

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: P941002

Luminaire Tested: **GALN-SB4B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941002
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-SB4B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20101 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

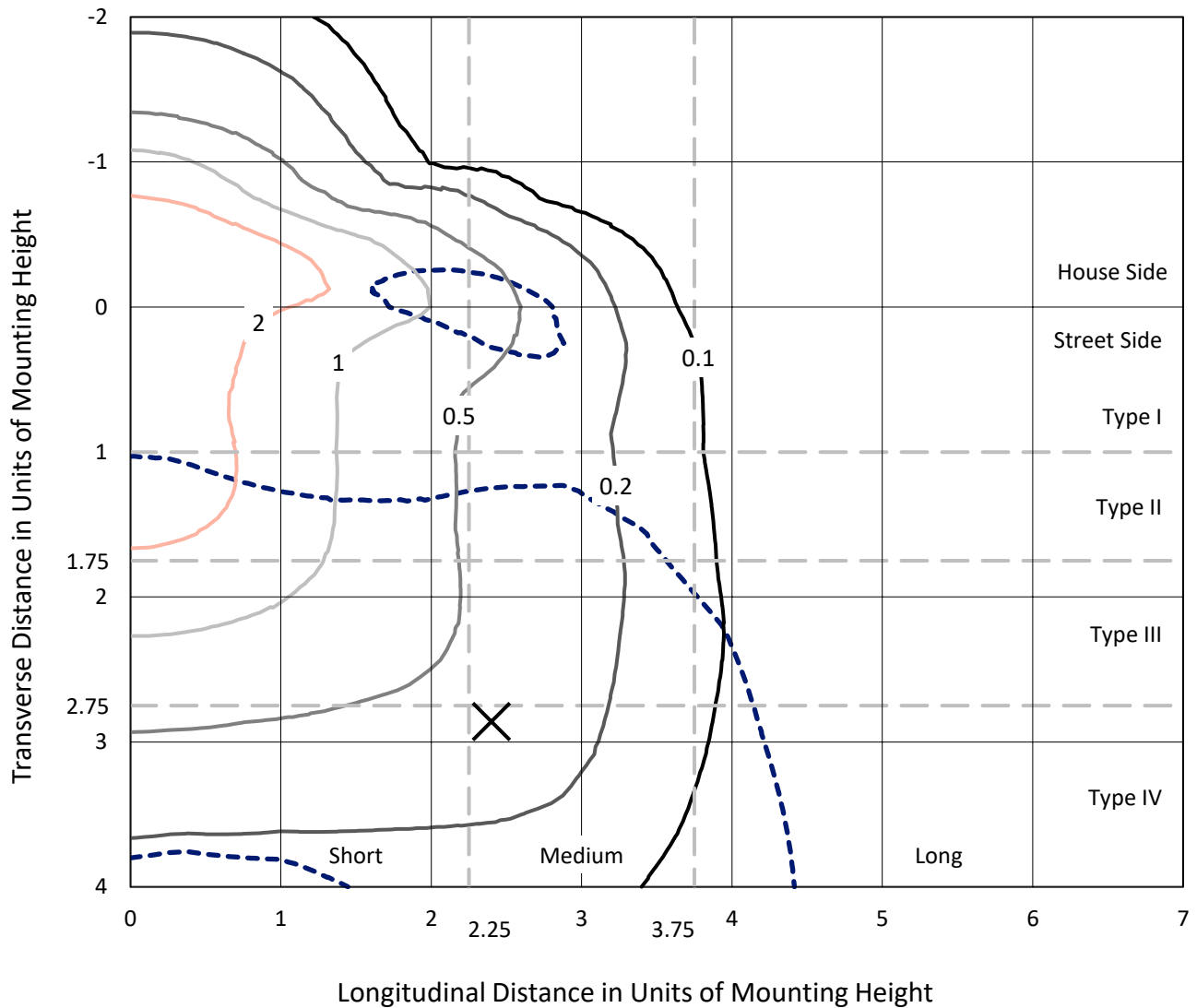
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

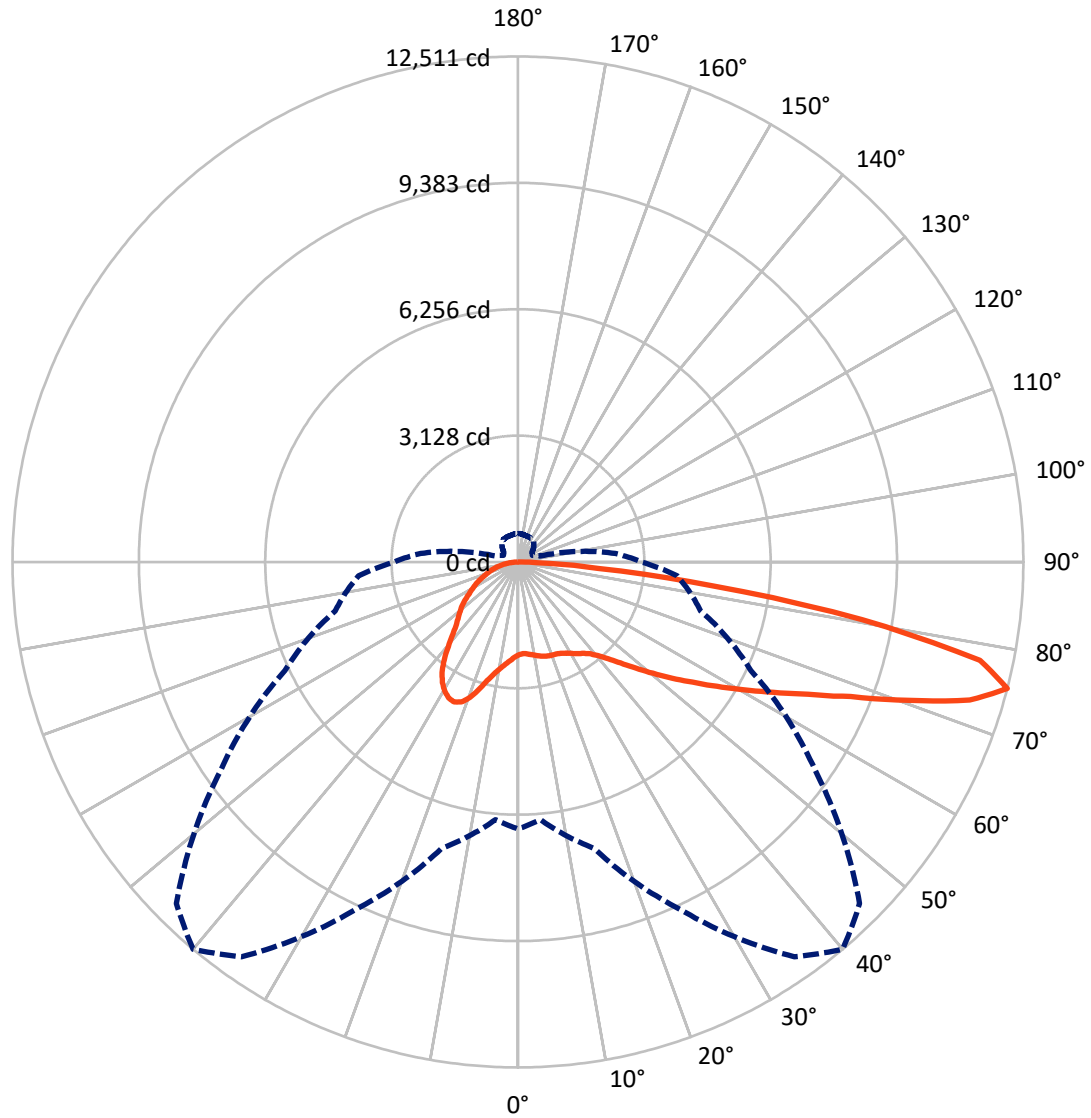
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	6228.0	0.0	6228.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13873.0	0.0	13873.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	20101.0	0.0	20101.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	1.1
10°-20°	770.3	3.8
20°-30°	1406.6	7.0
30°-40°	1994.9	9.9
40°-50°	2693.7	13.4
50°-60°	3623.8	18.0
60°-70°	4599.4	22.9
70°-80°	4174.3	20.8
80°-90°	608.5	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°	20101.0	100.0
0°-180°	20101.0	100.0



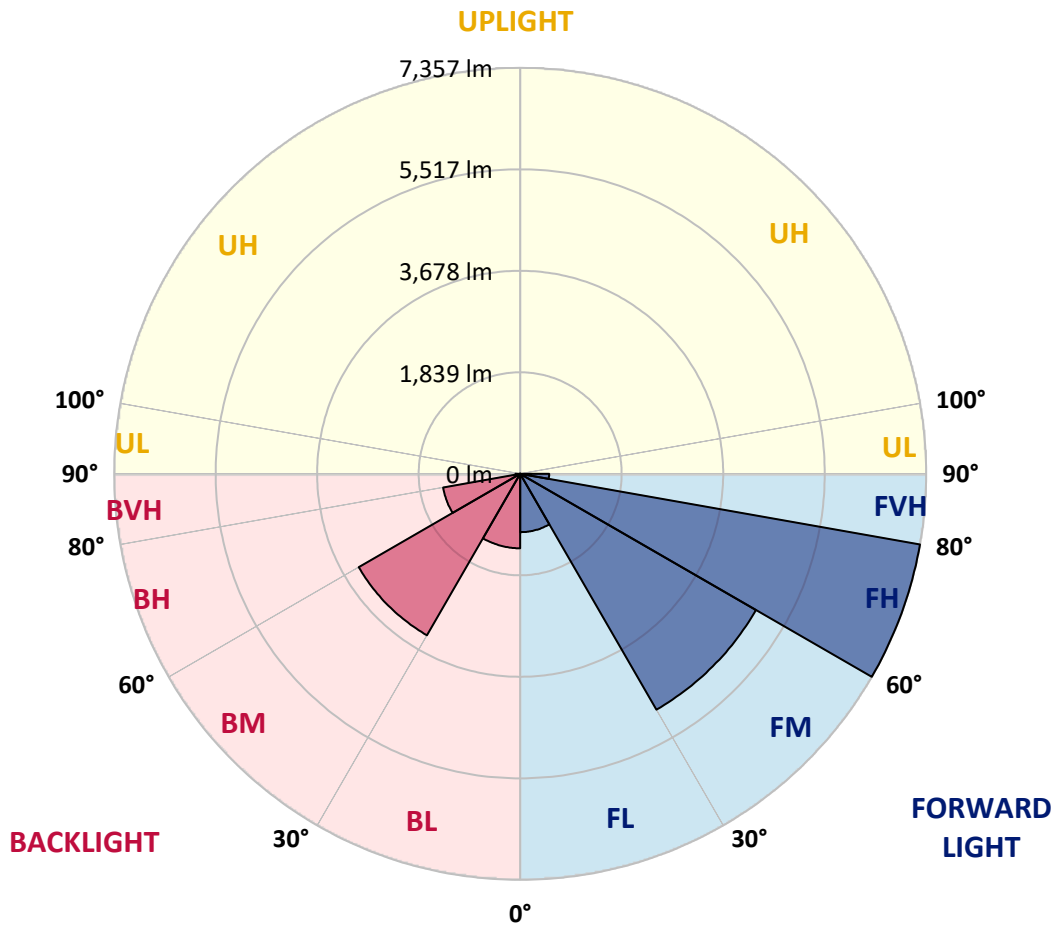
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.3	5.3			
FM (30°-60°)	4934.3	24.5			
FH (60°-80°)	7356.7	36.6			G3/7500
FVH (80°-90°)	524.7	2.6			G4/750
BL (0°-30°)	1349.0	6.7	B3/2500		
BM (30°-60°)	3378.1	16.8	B3/5000		
BH (60°-80°)	1417.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	83.8	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°	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6
2.5°	2263.4	2276.2	2273.0	2268.7	2268.7	2269.8	2268.7	2276.2	2283.7	2291.1
5°	2286.8	2299.6	2293.2	2287.9	2283.7	2282.6	2279.4	2278.3	2282.6	2292.2
7.5°	2332.7	2345.5	2335.9	2326.3	2317.8	2313.5	2309.2	2302.8	2299.6	2305.0
10°	2383.9	2396.7	2384.9	2367.9	2354.0	2348.7	2344.4	2338.0	2333.8	2337.0
12.5°	2435.0	2447.8	2431.8	2408.4	2390.3	2387.1	2381.7	2379.6	2378.5	2377.5
15°	2483.0	2493.7	2473.4	2445.7	2426.5	2421.2	2415.9	2419.0	2424.4	2430.8
17.5°	2520.3	2531.0	2501.1	2464.9	2446.8	2444.6	2441.4	2452.1	2467.0	2483.0
20°	2554.4	2565.1	2526.7	2477.7	2456.4	2456.4	2457.4	2479.8	2501.1	2524.6
22.5°	2602.4	2611.0	2564.0	2496.9	2466.0	2468.1	2476.6	2499.0	2525.7	2557.6
25°	2673.9	2680.3	2622.7	2533.1	2497.9	2504.3	2511.8	2522.5	2548.1	2585.4
27.5°	2789.0	2794.3	2718.6	2597.1	2543.8	2554.4	2565.1	2557.6	2569.4	2601.4
30°	2951.0	2954.2	2858.3	2697.3	2621.6	2626.9	2629.1	2598.2	2575.8	2601.4
32.5°	3143.0	3141.9	3027.8	2818.8	2710.1	2704.8	2686.6	2625.9	2573.6	2596.0
35°	3440.4	3428.7	3281.5	2989.4	2810.3	2777.3	2734.6	2656.8	2584.3	2590.7
37.5°	3933.0	3896.7	3693.1	3268.8	2959.6	2875.4	2812.5	2706.9	2607.8	2588.6
40°	4488.4	4442.6	4218.7	3651.5	3183.5	3048.1	2946.8	2778.3	2646.1	2598.2
42.5°	5147.3	5082.2	4841.3	4102.5	3467.1	3270.9	3118.4	2869.0	2702.6	2629.1
45°	5956.5	5870.1	5528.9	4611.0	3824.2	3563.0	3359.4	3006.5	2789.0	2688.8
47.5°	6774.2	6795.5	6310.4	5193.1	4252.8	3923.4	3661.1	3213.3	2914.8	2784.7
50°	7643.1	7658.0	7087.6	5838.1	4738.9	4330.6	4000.1	3444.7	3089.6	2921.2
52.5°	8321.1	8323.3	7793.4	6513.0	5245.4	4778.4	4365.8	3709.1	3292.2	3102.4
55°	8745.5	8740.1	8288.1	7151.6	5827.5	5248.6	4770.9	4009.7	3539.6	3315.7
57.5°	9053.6	9037.6	8629.3	7700.7	6448.0	5804.0	5229.4	4350.9	3831.7	3569.4
60°	9170.8	9161.3	8860.6	8175.1	7100.4	6418.1	5758.2	4732.6	4163.2	3869.0
62.5°	9215.6	9233.8	9087.7	8634.6	7798.7	7098.3	6339.2	5188.9	4536.4	4208.0
65°	9373.4	9406.5	9376.6	9235.9	8587.7	7894.7	7110.0	5731.5	4943.6	4571.6
67.5°	9685.8	9718.8	9731.6	9955.5	9551.5	8887.3	8071.7	6407.4	5420.2	4949.0
70°	9678.3	9668.7	9894.8	10528.0	10758.3	10261.5	9368.1	7239.0	5988.5	5262.4
72.5°	8809.4	8732.7	9266.8	10521.6	11762.6	11696.5	10951.3	8311.5	6478.9	5300.8
75°	6608.9	6404.2	7347.8	9482.2	11930.0	12511.0	11957.7	8976.8	6362.7	4683.5
77.5°	2826.3	2620.5	3732.5	7019.4	10677.3	11695.4	11034.4	7831.8	5079.0	3097.1
80°	739.9	738.8	1128.0	3182.4	7261.4	8636.7	7577.0	5057.7	2902.0	1106.6
82.5°	306.0	298.5	414.7	1237.8	3548.1	4846.6	3955.3	2255.9	1048.0	299.6
85°	114.1	113.0	201.5	427.5	1251.6	1999.0	1446.7	576.8	261.2	146.1
87.5°	32.0	30.9	43.7	148.2	304.9	462.7	247.3	94.9	73.6	57.6
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°
2298.6	0°	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6	2298.6
2302.8	2.5°	2306.0	2311.4	2321.0	2328.4	2338.0	2348.7	2363.6	2373.2	2382.8	2389.2
2308.2	5°	2315.6	2327.4	2351.9	2376.4	2405.2	2431.8	2462.8	2485.1	2503.3	2508.6
2327.4	7.5°	2337.0	2356.1	2397.7	2439.3	2485.1	2528.9	2573.6	2612.0	2642.9	2654.7
2361.5	10°	2374.3	2399.9	2458.5	2517.1	2577.9	2645.1	2702.6	2758.1	2801.8	2819.9
2402.0	12.5°	2421.2	2453.2	2529.9	2611.0	2695.2	2787.9	2862.6	2930.8	2985.2	3009.7
2458.5	15°	2482.0	2523.5	2621.6	2730.4	2854.0	2983.0	3077.9	3153.6	3214.4	3244.2
2517.1	17.5°	2548.1	2603.5	2727.2	2891.3	3068.3	3237.8	3348.7	3404.2	3467.1	3495.8
2571.5	20°	2612.0	2680.3	2857.2	3096.0	3331.7	3511.8	3601.4	3616.3	3620.6	3623.8
2622.7	22.5°	2678.1	2769.8	3020.3	3354.0	3606.7	3731.5	3744.2	3680.3	3590.7	3549.1
2672.8	25°	2750.6	2872.2	3233.6	3638.7	3843.4	3858.3	3760.2	3604.6	3435.1	3357.2
2713.3	27.5°	2821.0	2990.5	3489.4	3910.6	4014.0	3882.8	3671.8	3451.1	3246.4	3164.3
2742.1	30°	2891.3	3125.9	3772.0	4148.3	4091.8	3822.1	3532.1	3285.8	3080.0	2993.7
2767.7	32.5°	2962.8	3283.7	4097.1	4320.0	4077.9	3693.1	3358.3	3100.3	2919.1	2828.4
2790.1	35°	3043.8	3477.7	4405.2	4413.8	3985.2	3503.3	3129.1	2878.6	2720.8	2648.3
2816.7	37.5°	3149.3	3724.0	4677.1	4437.2	3823.1	3225.0	2844.4	2616.3	2486.2	2453.2
2856.2	40°	3280.5	4020.4	4885.0	4399.9	3583.3	2887.1	2533.1	2350.8	2277.3	2284.7
2909.5	42.5°	3451.1	4351.9	5031.1	4304.0	3249.6	2538.5	2260.2	2179.2	2214.4	2244.2
2989.4	45°	3672.8	4696.3	5121.7	4140.8	2872.2	2243.1	2099.2	2118.4	2145.1	2148.3
3118.4	47.5°	3956.4	5044.9	5181.4	3894.6	2487.3	2035.2	1996.9	2001.1	1995.8	1973.4
3311.4	50°	4310.4	5384.0	5234.7	3568.3	2160.0	1905.2	1854.0	1839.1	1765.5	1693.0
3568.3	52.5°	4713.4	5695.3	5257.1	3163.2	1905.2	1796.4	1713.3	1619.5	1481.9	1459.5
3891.4	55°	5161.1	5983.1	5199.5	2665.3	1690.9	1656.8	1531.0	1418.0	1403.0	1383.8
4316.8	57.5°	5696.3	6293.4	5082.2	2109.9	1471.3	1493.6	1371.0	1383.8	1357.2	1327.3
4863.7	60°	6281.6	6614.3	4876.5	1603.5	1244.2	1290.0	1329.5	1328.4	1320.9	1296.4
5440.5	62.5°	6808.3	6825.4	4471.3	1228.2	1044.8	1132.2	1239.9	1238.8	1232.4	1218.6
6042.8	65°	7121.7	6793.4	3795.4	967.0	880.6	1002.2	1118.4	1126.9	1128.0	1126.9
6495.9	67.5°	7066.3	6419.2	2867.9	769.7	745.2	870.0	997.9	1009.6	1018.2	1020.3
6553.5	70°	6439.4	5597.2	1870.0	614.1	624.8	753.8	883.8	895.5	903.0	911.5
5686.7	72.5°	5019.3	4115.3	1070.4	496.8	519.2	653.5	770.8	784.7	788.9	804.9
3957.5	75°	3058.7	2420.1	577.8	391.3	426.5	558.7	658.9	674.9	682.3	701.5
1943.6	77.5°	1454.2	1048.0	329.4	304.9	343.3	456.3	556.5	574.6	554.4	565.0
536.3	80°	491.5	389.1	207.9	232.4	262.3	356.1	445.6	463.8	421.1	419.0
178.0	82.5°	171.6	157.8	132.2	154.6	169.5	254.8	336.9	360.4	313.4	312.4
80.0	85°	67.2	64.0	73.6	84.2	101.3	156.7	221.8	233.5	193.0	155.7
23.5	87.5°	13.9	14.9	18.1	19.2	30.9	54.4	80.0	98.1	77.8	66.1
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>
2298.6
2384.9
2510.7
2655.7
2821.0
3009.7
3242.1
3494.8
3632.3
3560.9
3369.0
3173.9
3003.3
2840.2
2664.3
2476.6
2310.3
2271.9
2169.6
1990.5
1702.6
1467.0
1387.0
1322.0
1287.9
1213.3
1126.9
1022.4
915.8
811.3
703.6
556.5
414.7
297.5
153.5
60.8
0.0

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