

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: P848653

Luminaire Tested: **GLAN-SB5B-827-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848653
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-SB5B-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 22481 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

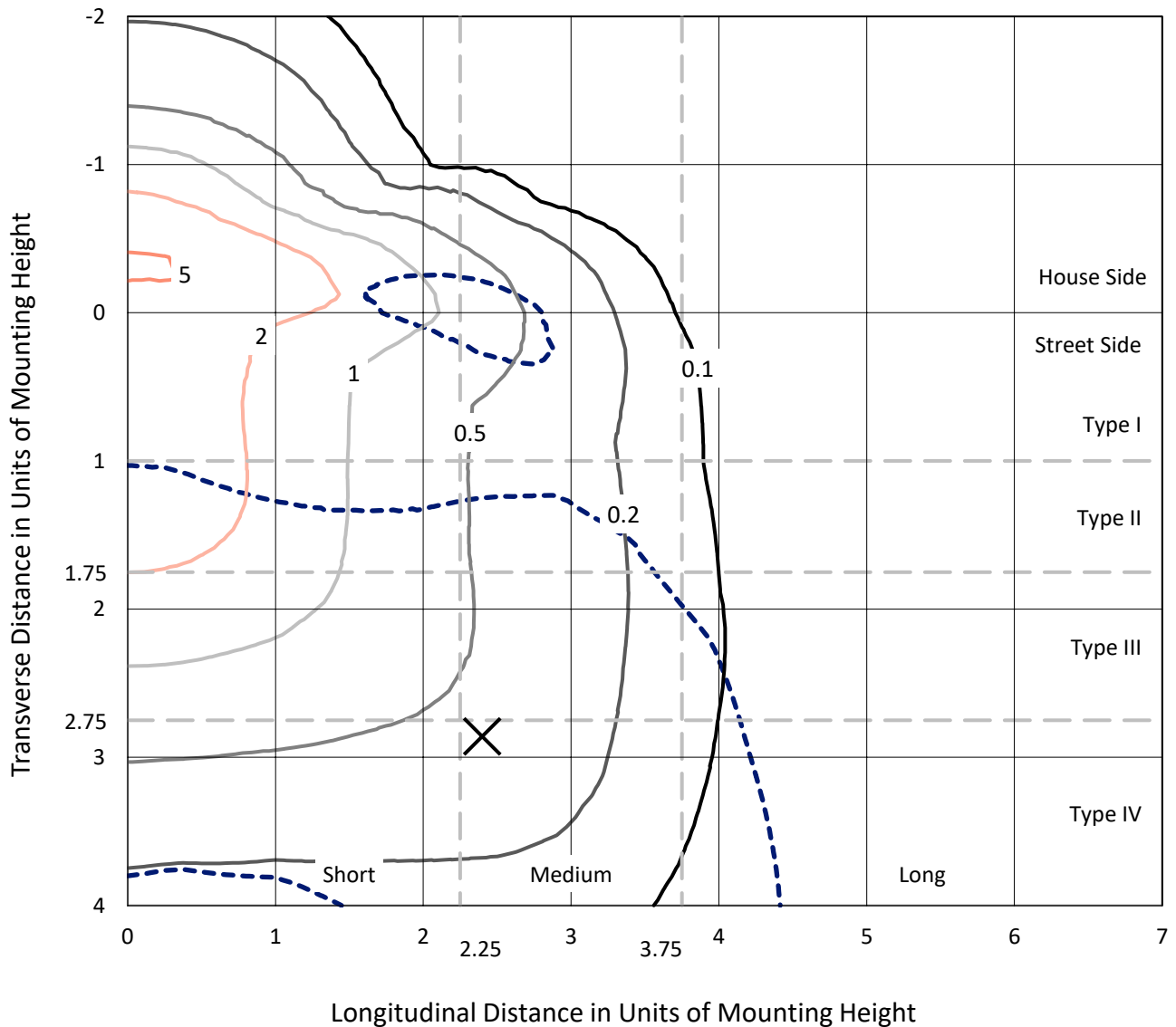
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

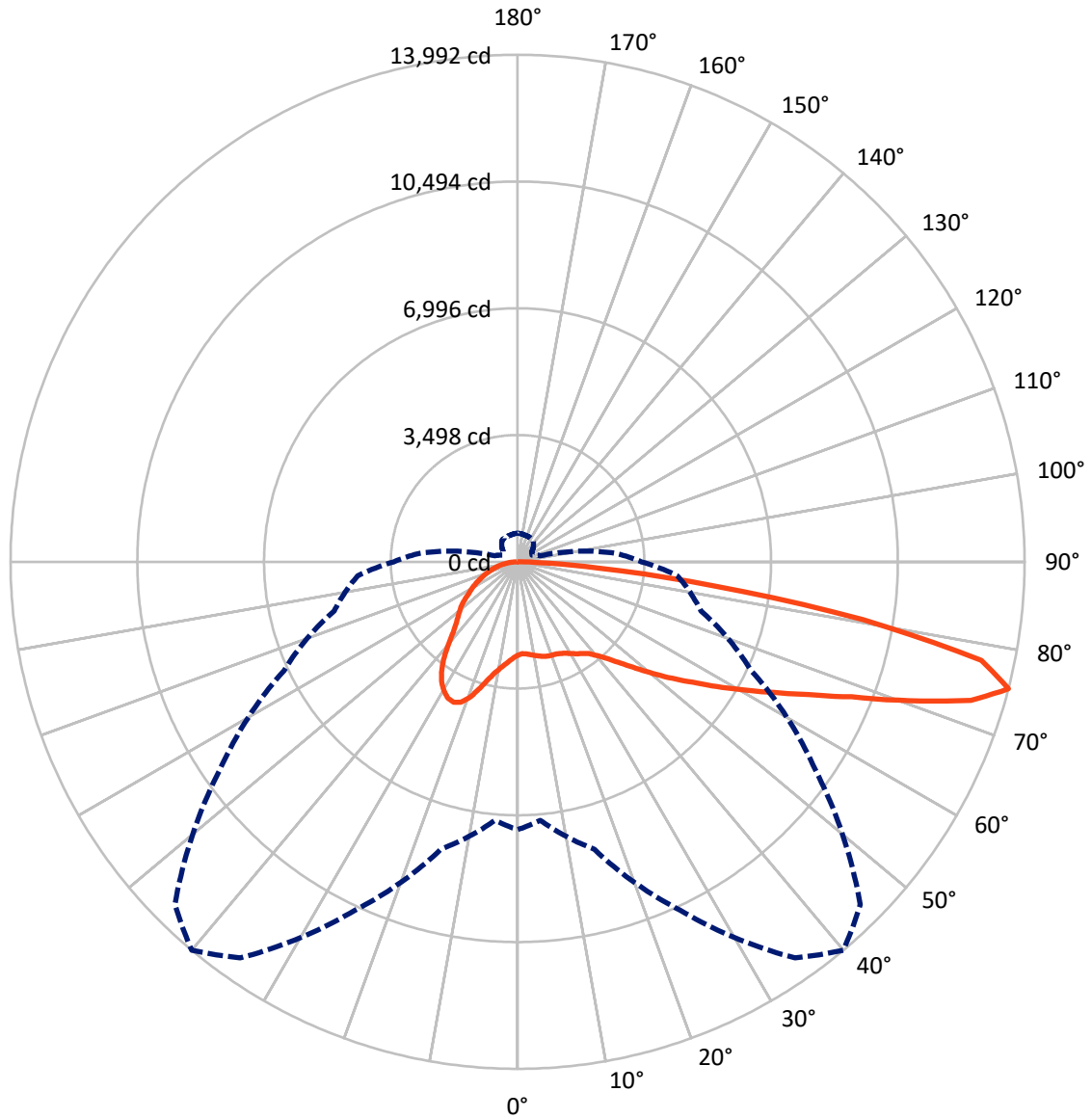
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	6965.4	0.0	6965.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15515.6	0.0	15515.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	22481.0	0.0	22481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	1.1
10°-20°	861.6	3.8
20°-30°	1573.1	7.0
30°-40°	2231.1	9.9
40°-50°	3012.7	13.4
50°-60°	4052.9	18.0
60°-70°	5144.0	22.9
70°-80°	4668.5	20.8
80°-90°	680.5	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°	22481.0	100.0
0°-180°	22481.0	100.0

Coefficient of Utilization

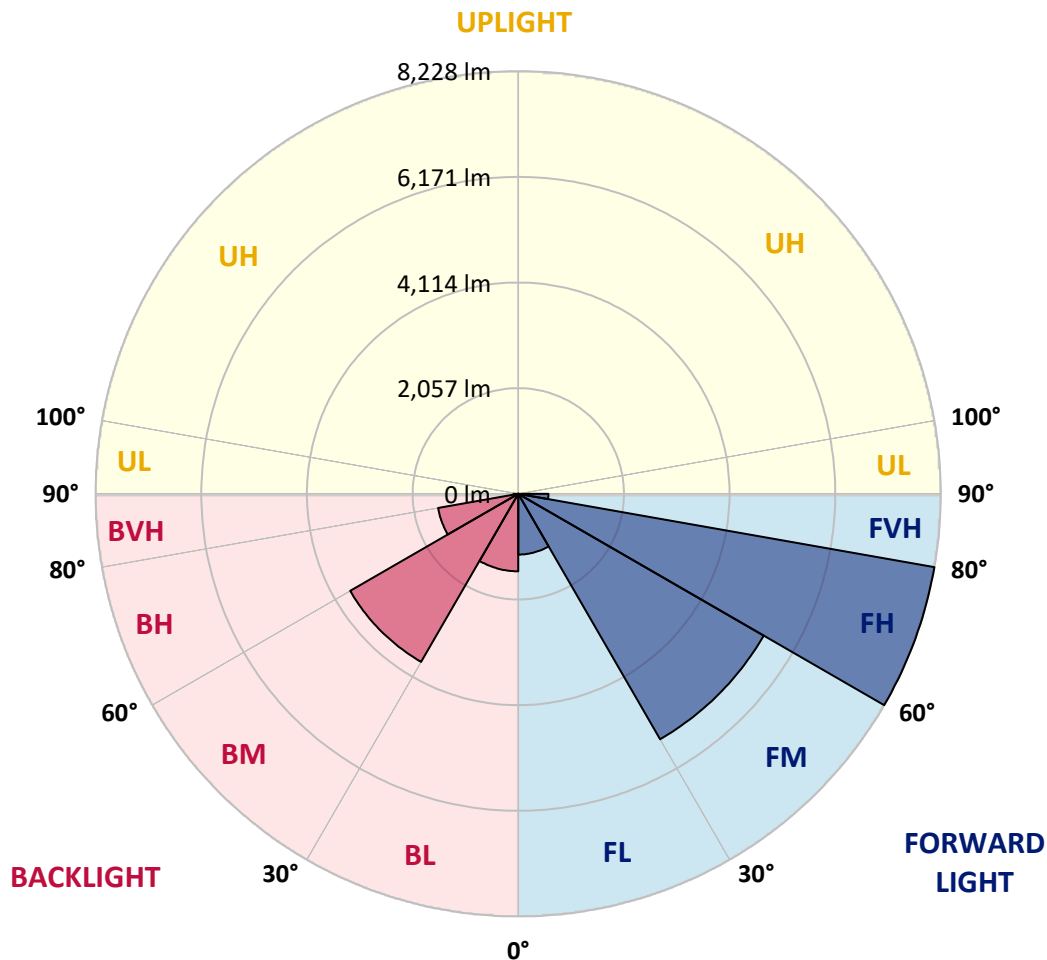


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.5	5.3			
FM (30°-60°)	5518.6	24.5			
FH (60°-80°)	8227.7	36.6			G4/12000
FVH (80°-90°)	586.8	2.6			G4/750
BL (0°-30°)	1508.8	6.7	B3/2500		
BM (30°-60°)	3778.1	16.8	B3/5000		
BH (60°-80°)	1584.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	93.7	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°	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
2.5°	2531.4	2545.7	2542.1	2537.3	2537.3	2538.5	2537.3	2545.7	2554.0	2562.4
5°	2557.6	2571.9	2564.8	2558.8	2554.0	2552.8	2549.3	2548.1	2552.8	2563.6
7.5°	2608.9	2623.2	2612.5	2601.7	2592.2	2587.4	2582.7	2575.5	2571.9	2577.9
10°	2666.1	2680.4	2667.3	2648.2	2632.7	2626.8	2622.0	2614.8	2610.1	2613.7
12.5°	2723.4	2737.7	2719.8	2693.5	2673.3	2669.7	2663.7	2661.4	2660.2	2659.0
15°	2777.0	2788.9	2766.3	2735.3	2713.8	2707.9	2701.9	2705.5	2711.4	2718.6
17.5°	2818.7	2830.7	2797.3	2756.7	2736.5	2734.1	2730.5	2742.4	2759.1	2777.0
20°	2856.9	2868.8	2825.9	2771.0	2747.2	2747.2	2748.4	2773.4	2797.3	2823.5
22.5°	2910.6	2920.1	2867.6	2792.5	2757.9	2760.3	2769.9	2794.9	2824.7	2860.5
25°	2990.4	2997.6	2933.2	2833.1	2793.7	2800.9	2809.2	2821.1	2849.7	2891.5
27.5°	3119.2	3125.2	3040.5	2904.6	2845.0	2856.9	2868.8	2860.5	2873.6	2909.4
30°	3300.5	3304.0	3196.7	3016.7	2932.0	2938.0	2940.4	2905.8	2880.7	2909.4
32.5°	3515.1	3513.9	3386.3	3152.6	3031.0	3025.0	3004.8	2936.8	2878.4	2903.4
35°	3847.8	3834.6	3670.1	3343.4	3143.1	3106.1	3058.4	2971.4	2890.3	2897.4
37.5°	4398.6	4358.1	4130.3	3655.8	3310.0	3215.8	3145.5	3027.4	2916.5	2895.1
40°	5019.8	4968.6	4718.2	4083.8	3560.4	3409.0	3295.7	3107.3	2959.4	2905.8
42.5°	5756.7	5684.0	5414.5	4588.2	3877.6	3658.2	3487.7	3208.6	3022.6	2940.4
45°	6661.7	6565.1	6183.6	5157.0	4277.0	3984.9	3757.1	3362.5	3119.2	3007.1
47.5°	7576.3	7600.1	7057.6	5808.0	4756.3	4387.9	4094.6	3593.8	3259.9	3114.4
50°	8548.0	8564.7	7926.8	6529.4	5300.0	4843.4	4473.7	3852.5	3455.5	3267.1
52.5°	9306.4	9308.8	8716.2	7284.1	5866.4	5344.2	4882.7	4148.2	3682.0	3469.8
55°	9780.9	9775.0	9269.4	7998.4	6517.5	5870.0	5335.8	4484.5	3958.6	3708.2
57.5°	10125.5	10107.7	9651.0	8612.4	7211.4	6491.2	5848.5	4866.0	4285.3	3992.0
60°	10256.7	10246.0	9909.7	9143.0	7941.1	7178.0	6439.9	5292.9	4656.2	4327.1
62.5°	10306.8	10327.0	10163.7	9656.9	8722.1	7938.7	7089.8	5803.2	5073.5	4706.3
65°	10483.2	10520.2	10486.8	10329.4	9604.5	8829.4	7951.9	6410.1	5529.0	5112.8
67.5°	10832.6	10869.6	10883.9	11134.3	10682.4	9939.5	9027.4	7166.1	6062.0	5534.9
70°	10824.3	10813.5	11066.3	11774.6	12032.1	11476.5	10477.3	8096.1	6697.5	5885.5
72.5°	9852.5	9766.6	10364.0	11767.4	13155.3	13081.4	12247.9	9295.7	7246.0	5928.4
75°	7391.5	7162.5	8217.8	10604.9	13342.5	13992.4	13373.5	10039.7	7116.0	5238.0
77.5°	3161.0	2930.8	4174.5	7850.5	11941.5	13080.2	12340.9	8759.1	5680.4	3463.8
80°	827.5	826.3	1261.5	3559.2	8121.2	9659.3	8474.1	5656.6	3245.6	1237.7
82.5°	342.2	333.9	463.8	1384.3	3968.2	5420.5	4423.7	2523.0	1172.1	335.1
85°	127.6	126.4	225.4	478.1	1399.8	2235.7	1618.0	645.1	292.1	163.4
87.5°	35.8	34.6	48.9	165.7	341.0	517.5	276.6	106.1	82.3	64.4
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°
2570.7	0°	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
2575.5	2.5°	2579.1	2585.0	2595.8	2604.1	2614.8	2626.8	2643.5	2654.2	2664.9	2672.1
2581.5	5°	2589.8	2602.9	2630.4	2657.8	2690.0	2719.8	2754.4	2779.4	2799.7	2805.6
2602.9	7.5°	2613.7	2635.1	2681.6	2728.1	2779.4	2828.3	2878.4	2921.3	2955.9	2969.0
2641.1	10°	2655.4	2684.0	2749.6	2815.2	2883.1	2958.2	3022.6	3084.6	3133.5	3153.8
2686.4	12.5°	2707.9	2743.6	2829.5	2920.1	3014.3	3118.0	3201.5	3277.8	3338.6	3366.0
2749.6	15°	2775.8	2822.3	2932.0	3053.6	3192.0	3336.2	3442.3	3527.0	3595.0	3628.4
2815.2	17.5°	2849.7	2911.7	3050.1	3233.7	3431.6	3621.2	3745.2	3807.2	3877.6	3909.8
2876.0	20°	2921.3	2997.6	3195.5	3462.6	3726.1	3927.6	4027.8	4044.5	4049.3	4052.8
2933.2	22.5°	2995.2	3097.8	3378.0	3751.2	4033.8	4173.3	4187.6	4116.0	4015.9	3969.4
2989.3	25°	3076.3	3212.2	3616.4	4069.5	4298.5	4315.2	4205.5	4031.4	3841.8	3754.7
3034.6	27.5°	3155.0	3344.6	3902.6	4373.6	4489.2	4342.6	4106.5	3859.7	3630.7	3538.9
3066.8	30°	3233.7	3496.0	4218.6	4639.5	4576.3	4274.6	3950.3	3674.9	3444.7	3348.2
3095.4	32.5°	3313.6	3672.5	4582.2	4831.5	4560.8	4130.3	3755.9	3467.4	3264.7	3163.3
3120.4	35°	3404.2	3889.5	4926.8	4936.4	4457.0	3918.1	3499.6	3219.4	3042.9	2961.8
3150.2	37.5°	3522.2	4164.9	5230.9	4962.6	4275.8	3606.9	3181.2	2926.1	2780.6	2743.6
3194.3	40°	3668.9	4496.4	5463.4	4920.9	4007.5	3228.9	2833.1	2629.2	2546.9	2555.2
3254.0	42.5°	3859.7	4867.2	5626.8	4813.6	3634.3	2839.0	2527.8	2437.2	2476.5	2509.9
3343.4	45°	4107.7	5252.4	5728.1	4631.1	3212.2	2508.7	2347.8	2369.2	2399.0	2402.6
3487.7	47.5°	4424.9	5642.3	5794.9	4355.7	2781.8	2276.2	2233.3	2238.1	2232.1	2207.1
3703.5	50°	4820.7	6021.4	5854.5	3990.8	2415.7	2130.8	2073.5	2056.8	1974.6	1893.5
3990.8	52.5°	5271.4	6369.6	5879.5	3537.7	2130.8	2009.1	1916.1	1811.2	1657.4	1632.3
4352.1	55°	5772.2	6691.5	5815.1	2980.9	1891.1	1852.9	1712.2	1585.8	1569.1	1547.7
4827.9	57.5°	6370.8	7038.5	5684.0	2359.7	1645.5	1670.5	1533.4	1547.7	1517.9	1484.5
5439.6	60°	7025.4	7397.4	5453.9	1793.3	1391.5	1442.8	1486.9	1485.7	1477.3	1449.9
6084.6	62.5°	7614.4	7633.5	5000.8	1373.6	1168.5	1266.3	1386.7	1385.5	1378.4	1362.9
6758.3	65°	7965.0	7597.7	4244.8	1081.5	984.9	1120.8	1250.8	1260.3	1261.5	1260.3
7265.1	67.5°	7903.0	7179.2	3207.5	860.9	833.5	973.0	1116.1	1129.2	1138.7	1141.1
7329.4	70°	7201.9	6259.9	2091.4	686.8	698.7	843.0	988.5	1001.6	1009.9	1019.5
6360.1	72.5°	5613.6	4602.5	1197.1	555.6	580.7	730.9	862.1	877.6	882.3	900.2
4426.0	75°	3420.9	2706.7	646.3	437.6	476.9	624.8	736.9	754.8	763.1	784.6
2173.7	77.5°	1626.4	1172.1	368.4	341.0	383.9	510.3	622.4	642.7	620.0	632.0
599.8	80°	549.7	435.2	232.5	259.9	293.3	398.2	498.4	518.7	471.0	468.6
199.1	82.5°	192.0	176.5	147.9	172.9	189.6	285.0	376.8	403.0	350.6	349.4
89.4	85°	75.1	71.5	82.3	94.2	113.3	175.3	248.0	261.1	215.8	174.1
26.2	87.5°	15.5	16.7	20.3	21.5	34.6	60.8	89.4	109.7	87.0	73.9
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°
2570.7
2667.3
2808.0
2970.2
3155.0
3366.0
3626.0
3908.6
4062.4
3982.5
3767.9
3549.7
3358.9
3176.5
2979.7
2769.9
2583.8
2540.9
2426.5
2226.1
1904.2
1640.7
1551.3
1478.5
1440.4
1356.9
1260.3
1143.5
1024.2
907.4
787.0
622.4
463.8
332.7
171.7
68.0
0.0

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