

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: P940802

Luminaire Tested: **GALN-SB4A-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940802
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-SB4A-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 18854.1 lumens
Efficiency: N/A
Efficacy: 165.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

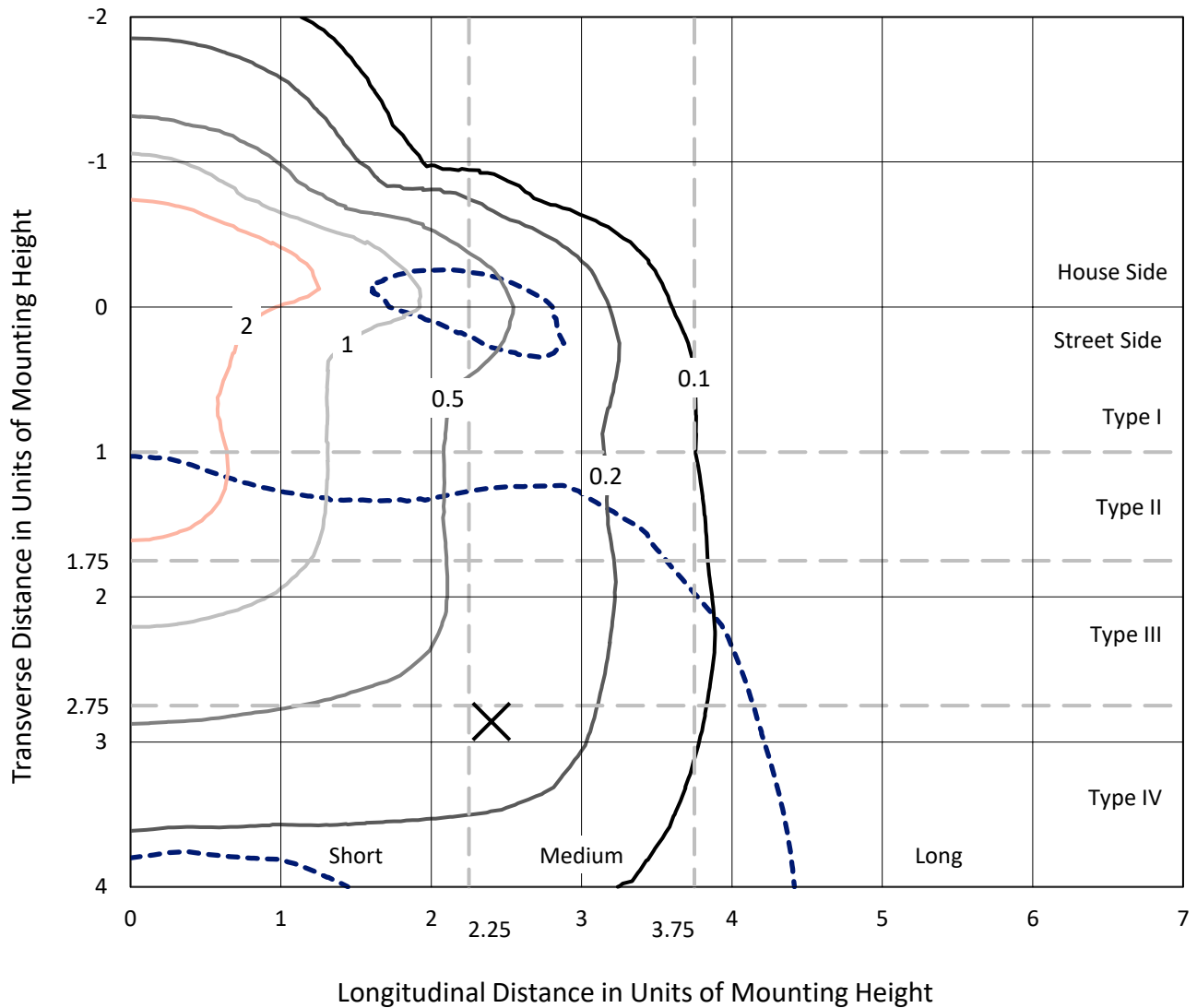
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

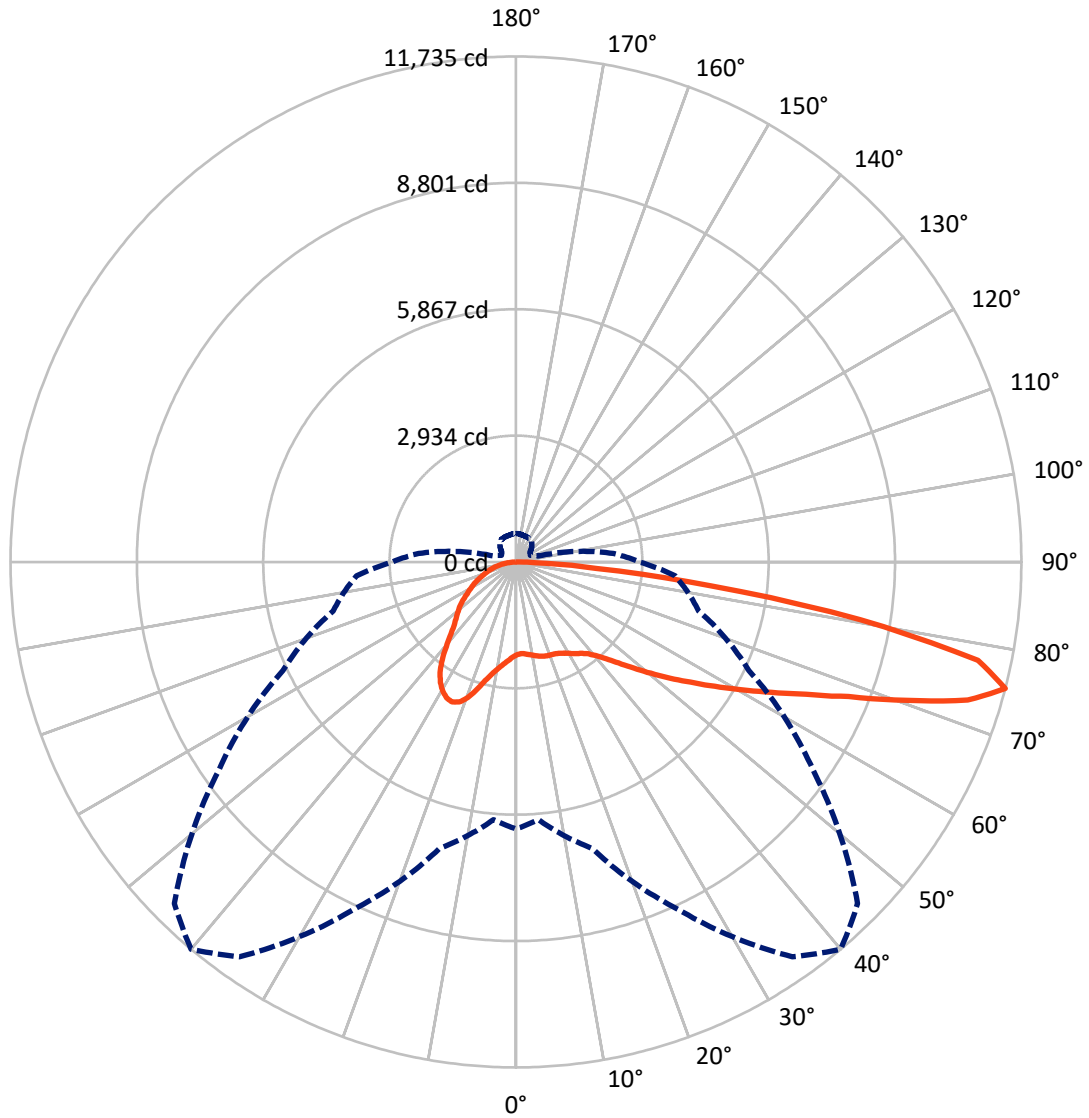
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	5841.6	0.0	5841.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13012.4	0.0	13012.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	18854.1	0.0	18854.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	1.1
10°-20°	722.6	3.8
20°-30°	1319.3	7.0
30°-40°	1871.2	9.9
40°-50°	2526.6	13.4
50°-60°	3399.0	18.0
60°-70°	4314.1	22.9
70°-80°	3915.3	20.8
80°-90°	570.7	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°	18854.1	100.0
0°-180°	18854.1	100.0



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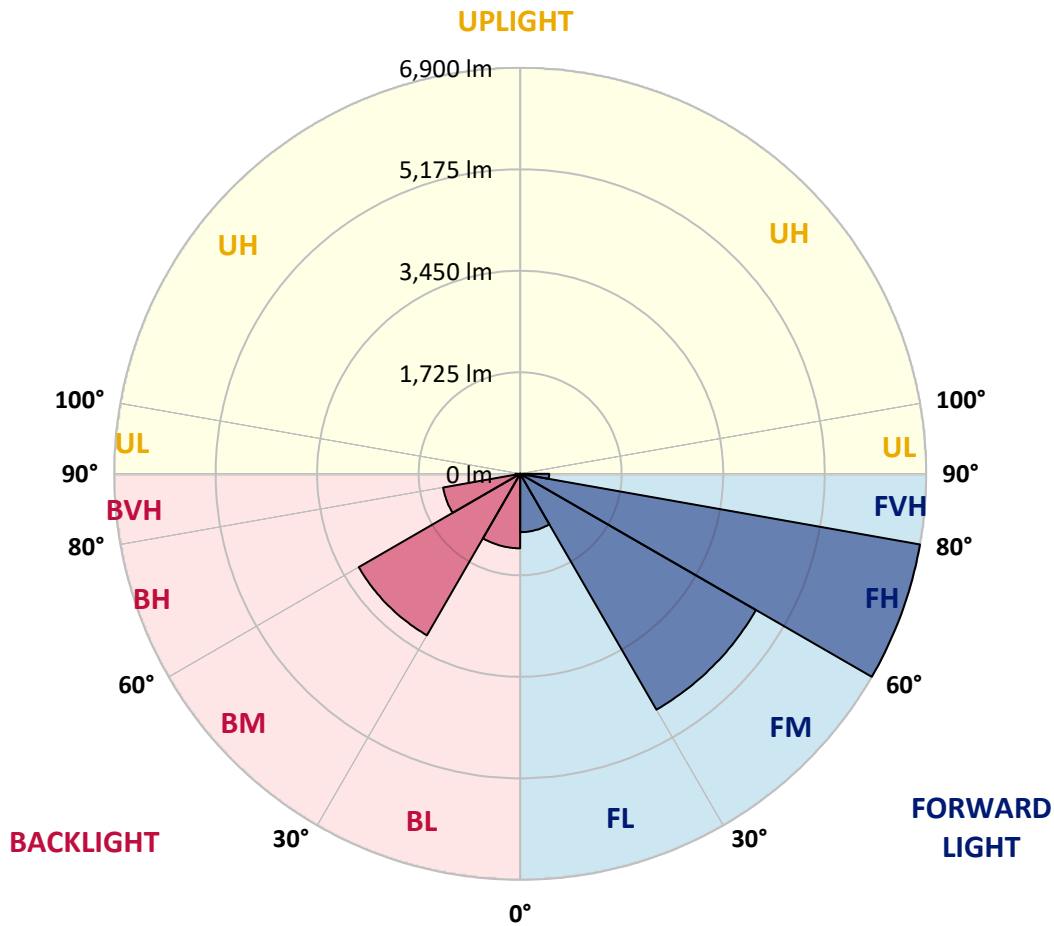
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.7	5.3			
FM (30°-60°)	4628.3	24.5			
FH (60°-80°)	6900.3	36.6			G3/7500
FVH (80°-90°)	492.2	2.6			G3/500
BL (0°-30°)	1265.4	6.7	B3/2500		
BM (30°-60°)	3168.6	16.8	B3/5000		
BH (60°-80°)	1329.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	78.6	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2.5°	2123.0	2135.0	2132.0	2128.0	2128.0	2129.0	2128.0	2135.0	2142.0	2149.0
5°	2145.0	2157.0	2151.0	2146.0	2142.0	2141.0	2138.0	2137.0	2141.0	2150.0
7.5°	2188.0	2200.0	2191.0	2182.0	2174.0	2170.0	2166.0	2160.0	2157.0	2162.0
10°	2236.0	2248.0	2237.0	2221.0	2208.0	2203.0	2199.0	2193.0	2189.0	2192.0
12.5°	2284.0	2296.0	2281.0	2259.0	2242.0	2239.0	2234.0	2232.0	2231.0	2230.0
15°	2329.0	2339.0	2320.0	2294.0	2276.0	2271.0	2266.0	2269.0	2274.0	2280.0
17.5°	2364.0	2374.0	2346.0	2312.0	2295.0	2293.0	2290.0	2300.0	2314.0	2329.0
20°	2396.0	2406.0	2370.0	2324.0	2304.0	2304.0	2305.0	2326.0	2346.0	2368.0
22.5°	2441.0	2449.0	2405.0	2342.0	2313.0	2315.0	2323.0	2344.0	2369.0	2399.0
25°	2508.0	2514.0	2460.0	2376.0	2343.0	2349.0	2356.0	2366.0	2390.0	2425.0
27.5°	2616.0	2621.0	2550.0	2436.0	2386.0	2396.0	2406.0	2399.0	2410.0	2440.0
30°	2768.0	2771.0	2681.0	2530.0	2459.0	2464.0	2466.0	2437.0	2416.0	2440.0
32.5°	2948.0	2947.0	2840.0	2644.0	2542.0	2537.0	2520.0	2463.0	2414.0	2435.0
35°	3227.0	3216.0	3078.0	2804.0	2636.0	2605.0	2565.0	2492.0	2424.0	2430.0
37.5°	3689.0	3655.0	3464.0	3066.0	2776.0	2697.0	2638.0	2539.0	2446.0	2428.0
40°	4210.0	4167.0	3957.0	3425.0	2986.0	2859.0	2764.0	2606.0	2482.0	2437.0
42.5°	4828.0	4767.0	4541.0	3848.0	3252.0	3068.0	2925.0	2691.0	2535.0	2466.0
45°	5586.9	5505.9	5186.0	4325.0	3587.0	3342.0	3151.0	2820.0	2616.0	2522.0
47.5°	6353.9	6373.9	5918.9	4871.0	3989.0	3680.0	3434.0	3014.0	2734.0	2612.0
50°	7168.9	7182.9	6647.9	5475.9	4445.0	4062.0	3752.0	3231.0	2898.0	2740.0
52.5°	7804.9	7806.9	7309.9	6108.9	4920.0	4482.0	4095.0	3479.0	3088.0	2910.0
55°	8202.9	8197.9	7773.9	6707.9	5465.9	4923.0	4475.0	3761.0	3320.0	3110.0
57.5°	8491.9	8476.9	8093.9	7222.9	6047.9	5443.9	4905.0	4081.0	3594.0	3348.0
60°	8601.9	8592.9	8310.9	7667.9	6659.9	6019.9	5400.9	4439.0	3905.0	3629.0
62.5°	8643.9	8660.9	8523.9	8098.9	7314.9	6657.9	5945.9	4867.0	4255.0	3947.0
65°	8791.9	8822.9	8794.9	8662.9	8054.9	7404.9	6668.9	5376.0	4637.0	4288.0
67.5°	9084.9	9115.9	9127.9	9337.9	8958.9	8335.9	7570.9	6009.9	5084.0	4642.0
70°	9077.9	9068.9	9280.9	9874.9	10090.9	9624.9	8786.9	6789.9	5616.9	4936.0
72.5°	8262.9	8190.9	8691.9	9868.9	11032.9	10970.9	10271.9	7795.9	6076.9	4972.0
75°	6198.9	6006.9	6891.9	8893.9	11189.9	11734.9	11215.9	8419.9	5967.9	4393.0
77.5°	2651.0	2458.0	3501.0	6583.9	10014.9	10969.9	10349.9	7345.9	4764.0	2905.0
80°	694.0	693.0	1058.0	2985.0	6810.9	8100.9	7106.9	4744.0	2722.0	1038.0
82.5°	287.0	280.0	389.0	1161.0	3328.0	4546.0	3710.0	2116.0	983.0	281.0
85°	107.0	106.0	189.0	401.0	1174.0	1875.0	1357.0	541.0	245.0	137.0
87.5°	30.0	29.0	41.0	139.0	286.0	434.0	232.0	89.0	69.0	54.0
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°
2156.0	0°	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0	2156.0
2160.0	2.5°	2163.0	2168.0	2177.0	2184.0	2193.0	2203.0	2217.0	2226.0	2235.0	2241.0
2165.0	5°	2172.0	2183.0	2206.0	2229.0	2256.0	2281.0	2310.0	2331.0	2348.0	2353.0
2183.0	7.5°	2192.0	2210.0	2249.0	2288.0	2331.0	2372.0	2414.0	2450.0	2479.0	2490.0
2215.0	10°	2227.0	2251.0	2306.0	2361.0	2418.0	2481.0	2535.0	2587.0	2628.0	2645.0
2253.0	12.5°	2271.0	2301.0	2373.0	2449.0	2528.0	2615.0	2685.0	2749.0	2800.0	2823.0
2306.0	15°	2328.0	2367.0	2459.0	2561.0	2677.0	2798.0	2887.0	2958.0	3015.0	3043.0
2361.0	17.5°	2390.0	2442.0	2558.0	2712.0	2878.0	3037.0	3141.0	3193.0	3252.0	3279.0
2412.0	20°	2450.0	2514.0	2680.0	2904.0	3125.0	3294.0	3378.0	3392.0	3396.0	3399.0
2460.0	22.5°	2512.0	2598.0	2833.0	3146.0	3383.0	3500.0	3512.0	3452.0	3368.0	3329.0
2507.0	25°	2580.0	2694.0	3033.0	3413.0	3605.0	3619.0	3527.0	3381.0	3222.0	3149.0
2545.0	27.5°	2646.0	2805.0	3273.0	3668.0	3765.0	3642.0	3444.0	3237.0	3045.0	2968.0
2572.0	30°	2712.0	2932.0	3538.0	3891.0	3838.0	3585.0	3313.0	3082.0	2889.0	2808.0
2596.0	32.5°	2779.0	3080.0	3843.0	4052.0	3825.0	3464.0	3150.0	2908.0	2738.0	2653.0
2617.0	35°	2855.0	3262.0	4132.0	4140.0	3738.0	3286.0	2935.0	2700.0	2552.0	2484.0
2642.0	37.5°	2954.0	3493.0	4387.0	4162.0	3586.0	3025.0	2668.0	2454.0	2332.0	2301.0
2679.0	40°	3077.0	3771.0	4582.0	4127.0	3361.0	2708.0	2376.0	2205.0	2136.0	2143.0
2729.0	42.5°	3237.0	4082.0	4719.0	4037.0	3048.0	2381.0	2120.0	2044.0	2077.0	2105.0
2804.0	45°	3445.0	4405.0	4804.0	3884.0	2694.0	2104.0	1969.0	1987.0	2012.0	2015.0
2925.0	47.5°	3711.0	4732.0	4860.0	3653.0	2333.0	1909.0	1873.0	1877.0	1872.0	1851.0
3106.0	50°	4043.0	5050.0	4910.0	3347.0	2026.0	1787.0	1739.0	1725.0	1656.0	1588.0
3347.0	52.5°	4421.0	5342.0	4931.0	2967.0	1787.0	1685.0	1607.0	1519.0	1390.0	1369.0
3650.0	55°	4841.0	5611.9	4877.0	2500.0	1586.0	1554.0	1436.0	1330.0	1316.0	1298.0
4049.0	57.5°	5343.0	5902.9	4767.0	1979.0	1380.0	1401.0	1286.0	1298.0	1273.0	1245.0
4562.0	60°	5891.9	6203.9	4574.0	1504.0	1167.0	1210.0	1247.0	1246.0	1239.0	1216.0
5103.0	62.5°	6385.9	6401.9	4194.0	1152.0	980.0	1062.0	1163.0	1162.0	1156.0	1143.0
5667.9	65°	6679.9	6371.9	3560.0	907.0	826.0	940.0	1049.0	1057.0	1058.0	1057.0
6092.9	67.5°	6627.9	6020.9	2690.0	722.0	699.0	816.0	936.0	947.0	955.0	957.0
6146.9	70°	6039.9	5250.0	1754.0	576.0	586.0	707.0	829.0	840.0	847.0	855.0
5334.0	72.5°	4708.0	3860.0	1004.0	466.0	487.0	613.0	723.0	736.0	740.0	755.0
3712.0	75°	2869.0	2270.0	542.0	367.0	400.0	524.0	618.0	633.0	640.0	658.0
1823.0	77.5°	1364.0	983.0	309.0	286.0	322.0	428.0	522.0	539.0	520.0	530.0
503.0	80°	461.0	365.0	195.0	218.0	246.0	334.0	418.0	435.0	395.0	393.0
167.0	82.5°	161.0	148.0	124.0	145.0	159.0	239.0	316.0	338.0	294.0	293.0
75.0	85°	63.0	60.0	69.0	79.0	95.0	147.0	208.0	219.0	181.0	146.0
22.0	87.5°	13.0	14.0	17.0	18.0	29.0	51.0	75.0	92.0	73.0	62.0
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>
2156.0
2237.0
2355.0
2491.0
2646.0
2823.0
3041.0
3278.0
3407.0
3340.0
3160.0
2977.0
2817.0
2664.0
2499.0
2323.0
2167.0
2131.0
2035.0
1867.0
1597.0
1376.0
1301.0
1240.0
1208.0
1138.0
1057.0
959.0
859.0
761.0
660.0
522.0
389.0
279.0
144.0
57.0
0.0

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