

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: P955096

Luminaire Tested: **GALN-SB8A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22666 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

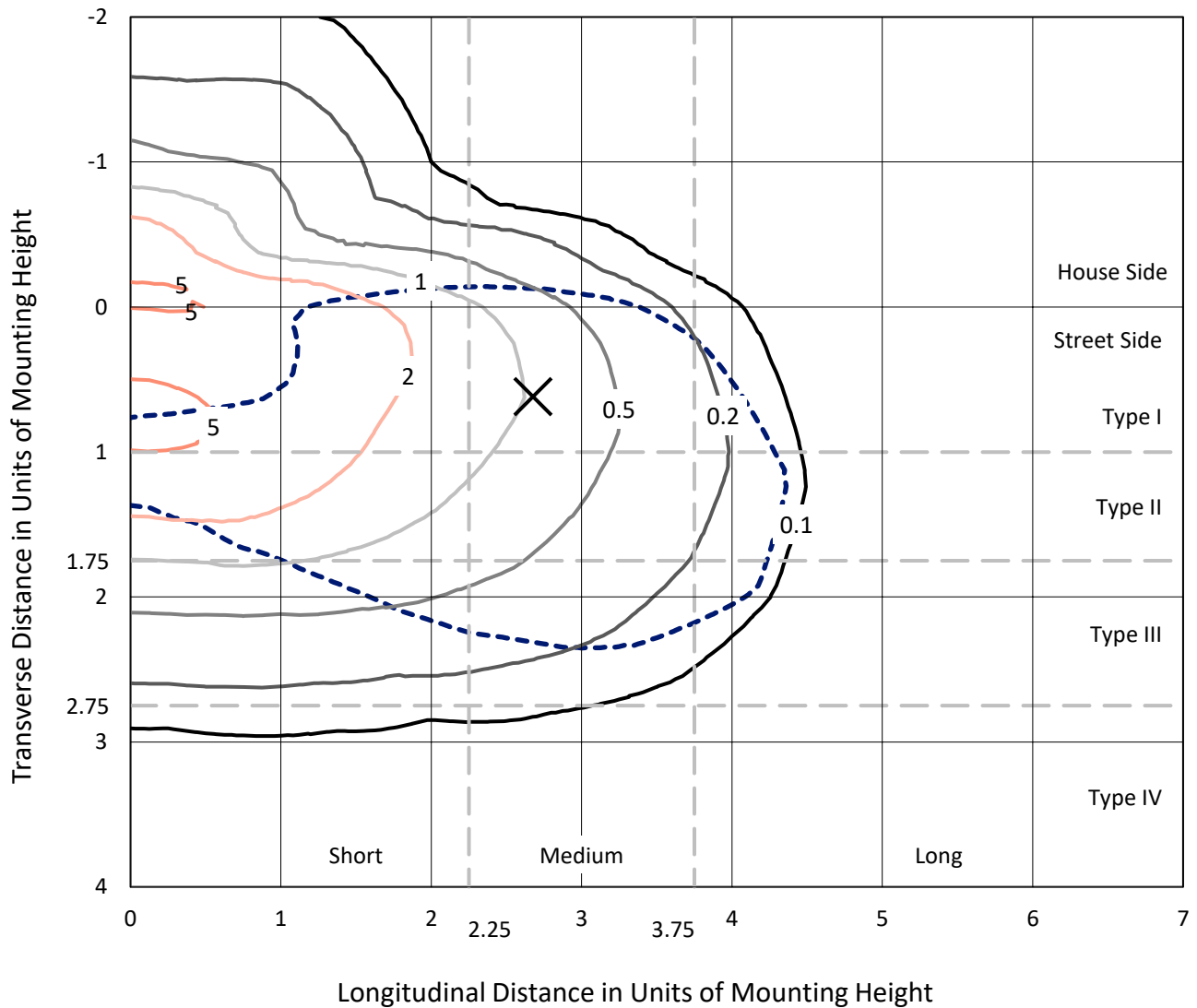
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

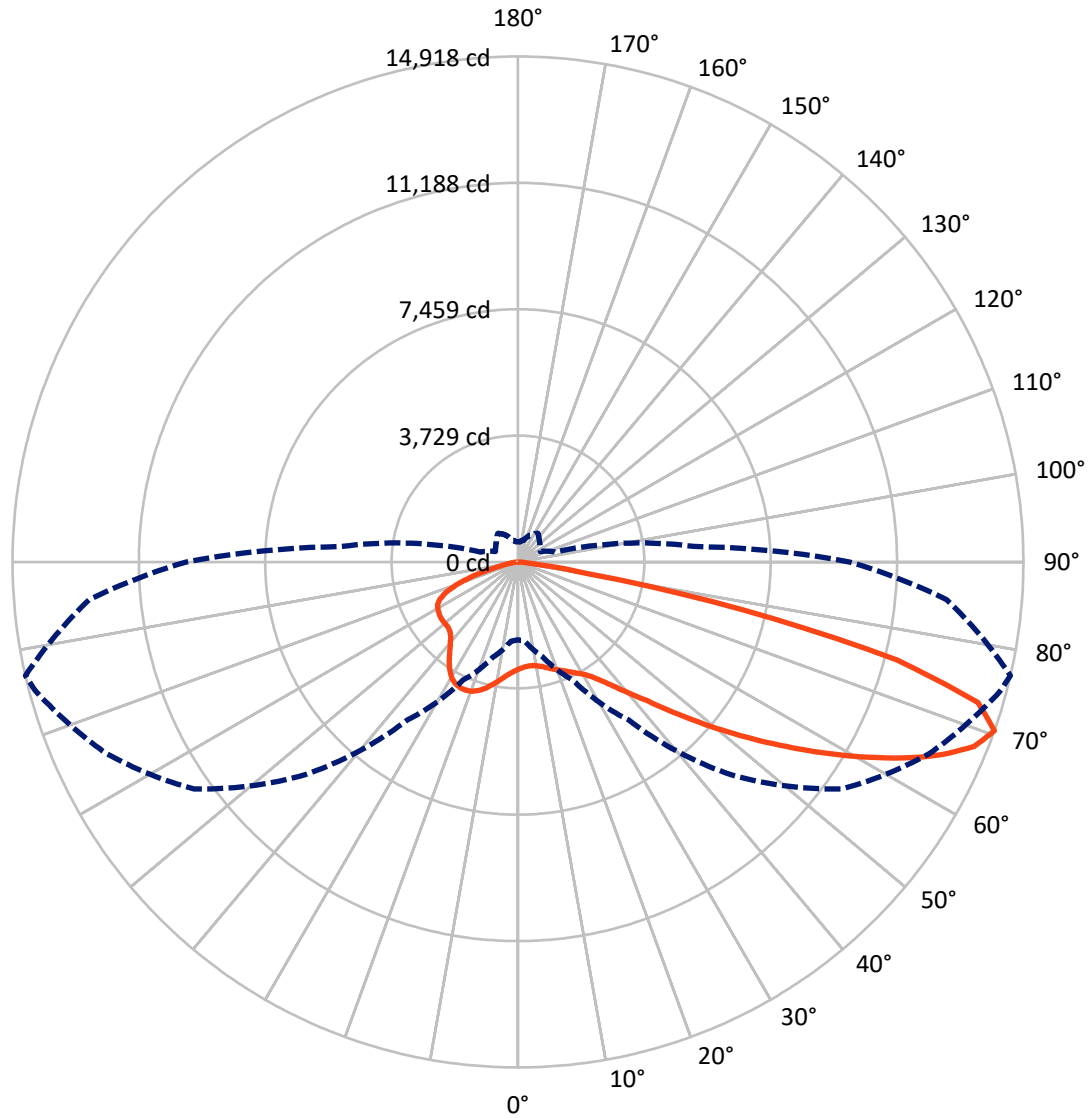
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4963.5	0.0	4963.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17702.5	0.0	17702.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	22666.0	0.0	22666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	1.3
10°-20°	870.4	3.8
20°-30°	1488.5	6.6
30°-40°	2393.6	10.6
40°-50°	3737.1	16.5
50°-60°	4991.9	22.0
60°-70°	5320.6	23.5
70°-80°	3275.3	14.5
80°-90°	287.0	1.3
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°	22666.0	100.0
0°-180°	22666.0	100.0

Coefficient of Utilization



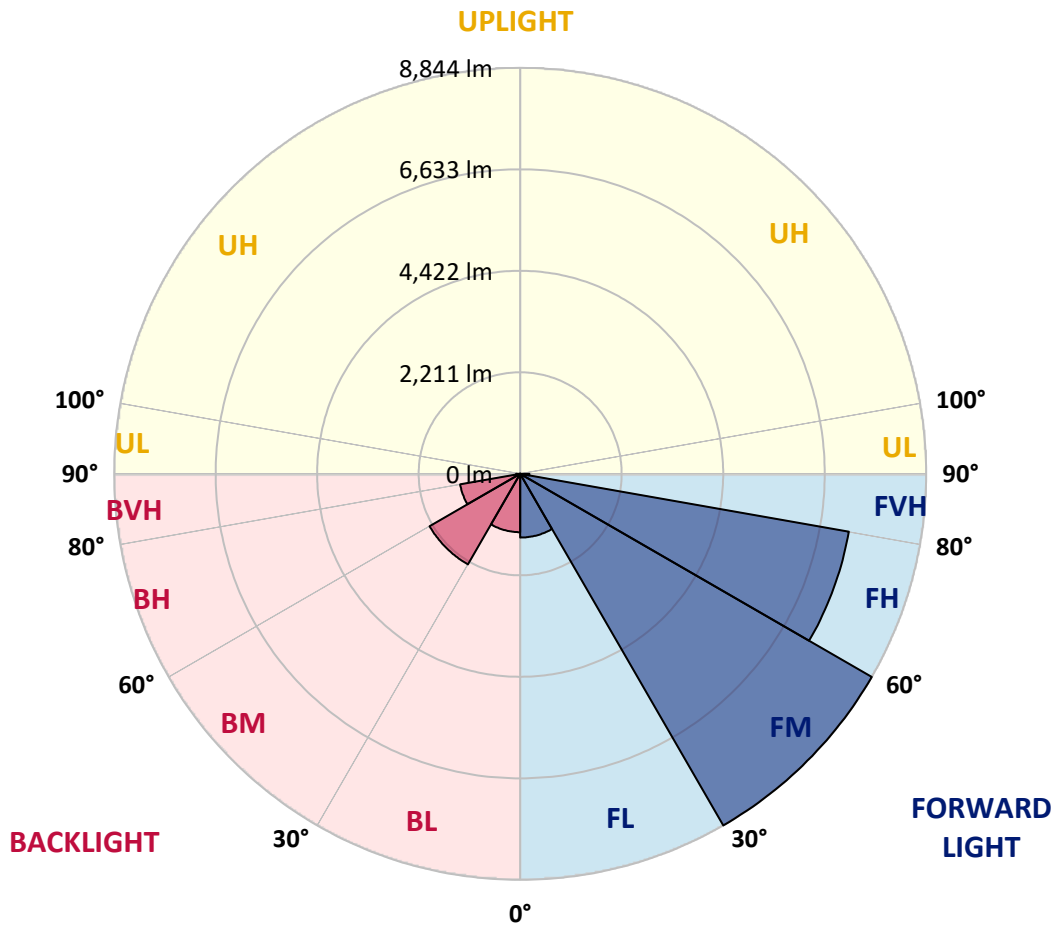
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.7	6.1			
FM (30°-60°)	8843.8	39.0			
FH (60°-80°)	7269.4	32.1			G3/7500
FVH (80°-90°)	200.7	0.9			G2/225
BL (0°-30°)	1271.8	5.6	B3/2500		
BM (30°-60°)	2278.9	10.1	B2/2500		
BH (60°-80°)	1326.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	86.3	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1
2.5°	2914.9	2913.7	2928.8	2933.4	2961.3	2981.0	3018.2	3057.6	3108.7	3114.5
5°	2746.5	2746.5	2763.9	2782.5	2818.5	2858.0	2914.9	2983.3	3071.6	3085.5
7.5°	2603.8	2613.0	2628.1	2664.1	2705.9	2762.8	2849.8	2947.4	3063.4	3085.5
10°	2488.8	2499.3	2517.9	2546.9	2609.6	2688.5	2802.3	2927.6	3083.2	3118.0
12.5°	2452.8	2463.3	2473.7	2495.8	2553.8	2646.7	2782.5	2936.9	3130.8	3165.6
15°	2536.4	2549.2	2541.1	2535.3	2565.4	2650.2	2791.8	2970.6	3190.0	3239.9
17.5°	2729.1	2733.8	2715.2	2660.6	2656.0	2701.3	2835.9	3017.0	3264.3	3318.8
20°	3040.2	3032.1	2993.8	2885.8	2824.3	2815.0	2911.4	3086.7	3340.9	3398.9
22.5°	3462.8	3453.5	3376.9	3206.2	3069.2	2978.7	3020.5	3177.2	3426.8	3491.8
25°	3989.8	3977.0	3864.4	3632.3	3419.8	3195.8	3169.1	3296.8	3532.4	3592.8
27.5°	4605.0	4594.6	4472.7	4166.2	3859.8	3493.0	3353.7	3437.2	3642.7	3711.2
30°	5266.7	5296.9	5081.0	4751.3	4363.6	3880.7	3602.1	3610.2	3785.5	3847.0
32.5°	6044.5	6096.7	5836.7	5418.8	4889.4	4302.1	3915.5	3851.6	3993.3	4044.3
35°	6815.3	6874.5	6658.5	6196.5	5587.1	4798.9	4242.9	4129.1	4269.6	4325.3
37.5°	7481.6	7560.5	7449.1	7047.4	6333.5	5397.9	4670.0	4455.3	4609.7	4679.3
40°	8007.4	8128.2	8120.0	7869.3	7213.4	6124.6	5212.1	4858.1	5032.2	5107.7
42.5°	8434.6	8539.1	8629.6	8616.9	8131.6	6949.9	5849.4	5381.6	5514.0	5601.0
45°	8729.5	8840.9	9035.9	9246.0	9015.0	7833.3	6579.6	6002.7	6123.4	6254.6
47.5°	8993.0	9119.5	9372.6	9705.7	9764.9	8720.2	7379.4	6725.9	6836.2	6972.0
50°	9016.2	9125.3	9517.7	9990.1	10297.8	9572.2	8238.4	7537.3	7640.6	7785.7
52.5°	8455.5	8627.3	9312.2	9982.0	10542.7	10285.0	9091.7	8381.2	8497.3	8671.4
55°	6563.4	6815.3	8709.7	9670.9	10455.6	10745.8	9903.1	9278.6	9427.1	9609.4
57.5°	5653.3	5763.5	6913.9	9104.4	10058.6	10865.4	10588.0	10185.2	10424.3	10624.0
60°	5081.0	5172.7	5852.9	8223.4	9536.3	10676.2	11117.3	11030.3	11443.5	11681.5
62.5°	4468.1	4555.1	5173.8	6866.3	8867.6	10361.6	11451.6	11810.3	12488.3	12748.3
65°	3859.8	3934.1	4527.3	5769.3	8017.9	10047.0	11624.6	12484.8	13455.2	13724.5
67.5°	3181.8	3243.4	3804.1	4867.4	6984.7	9616.4	11710.5	13015.3	14296.8	14527.8
70°	2296.1	2343.7	2923.0	3849.3	5688.1	8875.7	11675.7	13391.4	14733.3	14917.9
72.5°	1085.4	1128.3	1808.6	2499.3	4017.6	7434.0	10971.0	13093.1	14289.9	14198.2
75°	579.3	616.4	1038.9	1370.9	2122.0	5096.1	8977.9	11278.7	11999.5	11553.8
77.5°	392.4	421.4	643.1	823.0	969.3	2419.2	5770.5	7808.9	7512.9	6777.0
80°	311.1	341.3	527.0	557.2	469.0	874.1	2384.4	3614.8	2596.8	2076.7
82.5°	239.1	272.8	443.4	404.0	255.4	358.7	694.2	1143.4	665.2	506.1
85°	146.3	182.3	348.3	257.7	143.9	163.7	235.6	318.1	203.1	169.5
87.5°	74.3	104.5	176.4	94.0	65.0	38.3	62.7	62.7	53.4	46.4
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°
3162.1	0°	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1	3162.1
3145.9	2.5°	3173.7	3196.9	3236.4	3273.6	3302.6	3330.4	3358.3	3373.4	3378.0	3396.6
3163.3	5°	3210.9	3253.8	3330.4	3402.4	3447.7	3475.5	3495.3	3506.9	3509.2	3515.0
3210.9	7.5°	3279.4	3347.8	3454.6	3526.6	3560.3	3558.0	3549.8	3520.8	3509.2	3498.8
3280.5	10°	3375.7	3466.3	3597.4	3647.3	3626.4	3570.7	3498.8	3414.0	3374.5	3336.2
3375.7	12.5°	3495.3	3610.2	3739.0	3736.7	3633.4	3490.6	3323.5	3193.5	3111.0	3051.8
3493.0	15°	3640.4	3772.7	3871.4	3792.4	3566.1	3309.5	3064.6	2895.1	2820.8	2755.8
3611.4	17.5°	3790.1	3931.7	3977.0	3775.0	3396.6	3041.4	2763.9	2630.5	2557.3	2522.5
3739.0	20°	3936.4	4076.9	4039.7	3675.2	3138.9	2737.2	2490.0	2416.9	2401.8	2409.9
3863.3	22.5°	4090.8	4216.2	4052.5	3482.5	2810.4	2426.1	2290.3	2292.6	2326.3	2350.7
3993.3	25°	4248.7	4333.4	4018.8	3203.9	2457.5	2197.5	2163.8	2200.9	2267.1	2314.7
4139.5	27.5°	4400.7	4437.9	3945.7	2859.1	2154.5	2033.8	2039.6	2116.2	2216.0	2282.2
4317.1	30°	4572.5	4530.7	3805.2	2471.4	1944.4	1893.3	1942.1	2031.5	2131.3	2190.5
4541.2	32.5°	4766.4	4610.8	3582.3	2112.7	1795.8	1780.7	1860.8	1918.9	1963.0	1980.4
4838.4	35°	5007.8	4723.4	3296.8	1860.8	1662.3	1698.3	1774.9	1745.9	1728.5	1719.2
5237.7	37.5°	5321.3	4875.5	2962.5	1697.1	1554.4	1639.1	1670.4	1579.9	1511.4	1477.7
5721.8	40°	5698.5	5098.4	2640.9	1570.6	1485.9	1588.0	1533.5	1424.3	1337.3	1289.7
6266.2	42.5°	6117.6	5331.7	2370.4	1475.4	1447.6	1546.2	1432.5	1302.5	1162.0	1146.9
6915.1	45°	6557.6	5572.0	2185.9	1402.3	1429.0	1510.2	1374.4	1164.3	1064.5	1126.0
7566.3	47.5°	6997.5	5792.6	2074.4	1347.7	1419.7	1469.6	1323.4	1087.7	1016.9	1106.3
8264.0	50°	7487.4	5989.9	2024.5	1308.3	1409.3	1453.4	1246.7	1068.0	967.0	1026.2
8986.0	52.5°	7973.8	6143.1	1987.3	1268.8	1394.2	1440.6	1209.6	1044.8	906.6	910.1
9712.7	55°	8459.0	6243.0	1946.7	1216.6	1360.5	1412.7	1206.1	1019.2	861.3	845.1
10481.2	57.5°	8976.7	6299.9	1896.8	1158.5	1302.5	1341.9	1202.6	999.5	847.4	820.7
11267.1	60°	9503.8	6383.4	1831.8	1087.7	1224.7	1257.2	1194.5	992.5	839.3	794.0
12007.7	62.5°	9976.2	6412.5	1754.0	1020.4	1124.8	1173.6	1177.1	986.7	817.2	739.5
12622.9	65°	10286.2	6287.1	1618.2	943.8	1016.9	1087.7	1143.4	967.0	777.8	700.0
12927.1	67.5°	10273.4	5929.5	1405.8	845.1	912.4	992.5	1094.7	933.3	730.2	651.2
12697.2	70°	9795.1	5223.8	1136.5	730.2	797.5	890.4	1032.0	883.4	673.3	597.8
11290.3	72.5°	8401.0	4088.5	825.4	595.5	664.0	784.7	950.7	823.0	615.2	550.2
8344.1	75°	6001.5	2587.5	559.5	457.4	516.6	665.2	849.7	752.2	561.8	552.6
4179.0	77.5°	3065.8	1236.3	370.3	334.3	359.9	524.7	713.9	672.1	570.0	456.2
1188.7	80°	997.2	456.2	233.3	227.5	239.1	349.4	552.6	551.4	431.8	309.9
287.9	82.5°	318.1	196.2	152.1	146.3	140.5	219.4	385.4	436.5	291.4	196.2
103.3	85°	126.5	117.2	89.4	82.4	59.2	103.3	202.0	290.2	217.1	141.6
26.7	87.5°	46.4	46.4	24.4	17.4	12.8	34.8	54.6	87.1	124.2	73.1
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>
3162.1
3407.0
3524.3
3501.1
3324.6
3037.9
2748.9
2532.9
2406.4
2356.5
2327.5
2298.5
2204.4
1989.7
1728.5
1485.9
1293.2
1162.0
1158.5
1148.1
1070.3
934.5
856.7
824.2
797.5
739.5
700.0
654.7
604.8
546.8
521.2
406.3
274.0
195.0
145.1
72.0
0.0

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