

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: STREETWORKS

Report Number: P848003

Luminaire Tested: **GLAN-SB4B-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 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: 19895 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

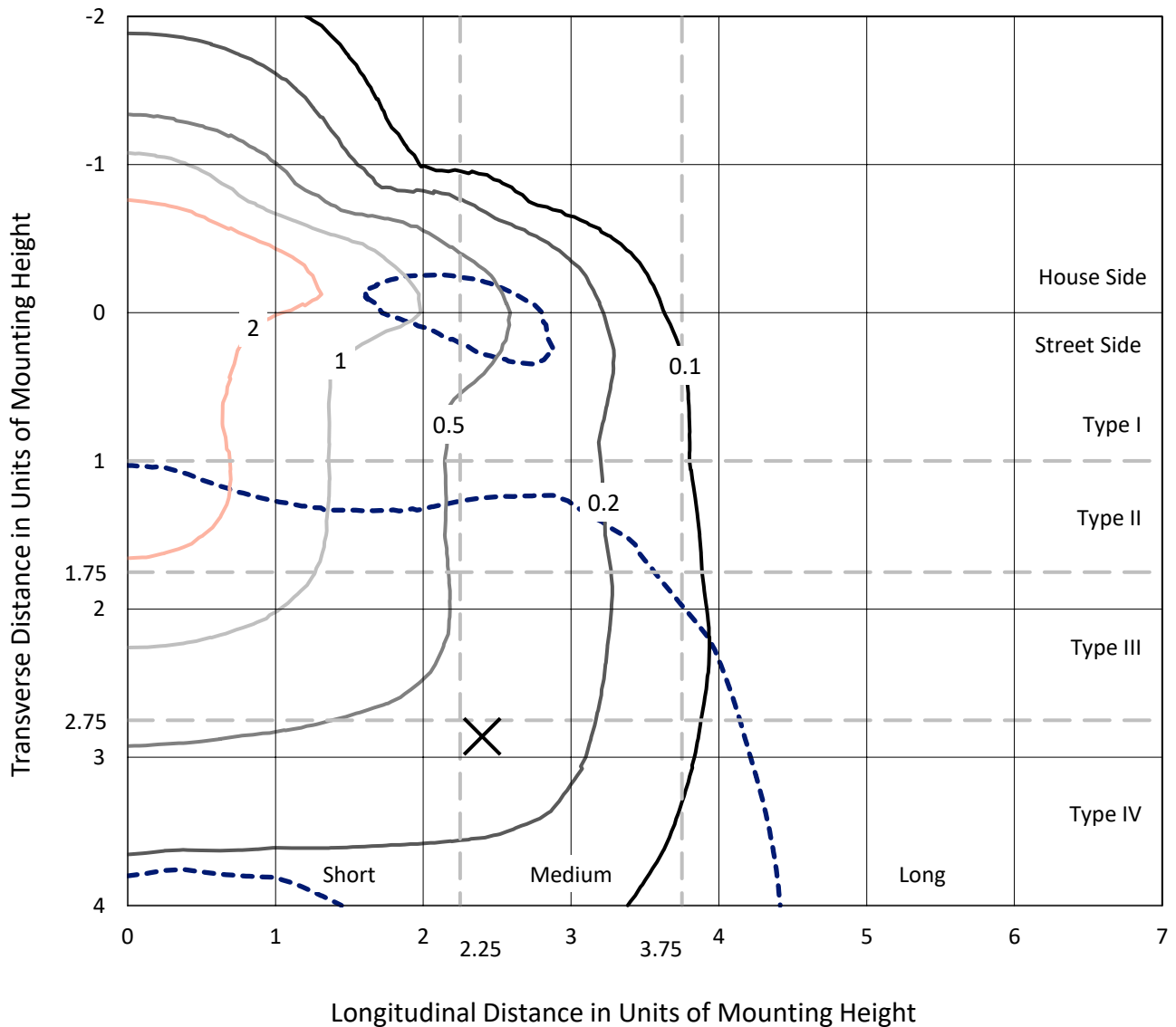
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

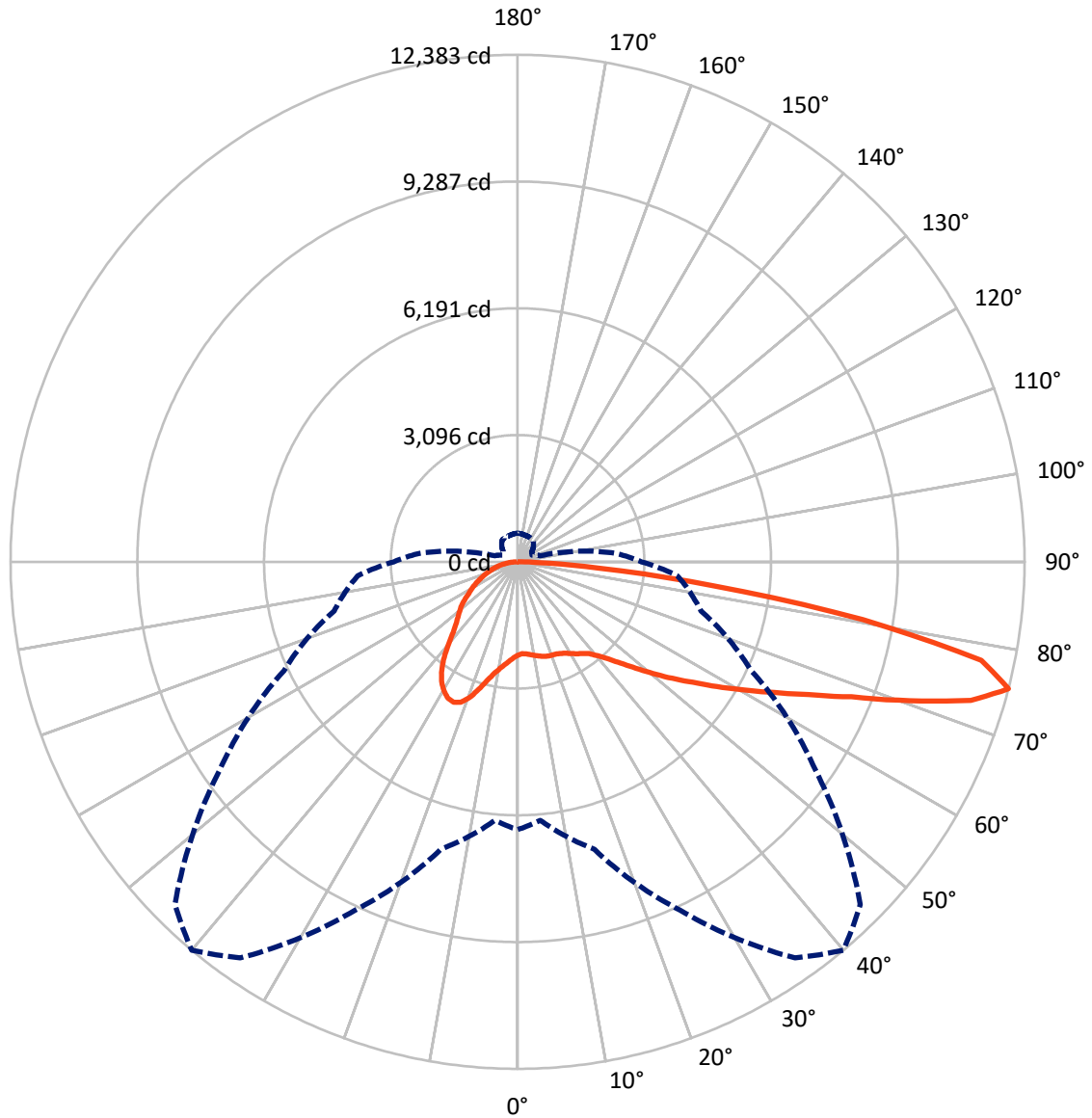
× Max cd
 - - - 1/2 Max cd



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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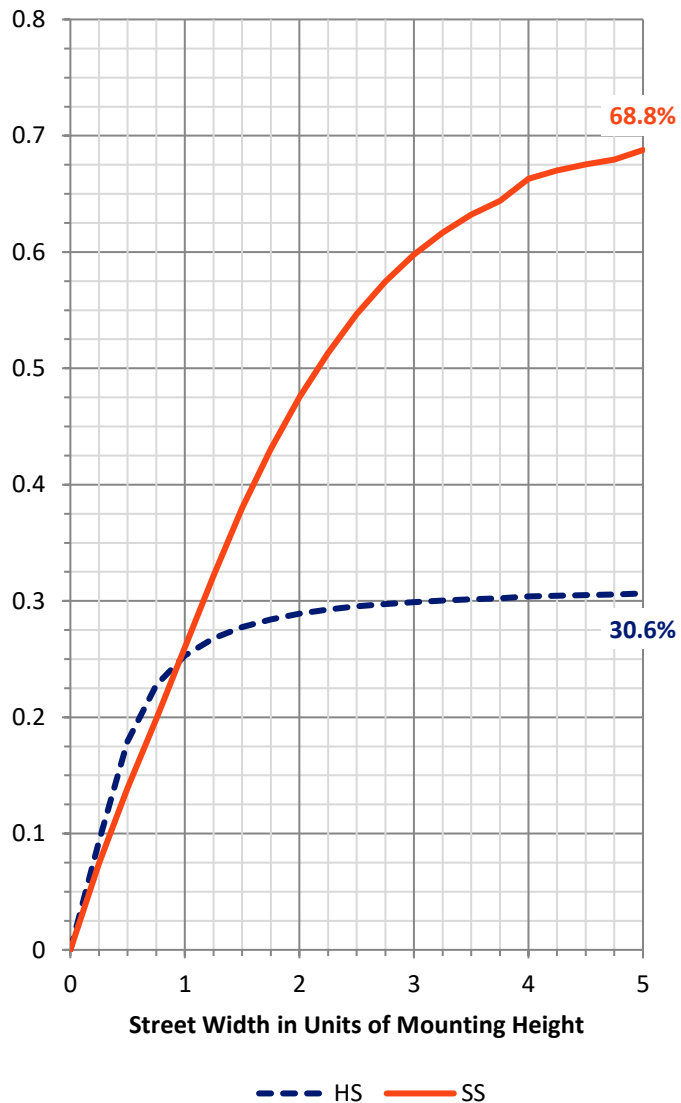
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6164.1	0.0	6164.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13730.9	0.0	13730.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	19895.0	0.0	19895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	1.1
10°-20°	762.4	3.8
20°-30°	1392.2	7.0
30°-40°	1974.5	9.9
40°-50°	2666.1	13.4
50°-60°	3586.7	18.0
60°-70°	4552.3	22.9
70°-80°	4131.5	20.8
80°-90°	602.2	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°	19895.0	100.0
0°-180°	19895.0	100.0

Coefficient of Utilization

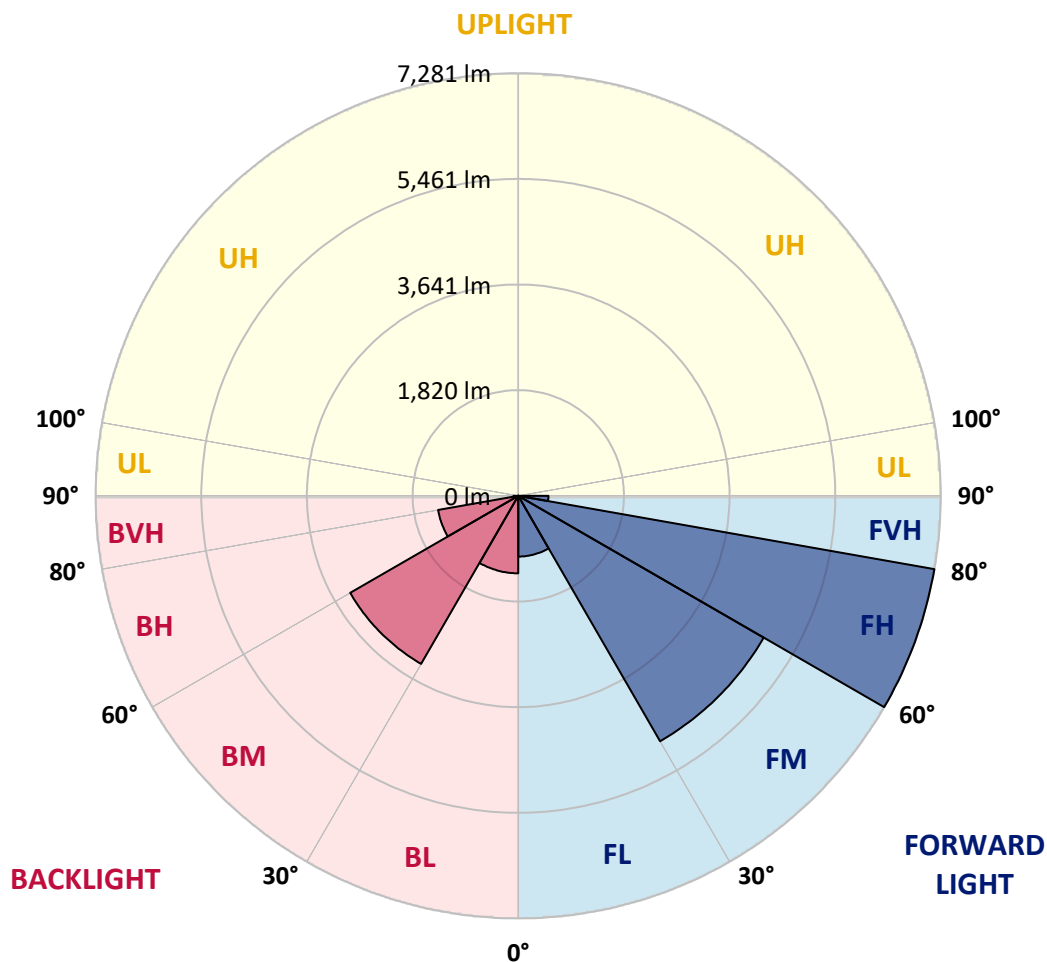


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.5	5.3			
FM (30°-60°)	4883.8	24.5			
FH (60°-80°)	7281.3	36.6			G3/7500
FVH (80°-90°)	519.3	2.6			G4/750
BL (0°-30°)	1335.2	6.7	B3/2500		
BM (30°-60°)	3343.5	16.8	B3/5000		
BH (60°-80°)	1402.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	82.9	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°	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0
2.5°	2240.2	2252.9	2249.7	2245.5	2245.5	2246.5	2245.5	2252.9	2260.2	2267.6
5°	2263.4	2276.1	2269.7	2264.5	2260.2	2259.2	2256.0	2255.0	2259.2	2268.7
7.5°	2308.8	2321.4	2312.0	2302.5	2294.0	2289.8	2285.6	2279.2	2276.1	2281.4
10°	2359.4	2372.1	2360.5	2343.6	2329.9	2324.6	2320.4	2314.1	2309.8	2313.0
12.5°	2410.1	2422.7	2406.9	2383.7	2365.8	2362.6	2357.3	2355.2	2354.2	2353.1
15°	2457.6	2468.1	2448.1	2420.6	2401.6	2396.4	2391.1	2394.3	2399.5	2405.9
17.5°	2494.5	2505.1	2475.5	2439.6	2421.7	2419.6	2416.4	2427.0	2441.7	2457.6
20°	2528.3	2538.8	2500.8	2452.3	2431.2	2431.2	2432.2	2454.4	2475.5	2498.7
22.5°	2575.8	2584.2	2537.8	2471.3	2440.7	2442.8	2451.2	2473.4	2499.8	2531.4
25°	2646.5	2652.8	2595.8	2507.2	2472.3	2478.7	2486.1	2496.6	2521.9	2558.9
27.5°	2760.4	2765.7	2690.8	2570.5	2517.7	2528.3	2538.8	2531.4	2543.0	2574.7
30°	2920.8	2924.0	2829.0	2669.7	2594.7	2600.0	2602.1	2571.5	2549.4	2574.7
32.5°	3110.7	3109.7	2996.8	2790.0	2682.3	2677.1	2659.1	2599.0	2547.3	2569.4
35°	3405.1	3393.5	3247.9	2958.8	2781.5	2748.8	2706.6	2629.6	2557.8	2564.1
37.5°	3892.6	3856.8	3655.2	3235.3	2929.2	2845.9	2783.6	2679.2	2581.0	2562.0
40°	4442.4	4397.0	4175.4	3614.1	3150.8	3016.8	2916.6	2749.9	2619.0	2571.5
42.5°	5094.5	5030.2	4791.7	4060.4	3431.5	3237.4	3086.5	2839.6	2674.9	2602.1
45°	5895.4	5810.0	5472.3	4563.8	3785.0	3526.5	3324.9	2975.7	2760.4	2661.2
47.5°	6704.8	6725.9	6245.8	5139.9	4209.2	3883.2	3623.6	3180.4	2884.9	2756.2
50°	7564.8	7579.5	7015.0	5778.3	4690.4	4286.2	3959.1	3409.4	3058.0	2891.3
52.5°	8235.9	8238.0	7713.5	6446.2	5191.6	4729.4	4321.1	3671.1	3258.5	3070.6
55°	8655.8	8650.6	8203.2	7078.3	5767.7	5194.8	4722.0	3968.6	3503.3	3281.7
57.5°	8960.8	8945.0	8540.8	7621.7	6381.9	5744.5	5175.8	4306.3	3792.4	3532.8
60°	9076.9	9067.4	8769.8	8091.3	7027.7	6352.3	5699.2	4684.1	4120.6	3829.3
62.5°	9121.2	9139.1	8994.6	8546.1	7718.8	7025.5	6274.2	5135.7	4489.9	4164.9
65°	9277.4	9310.1	9280.5	9141.2	8499.7	7813.8	7037.2	5672.8	4893.0	4524.7
67.5°	9586.5	9619.2	9631.9	9853.5	9453.6	8796.2	7988.9	6341.8	5364.7	4898.3
70°	9579.1	9569.6	9793.3	10420.1	10648.1	10156.3	9272.1	7164.8	5927.1	5208.5
72.5°	8719.2	8643.2	9171.8	10413.8	11642.1	11576.6	10839.1	8226.4	6412.5	5246.5
75°	6541.2	6338.6	7272.5	9385.0	11807.7	12382.8	11835.2	8884.8	6297.5	4635.5
77.5°	2797.3	2593.7	3694.3	6947.5	10567.9	11575.6	10921.4	7751.5	5027.0	3065.4
80°	732.3	731.3	1116.4	3149.8	7187.0	8548.2	7499.3	5005.9	2872.3	1095.3
82.5°	302.8	295.5	410.5	1225.1	3511.7	4797.0	3914.8	2232.8	1037.3	296.5
85°	112.9	111.9	199.4	423.1	1238.8	1978.5	1431.9	570.9	258.5	144.6
87.5°	31.7	30.6	43.3	146.7	301.8	458.0	244.8	93.9	72.8	57.0
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°
2275.0	0°	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0	2275.0
2279.2	2.5°	2282.4	2287.7	2297.2	2304.6	2314.1	2324.6	2339.4	2348.9	2358.4	2364.7
2284.5	5°	2291.9	2303.5	2327.8	2352.0	2380.5	2406.9	2437.5	2459.7	2477.6	2482.9
2303.5	7.5°	2313.0	2332.0	2373.2	2414.3	2459.7	2502.9	2547.3	2585.2	2615.9	2627.5
2337.3	10°	2349.9	2375.3	2433.3	2491.3	2551.5	2618.0	2674.9	2729.8	2773.1	2791.0
2377.4	12.5°	2396.4	2428.0	2504.0	2584.2	2667.6	2759.4	2833.2	2900.8	2954.6	2978.8
2433.3	15°	2456.5	2497.7	2594.7	2702.4	2824.8	2952.5	3046.4	3121.3	3181.4	3211.0
2491.3	17.5°	2521.9	2576.8	2699.2	2861.7	3036.9	3204.7	3314.4	3369.3	3431.5	3460.0
2545.2	20°	2585.2	2652.8	2827.9	3064.3	3297.5	3475.8	3564.5	3579.3	3583.5	3586.6
2595.8	22.5°	2650.7	2741.4	2989.4	3319.7	3569.8	3693.2	3705.9	3642.6	3553.9	3512.8
2645.4	25°	2722.4	2842.7	3200.4	3601.4	3804.0	3818.8	3721.7	3567.6	3399.9	3322.8
2685.5	27.5°	2792.1	2959.8	3453.7	3870.5	3972.8	3843.1	3634.1	3415.7	3213.1	3131.8
2714.0	30°	2861.7	3093.9	3733.3	4105.8	4049.9	3782.9	3495.9	3252.1	3048.5	2963.0
2739.3	32.5°	2932.4	3250.0	4055.1	4275.7	4036.2	3655.2	3323.9	3068.5	2889.1	2799.5
2761.5	35°	3012.6	3442.1	4360.1	4368.5	3944.4	3467.4	3097.0	2849.1	2692.9	2621.1
2787.8	37.5°	3117.1	3685.8	4629.2	4391.8	3784.0	3192.0	2815.3	2589.5	2460.7	2428.0
2826.9	40°	3246.9	3979.2	4834.9	4354.8	3546.5	2857.5	2507.2	2326.7	2253.9	2261.3
2879.7	42.5°	3415.7	4307.3	4979.5	4259.9	3216.3	2512.4	2237.0	2156.8	2191.7	2221.2
2958.8	45°	3635.2	4648.2	5069.2	4098.4	2842.7	2220.1	2077.7	2096.7	2123.1	2126.2
3086.5	47.5°	3915.9	4993.2	5128.3	3854.7	2461.8	2014.4	1976.4	1980.6	1975.3	1953.2
3277.5	50°	4266.2	5328.8	5181.1	3531.8	2137.8	1885.6	1835.0	1820.2	1747.4	1675.7
3531.8	52.5°	4665.1	5636.9	5203.2	3130.8	1885.6	1778.0	1695.7	1602.9	1466.7	1444.6
3851.5	55°	5108.2	5921.8	5146.2	2638.0	1673.6	1639.8	1515.3	1403.4	1388.6	1369.7
4272.5	57.5°	5638.0	6228.9	5030.2	2088.2	1456.2	1478.3	1357.0	1369.7	1343.3	1313.7
4813.8	60°	6217.3	6546.5	4826.5	1587.0	1231.4	1276.8	1315.8	1314.8	1307.4	1283.1
5384.7	62.5°	6738.5	6755.4	4425.5	1215.6	1034.1	1120.6	1227.2	1226.1	1219.8	1206.1
5980.9	65°	7048.8	6723.8	3756.5	957.1	871.6	991.9	1106.9	1115.4	1116.4	1115.4
6429.4	67.5°	6993.9	6353.4	2838.5	761.9	737.6	861.0	987.7	999.3	1007.7	1009.8
6486.3	70°	6373.4	5539.8	1850.8	607.8	618.3	746.0	874.8	886.4	893.8	902.2
5628.5	72.5°	4967.9	4073.1	1059.4	491.7	513.9	646.8	762.9	776.6	780.9	796.7
3916.9	75°	3027.4	2395.3	571.9	387.3	422.1	552.9	652.1	667.9	675.3	694.3
1923.6	77.5°	1439.3	1037.3	326.1	301.8	339.8	451.6	550.8	568.8	548.7	559.3
530.8	80°	486.4	385.1	205.8	230.0	259.6	352.4	441.1	459.0	416.8	414.7
176.2	82.5°	169.9	156.2	130.8	153.0	167.8	252.2	333.4	356.7	310.2	309.2
79.1	85°	66.5	63.3	72.8	83.4	100.2	155.1	219.5	231.1	191.0	154.1
23.2	87.5°	13.7	14.8	17.9	19.0	30.6	53.8	79.1	97.1	77.0	65.4
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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180°
2275.0
2360.5
2485.0
2628.5
2792.1
2978.8
3208.9
3459.0
3595.1
3524.4
3334.4
3141.3
2972.5
2811.1
2637.0
2451.2
2286.6
2248.6
2147.3
1970.1
1685.2
1452.0
1372.8
1308.5
1274.7
1200.8
1115.4
1011.9
906.4
803.0
696.4
550.8
410.5
294.4
151.9
60.1
0.0

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