

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: P941512

Luminaire Tested: **GALN-SB5A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941512
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-SB5A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 20183 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

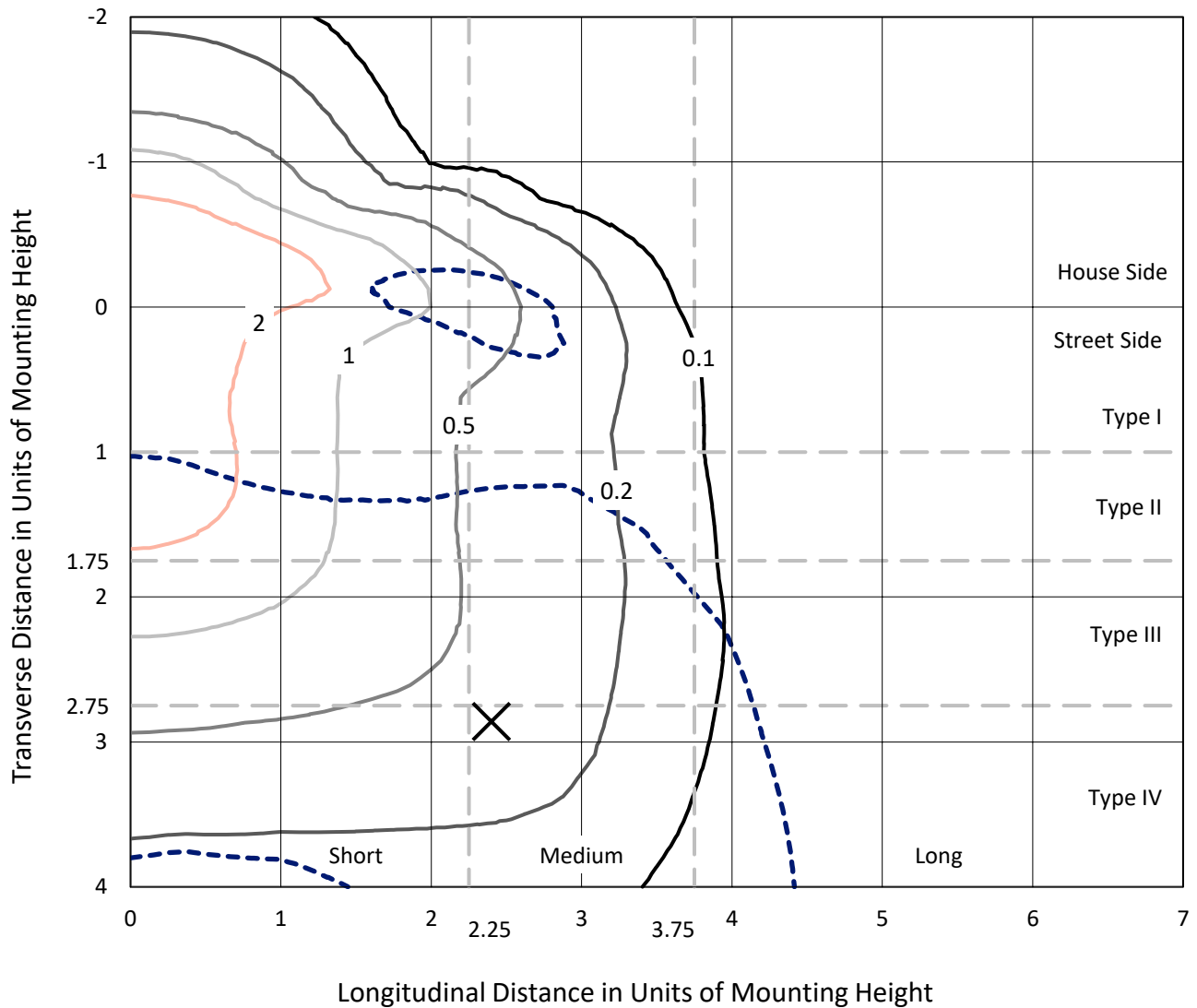
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

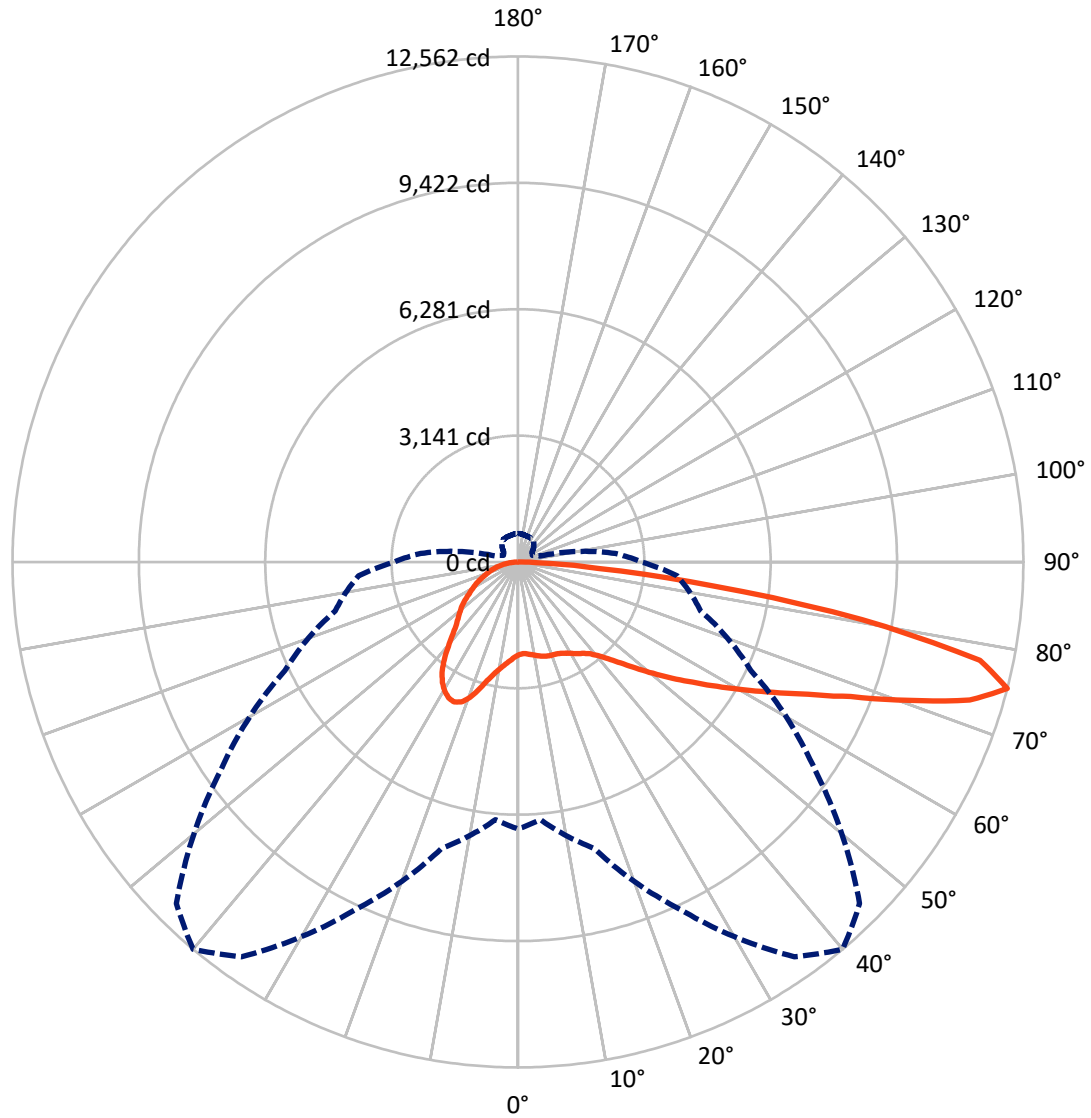
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	6253.4	0.0	6253.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13929.6	0.0	13929.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	20183.0	0.0	20183.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	1.1
10°-20°	773.5	3.8
20°-30°	1412.3	7.0
30°-40°	2003.1	9.9
40°-50°	2704.7	13.4
50°-60°	3638.6	18.0
60°-70°	4618.2	22.9
70°-80°	4191.3	20.8
80°-90°	611.0	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°	20183.0	100.0
0°-180°	20183.0	100.0



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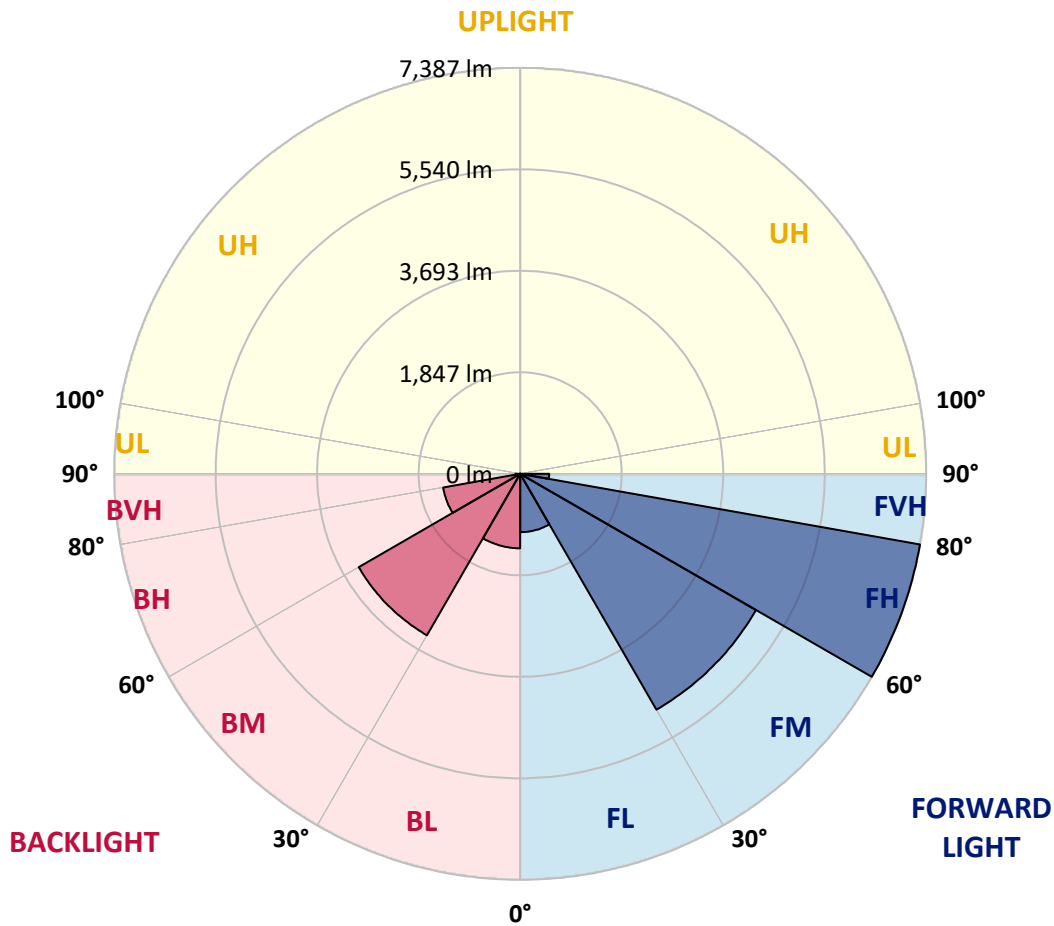
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.6	5.3			
FM (30°-60°)	4954.5	24.5			
FH (60°-80°)	7386.7	36.6			G3/7500
FVH (80°-90°)	526.8	2.6			G4/750
BL (0°-30°)	1354.5	6.7	B3/2500		
BM (30°-60°)	3391.9	16.8	B3/5000		
BH (60°-80°)	1422.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	84.1	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°	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0
2.5°	2272.6	2285.5	2282.3	2278.0	2278.0	2279.1	2278.0	2285.5	2293.0	2300.5
5°	2296.2	2309.0	2302.6	2297.2	2293.0	2291.9	2288.7	2287.6	2291.9	2301.5
7.5°	2342.2	2355.1	2345.4	2335.8	2327.2	2322.9	2318.7	2312.2	2309.0	2314.4
10°	2393.6	2406.4	2394.7	2377.5	2363.6	2358.3	2354.0	2347.6	2343.3	2346.5
12.5°	2445.0	2457.8	2441.8	2418.2	2400.0	2396.8	2391.5	2389.3	2388.2	2387.2
15°	2493.1	2503.9	2483.5	2455.7	2436.4	2431.1	2425.7	2428.9	2434.3	2440.7
17.5°	2530.6	2541.3	2511.3	2474.9	2456.7	2454.6	2451.4	2462.1	2477.1	2493.1
20°	2564.9	2575.6	2537.0	2487.8	2466.4	2466.4	2467.5	2489.9	2511.3	2534.9
22.5°	2613.0	2621.6	2574.5	2507.1	2476.0	2478.2	2486.7	2509.2	2536.0	2568.1
25°	2684.8	2691.2	2633.4	2543.5	2508.1	2514.6	2522.0	2532.8	2558.4	2595.9
27.5°	2800.4	2805.7	2729.7	2607.7	2554.2	2564.9	2575.6	2568.1	2579.9	2612.0
30°	2963.1	2966.3	2870.0	2708.3	2632.3	2637.7	2639.8	2608.8	2586.3	2612.0
32.5°	3155.8	3154.7	3040.2	2830.3	2721.2	2715.8	2697.6	2636.6	2584.1	2606.6
35°	3454.4	3442.7	3294.9	3001.6	2821.8	2788.6	2745.8	2667.6	2594.8	2601.3
37.5°	3949.0	3912.6	3708.1	3282.1	2971.6	2887.1	2823.9	2717.9	2618.4	2599.1
40°	4506.7	4460.7	4235.9	3666.4	3196.5	3060.5	2958.8	2789.7	2656.9	2608.8
42.5°	5168.3	5103.0	4861.0	4119.2	3481.2	3284.2	3131.2	2880.7	2713.7	2639.8
45°	5980.8	5894.1	5551.5	4629.8	3839.8	3577.5	3373.1	3018.8	2800.4	2699.7
47.5°	6801.8	6823.2	6336.2	5214.3	4270.1	3939.4	3676.0	3226.4	2926.7	2796.1
50°	7674.3	7689.3	7116.5	5861.9	4758.3	4348.3	4016.4	3458.7	3102.2	2933.1
52.5°	8355.1	8357.2	7825.2	6539.6	5266.8	4797.9	4383.6	3724.2	3305.6	3115.1
55°	8781.1	8775.8	8321.9	7180.8	5851.2	5270.0	4790.4	4026.1	3554.0	3329.2
57.5°	9090.5	9074.5	8664.5	7732.1	6474.3	5827.7	5250.7	4368.6	3847.3	3584.0
60°	9208.3	9198.6	8896.8	8208.4	7129.4	6444.3	5781.7	4751.9	4180.2	3884.8
62.5°	9253.2	9271.4	9124.8	8669.8	7830.6	7127.2	6365.1	5210.0	4554.9	4225.2
65°	9411.7	9444.8	9414.9	9273.6	8622.7	7926.9	7139.0	5754.9	4963.8	4590.2
67.5°	9725.3	9758.5	9771.3	9996.1	9590.4	8923.5	8104.6	6433.6	5442.3	4969.2
70°	9717.8	9708.2	9935.1	10571.0	10802.2	10303.4	9406.3	7268.6	6012.9	5283.9
72.5°	8845.4	8768.3	9304.6	10564.6	11810.6	11744.2	10996.0	8345.5	6505.3	5322.4
75°	6635.9	6430.4	7377.7	9520.8	11978.7	12562.1	12006.5	9013.4	6388.6	4702.6
77.5°	2837.8	2631.2	3747.7	7048.0	10720.8	11743.2	11079.5	7863.7	5099.8	3109.7
80°	742.9	741.8	1132.6	3195.4	7291.0	8672.0	7607.9	5078.4	2913.8	1111.2
82.5°	307.2	299.7	416.4	1242.8	3562.6	4866.4	3971.5	2265.1	1052.3	300.8
85°	114.5	113.5	202.3	429.3	1256.7	2007.1	1452.6	579.1	262.3	146.7
87.5°	32.1	31.0	43.9	148.8	306.2	464.6	248.4	95.3	73.9	57.8
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°
2308.0	0°	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0	2308.0
2312.2	2.5°	2315.4	2320.8	2330.4	2337.9	2347.6	2358.3	2373.3	2382.9	2392.5	2398.9
2317.6	5°	2325.1	2336.9	2361.5	2386.1	2415.0	2441.8	2472.8	2495.3	2513.5	2518.8
2336.9	7.5°	2346.5	2365.8	2407.5	2449.3	2495.3	2539.2	2584.1	2622.7	2653.7	2665.5
2371.1	10°	2384.0	2409.6	2468.5	2527.4	2588.4	2655.9	2713.7	2769.3	2813.2	2831.4
2411.8	12.5°	2431.1	2463.2	2540.2	2621.6	2706.2	2799.3	2874.2	2942.7	2997.3	3022.0
2468.5	15°	2492.1	2533.8	2632.3	2741.5	2865.7	2995.2	3090.5	3166.5	3227.5	3257.5
2527.4	17.5°	2558.4	2614.1	2738.3	2903.1	3080.8	3251.0	3362.4	3418.0	3481.2	3510.1
2582.0	20°	2622.7	2691.2	2868.9	3108.7	3345.2	3526.2	3616.1	3631.1	3635.3	3638.6
2633.4	22.5°	2689.0	2781.1	3032.7	3367.7	3621.4	3746.7	3759.5	3695.3	3605.4	3563.6
2683.7	25°	2761.8	2883.9	3246.8	3653.5	3859.1	3874.1	3775.6	3619.3	3449.1	3370.9
2724.4	27.5°	2832.5	3002.7	3503.7	3926.5	4030.4	3898.7	3686.7	3465.1	3259.6	3177.2
2753.3	30°	2903.1	3138.6	3787.4	4165.2	4108.5	3837.7	3546.5	3299.2	3092.6	3005.9
2779.0	32.5°	2974.9	3297.1	4113.9	4337.6	4094.6	3708.1	3372.0	3113.0	2931.0	2840.0
2801.4	35°	3056.2	3491.9	4423.2	4431.8	4001.5	3517.6	3141.9	2890.3	2731.9	2659.1
2828.2	37.5°	3162.2	3739.2	4696.2	4455.3	3838.7	3238.2	2856.0	2627.0	2496.4	2463.2
2867.8	40°	3293.9	4036.8	4904.9	4417.9	3597.9	2898.9	2543.5	2360.4	2286.5	2294.0
2921.3	42.5°	3465.1	4369.7	5051.6	4321.5	3262.8	2548.8	2269.4	2188.1	2223.4	2253.4
3001.6	45°	3687.8	4715.5	5142.6	4157.7	2883.9	2252.3	2107.8	2127.0	2153.8	2157.0
3131.2	47.5°	3972.5	5065.5	5202.5	3910.5	2497.4	2043.5	2005.0	2009.3	2003.9	1981.5
3324.9	50°	4327.9	5405.9	5256.1	3582.9	2168.8	1912.9	1861.6	1846.6	1772.7	1699.9
3582.9	52.5°	4732.6	5718.5	5278.5	3176.1	1912.9	1803.8	1720.3	1626.1	1488.0	1465.5
3907.2	55°	5182.2	6007.5	5220.7	2676.2	1697.8	1663.5	1537.2	1423.7	1408.8	1389.5
4334.4	57.5°	5719.6	6319.0	5103.0	2118.5	1477.3	1499.7	1376.6	1389.5	1362.7	1332.7
4883.5	60°	6307.3	6641.3	4896.4	1610.0	1249.2	1295.3	1334.9	1333.8	1326.3	1301.7
5462.7	62.5°	6836.1	6853.2	4489.6	1233.2	1049.1	1136.8	1245.0	1243.9	1237.5	1223.6
6067.5	65°	7150.8	6821.1	3810.9	970.9	884.2	1006.3	1122.9	1131.5	1132.6	1131.5
6522.4	67.5°	7095.1	6445.4	2879.6	772.9	748.3	873.5	1002.0	1013.7	1022.3	1024.4
6580.2	70°	6465.7	5620.0	1877.6	616.6	627.3	756.8	887.4	899.2	906.7	915.3
5709.9	72.5°	5039.8	4132.0	1074.8	498.8	521.3	656.2	774.0	787.9	792.2	808.2
3973.6	75°	3071.2	2430.0	580.2	392.9	428.2	560.9	661.6	677.6	685.1	704.4
1951.5	77.5°	1460.1	1052.3	330.8	306.2	344.7	458.2	558.8	577.0	556.6	567.4
538.5	80°	493.5	390.7	208.7	233.4	263.3	357.5	447.5	465.7	422.8	420.7
178.8	82.5°	172.3	158.4	132.7	155.2	170.2	255.8	338.3	361.8	314.7	313.7
80.3	85°	67.4	64.2	73.9	84.6	101.7	157.4	222.7	234.4	193.8	156.3
23.6	87.5°	13.9	15.0	18.2	19.3	31.0	54.6	80.3	98.5	78.1	66.4
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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<u>180°</u>
2308.0
2394.7
2521.0
2666.6
2832.5
3022.0
3255.3
3509.0
3647.1
3575.4
3382.7
3186.8
3015.5
2851.8
2675.1
2486.7
2319.7
2281.2
2178.4
1998.6
1709.6
1473.0
1392.7
1327.4
1293.1
1218.2
1131.5
1026.6
919.5
814.6
706.5
558.8
416.4
298.7
154.1
61.0
0.0

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