	1160.7	1163.1
7470.9	70°	7340.9	6380.7	2131.8	700.1	712.2	859.3	1007.6	1020.9	1029.4	1039.2
6482.8	72.5°	5722.0	4691.4	1220.2	566.4	591.9	745.0	878.7	894.5	899.4	917.6
4511.5	75°	3486.9	2758.9	658.7	446.0	486.2	636.9	751.1	769.3	777.8	799.7
2215.6	77.5°	1657.8	1194.7	375.6	347.6	391.4	520.2	634.4	655.1	632.0	644.2
611.3	80°	560.3	443.6	237.0	265.0	299.0	405.9	508.0	528.7	480.1	477.6
203.0	82.5°	195.7	179.9	150.7	176.2	193.2	290.5	384.1	410.8	357.3	356.1
91.2	85°	76.6	72.9	83.9	96.0	115.5	178.7	252.8	266.2	220.0	177.4
26.7	87.5°	15.8	17.0	20.7	21.9	35.2	62.0	91.2	111.8	88.7	75.4
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°
2620.4
2718.8
2862.2
3027.5
3215.9
3431.0
3696.0
3984.0
4140.8
4059.4
3840.6
3618.2
3423.7
3237.8
3037.2
2823.3
2633.7
2590.0
2473.3
2269.1
1941.0
1672.4
1581.2
1507.1
1468.2
1383.1
1284.7
1165.6
1044.0
924.9
802.2
634.4
472.8
339.1
175.0
69.3
0.0

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