

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: P942915

Luminaire Tested: **GALN-SB7A-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
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-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19240 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

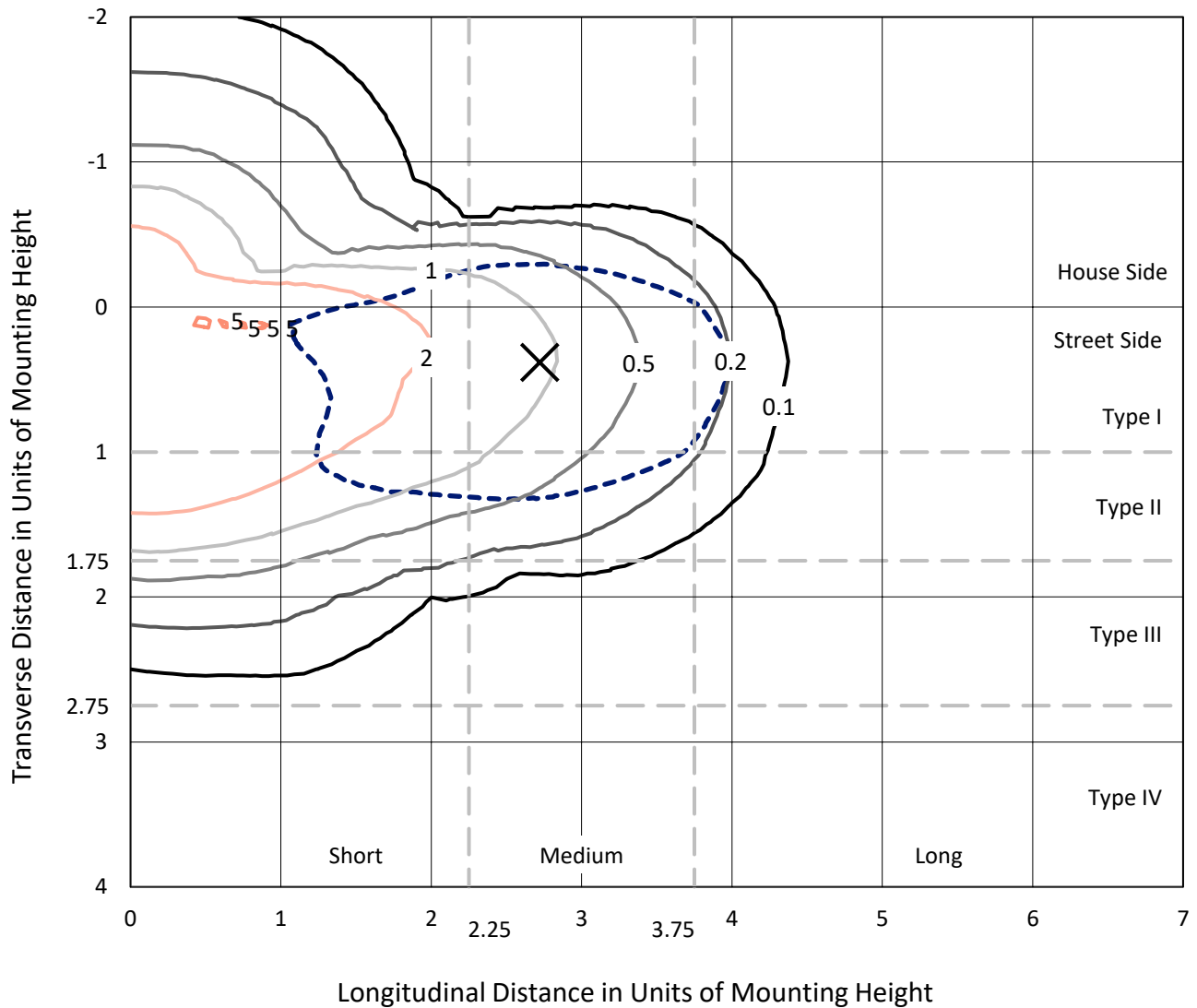
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P942915  
 CATALOG NUMBER: GALN-SB7A-927-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

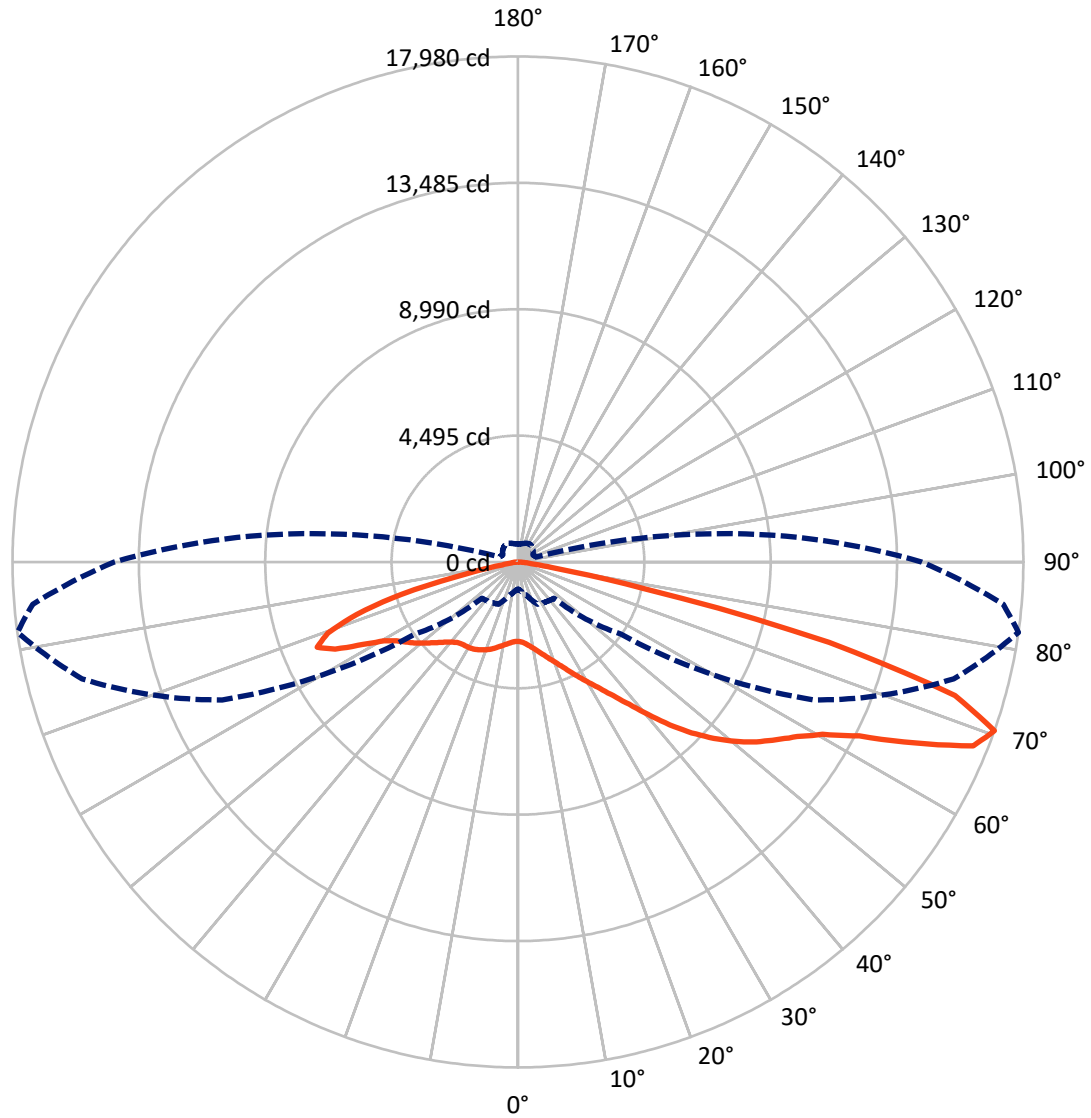
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P942915  
CATALOG NUMBER: GALN-SB7A-927-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P942915  
 CATALOG NUMBER: GALN-SB7A-927-U-T2

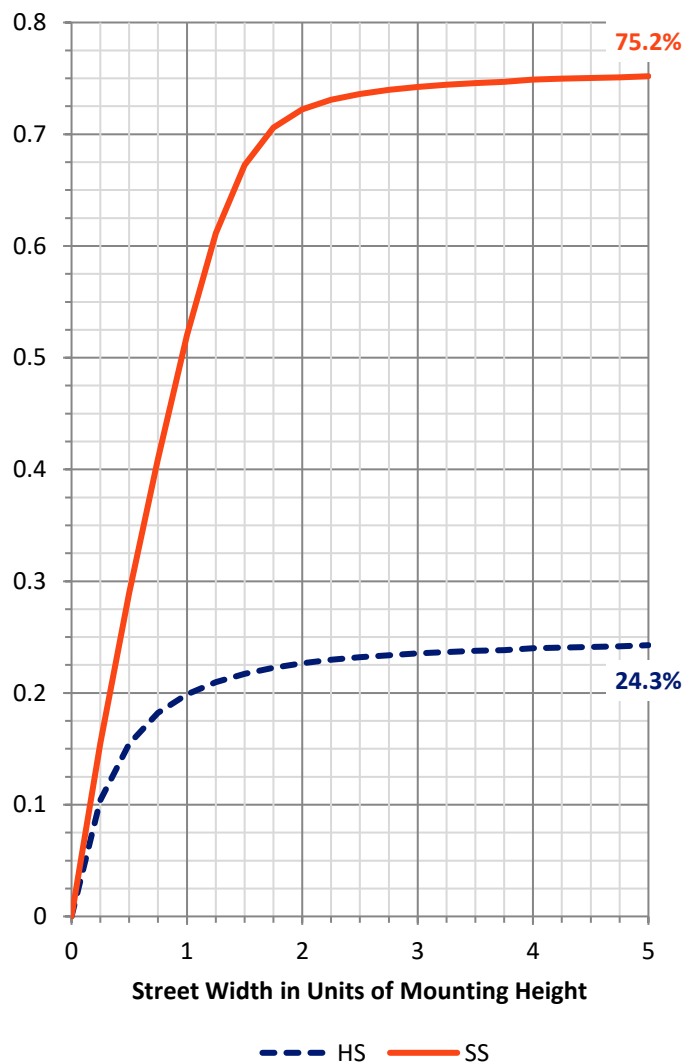
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4743.1	0.0	4743.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	14496.9	0.0	14496.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	19240.0	0.0	19240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.3	1.4
10°-20°	765.2	4.0
20°-30°	1280.1	6.7
30°-40°	1999.8	10.4
40°-50°	3185.0	16.6
50°-60°	4432.3	23.0
60°-70°	4636.4	24.1
70°-80°	2423.2	12.6
80°-90°	251.6	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°	19240.0	100.0
0°-180°	19240.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942915

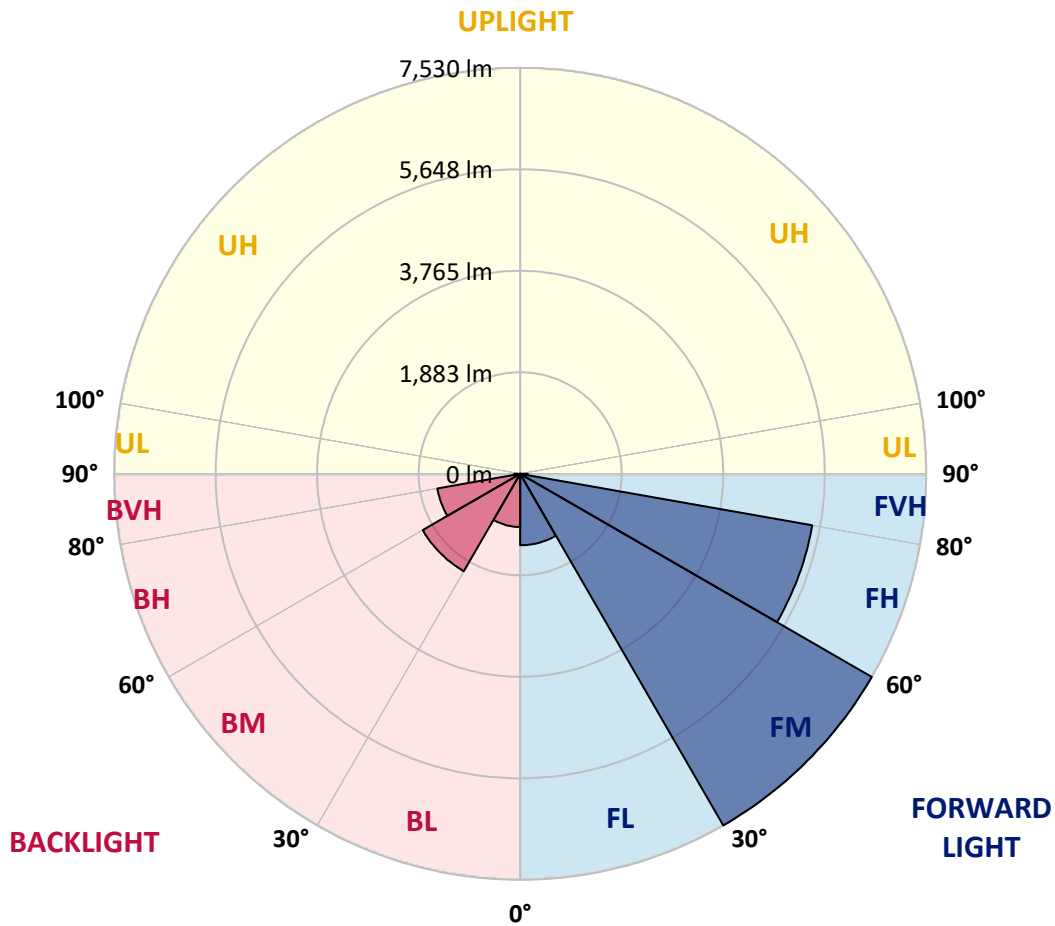
CATALOG NUMBER: GALN-SB7A-927-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.9	6.9			
FM (30°-60°)	7530.3	39.1			
FH (60°-80°)	5500.8	28.6			G3/7500
FVH (80°-90°)	140.9	0.7			G2/225
BL (0°-30°)	986.7	5.1	B2/1000		
BM (30°-60°)	2086.8	10.8	B2/2500		
BH (60°-80°)	1558.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	110.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



REPORT NUMBER: P942915

CATALOG NUMBER: GALN-SB7A-927-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8
2.5°	2888.2	2904.5	2899.4	2894.3	2894.3	2887.2	2886.2	2876.0	2867.8	2854.5
5°	2925.0	2942.3	2940.3	2944.4	2957.6	2960.7	2963.8	2957.6	2941.3	2925.0
7.5°	2892.3	2911.7	2917.8	2942.3	2983.2	3019.9	3047.5	3058.7	3043.4	3019.9
10°	2782.0	2803.5	2824.9	2883.1	2955.6	3042.4	3115.9	3159.8	3156.7	3134.2
12.5°	2558.4	2580.9	2626.8	2740.2	2872.9	3026.0	3162.8	3254.7	3286.4	3270.0
15°	2379.8	2399.2	2433.9	2550.3	2722.8	2955.6	3180.2	3358.9	3439.5	3430.3
17.5°	2374.7	2382.8	2404.3	2459.4	2592.1	2845.3	3161.8	3460.9	3615.1	3614.1
20°	2464.5	2467.6	2479.8	2491.1	2566.6	2761.6	3114.9	3545.7	3812.1	3812.1
22.5°	2589.1	2587.0	2599.3	2589.1	2625.8	2754.5	3085.2	3620.2	4031.6	4048.0
25°	2775.9	2765.7	2762.6	2739.2	2746.3	2820.8	3117.9	3704.9	4292.0	4325.7
27.5°	3025.0	3008.7	2997.4	2943.3	2925.0	2957.6	3218.0	3807.0	4581.9	4640.1
30°	3349.7	3320.1	3303.7	3209.8	3143.4	3148.5	3369.1	3942.8	4885.1	4979.1
32.5°	3792.7	3746.8	3702.9	3548.7	3427.3	3387.4	3564.1	4130.7	5213.9	5364.0
35°	4288.9	4252.2	4205.2	3967.3	3780.5	3688.6	3827.5	4393.1	5598.8	5836.6
37.5°	4766.7	4735.1	4757.5	4437.0	4196.0	4062.3	4172.5	4745.3	6073.5	6424.7
40°	5260.8	5236.3	5239.4	4933.1	4652.4	4502.3	4591.1	5187.3	6617.7	7124.0
42.5°	5797.9	5779.5	5718.2	5446.7	5131.2	4991.3	5073.0	5697.8	7201.6	7920.4
45°	6399.2	6387.9	6330.8	6019.4	5658.0	5500.8	5611.0	6261.4	7788.7	8669.7
47.5°	6918.8	6928.0	6920.9	6658.5	6283.8	6053.1	6184.8	6849.4	8334.9	9374.2
50°	7169.0	7216.9	7287.4	7205.7	6972.9	6738.1	6763.6	7417.0	8855.5	10034.7
52.5°	7038.3	7129.1	7321.1	7451.8	7541.6	7492.6	7424.2	7980.6	9345.6	10630.9
55°	6551.3	6678.9	6997.4	7312.9	7771.3	8127.6	8217.5	8605.4	9823.4	11155.7
57.5°	5664.1	5871.4	6157.2	6795.3	7567.1	8434.9	9142.4	9472.2	10329.8	11716.2
60°	4142.9	4420.6	4775.9	5725.4	6852.5	8270.5	9929.5	10803.5	11049.5	12442.1
62.5°	2651.4	2822.9	3149.6	4043.9	5339.5	7428.3	10170.5	12467.6	12269.5	13632.5
65°	1815.2	1925.5	2224.6	2726.9	3451.8	5529.3	9525.3	13715.1	14207.2	15519.1
67.5°	1319.0	1402.8	1658.0	2098.0	2249.1	3272.1	7391.5	13658.0	16090.8	17463.0
70°	961.7	1020.9	1235.3	1658.0	1730.5	1820.3	4477.8	11610.0	16050.0	17979.6
72.5°	712.6	753.4	897.4	1286.4	1400.7	1229.2	2216.4	8438.0	13791.7	16262.4
75°	515.6	546.2	652.4	984.2	1121.0	936.2	1105.7	4931.1	9620.2	11439.5
77.5°	394.1	417.6	487.0	720.8	897.4	702.4	686.1	2268.5	4561.5	4584.0
80°	316.5	331.8	369.6	507.4	688.1	525.8	447.2	915.8	1441.6	1220.0
82.5°	232.8	258.3	312.4	356.3	492.1	362.4	272.6	462.5	548.2	471.7
85°	132.7	150.1	188.9	255.2	314.4	221.5	156.2	205.2	255.2	209.3
87.5°	47.0	61.3	66.4	100.1	136.8	91.9	60.2	59.2	83.7	62.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942915  
 CATALOG NUMBER: GALN-SB7A-927-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2820.8	0°	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8	2820.8
2851.5	2.5°	2841.2	2836.1	2815.7	2788.2	2759.6	2732.0	2722.8	2703.4	2690.1	2683.0
2917.8	5°	2898.4	2882.1	2834.1	2772.8	2708.5	2639.1	2590.1	2545.2	2512.5	2481.9
3008.7	7.5°	2980.1	2951.5	2868.8	2761.6	2647.3	2531.9	2446.1	2380.8	2336.9	2308.3
3114.9	10°	3075.0	3031.1	2904.5	2744.3	2567.6	2402.2	2301.2	2245.0	2217.5	2202.1
3236.3	12.5°	3184.3	3122.0	2941.3	2704.4	2446.1	2257.3	2187.8	2171.5	2172.5	2173.6
3389.5	15°	3319.0	3232.3	2970.9	2617.7	2287.9	2146.0	2133.7	2160.3	2187.8	2201.1
3563.0	17.5°	3471.2	3348.6	2976.0	2474.7	2132.7	2074.5	2113.3	2170.5	2212.4	2230.7
3757.0	20°	3634.5	3467.1	2939.3	2272.6	2005.1	2016.3	2085.8	2159.3	2205.2	2228.7
3978.6	22.5°	3821.3	3593.7	2851.5	2060.2	1901.0	1953.0	2034.7	2106.2	2154.2	2177.6
4238.9	25°	4034.7	3735.6	2713.6	1881.6	1811.1	1881.6	1963.2	2022.5	2061.3	2082.7
4529.9	27.5°	4271.6	3883.6	2529.9	1739.7	1732.5	1808.1	1875.4	1921.4	1941.8	1958.1
4839.2	30°	4509.4	4018.4	2307.3	1632.5	1664.1	1735.6	1783.6	1804.0	1810.1	1813.2
5184.3	32.5°	4766.7	4134.8	2073.5	1543.6	1598.8	1665.1	1693.7	1702.9	1674.3	1654.9
5602.9	35°	5078.1	4259.3	1844.8	1473.2	1534.5	1591.6	1600.8	1592.6	1559.0	1519.1
6127.6	37.5°	5463.0	4414.5	1662.1	1423.2	1474.2	1512.0	1500.8	1498.7	1501.8	1454.8
6758.5	40°	5934.7	4616.6	1528.3	1384.4	1425.2	1433.4	1401.7	1419.1	1434.4	1362.9
7450.7	42.5°	6458.4	4860.6	1443.6	1357.8	1384.4	1365.0	1316.0	1335.4	1333.3	1239.4
8146.0	45°	6992.3	5126.1	1414.0	1338.4	1346.6	1307.8	1253.7	1258.8	1215.9	1131.2
8812.7	47.5°	7523.2	5410.9	1432.4	1322.1	1299.6	1255.7	1213.9	1191.4	1128.1	1064.8
9451.8	50°	8043.9	5710.1	1499.7	1289.4	1235.3	1209.8	1179.2	1139.4	1072.0	1017.9
10056.1	52.5°	8526.8	6011.2	1575.3	1235.3	1154.7	1170.0	1150.6	1104.6	1038.3	983.2
10627.9	55°	8984.2	6312.4	1604.9	1160.8	1079.1	1135.3	1124.0	1039.3	959.7	914.8
11226.1	57.5°	9482.4	6674.8	1572.2	1065.8	1017.9	1095.5	1052.6	958.7	912.7	879.0
12005.1	60°	10172.5	7243.5	1501.8	948.4	959.7	1036.2	962.7	923.9	873.9	836.1
13173.0	62.5°	11319.0	8304.2	1388.5	832.1	891.3	948.4	919.9	881.1	830.0	793.3
15170.0	65°	13013.8	9778.5	1175.1	741.2	814.7	862.7	873.9	835.1	782.0	743.2
16919.8	67.5°	14443.1	10703.4	889.2	665.6	736.1	793.3	824.9	787.1	731.0	693.2
17329.2	70°	14364.5	10031.6	678.9	591.1	666.7	724.9	765.7	736.1	675.9	640.1
15740.7	72.5°	12758.5	8392.0	549.3	515.6	596.2	653.4	702.4	679.9	618.7	584.0
11531.4	75°	9373.1	5957.1	439.0	439.0	508.4	578.9	633.0	618.7	562.5	538.0
4841.2	77.5°	3951.0	2499.2	344.1	364.5	422.7	497.2	564.6	569.7	520.7	551.3
1280.2	80°	1050.5	689.1	262.4	286.9	331.8	410.4	491.1	489.0	435.9	407.4
475.8	82.5°	400.2	271.6	186.8	202.1	239.9	314.4	389.0	401.2	348.1	301.2
186.8	85°	154.2	116.4	115.4	121.5	139.9	208.3	294.0	304.2	262.4	222.6
52.1	87.5°	39.8	34.7	42.9	40.8	64.3	111.3	168.5	174.6	160.3	92.9
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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<u>180°</u>
2820.8
2691.2
2494.1
2314.4
2206.2
2175.6
2200.1
2234.8
2234.8
2183.8
2088.8
1964.3
1820.3
1661.1
1521.2
1457.9
1365.0
1238.4
1134.3
1064.8
1013.8
984.2
910.7
876.0
834.1
793.3
745.3
694.2
643.2
584.0
530.9
500.3
378.8
301.2
229.7
132.7
0.0

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