

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: P954027

Luminaire Tested: **GALN-SB7B-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24328 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

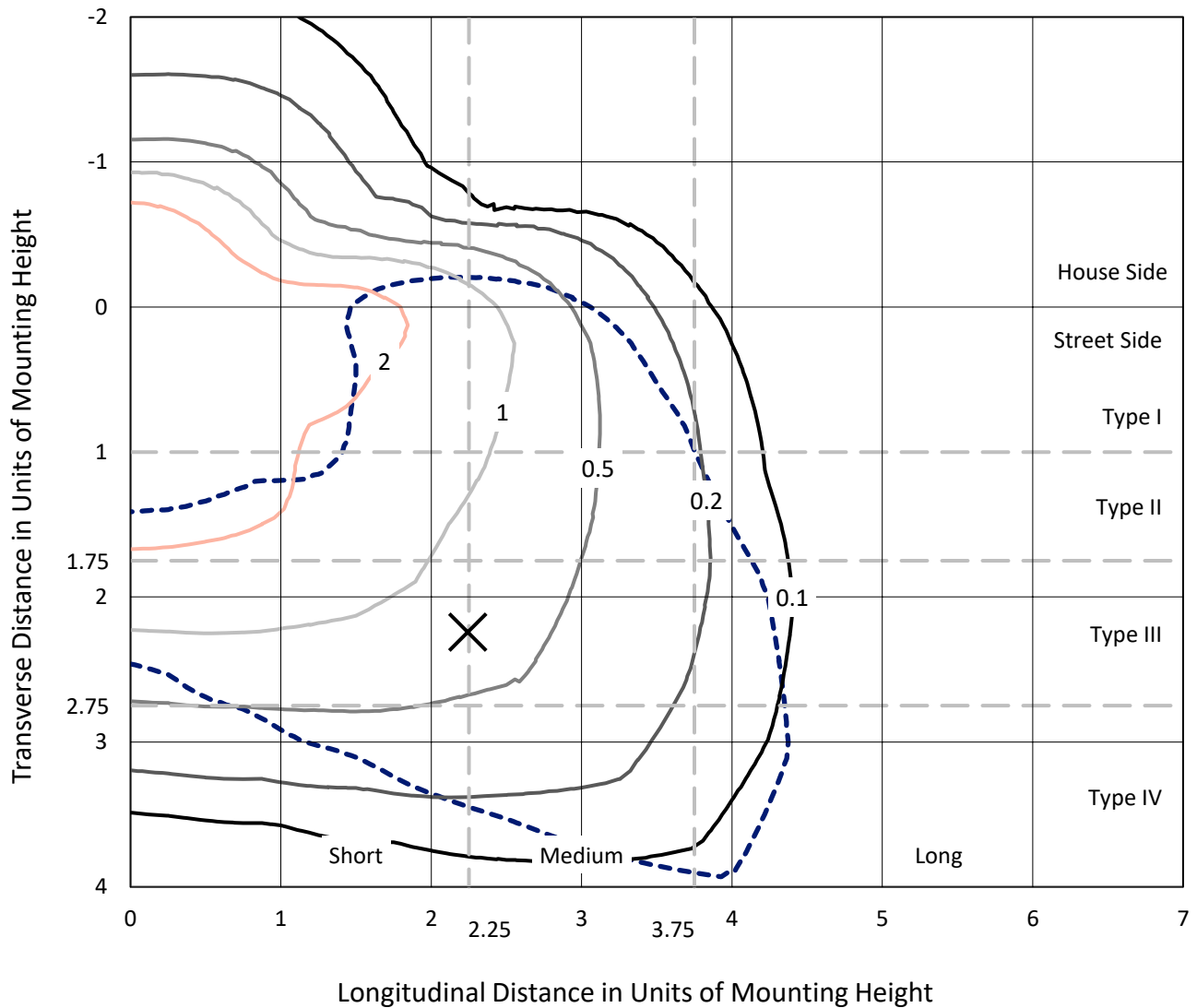
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

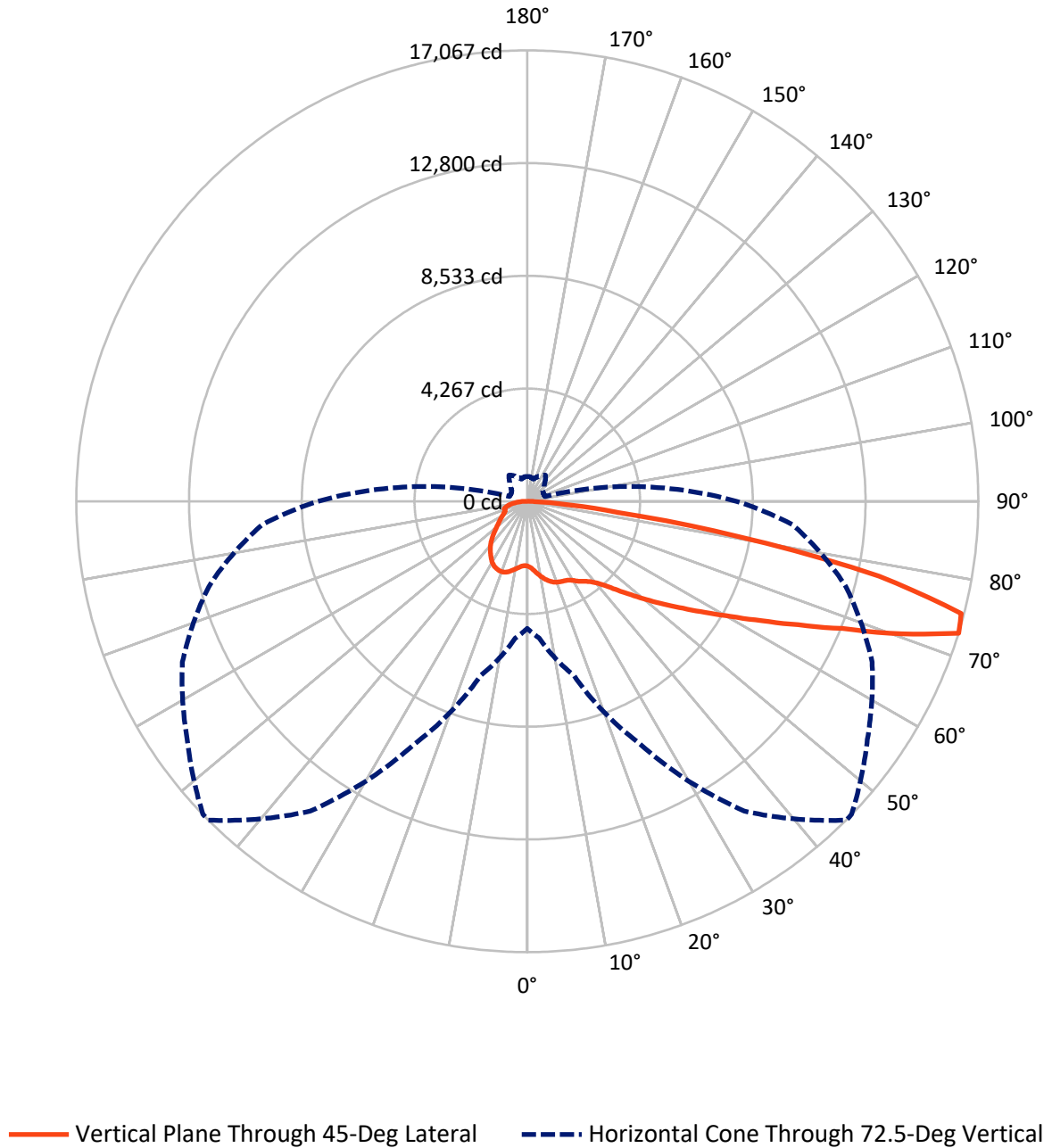
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5499.7	0.0	5499.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18828.3	0.0	18828.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	24328.0	0.0	24328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	1.0
10°-20°	832.8	3.4
20°-30°	1448.8	6.0
30°-40°	2076.9	8.5
40°-50°	2924.4	12.0
50°-60°	4479.3	18.4
60°-70°	6488.9	26.7
70°-80°	5181.8	21.3
80°-90°	645.4	2.7
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°	24328.0	100.0
0°-180°	24328.0	100.0



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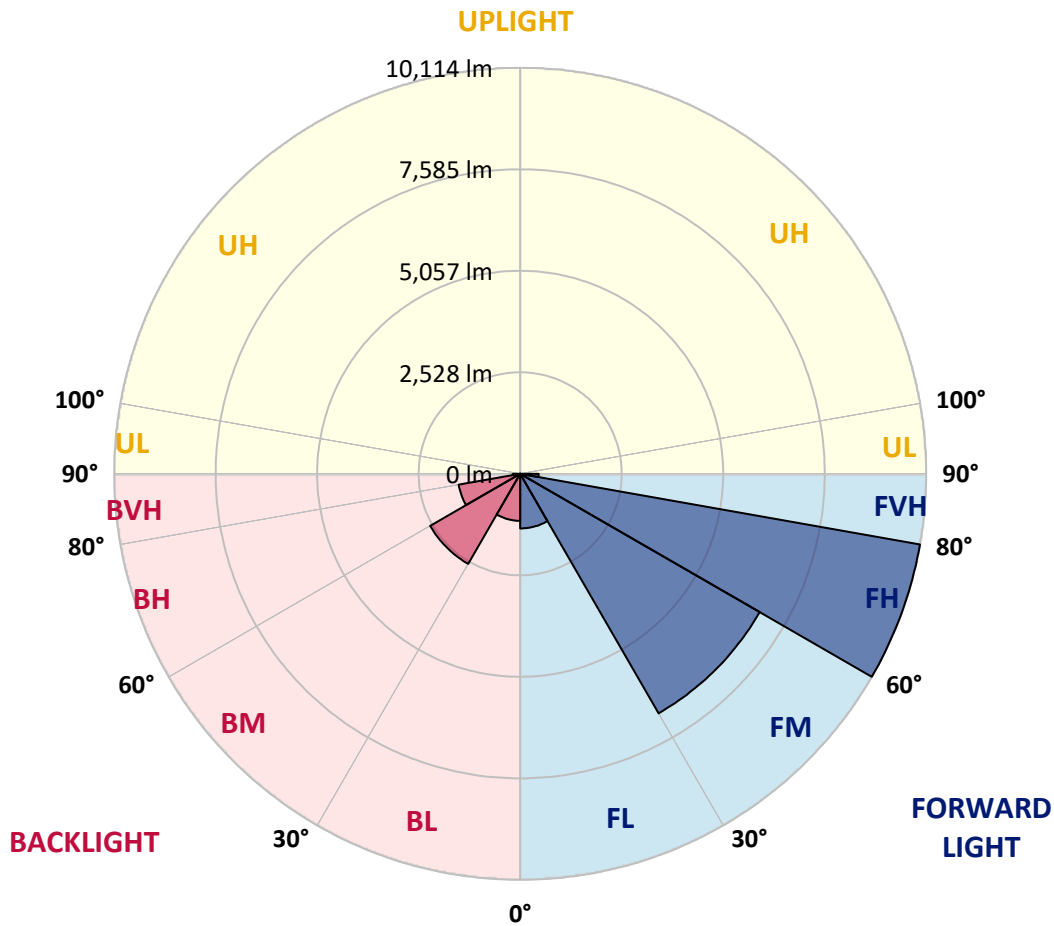
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.5	5.6			
FM (30°-60°)	6891.0	28.3			
FH (60°-80°)	10113.9	41.6			G4/12000
FVH (80°-90°)	463.0	1.9			G3/500
BL (0°-30°)	1170.9	4.8	B3/2500		
BM (30°-60°)	2589.6	10.6	B3/5000		
BH (60°-80°)	1556.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	182.4	0.7			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2550.3	2567.0	2551.6	2537.5	2531.1	2514.5	2513.2	2502.9	2496.5	2478.6
5°	2728.5	2750.3	2724.6	2696.4	2670.8	2629.8	2624.7	2595.2	2561.9	2523.4
7.5°	2929.7	2948.9	2919.4	2877.1	2832.3	2764.4	2763.1	2709.3	2656.7	2591.4
10°	3105.3	3130.9	3091.2	3033.5	2977.1	2900.2	2891.2	2829.7	2763.1	2678.5
12.5°	3260.3	3278.3	3239.8	3169.3	3104.0	3027.1	3015.6	2947.6	2873.3	2777.2
15°	3383.4	3406.4	3355.2	3279.6	3210.4	3134.7	3124.5	3063.0	2988.6	2887.4
17.5°	3464.1	3483.3	3430.8	3346.2	3279.6	3216.8	3209.1	3157.8	3092.4	2989.9
20°	3494.9	3515.4	3460.3	3374.4	3312.9	3264.2	3260.3	3223.2	3178.3	3084.8
22.5°	3525.6	3544.8	3473.1	3383.4	3329.5	3298.8	3297.5	3273.1	3255.2	3178.3
25°	3649.9	3655.1	3558.9	3429.5	3352.6	3325.7	3324.4	3323.1	3330.8	3270.6
27.5°	3757.6	3756.3	3674.3	3552.5	3433.3	3377.0	3375.7	3388.5	3412.8	3362.9
30°	3915.2	3901.1	3803.7	3676.8	3567.9	3480.8	3473.1	3461.5	3480.8	3441.0
32.5°	4249.7	4204.9	4047.2	3821.7	3679.4	3612.8	3602.5	3530.7	3538.4	3514.1
35°	4729.0	4670.1	4459.9	4095.9	3817.8	3723.0	3717.9	3626.9	3611.5	3589.7
37.5°	5299.3	5226.3	4981.5	4493.2	4056.2	3851.1	3843.5	3761.4	3698.6	3675.6
40°	5872.2	5779.9	5577.4	4977.6	4407.3	4065.2	4040.8	3916.5	3844.7	3806.3
42.5°	6428.4	6351.5	6178.5	5521.0	4840.5	4377.9	4324.0	4111.3	4057.5	4021.6
45°	6920.5	6851.3	6724.4	6101.6	5348.0	4803.4	4750.8	4403.5	4386.8	4386.8
47.5°	7320.4	7305.0	7170.4	6693.7	5946.5	5287.8	5196.8	4809.8	4854.6	4923.8
50°	7763.8	7721.5	7578.0	7276.8	6650.1	5842.7	5768.4	5308.3	5476.2	5665.9
52.5°	8171.3	8194.4	8034.2	7884.3	7444.7	6461.7	6331.0	5896.5	6259.2	6573.2
55°	8590.4	8591.7	8546.8	8526.3	8277.7	7146.1	7002.5	6604.0	7180.7	7570.3
57.5°	8983.9	8986.4	9053.1	9233.8	9244.0	7935.5	7772.8	7472.9	8204.7	8602.0
60°	9335.0	9353.0	9534.9	9957.9	10093.7	8840.3	8686.5	8499.4	9263.2	9663.1
62.5°	9452.9	9518.3	9923.3	10524.3	10933.1	9950.2	9798.9	9687.4	10375.7	10747.3
65°	9253.0	9402.9	10186.0	10992.1	11796.9	11268.9	11119.0	10997.2	11531.6	11881.5
67.5°	8762.1	8955.7	10170.6	11482.9	12845.3	12855.5	12715.8	12430.0	12770.9	12905.5
70°	7469.0	7758.7	9274.8	11666.2	14048.7	15025.2	14890.7	14155.0	14007.6	13356.6
72.5°	4812.3	5201.9	6829.5	10157.8	14316.5	17066.8	17059.1	15712.1	14398.5	12480.0
75°	1755.8	1994.1	3173.2	6375.9	12017.4	16963.0	17012.9	15445.6	13143.9	9640.0
77.5°	639.5	699.7	1035.5	2450.4	7390.9	13610.4	13714.2	12348.0	9355.5	4838.0
80°	335.8	369.1	530.6	950.9	3166.8	8082.9	8245.7	7338.3	4397.1	1457.2
82.5°	185.8	201.2	297.3	516.5	1426.4	3456.4	3553.8	2898.9	1546.9	617.7
85°	100.0	106.4	139.7	281.9	697.2	1198.3	1225.2	866.3	616.4	362.7
87.5°	29.5	35.9	46.1	89.7	273.0	269.1	275.5	171.7	243.5	183.3
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°
2454.2	0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2473.4	2.5°	2465.8	2461.9	2447.8	2441.4	2433.7	2432.4	2438.8	2440.1	2441.4	2442.7
2501.6	5°	2488.8	2476.0	2463.2	2455.5	2458.1	2459.3	2472.2	2481.1	2487.5	2492.7
2554.2	7.5°	2533.7	2523.4	2501.6	2500.4	2504.2	2515.7	2532.4	2552.9	2564.4	2573.4
2622.1	10°	2600.3	2581.1	2555.5	2559.3	2567.0	2583.7	2618.3	2634.9	2654.1	2670.8
2705.4	12.5°	2668.2	2651.6	2622.1	2624.7	2637.5	2667.0	2700.3	2720.8	2733.6	2746.4
2795.1	15°	2756.7	2727.2	2695.2	2695.2	2718.2	2750.3	2765.6	2782.3	2790.0	2804.1
2891.2	17.5°	2847.7	2809.2	2766.9	2764.4	2792.6	2807.9	2816.9	2819.5	2822.0	2837.4
2984.8	20°	2938.7	2896.4	2836.1	2831.0	2837.4	2834.9	2833.6	2831.0	2834.9	2854.1
3080.9	22.5°	3028.4	2979.7	2896.4	2873.3	2855.4	2831.0	2829.7	2828.4	2831.0	2850.2
3184.7	25°	3133.5	3074.5	2963.0	2893.8	2833.6	2800.2	2804.1	2805.4	2807.9	2823.3
3292.4	27.5°	3247.5	3182.2	3024.5	2887.4	2778.5	2755.4	2749.0	2752.8	2761.8	2786.2
3400.0	30°	3361.6	3284.7	3080.9	2861.8	2709.3	2677.2	2656.7	2665.7	2693.9	2718.2
3493.6	32.5°	3465.4	3388.5	3125.8	2805.4	2620.8	2570.8	2543.9	2555.5	2583.7	2592.6
3597.4	35°	3587.1	3500.0	3145.0	2715.7	2524.7	2447.8	2411.9	2395.3	2409.4	2400.4
3719.1	37.5°	3723.0	3632.0	3142.4	2597.8	2411.9	2323.5	2273.5	2210.7	2181.2	2150.5
3898.6	40°	3924.2	3793.5	3111.7	2455.5	2272.2	2191.5	2101.8	1995.4	1928.8	1868.5
4188.2	42.5°	4198.4	4017.7	3055.3	2299.2	2114.6	2039.0	1917.2	1792.9	1687.8	1587.9
4627.8	45°	4607.3	4311.2	2984.8	2132.5	1944.2	1869.8	1737.8	1598.1	1478.9	1350.8
5251.9	47.5°	5196.8	4706.0	2918.2	1942.9	1764.7	1696.8	1577.6	1448.2	1307.2	1182.9
6154.1	50°	6006.8	5272.4	2856.6	1758.3	1587.9	1536.6	1441.8	1309.8	1167.5	1067.6
7211.4	52.5°	7037.1	6042.6	2831.0	1580.2	1422.6	1403.3	1327.7	1204.7	1070.1	985.5
8444.3	55°	8220.0	6964.1	2831.0	1409.7	1277.7	1284.1	1231.6	1117.5	1000.9	925.3
9715.6	57.5°	9427.3	7897.1	2779.7	1252.1	1154.7	1181.6	1148.3	1048.3	943.2	865.1
11052.3	60°	10539.7	8678.8	2572.1	1108.6	1045.8	1088.1	1066.3	980.4	852.2	786.9
12169.9	62.5°	11394.5	9119.7	2172.3	994.5	956.1	1004.8	993.2	890.7	835.6	808.7
13087.5	65°	11822.6	9047.9	1660.9	893.3	880.4	956.1	931.7	927.9	884.3	853.5
13386.1	67.5°	11559.8	8430.2	1204.7	818.9	836.9	911.2	1004.8	1020.1	939.4	879.2
12545.4	70°	10407.7	7312.7	897.1	748.4	781.8	912.5	1145.7	1067.6	921.5	851.0
10061.7	72.5°	7917.6	5453.1	695.9	674.1	710.0	918.9	1208.5	1045.8	870.2	940.7
6268.2	75°	4527.8	2993.8	558.8	583.1	620.3	858.7	1176.5	989.4	830.5	863.8
2483.7	77.5°	1726.3	1150.9	461.4	493.4	498.5	749.7	1125.2	985.5	790.7	771.5
744.6	80°	598.5	449.8	381.9	392.2	385.8	666.4	1079.1	857.4	647.2	579.3
307.6	82.5°	244.8	224.3	302.5	289.6	274.3	517.8	871.5	701.0	529.3	467.8
148.7	85°	106.4	142.3	199.9	175.6	158.9	358.8	698.5	593.4	447.3	385.8
48.7	87.5°	21.8	53.8	84.6	79.5	82.0	239.7	496.0	421.6	316.5	237.1
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>
2454.2
2447.8
2495.2
2576.0
2667.0
2751.5
2809.2
2842.5
2861.8
2863.0
2843.8
2810.5
2745.1
2624.7
2428.6
2169.7
1872.4
1578.9
1335.4
1168.8
1061.1
979.1
917.6
852.2
776.6
799.7
843.3
868.9
839.4
933.0
863.8
703.6
560.0
462.6
384.5
185.8
0.0

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