

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: P942912

Luminaire Tested: **GALN-SB7A-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942912
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-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 19249 lumens
Efficiency: N/A
Efficacy: 96.7 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

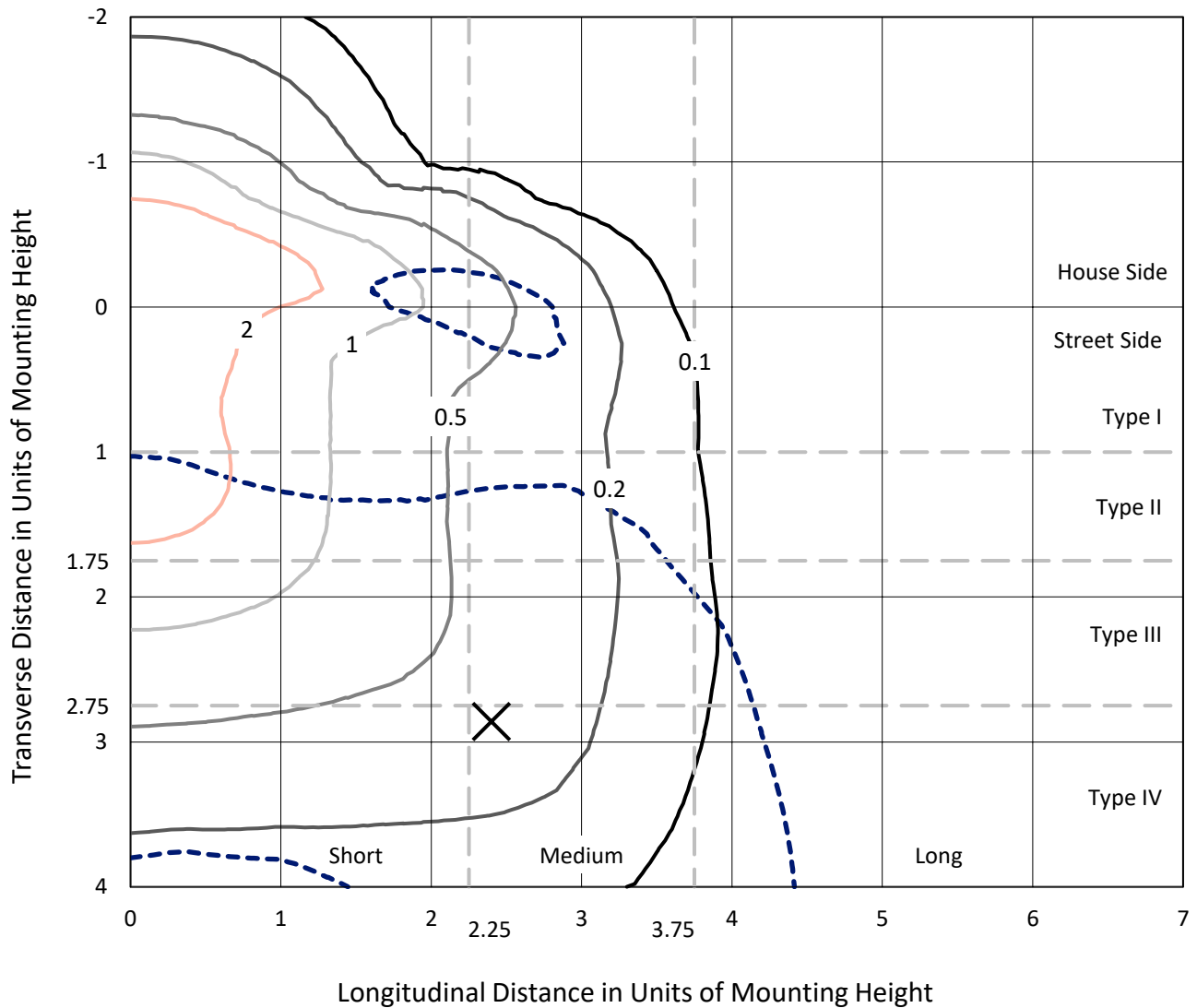
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

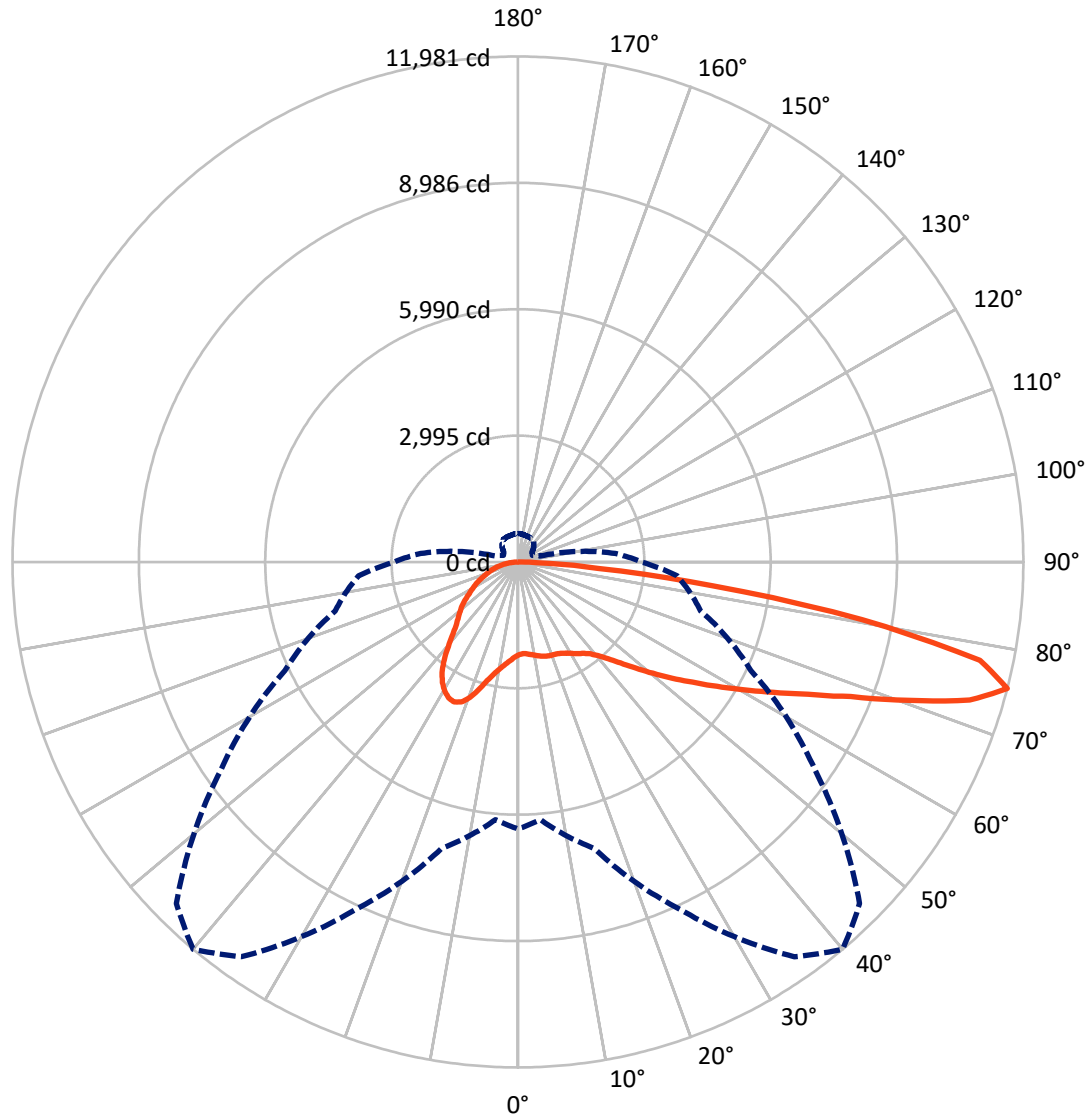
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5964.0	0.0	5964.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13285.0	0.0	13285.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	19249.0	0.0	19249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	1.1
10°-20°	737.7	3.8
20°-30°	1347.0	7.0
30°-40°	1910.4	9.9
40°-50°	2579.6	13.4
50°-60°	3470.2	18.0
60°-70°	4404.5	22.9
70°-80°	3997.3	20.8
80°-90°	582.7	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°	19249.0	100.0
0°-180°	19249.0	100.0

Coefficient of Utilization



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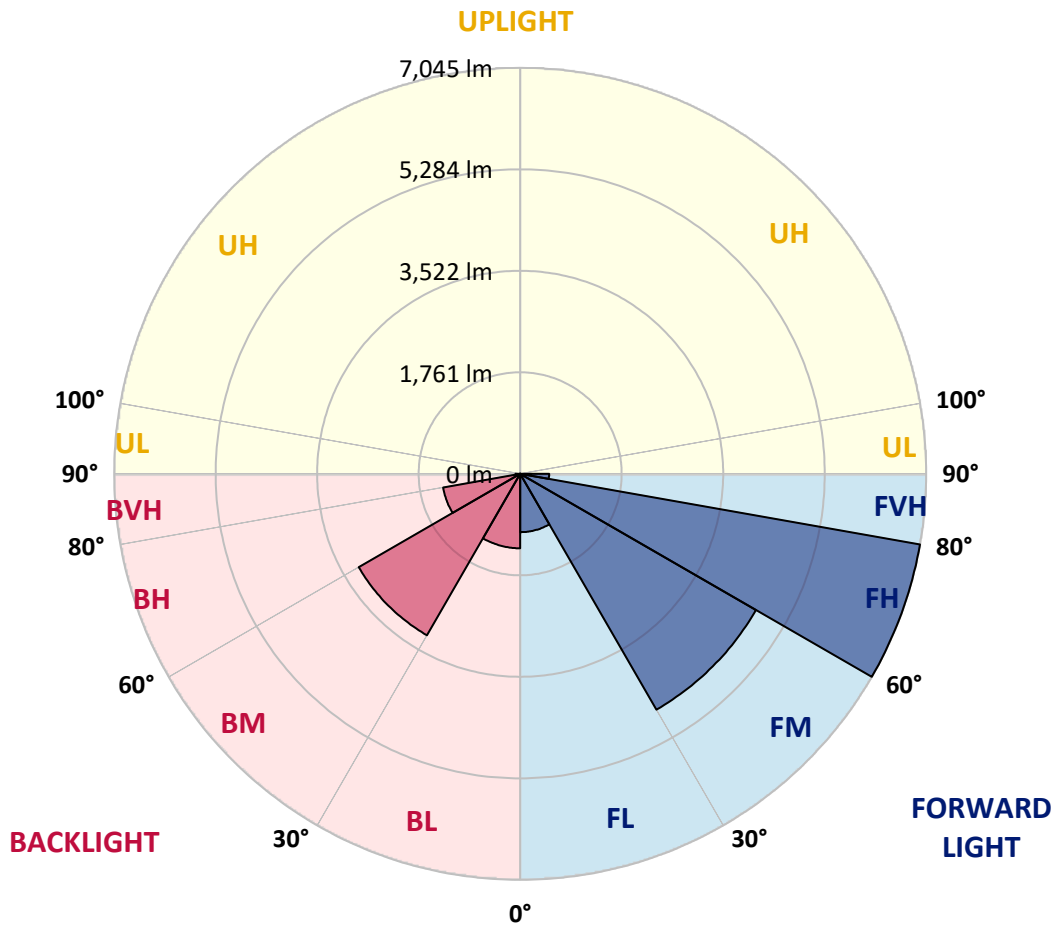
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.5	5.3			
FM (30°-60°)	4725.2	24.5			
FH (60°-80°)	7044.8	36.6			G3/7500
FVH (80°-90°)	502.5	2.6			G4/750
BL (0°-30°)	1291.9	6.7	B3/2500		
BM (30°-60°)	3234.9	16.8	B3/5000		
BH (60°-80°)	1357.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	80.2	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°	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1
2.5°	2167.5	2179.7	2176.6	2172.6	2172.6	2173.6	2172.6	2179.7	2186.9	2194.0
5°	2189.9	2202.2	2196.0	2190.9	2186.9	2185.8	2182.8	2181.8	2185.8	2195.0
7.5°	2233.8	2246.1	2236.9	2227.7	2219.5	2215.4	2211.4	2205.2	2202.2	2207.3
10°	2282.8	2295.1	2283.8	2267.5	2254.2	2249.1	2245.0	2238.9	2234.8	2237.9
12.5°	2331.8	2344.1	2328.8	2306.3	2288.9	2285.9	2280.8	2278.7	2277.7	2276.7
15°	2377.8	2388.0	2368.6	2342.0	2323.7	2318.6	2313.5	2316.5	2321.6	2327.7
17.5°	2413.5	2423.7	2395.1	2360.4	2343.1	2341.0	2338.0	2348.2	2362.5	2377.8
20°	2446.2	2456.4	2419.6	2372.7	2352.2	2352.2	2353.3	2374.7	2395.1	2417.6
22.5°	2492.1	2500.3	2455.4	2391.0	2361.4	2363.5	2371.6	2393.1	2418.6	2449.2
25°	2560.5	2566.6	2511.5	2425.8	2392.1	2398.2	2405.3	2415.5	2440.0	2475.8
27.5°	2670.8	2675.9	2603.4	2487.0	2436.0	2446.2	2456.4	2449.2	2460.5	2491.1
30°	2826.0	2829.0	2737.1	2583.0	2510.5	2515.6	2517.6	2488.0	2466.6	2491.1
32.5°	3009.7	3008.7	2899.5	2699.4	2595.2	2590.1	2572.8	2514.6	2464.6	2486.0
35°	3294.6	3283.3	3142.5	2862.7	2691.2	2659.6	2618.7	2544.2	2474.8	2480.9
37.5°	3766.3	3731.5	3536.5	3130.2	2834.1	2753.5	2693.2	2592.2	2497.2	2478.8
40°	4298.2	4254.3	4039.9	3496.7	3048.5	2918.9	2821.9	2660.6	2534.0	2488.0
42.5°	4929.1	4866.8	4636.1	3928.6	3320.1	3132.2	2986.3	2747.4	2588.1	2517.6
45°	5704.0	5621.3	5294.6	4415.6	3662.1	3412.0	3217.0	2879.1	2670.8	2574.8
47.5°	6487.1	6507.5	6042.9	4973.0	4072.5	3757.1	3505.9	3077.1	2791.3	2666.7
50°	7319.1	7333.4	6787.2	5590.7	4538.1	4147.1	3830.6	3298.7	2958.7	2797.4
52.5°	7968.4	7970.5	7463.1	6236.9	5023.0	4575.9	4180.8	3551.9	3152.7	2970.9
55°	8374.8	8369.7	7936.8	6848.5	5580.5	5026.1	4568.7	3839.8	3389.5	3175.1
57.5°	8669.8	8654.5	8263.5	7374.3	6174.7	5558.0	5007.7	4166.5	3669.3	3418.1
60°	8782.1	8772.9	8485.0	7828.6	6799.5	6146.1	5514.1	4532.0	3986.8	3705.0
62.5°	8825.0	8842.4	8702.5	8268.6	7468.2	6797.4	6070.5	4968.9	4344.1	4029.7
65°	8976.1	9007.8	8979.2	8844.4	8223.7	7560.1	6808.7	5488.6	4734.1	4377.8
67.5°	9275.2	9306.9	9319.1	9533.5	9146.6	8510.6	7729.5	6135.9	5190.5	4739.2
70°	9268.1	9258.9	9475.4	10081.8	10302.3	9826.6	8971.0	6932.2	5734.6	5039.4
72.5°	8436.0	8362.5	8874.0	10075.7	11264.0	11200.7	10487.1	7959.3	6204.3	5076.1
75°	6328.8	6132.8	7036.3	9080.2	11424.3	11980.7	11450.9	8596.3	6093.0	4485.0
77.5°	2706.5	2509.5	3574.3	6721.9	10224.7	11199.7	10566.7	7499.8	4863.8	2965.8
80°	708.5	707.5	1080.2	3047.5	6953.6	8270.6	7255.8	4843.3	2779.0	1059.7
82.5°	293.0	285.9	397.1	1185.3	3397.7	4641.2	3787.7	2160.3	1003.6	286.9
85°	109.2	108.2	193.0	409.4	1198.6	1914.3	1385.4	552.3	250.1	139.9
87.5°	30.6	29.6	41.9	141.9	292.0	443.1	236.9	90.9	70.4	55.1
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°
2201.1	0°	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1	2201.1
2205.2	2.5°	2208.3	2213.4	2222.6	2229.7	2238.9	2249.1	2263.4	2272.6	2281.8	2287.9
2210.3	5°	2217.5	2228.7	2252.2	2275.7	2303.2	2328.8	2358.4	2379.8	2397.2	2402.3
2228.7	7.5°	2237.9	2256.3	2296.1	2335.9	2379.8	2421.7	2464.6	2501.3	2530.9	2542.1
2261.4	10°	2273.6	2298.1	2354.3	2410.4	2468.6	2533.0	2588.1	2641.2	2683.0	2700.4
2300.2	12.5°	2318.6	2349.2	2422.7	2500.3	2580.9	2669.8	2741.2	2806.6	2858.6	2882.1
2354.3	15°	2376.8	2416.6	2510.5	2614.6	2733.1	2856.6	2947.5	3019.9	3078.1	3106.7
2410.4	17.5°	2440.0	2493.1	2611.6	2768.8	2938.3	3100.6	3206.8	3259.9	3320.1	3347.7
2462.5	20°	2501.3	2566.6	2736.1	2964.8	3190.4	3363.0	3448.7	3463.0	3467.1	3470.2
2511.5	22.5°	2564.6	2652.4	2892.3	3211.9	3453.8	3573.3	3585.5	3524.3	3438.5	3398.7
2559.5	25°	2634.0	2750.4	3096.5	3484.5	3680.5	3694.8	3600.9	3451.8	3289.5	3214.9
2598.3	27.5°	2701.4	2863.7	3341.5	3744.8	3843.8	3718.3	3516.1	3304.8	3108.8	3030.2
2625.9	30°	2768.8	2993.4	3612.1	3972.5	3918.4	3660.1	3382.4	3146.5	2949.5	2866.8
2650.4	32.5°	2837.2	3144.5	3923.5	4136.9	3905.1	3536.5	3216.0	2968.9	2795.3	2708.6
2671.8	35°	2914.8	3330.3	4218.5	4226.7	3816.3	3354.8	2996.5	2756.5	2605.4	2536.0
2697.3	37.5°	3015.9	3566.1	4478.9	4249.2	3661.1	3088.3	2723.9	2505.4	2380.8	2349.2
2735.1	40°	3141.4	3850.0	4678.0	4213.4	3431.4	2764.7	2425.8	2251.2	2180.7	2187.9
2786.1	42.5°	3304.8	4167.5	4817.8	4121.5	3111.8	2430.9	2164.4	2086.8	2120.5	2149.1
2862.7	45°	3517.1	4497.2	4904.6	3965.3	2750.4	2148.1	2010.2	2028.6	2054.1	2057.2
2986.3	47.5°	3788.7	4831.1	4961.8	3729.5	2381.9	1949.0	1912.2	1916.3	1911.2	1889.8
3171.0	50°	4127.7	5155.8	5012.8	3417.1	2068.4	1824.4	1775.4	1761.1	1690.7	1621.3
3417.1	52.5°	4513.6	5453.9	5034.3	3029.1	1824.4	1720.3	1640.7	1550.8	1419.1	1397.7
3726.4	55°	4942.4	5729.5	4979.1	2552.4	1619.2	1586.5	1466.1	1357.9	1343.6	1325.2
4133.8	57.5°	5454.9	6026.6	4866.8	2020.4	1408.9	1430.3	1312.9	1325.2	1299.7	1271.1
4657.5	60°	6015.4	6333.9	4669.8	1535.5	1191.4	1235.3	1273.1	1272.1	1264.9	1241.5
5209.9	62.5°	6519.7	6536.1	4281.8	1176.1	1000.5	1084.2	1187.4	1186.3	1180.2	1166.9
5786.7	65°	6819.9	6505.4	3634.5	926.0	843.3	959.7	1071.0	1079.1	1080.2	1079.1
6220.6	67.5°	6766.8	6147.1	2746.3	737.1	713.6	833.1	955.6	966.8	975.0	977.0
6275.7	70°	6166.5	5359.9	1790.7	588.1	598.3	721.8	846.4	857.6	864.7	872.9
5445.7	72.5°	4806.6	3940.8	1025.0	475.8	497.2	625.8	738.1	751.4	755.5	770.8
3789.7	75°	2929.1	2317.5	553.4	374.7	408.4	535.0	630.9	646.3	653.4	671.8
1861.2	77.5°	1392.6	1003.6	315.5	292.0	328.7	437.0	532.9	550.3	530.9	541.1
513.5	80°	470.7	372.6	199.1	222.6	251.2	341.0	426.8	444.1	403.3	401.2
170.5	82.5°	164.4	151.1	126.6	148.0	162.3	244.0	322.6	345.1	300.2	299.1
76.6	85°	64.3	61.3	70.4	80.7	97.0	150.1	212.4	223.6	184.8	149.1
22.5	87.5°	13.3	14.3	17.4	18.4	29.6	52.1	76.6	93.9	74.5	63.3
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>
2201.1
2283.8
2404.3
2543.2
2701.4
2882.1
3104.7
3346.6
3478.3
3409.9
3226.2
3039.3
2876.0
2719.8
2551.3
2371.6
2212.4
2175.6
2077.6
1906.1
1630.4
1404.8
1328.2
1266.0
1233.3
1161.8
1079.1
979.1
877.0
776.9
673.8
532.9
397.1
284.8
147.0
58.2
0.0

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