

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: P942959

Luminaire Tested: **GALN-SB7A-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21934 lumens
Efficiency: N/A
Efficacy: 110.2 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

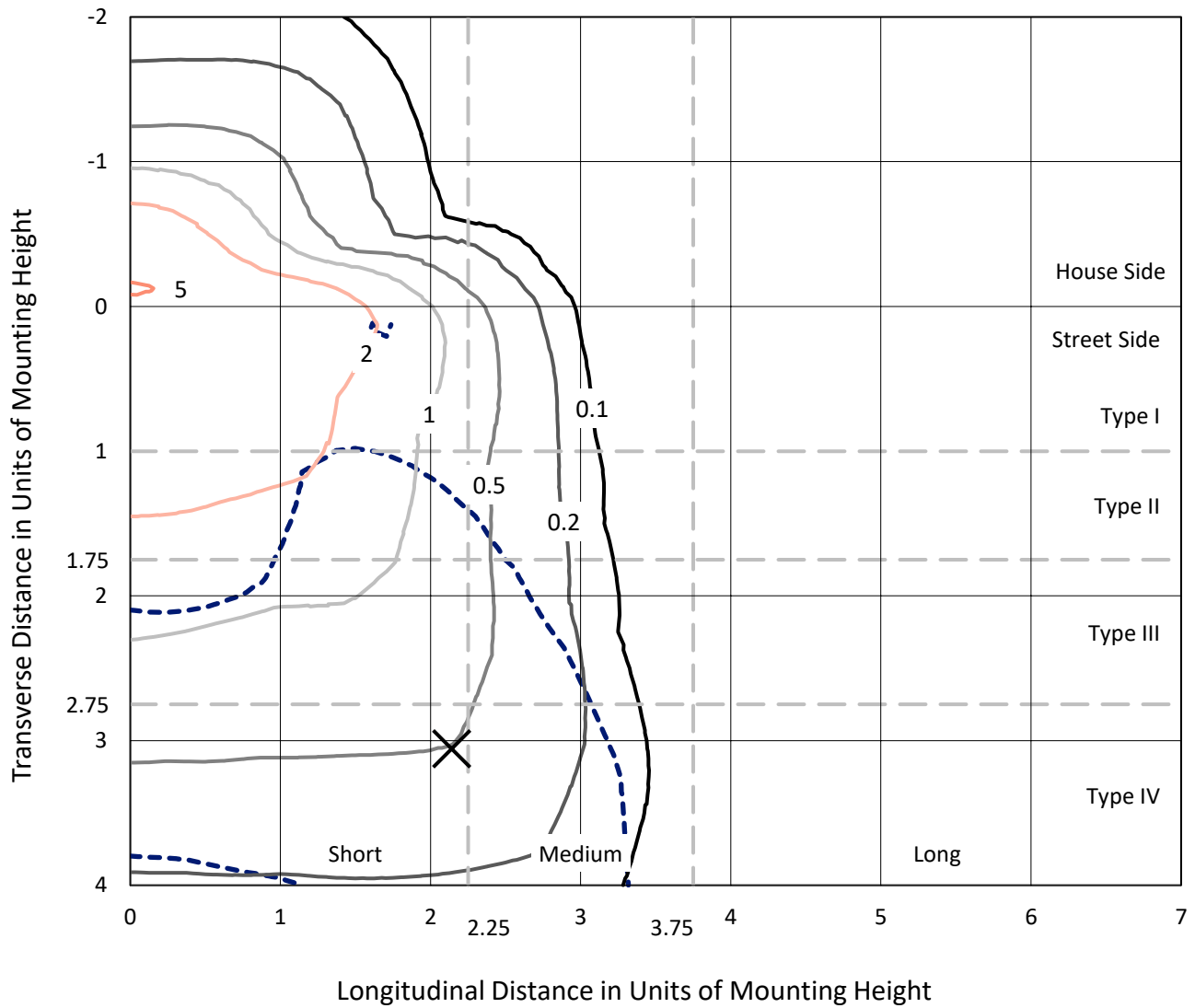
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

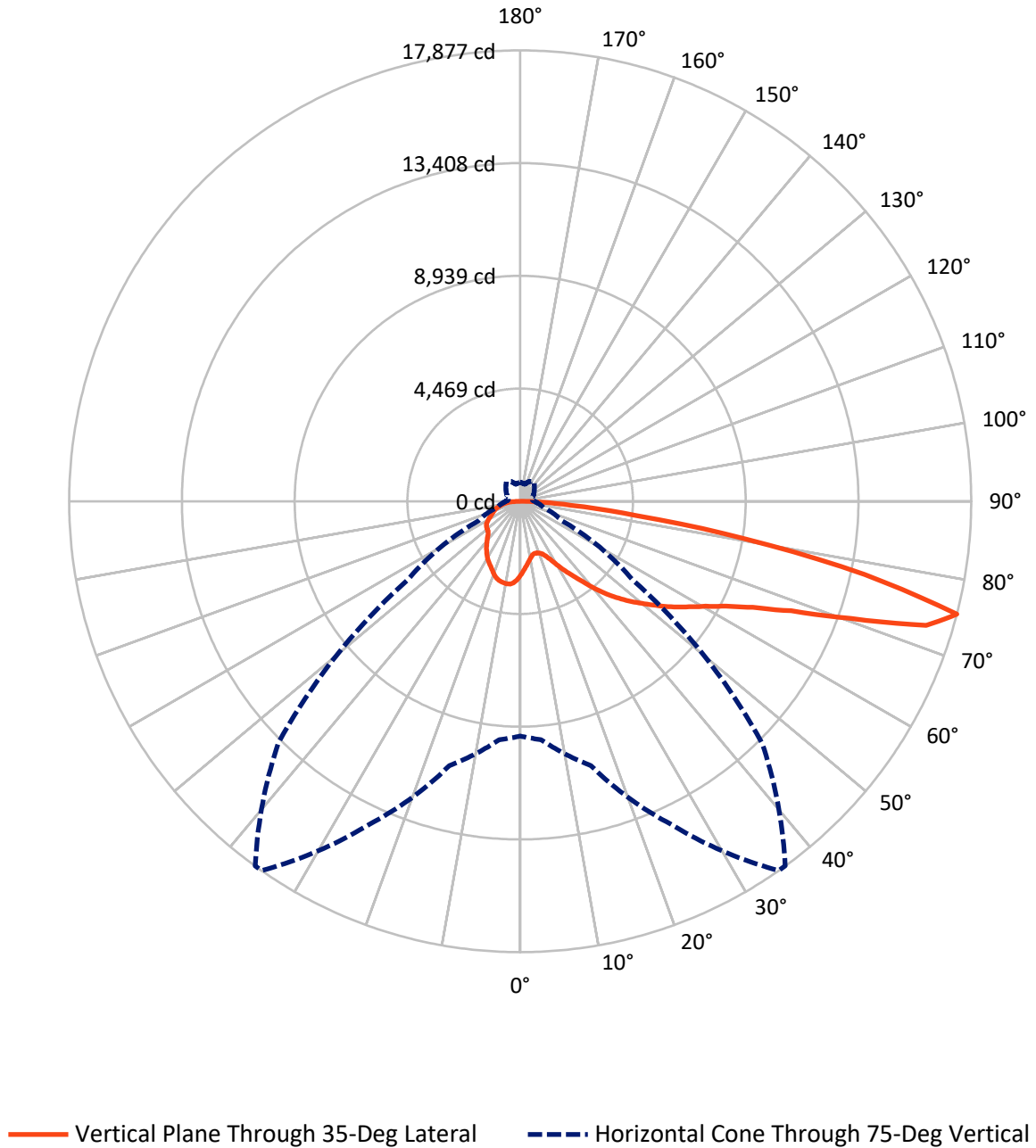
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5219.7	0.0	5219.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16714.3	0.0	16714.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	21934.0	0.0	21934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.3
10°-20°	798.2	3.6
20°-30°	1340.4	6.1
30°-40°	2083.2	9.5
40°-50°	3092.0	14.1
50°-60°	4268.8	19.5
60°-70°	5179.0	23.6
70°-80°	4280.0	19.5
80°-90°	615.6	2.8
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°	21934.0	100.0
0°-180°	21934.0	100.0

Coefficient of Utilization



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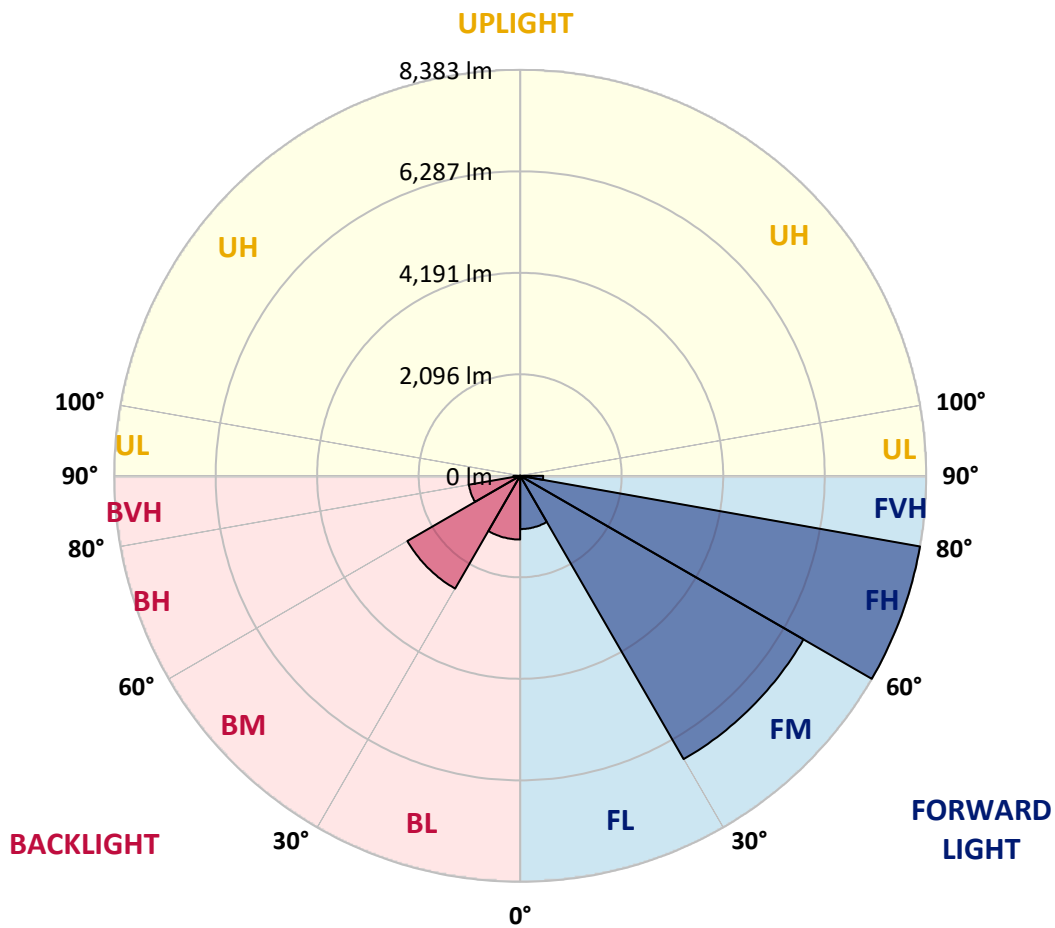
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.9	5.0			
FM (30°-60°)	6754.5	30.8			
FH (60°-80°)	8382.9	38.2			G4/12000
FVH (80°-90°)	477.0	2.2			G3/500
BL (0°-30°)	1315.4	6.0	B3/2500		
BM (30°-60°)	2689.5	12.3	B3/5000		
BH (60°-80°)	1076.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	138.6	0.6			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°	36°	45°	55°	65°	75°
0°	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9
2.5°	2695.2	2711.8	2718.9	2715.3	2733.1	2730.8	2755.7	2786.5	2829.2	2870.7
5°	2487.7	2505.5	2520.9	2535.1	2569.5	2580.2	2619.3	2678.6	2756.9	2836.3
7.5°	2294.4	2309.8	2333.5	2359.6	2417.7	2428.4	2493.6	2586.1	2695.2	2811.4
10°	2136.7	2152.1	2177.0	2206.7	2279.0	2292.0	2375.0	2498.4	2640.6	2787.7
12.5°	2069.1	2073.9	2088.1	2117.7	2180.6	2188.9	2280.2	2421.3	2587.3	2769.9
15°	2065.6	2075.0	2076.2	2091.6	2143.8	2147.4	2231.6	2371.5	2554.1	2766.3
17.5°	2101.1	2108.2	2097.6	2107.1	2150.9	2156.9	2223.3	2347.8	2543.4	2781.8
20°	2196.0	2201.9	2169.9	2156.9	2188.9	2193.6	2258.8	2363.2	2554.1	2813.8
22.5°	2397.6	2401.1	2322.9	2269.5	2271.9	2274.3	2331.2	2426.0	2595.6	2871.9
25°	2711.8	2709.4	2584.9	2481.8	2422.5	2409.4	2447.4	2528.0	2665.5	2948.9
27.5°	3079.4	3061.6	2937.1	2782.9	2653.7	2634.7	2626.4	2660.8	2765.2	3050.9
30°	3494.4	3477.8	3343.8	3142.2	2963.2	2932.3	2854.1	2836.3	2913.4	3189.6
32.5°	3949.7	3939.0	3779.0	3534.7	3295.2	3259.6	3128.0	3080.6	3141.0	3399.5
35°	4331.5	4322.0	4189.2	3937.8	3645.0	3601.1	3467.1	3413.8	3444.6	3668.7
37.5°	4676.6	4671.8	4558.0	4360.0	4057.6	4004.3	3853.7	3835.9	3829.9	4023.2
40°	4996.7	4984.9	4866.3	4761.9	4537.8	4489.2	4356.4	4341.0	4295.9	4459.6
42.5°	5351.3	5320.4	5148.5	5099.9	5039.4	4999.1	4919.6	4922.0	4822.4	4951.7
45°	5640.6	5622.8	5446.1	5417.7	5482.9	5466.3	5535.0	5552.8	5359.6	5467.5
47.5°	5951.2	5934.6	5785.2	5765.1	5941.8	5946.5	6189.6	6195.5	5883.7	6003.4
50°	6334.2	6310.5	6162.3	6187.2	6385.2	6403.0	6847.7	6807.3	6366.2	6547.7
52.5°	6586.8	6601.0	6569.0	6609.3	6879.7	6896.3	7495.1	7391.9	6844.1	7084.8
55°	6773.0	6801.4	6901.0	6993.5	7401.4	7418.0	8105.7	7948.0	7240.1	7582.8
57.5°	7012.5	6972.2	7158.3	7338.6	7897.0	7940.9	8699.8	8484.0	7591.1	8012.1
60°	7356.3	7327.9	7472.5	7739.3	8452.0	8521.9	9328.2	8966.6	7848.4	8352.4
62.5°	8053.6	7982.4	8004.9	8240.9	9151.6	9244.0	10037.3	9387.5	7976.5	8485.2
65°	9095.8	8973.7	8859.9	9023.5	10136.9	10228.2	10837.7	9718.3	7929.1	8227.9
67.5°	10408.4	10287.5	10147.6	10301.7	11588.3	11660.6	11825.4	9904.5	7555.5	7236.6
70°	11491.0	11446.0	11613.2	12247.5	13906.4	13908.8	13091.8	9750.4	6532.3	5130.7
72.5°	11347.6	11320.3	12201.3	14162.5	16828.0	16765.2	14290.6	8583.6	4400.3	2314.6
75°	9309.3	9485.9	10850.7	14128.1	17877.4	17869.1	13556.6	5456.8	1820.1	959.3
77.5°	4992.0	5271.8	7044.5	10431.0	13956.2	14166.1	9531.0	1909.0	781.4	614.2
80°	1628.0	1872.3	2807.8	5310.9	9068.6	9029.4	4084.9	749.4	534.8	435.2
82.5°	691.3	719.7	1254.5	2507.8	4654.0	4581.7	1300.8	430.4	375.9	297.6
85°	270.3	302.4	553.7	1159.7	2015.8	1971.9	469.6	213.4	240.7	194.5
87.5°	88.9	107.9	198.0	397.2	627.3	604.7	115.0	73.5	104.3	88.9
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°
2922.9	0°	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9	2922.9
2931.2	2.5°	2947.8	2966.7	2989.3	3022.5	3050.9	3074.6	3099.5	3114.9	3120.9	3138.7
2935.9	5°	2969.1	3010.6	3066.3	3120.9	3174.2	3206.2	3234.7	3248.9	3262.0	3271.5
2948.9	7.5°	3004.7	3058.0	3145.8	3216.9	3262.0	3288.1	3307.0	3302.3	3307.0	3309.4
2963.2	10°	3035.5	3110.2	3214.5	3282.1	3316.5	3317.7	3313.0	3296.4	3288.1	3289.2
2984.5	12.5°	3072.3	3155.3	3267.9	3324.8	3334.3	3308.2	3288.1	3259.6	3248.9	3244.2
3016.5	15°	3122.1	3216.9	3326.0	3347.3	3323.6	3290.4	3256.0	3209.8	3186.1	3167.1
3071.1	17.5°	3182.5	3286.9	3371.1	3355.6	3304.7	3250.1	3194.4	3124.4	3075.8	3055.7
3145.8	20°	3266.7	3360.4	3405.5	3337.9	3260.8	3177.8	3082.9	2997.6	2952.5	2932.3
3240.6	22.5°	3368.7	3458.8	3438.7	3307.0	3197.9	3065.1	2946.6	2883.7	2861.2	2847.0
3362.8	25°	3490.8	3567.9	3462.4	3262.0	3094.8	2915.7	2824.4	2804.3	2793.6	2782.9
3512.2	27.5°	3649.7	3691.2	3480.2	3195.6	2933.5	2756.9	2723.6	2727.2	2723.6	2705.9
3719.7	30°	3859.6	3851.3	3496.8	3087.7	2748.5	2613.4	2615.7	2631.2	2633.5	2621.7
4009.0	32.5°	4135.9	4051.7	3505.1	2947.8	2571.9	2487.7	2490.1	2506.7	2518.5	2498.4
4387.2	35°	4470.2	4285.3	3492.0	2772.3	2435.5	2367.9	2350.1	2354.9	2358.4	2339.5
4846.1	37.5°	4860.4	4547.3	3433.9	2577.8	2322.9	2250.5	2212.6	2180.6	2161.6	2143.8
5365.5	40°	5288.4	4833.1	3327.2	2388.1	2197.2	2126.0	2069.1	2008.6	1944.6	1920.9
5915.7	42.5°	5736.6	5127.1	3197.9	2206.7	2052.5	1994.4	1933.9	1846.2	1750.2	1701.5
6487.2	45°	6201.4	5428.3	3071.1	2027.6	1904.3	1879.4	1809.4	1703.9	1599.6	1537.9
7059.9	47.5°	6656.8	5712.9	2884.9	1847.4	1765.6	1792.8	1738.3	1641.1	1524.9	1427.6
7627.9	50°	7091.9	5979.7	2580.2	1664.8	1652.9	1766.8	1714.6	1574.7	1441.9	1317.4
8185.2	52.5°	7523.5	6195.5	2190.1	1498.8	1592.5	1759.6	1683.8	1529.6	1367.2	1236.7
8709.3	55°	7889.9	6307.0	1814.2	1356.5	1504.7	1699.2	1647.0	1476.2	1261.6	1122.9
9068.6	57.5°	8098.6	6216.8	1501.1	1216.6	1383.8	1599.6	1584.2	1362.4	1135.9	1029.2
9138.5	60°	8008.5	5851.6	1245.0	1094.4	1268.7	1491.7	1475.1	1249.8	1039.9	939.1
8763.8	62.5°	7511.7	5155.6	1042.3	987.7	1164.4	1381.4	1366.0	1163.2	966.4	869.1
7769.0	65°	6510.9	4194.0	884.6	898.8	1058.9	1248.6	1271.1	1090.9	908.3	813.4
6010.5	67.5°	4965.9	3037.9	761.2	821.7	955.7	1118.2	1183.4	1038.7	859.7	769.5
3477.8	70°	2830.4	1725.3	656.9	747.0	864.4	997.2	1115.8	997.2	807.5	732.8
1303.1	72.5°	1073.1	792.1	568.0	672.3	776.7	895.2	1041.1	932.0	747.0	691.3
673.5	75°	572.7	482.6	477.9	584.6	675.9	795.6	947.4	868.0	702.0	730.4
466.0	77.5°	390.1	341.5	399.6	500.4	565.6	685.4	847.8	770.7	608.3	605.9
322.5	80°	270.3	241.9	324.9	403.2	437.5	576.3	739.9	661.6	495.6	462.4
199.2	82.5°	162.4	157.7	243.1	301.2	309.5	444.7	613.0	554.9	405.5	353.4
118.6	85°	88.9	93.7	155.3	176.7	180.2	310.7	480.2	429.2	311.9	262.0
42.7	87.5°	24.9	32.0	56.9	70.0	86.6	161.3	285.8	254.9	156.5	109.1
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>
2922.9
3137.5
3273.8
3313.0
3291.6
3241.8
3173.0
3056.8
2930.0
2849.3
2782.9
2709.4
2627.6
2507.8
2352.5
2155.7
1931.6
1707.5
1533.2
1417.0
1306.7
1222.5
1111.0
1015.0
924.9
853.7
798.0
755.3
723.3
681.8
754.1
558.5
442.3
355.7
264.4
109.1
0.0

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