

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: P942952

Luminaire Tested: **GALN-SB7A-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942952
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-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 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: 21998 lumens
Efficiency: N/A
Efficacy: 110.5 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

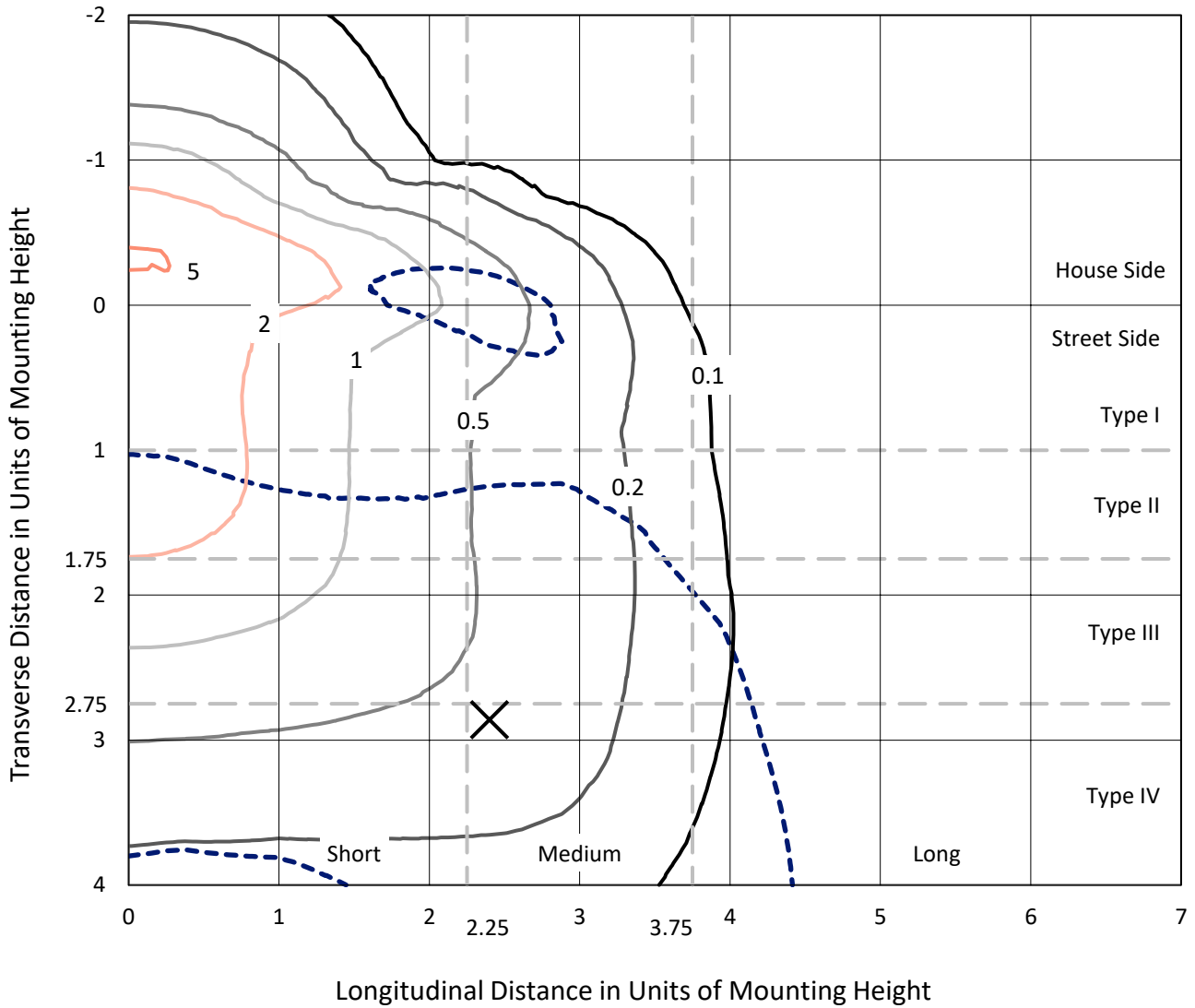
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

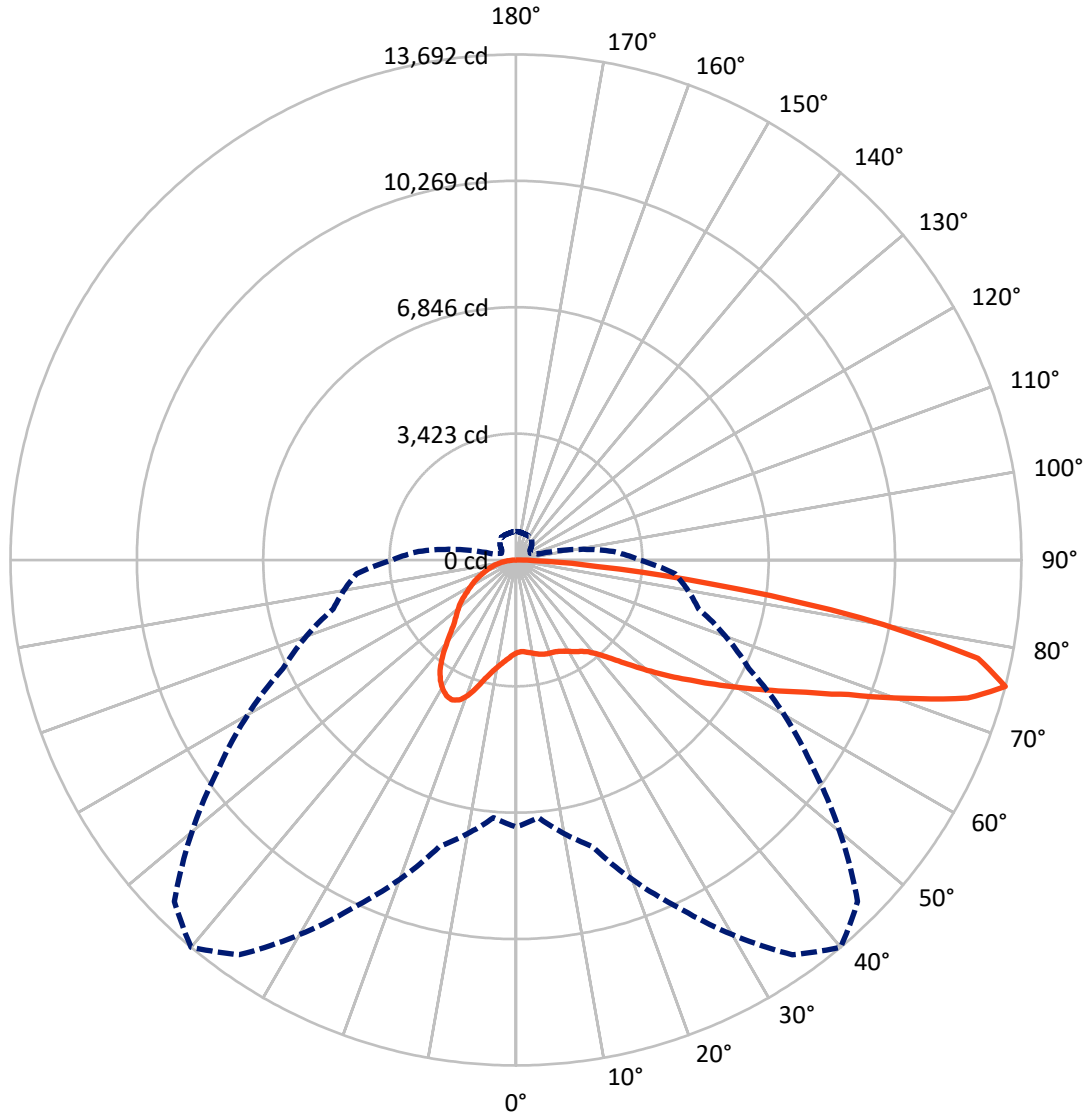
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	6815.7	0.0	6815.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15182.3	0.0	15182.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	21998.0	0.0	21998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.1
10°-20°	843.0	3.8
20°-30°	1539.3	7.0
30°-40°	2183.2	9.9
40°-50°	2948.0	13.4
50°-60°	3965.8	18.0
60°-70°	5033.5	22.9
70°-80°	4568.2	20.8
80°-90°	665.9	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°	21998.0	100.0
0°-180°	21998.0	100.0

Coefficient of Utilization



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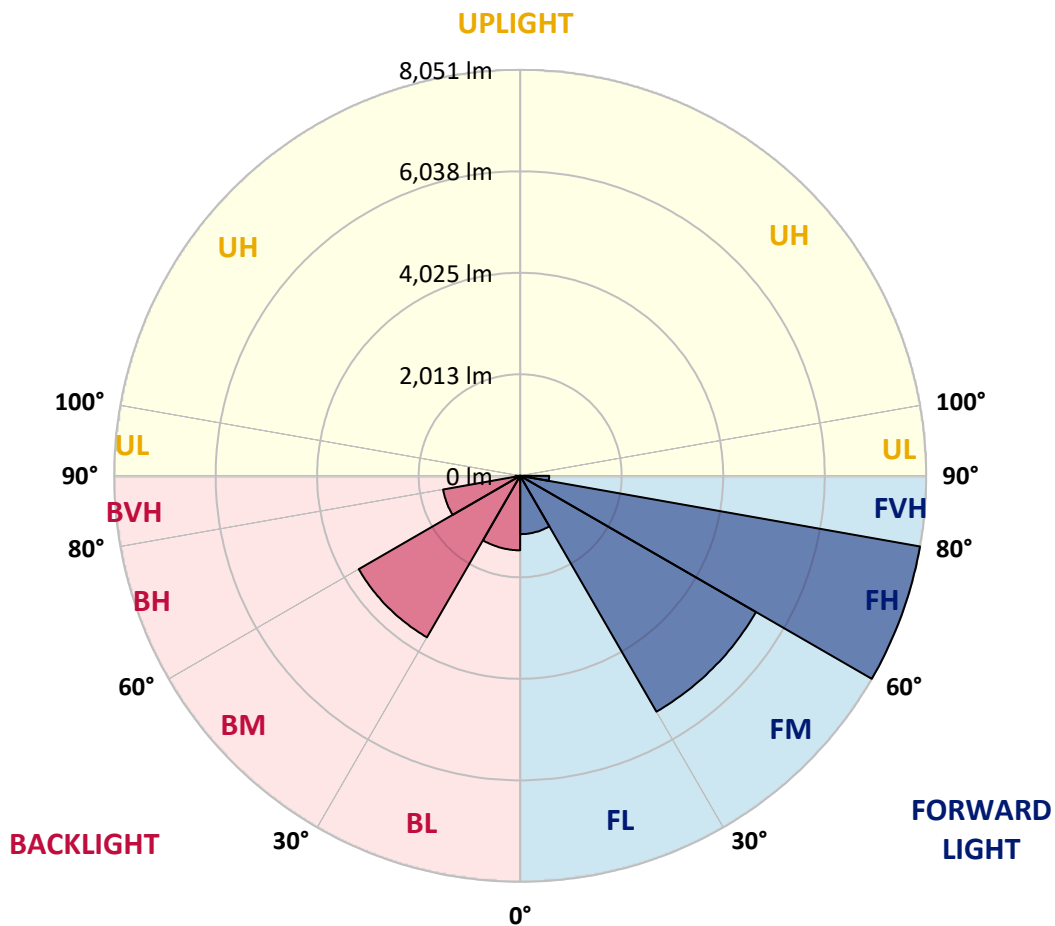
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.1	5.3			
FM (30°-60°)	5400.0	24.5			
FH (60°-80°)	8050.9	36.6			G4/12000
FVH (80°-90°)	574.2	2.6			G4/750
BL (0°-30°)	1476.3	6.7	B3/2500		
BM (30°-60°)	3696.9	16.8	B3/5000		
BH (60°-80°)	1550.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	91.7	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°	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5
2.5°	2477.0	2491.0	2487.5	2482.8	2482.8	2484.0	2482.8	2491.0	2499.2	2507.3
5°	2502.7	2516.7	2509.7	2503.8	2499.2	2498.0	2494.5	2493.3	2498.0	2508.5
7.5°	2552.8	2566.8	2556.3	2545.8	2536.5	2531.8	2527.2	2520.2	2516.7	2522.5
10°	2608.8	2622.8	2610.0	2591.3	2576.2	2570.3	2565.7	2558.7	2554.0	2557.5
12.5°	2664.8	2678.8	2661.3	2635.7	2615.8	2612.3	2606.5	2604.2	2603.0	2601.8
15°	2717.3	2729.0	2706.8	2676.5	2655.5	2649.7	2643.8	2647.3	2653.2	2660.2
17.5°	2758.2	2769.9	2737.2	2697.5	2677.7	2675.3	2671.8	2683.5	2699.8	2717.3
20°	2795.5	2807.2	2765.2	2711.5	2688.2	2688.2	2689.3	2713.8	2737.2	2762.9
22.5°	2848.0	2857.4	2806.0	2732.5	2698.7	2701.0	2710.3	2734.8	2764.0	2799.0
25°	2926.2	2933.2	2870.2	2772.2	2733.7	2740.7	2748.8	2760.5	2788.5	2829.4
27.5°	3052.2	3058.0	2975.2	2842.2	2783.9	2795.5	2807.2	2799.0	2811.9	2846.9
30°	3229.5	3233.0	3128.0	2951.9	2869.0	2874.9	2877.2	2843.4	2818.9	2846.9
32.5°	3439.6	3438.4	3313.6	3084.9	2965.9	2960.0	2940.2	2873.7	2816.5	2841.0
35°	3765.1	3752.2	3591.2	3271.6	3075.5	3039.4	2992.7	2907.5	2828.2	2835.2
37.5°	4304.1	4264.5	4041.6	3577.2	3238.9	3146.7	3077.9	2962.4	2853.9	2832.9
40°	4912.0	4861.8	4616.8	3996.1	3483.9	3335.7	3224.9	3040.5	2895.9	2843.4
42.5°	5633.0	5561.9	5298.2	4489.6	3794.3	3579.6	3412.7	3139.7	2957.7	2877.2
45°	6518.6	6424.1	6050.7	5046.2	4185.1	3899.3	3676.4	3290.2	3052.2	2942.5
47.5°	7413.5	7436.8	6906.0	5683.2	4654.1	4293.6	4006.6	3516.6	3189.9	3047.5
50°	8364.4	8380.7	7756.5	6389.1	5186.2	4739.3	4377.6	3769.8	3381.2	3196.9
52.5°	9106.4	9108.8	8528.9	7127.6	5740.4	5229.3	4777.8	4059.1	3602.9	3395.2
55°	9570.8	9565.0	9070.3	7826.5	6377.4	5743.9	5221.2	4388.1	3873.6	3628.6
57.5°	9908.0	9890.5	9443.6	8427.4	7056.5	6351.8	5722.9	4761.5	4193.3	3906.3
60°	10036.3	10025.8	9696.8	8946.6	7770.5	7023.8	6301.6	5179.2	4556.1	4234.1
62.5°	10085.3	10105.2	9945.3	9449.5	8534.7	7768.2	6937.5	5678.5	4964.5	4605.1
65°	10258.0	10294.2	10261.5	10107.5	9398.1	8639.7	7781.0	6272.4	5410.2	5003.0
67.5°	10599.9	10636.0	10650.0	10895.1	10452.9	9726.0	8833.4	7012.1	5931.7	5416.0
70°	10591.7	10581.2	10828.6	11521.6	11773.6	11229.9	10252.2	7922.2	6553.6	5759.0
72.5°	9640.8	9556.8	10141.3	11514.6	12872.7	12800.4	11984.8	9095.9	7090.3	5801.1
75°	7232.6	7008.6	8041.2	10377.0	13055.9	13691.7	13086.2	9824.0	6963.1	5125.5
77.5°	3093.0	2867.9	4084.8	7681.8	11684.9	12799.2	12075.8	8570.9	5558.4	3389.4
80°	809.7	808.6	1234.4	3482.7	7946.7	9451.8	8292.1	5535.0	3175.9	1211.1
82.5°	334.9	326.7	453.9	1354.6	3882.9	5304.0	4328.6	2468.8	1146.9	327.9
85°	124.8	123.7	220.5	467.9	1369.8	2187.6	1583.3	631.2	285.9	159.8
87.5°	35.0	33.8	47.8	162.2	333.7	506.4	270.7	103.8	80.5	63.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2515.5	0°	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5	2515.5
2520.2	2.5°	2523.7	2529.5	2540.0	2548.2	2558.7	2570.3	2586.7	2597.2	2607.7	2614.7
2526.0	5°	2534.2	2547.0	2573.8	2600.7	2632.2	2661.3	2695.2	2719.7	2739.5	2745.3
2547.0	7.5°	2557.5	2578.5	2624.0	2669.5	2719.7	2767.5	2816.5	2858.5	2892.4	2905.2
2584.3	10°	2598.3	2626.3	2690.5	2754.7	2821.2	2894.7	2957.7	3018.4	3066.2	3086.0
2628.7	12.5°	2649.7	2684.7	2768.7	2857.4	2949.5	3051.0	3132.7	3207.4	3266.9	3293.7
2690.5	15°	2716.2	2761.7	2869.0	2988.0	3123.4	3264.6	3368.4	3451.2	3517.7	3550.4
2754.7	17.5°	2788.5	2849.2	2984.5	3164.2	3357.9	3543.4	3664.7	3725.4	3794.3	3825.8
2814.2	20°	2858.5	2933.2	3126.9	3388.2	3646.1	3843.3	3941.3	3957.6	3962.3	3965.8
2870.2	22.5°	2930.9	3031.2	3305.4	3670.6	3947.1	4083.6	4097.6	4027.6	3929.6	3884.1
2925.0	25°	3010.2	3143.2	3538.7	3982.1	4206.1	4222.4	4115.1	3944.8	3759.2	3674.1
2969.4	27.5°	3087.2	3272.7	3818.8	4279.6	4392.8	4249.3	4018.3	3776.8	3552.7	3462.9
3000.9	30°	3164.2	3420.9	4127.9	4539.8	4478.0	4182.8	3865.4	3595.9	3370.7	3276.2
3028.9	32.5°	3242.4	3593.6	4483.8	4727.6	4462.8	4041.6	3675.2	3392.9	3194.5	3095.4
3053.4	35°	3331.1	3805.9	4821.0	4830.3	4361.3	3833.9	3424.4	3150.2	2977.5	2898.2
3082.5	37.5°	3446.6	4075.4	5118.5	4856.0	4183.9	3529.4	3112.9	2863.2	2720.8	2684.7
3125.7	40°	3590.1	4399.8	5346.0	4815.2	3921.4	3159.5	2772.2	2572.7	2492.2	2500.3
3184.0	42.5°	3776.8	4762.7	5505.9	4710.1	3556.2	2778.0	2473.5	2384.8	2423.3	2456.0
3271.6	45°	4019.4	5139.5	5605.0	4531.6	3143.2	2454.8	2297.3	2318.3	2347.5	2351.0
3412.7	47.5°	4329.8	5521.0	5670.4	4262.1	2722.0	2227.3	2185.3	2190.0	2184.1	2159.6
3623.9	50°	4717.1	5892.1	5728.7	3905.1	2363.8	2085.0	2029.0	2012.6	1932.1	1852.8
3905.1	52.5°	5158.2	6232.7	5753.2	3461.7	2085.0	1966.0	1875.0	1772.3	1621.8	1597.3
4258.6	55°	5648.2	6547.8	5690.2	2916.9	1850.5	1813.1	1675.4	1551.8	1535.4	1514.4
4724.1	57.5°	6233.9	6887.3	5561.9	2309.0	1610.1	1634.6	1500.4	1514.4	1485.3	1452.6
5322.7	60°	6874.5	7238.5	5336.7	1754.8	1361.6	1411.8	1454.9	1453.8	1445.6	1418.8
5953.9	62.5°	7450.8	7469.5	4893.3	1344.1	1143.4	1239.1	1356.9	1355.8	1348.8	1333.6
6613.1	65°	7793.9	7434.5	4153.6	1058.2	963.7	1096.7	1223.9	1233.2	1234.4	1233.2
7109.0	67.5°	7733.2	7025.0	3138.5	842.4	815.6	952.1	1092.1	1104.9	1114.2	1116.6
7172.0	70°	7047.1	6125.4	2046.5	672.0	683.7	824.9	967.2	980.1	988.2	997.6
6223.4	72.5°	5493.0	4503.6	1171.4	543.7	568.2	715.2	843.6	858.7	863.4	880.9
4331.0	75°	3347.4	2648.5	632.4	428.2	466.7	611.4	721.0	738.5	746.7	767.7
2127.0	77.5°	1591.4	1146.9	360.5	333.7	375.7	499.4	609.0	628.9	606.7	618.4
586.9	80°	537.9	425.9	227.5	254.4	287.0	389.7	487.7	507.5	460.9	458.5
194.8	82.5°	187.8	172.7	144.7	169.2	185.5	278.9	368.7	394.4	343.0	341.9
87.5	85°	73.5	70.0	80.5	92.2	110.8	171.5	242.7	255.5	211.2	170.3
25.7	87.5°	15.2	16.3	19.8	21.0	33.8	59.5	87.5	107.3	85.2	72.3
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>
2515.5
2610.0
2747.7
2906.4
3087.2
3293.7
3548.1
3824.6
3975.1
3896.9
3686.9
3473.4
3286.7
3108.2
2915.7
2710.3
2528.3
2486.3
2374.3
2178.3
1863.3
1605.4
1517.9
1446.8
1409.4
1327.8
1233.2
1118.9
1002.2
887.9
770.1
609.0
453.9
325.5
168.0
66.5
0.0

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