

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: P942262

Luminaire Tested: **GALN-SB6A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942262
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-SB6A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 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: 19539 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

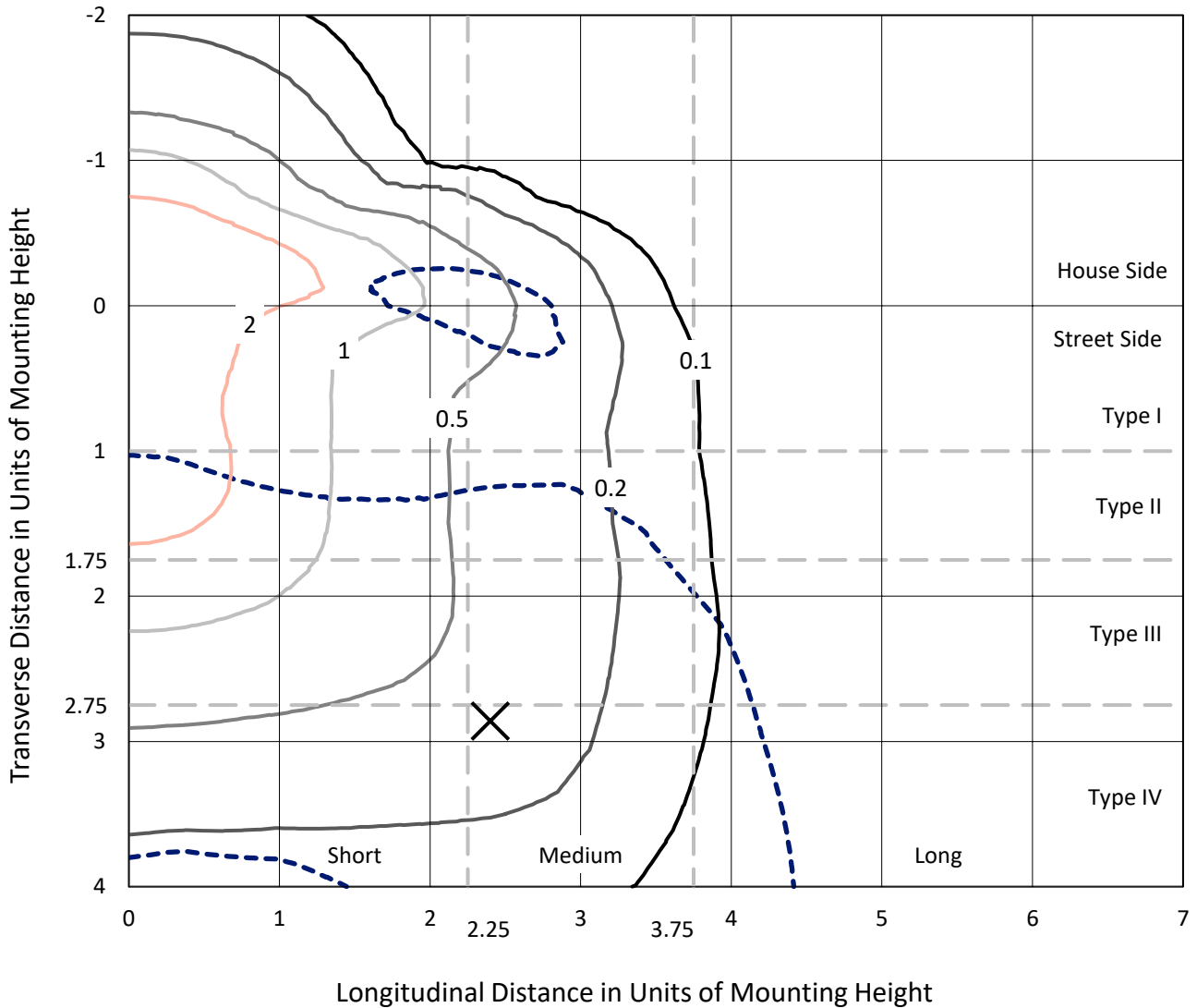
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

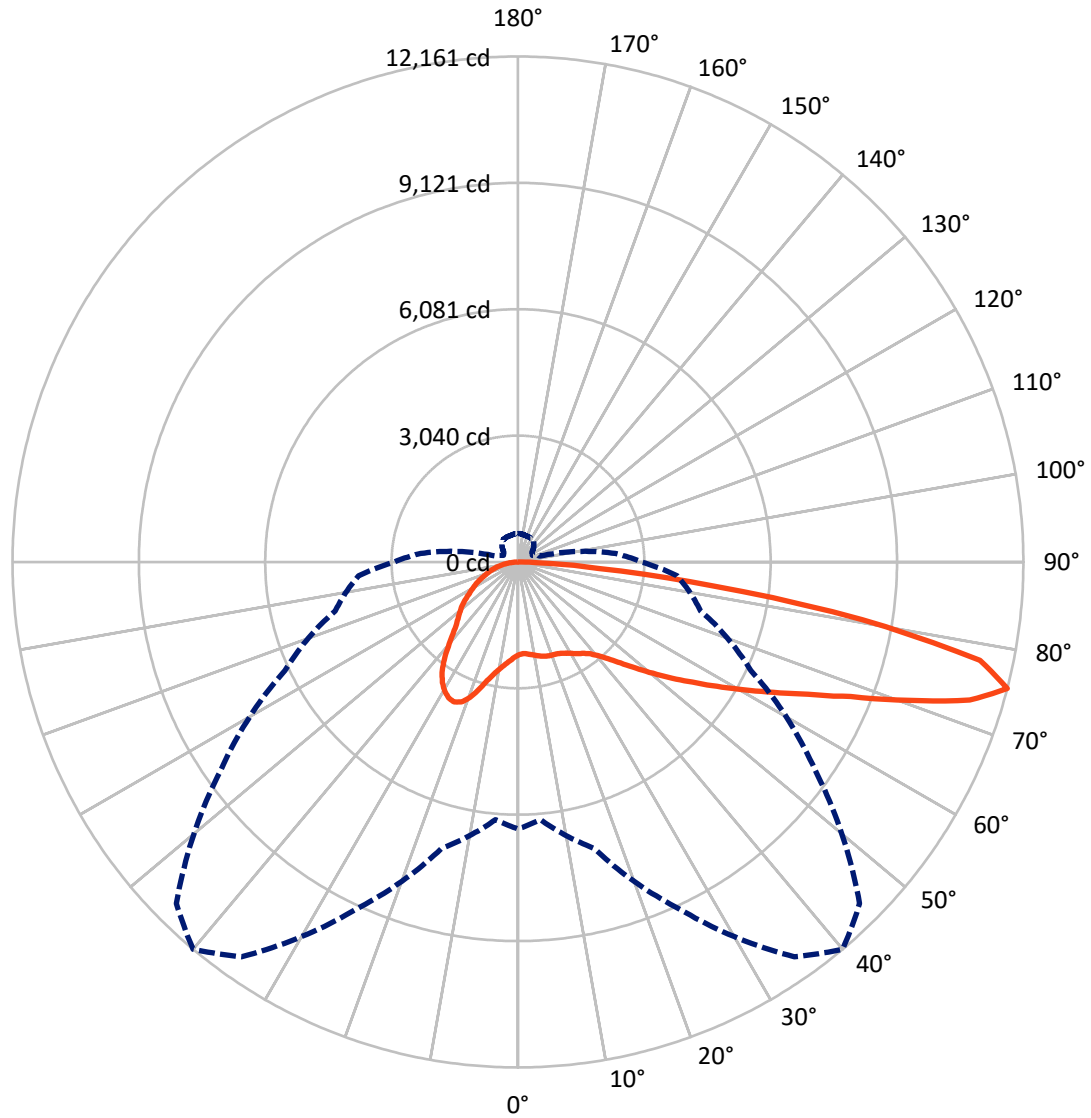
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	6053.8	0.0	6053.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13485.2	0.0	13485.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	19539.0	0.0	19539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	1.1
10°-20°	748.8	3.8
20°-30°	1367.3	7.0
30°-40°	1939.1	9.9
40°-50°	2618.4	13.4
50°-60°	3522.5	18.0
60°-70°	4470.8	22.9
70°-80°	4057.6	20.8
80°-90°	591.5	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°	19539.0	100.0
0°-180°	19539.0	100.0

Coefficient of Utilization



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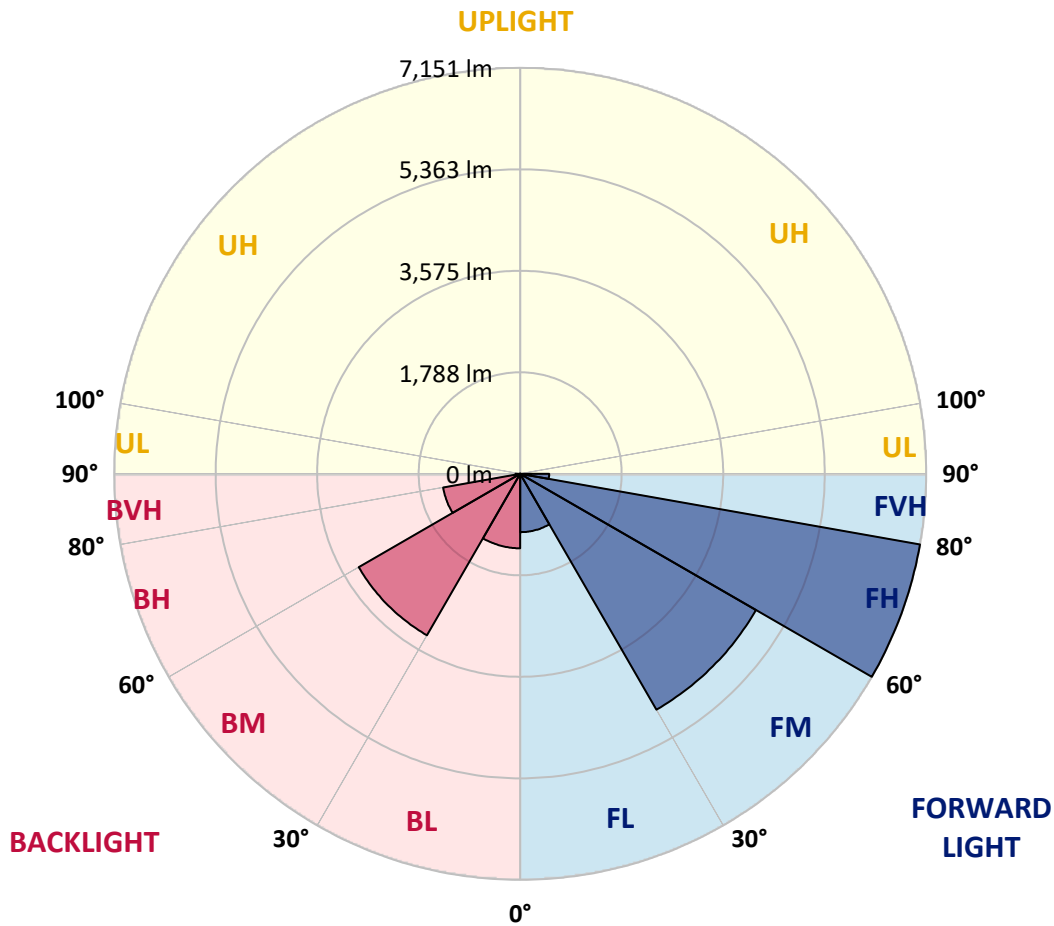
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.8	5.3			
FM (30°-60°)	4796.4	24.5			
FH (60°-80°)	7151.0	36.6			G3/7500
FVH (80°-90°)	510.0	2.6			G4/750
BL (0°-30°)	1311.3	6.7	B3/2500		
BM (30°-60°)	3283.7	16.8	B3/5000		
BH (60°-80°)	1377.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	81.4	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°	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3
2.5°	2200.1	2212.5	2209.4	2205.3	2205.3	2206.3	2205.3	2212.5	2219.8	2227.1
5°	2222.9	2235.3	2229.1	2223.9	2219.8	2218.8	2215.7	2214.6	2218.8	2228.1
7.5°	2267.5	2279.9	2270.6	2261.3	2253.0	2248.8	2244.7	2238.5	2235.3	2240.5
10°	2317.2	2329.7	2318.3	2301.7	2288.2	2283.0	2278.9	2272.7	2268.5	2271.6
12.5°	2367.0	2379.4	2363.9	2341.1	2323.4	2320.3	2315.1	2313.1	2312.0	2311.0
15°	2413.6	2424.0	2404.3	2377.3	2358.7	2353.5	2348.3	2351.4	2356.6	2362.8
17.5°	2449.9	2460.2	2431.2	2396.0	2378.4	2376.3	2373.2	2383.5	2398.0	2413.6
20°	2483.0	2493.4	2456.1	2408.4	2387.7	2387.7	2388.7	2410.5	2431.2	2454.0
22.5°	2529.7	2538.0	2492.4	2427.1	2397.0	2399.1	2407.4	2429.1	2455.0	2486.1
25°	2599.1	2605.3	2549.4	2462.3	2428.1	2434.3	2441.6	2451.9	2476.8	2513.1
27.5°	2711.0	2716.2	2642.6	2524.5	2472.7	2483.0	2493.4	2486.1	2497.5	2528.6
30°	2868.5	2871.6	2778.4	2621.9	2548.3	2553.5	2555.6	2525.5	2503.8	2528.6
32.5°	3055.1	3054.0	2943.2	2740.0	2634.3	2629.1	2611.5	2552.5	2501.7	2523.4
35°	3344.2	3332.8	3189.8	2905.8	2731.7	2699.6	2658.2	2582.5	2512.0	2518.3
37.5°	3823.0	3787.8	3589.8	3177.4	2876.8	2795.0	2733.8	2631.2	2534.8	2516.2
40°	4362.9	4318.4	4100.7	3549.4	3094.5	2962.8	2864.4	2700.7	2572.2	2525.5
42.5°	5003.4	4940.1	4705.9	3987.8	3370.1	3179.4	3031.2	2788.7	2627.1	2555.6
45°	5789.9	5706.0	5374.4	4482.1	3717.3	3463.4	3265.5	2922.4	2711.0	2613.6
47.5°	6584.8	6605.5	6134.0	5047.9	4133.9	3813.7	3558.7	3123.5	2833.3	2706.9
50°	7429.4	7443.9	6889.5	5674.9	4606.5	4209.5	3888.3	3348.4	3003.3	2839.5
52.5°	8088.5	8090.6	7575.5	6330.9	5098.7	4644.8	4243.7	3605.4	3200.2	3015.7
55°	8501.0	8495.8	8056.4	6951.6	5664.5	5101.8	4637.5	3897.6	3440.6	3223.0
57.5°	8800.4	8784.9	8388.0	7485.4	6267.7	5641.7	5083.2	4229.2	3724.5	3469.6
60°	8914.4	8905.1	8612.9	7946.5	6901.9	6238.7	5597.2	4600.2	4046.8	3760.8
62.5°	8958.0	8975.6	8833.6	8393.2	7580.7	6899.8	6162.0	5043.8	4409.6	4090.4
65°	9111.3	9143.5	9114.5	8977.7	8347.6	7674.0	6911.2	5571.3	4805.4	4443.7
67.5°	9415.0	9447.1	9459.5	9677.2	9284.4	8638.8	7846.0	6228.3	5268.7	4810.6
70°	9407.7	9398.4	9618.1	10233.7	10457.5	9974.6	9106.2	7036.6	5821.0	5115.3
72.5°	8563.1	8488.5	9007.7	10227.5	11433.7	11369.5	10645.1	8079.2	6297.7	5152.6
75°	6424.2	6225.2	7142.3	9217.0	11596.4	12161.2	11623.4	8725.8	6184.8	4552.6
77.5°	2747.3	2547.3	3628.2	6823.1	10378.8	11368.5	10725.9	7612.8	4937.0	3010.5
80°	719.2	718.2	1096.4	3093.4	7058.4	8395.2	7365.1	4916.3	2820.9	1075.7
82.5°	297.4	290.2	403.1	1203.2	3448.9	4711.1	3844.8	2192.9	1018.7	291.2
85°	110.9	109.9	195.9	415.6	1216.6	1943.1	1406.3	560.7	253.9	142.0
87.5°	31.1	30.1	42.5	144.0	296.4	449.8	240.4	92.2	71.5	56.0
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°
2234.3	0°	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3	2234.3
2238.5	2.5°	2241.6	2246.7	2256.1	2263.3	2272.7	2283.0	2297.5	2306.9	2316.2	2322.4
2243.6	5°	2250.9	2262.3	2286.1	2310.0	2337.9	2363.9	2393.9	2415.7	2433.3	2438.5
2262.3	7.5°	2271.6	2290.3	2330.7	2371.1	2415.7	2458.2	2501.7	2539.0	2569.0	2580.4
2295.5	10°	2307.9	2332.8	2389.8	2446.8	2505.8	2571.1	2627.1	2681.0	2723.5	2741.1
2334.8	12.5°	2353.5	2384.6	2459.2	2538.0	2619.8	2710.0	2782.5	2848.8	2901.7	2925.5
2389.8	15°	2412.6	2453.0	2548.3	2654.0	2774.2	2899.6	2991.9	3065.4	3124.5	3153.5
2446.8	17.5°	2476.8	2530.7	2650.9	2810.5	2982.5	3147.3	3255.1	3309.0	3370.1	3398.1
2499.6	20°	2539.0	2605.3	2777.3	3009.5	3238.5	3413.6	3500.7	3515.2	3519.4	3522.5
2549.4	22.5°	2603.2	2692.4	2935.9	3260.3	3505.9	3627.1	3639.6	3577.4	3490.3	3449.9
2598.1	25°	2673.7	2791.9	3143.2	3537.0	3735.9	3750.5	3655.1	3503.8	3339.0	3263.4
2637.4	27.5°	2742.1	2906.9	3391.9	3801.2	3901.8	3774.3	3569.1	3354.6	3155.6	3075.8
2665.4	30°	2810.5	3038.5	3666.5	4032.3	3977.4	3715.2	3433.3	3193.9	2993.9	2910.0
2690.3	32.5°	2879.9	3191.9	3982.6	4199.2	3963.9	3589.8	3264.4	3013.6	2837.5	2749.4
2712.1	35°	2958.7	3380.5	4282.1	4290.4	3873.8	3405.4	3041.6	2798.1	2644.7	2574.2
2738.0	37.5°	3061.3	3619.9	4546.3	4313.2	3716.3	3134.9	2764.9	2543.1	2416.7	2384.6
2776.3	40°	3188.8	3908.0	4748.4	4276.9	3483.1	2806.4	2462.3	2285.1	2213.6	2220.8
2828.1	42.5°	3354.6	4230.3	4890.4	4183.6	3158.7	2467.5	2197.0	2118.2	2152.4	2181.5
2905.8	45°	3570.1	4565.0	4978.5	4025.1	2791.9	2180.4	2040.5	2059.2	2085.1	2088.2
3031.2	47.5°	3845.8	4903.9	5036.5	3785.7	2417.7	1978.3	1941.0	1945.2	1940.0	1918.2
3218.8	50°	4189.9	5233.4	5088.3	3468.6	2099.6	1851.9	1802.2	1787.7	1716.1	1645.7
3468.6	52.5°	4581.6	5536.0	5110.1	3074.8	1851.9	1746.2	1665.4	1574.2	1440.5	1418.7
3782.6	55°	5016.8	5815.8	5054.1	2590.8	1643.6	1610.4	1488.2	1378.3	1363.8	1345.1
4196.1	57.5°	5537.1	6117.4	4940.1	2050.9	1430.1	1451.9	1332.7	1345.1	1319.2	1290.2
4727.7	60°	6106.0	6429.3	4740.1	1558.6	1209.4	1253.9	1292.3	1291.3	1284.0	1260.2
5288.4	62.5°	6618.0	6634.5	4346.3	1193.8	1015.6	1100.6	1205.2	1204.2	1198.0	1184.5
5873.9	65°	6922.6	6603.4	3689.3	939.9	856.0	974.1	1087.1	1095.4	1096.4	1095.4
6314.3	67.5°	6868.7	6239.7	2787.7	748.2	724.4	845.6	970.0	981.4	989.7	991.8
6370.3	70°	6259.4	5440.7	1817.7	596.9	607.3	732.7	859.1	870.5	877.8	886.1
5527.7	72.5°	4879.0	4000.2	1040.5	482.9	504.7	635.3	749.3	762.7	766.9	782.4
3846.8	75°	2973.2	2352.5	561.7	380.3	414.5	543.0	640.4	656.0	663.2	681.9
1889.2	77.5°	1413.5	1018.7	320.2	296.4	333.7	443.5	541.0	558.6	538.9	549.3
521.3	80°	477.7	378.3	202.1	225.9	254.9	346.1	433.2	450.8	409.3	407.3
173.1	82.5°	166.8	153.4	128.5	150.3	164.8	247.7	327.5	350.3	304.7	303.6
77.7	85°	65.3	62.2	71.5	81.9	98.5	152.3	215.6	227.0	187.6	151.3
22.8	87.5°	13.5	14.5	17.6	18.7	30.1	52.9	77.7	95.3	75.7	64.3
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>
2234.3
2318.3
2440.5
2581.5
2742.1
2925.5
3151.5
3397.1
3530.7
3461.3
3274.8
3085.1
2919.3
2760.8
2589.8
2407.4
2245.7
2208.4
2108.9
1934.8
1655.0
1426.0
1348.3
1285.0
1251.9
1179.3
1095.4
993.8
890.2
788.6
684.0
541.0
403.1
289.1
149.2
59.1
0.0

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