

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: P944275

Luminaire Tested: **GALN-SB9A-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944275  
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-SB9A-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 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: 24642 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

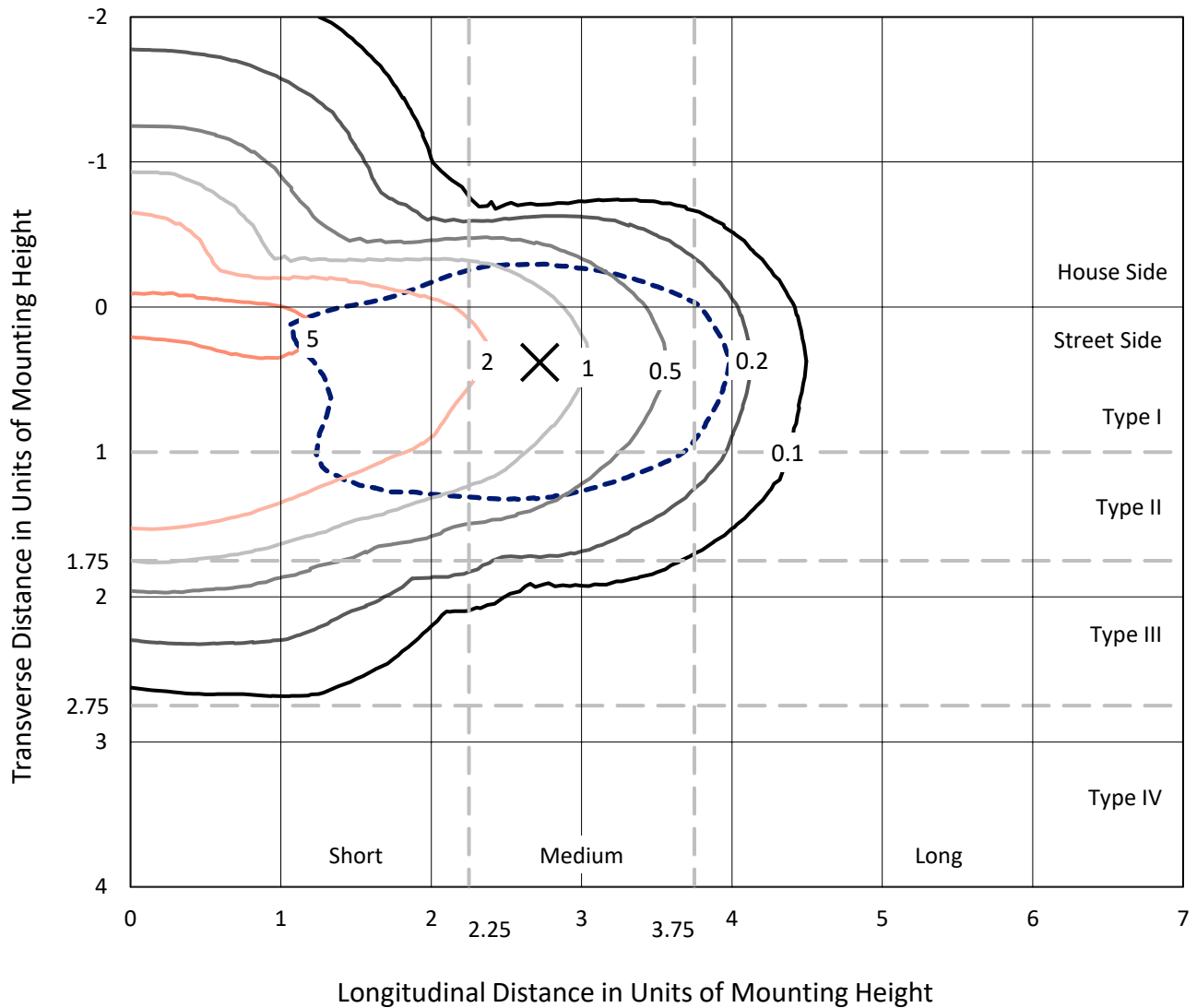
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P944275  
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### Iso-Footcandle Lines of Horizontal Illumination

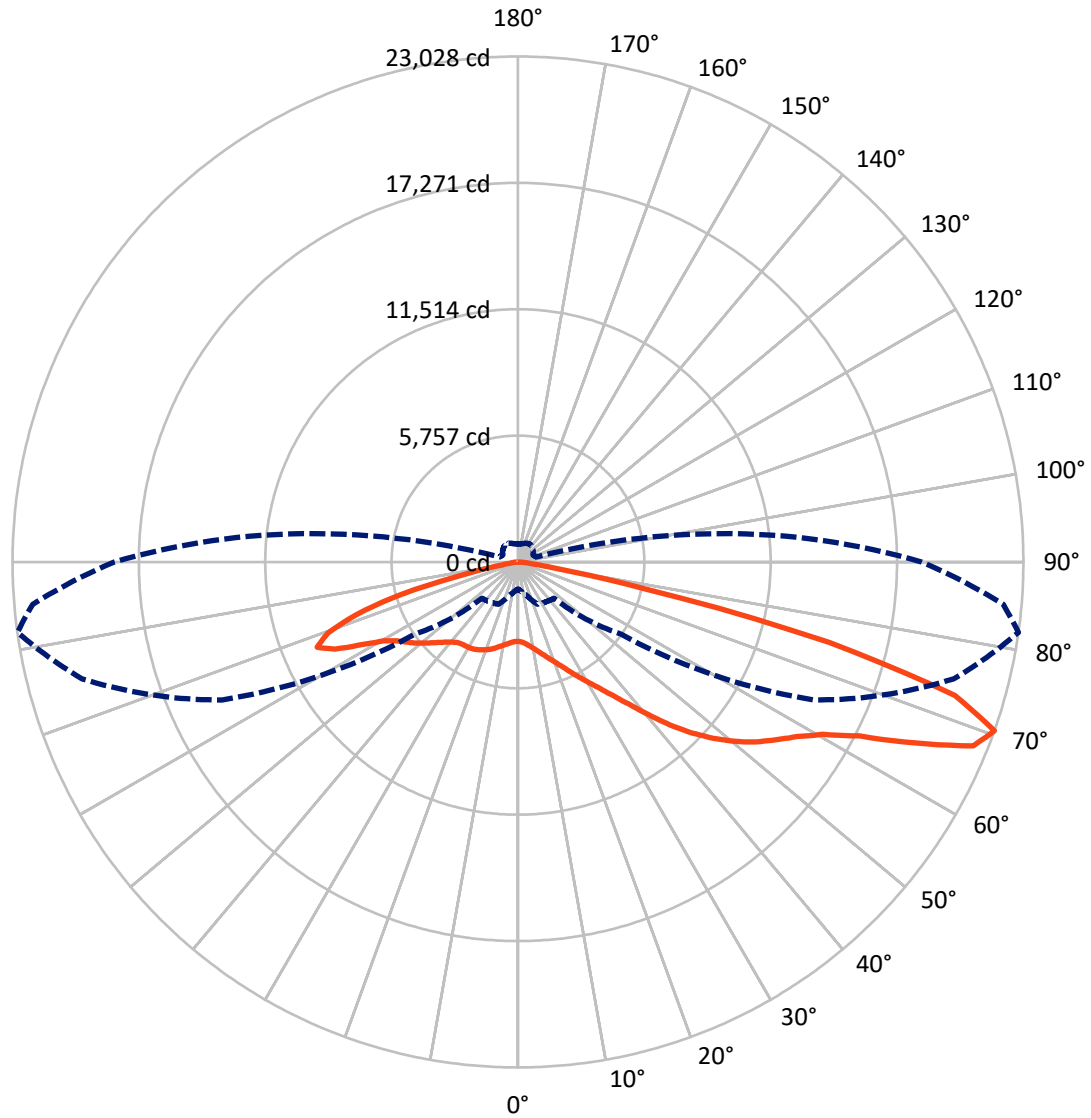
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P944275  
CATALOG NUMBER: GALN-SB9A-927-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P944275

CATALOG NUMBER: GALN-SB9A-927-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6074.9	0.0	6074.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	18567.1	0.0	18567.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	24642.0	0.0	24642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.1	1.4
10°-20°	980.0	4.0
20°-30°	1639.5	6.7
30°-40°	2561.3	10.4
40°-50°	4079.2	16.6
50°-60°	5676.8	23.0
60°-70°	5938.1	24.1
70°-80°	3103.6	12.6
80°-90°	322.3	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°	24642.0	100.0
0°-180°	24642.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944275

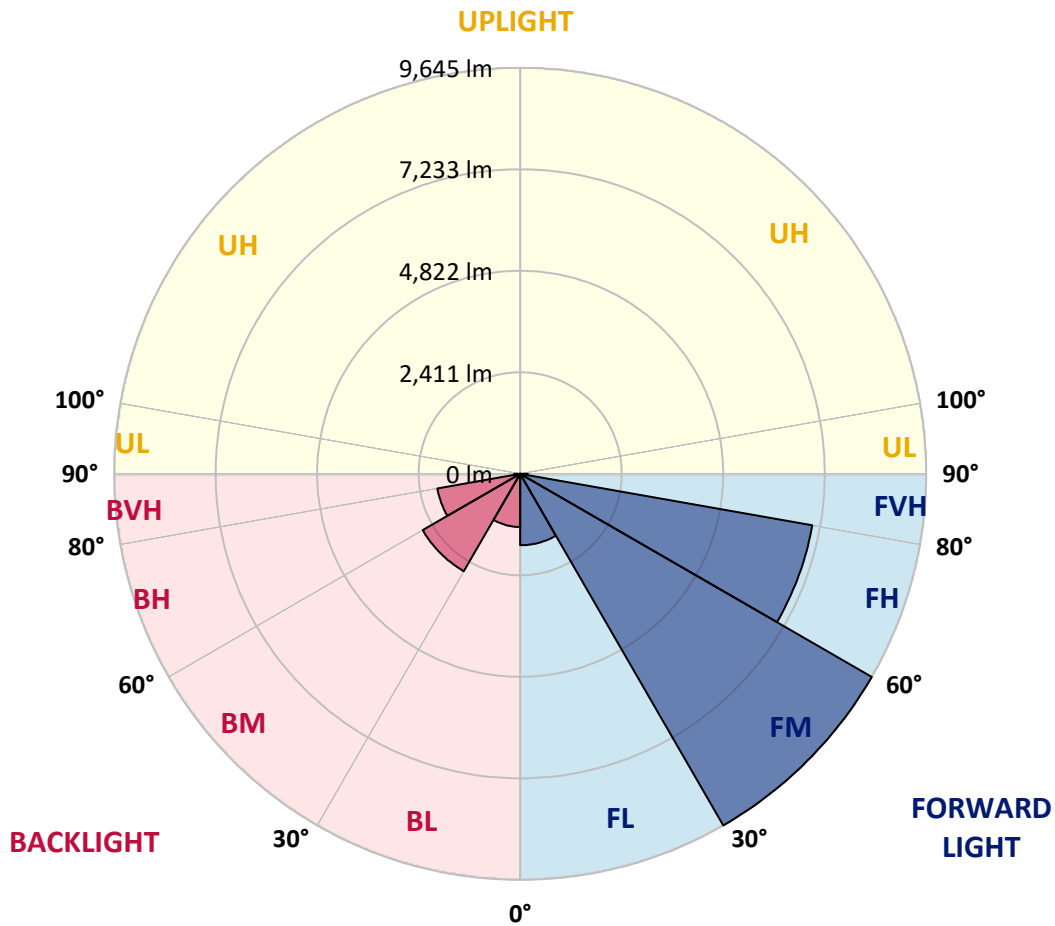
CATALOG NUMBER: GALN-SB9A-927-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.9	6.9			
FM (30°-60°)	9644.6	39.1			
FH (60°-80°)	7045.2	28.6			G3/7500
FVH (80°-90°)	180.4	0.7			G2/225
BL (0°-30°)	1263.8	5.1	B3/2500		
BM (30°-60°)	2672.7	10.8	B3/5000		
BH (60°-80°)	1996.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	141.9	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: P944275

CATALOG NUMBER: GALN-SB9A-927-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	3699.1	3720.0	3713.5	3707.0	3707.0	3697.8	3696.5	3683.4	3673.0	3656.0
5°	3746.2	3768.4	3765.8	3771.0	3788.0	3792.0	3795.9	3788.0	3767.1	3746.2
7.5°	3704.4	3729.2	3737.0	3768.4	3820.7	3867.8	3903.1	3917.5	3897.9	3867.8
10°	3563.1	3590.6	3618.1	3692.6	3785.4	3896.6	3990.7	4046.9	4043.0	4014.3
12.5°	3276.8	3305.5	3364.4	3509.5	3679.5	3875.6	4050.9	4168.5	4209.1	4188.2
15°	3048.0	3072.8	3117.3	3266.3	3487.3	3785.4	4073.1	4301.9	4405.2	4393.4
17.5°	3041.4	3051.9	3079.3	3149.9	3319.9	3644.2	4049.6	4432.7	4630.1	4628.8
20°	3156.5	3160.4	3176.1	3190.5	3287.2	3537.0	3989.4	4541.2	4882.5	4882.5
22.5°	3316.0	3313.4	3329.1	3316.0	3363.1	3527.8	3951.5	4636.7	5163.6	5184.5
25°	3555.3	3542.2	3538.3	3508.2	3517.4	3612.8	3993.3	4745.2	5497.0	5540.2
27.5°	3874.3	3853.4	3839.0	3769.7	3746.2	3788.0	4121.5	4875.9	5868.4	5942.9
30°	4290.1	4252.2	4231.3	4111.0	4026.0	4032.6	4315.0	5049.8	6256.7	6377.0
32.5°	4857.6	4798.8	4742.6	4545.1	4389.5	4338.5	4564.7	5290.4	6677.8	6870.0
35°	5493.1	5446.0	5385.9	5081.2	4841.9	4724.3	4902.1	5626.5	7170.7	7475.4
37.5°	6105.1	6064.5	6093.3	5682.7	5374.1	5202.8	5344.1	6077.6	7778.8	8228.6
40°	6737.9	6706.5	6710.5	6318.2	5958.6	5766.4	5880.2	6643.8	8475.7	9124.2
42.5°	7425.7	7402.2	7323.7	6975.9	6571.9	6392.7	6497.3	7297.6	9223.6	10144.2
45°	8195.9	8181.5	8108.3	7709.5	7246.6	7045.2	7186.4	8019.3	9975.5	11103.9
47.5°	8861.4	8873.2	8864.0	8528.0	8048.1	7752.6	7921.3	8772.5	10675.0	12006.1
50°	9181.8	9243.2	9333.5	9228.9	8930.7	8630.0	8662.7	9499.5	11341.9	12852.1
52.5°	9014.4	9130.8	9376.6	9544.0	9659.0	9596.3	9508.7	10221.3	11969.5	13615.8
55°	8390.7	8554.1	8962.1	9366.1	9953.2	10409.6	10524.7	11021.5	12581.5	14287.9
57.5°	7254.4	7519.9	7886.0	8703.2	9691.7	10803.2	11709.3	12131.7	13230.0	15005.7
60°	5306.1	5661.8	6116.8	7332.9	8776.4	10592.7	12717.5	13836.7	14151.9	15935.4
62.5°	3395.8	3615.4	4033.9	5179.3	6838.6	9513.9	13026.0	15968.1	15714.4	17460.0
65°	2324.9	2466.1	2849.2	3492.5	4420.9	7081.8	12199.7	17565.9	18196.2	19876.4
67.5°	1689.4	1796.6	2123.5	2687.1	2880.6	4190.8	9466.8	17492.7	20608.7	22366.0
70°	1231.7	1307.6	1582.2	2123.5	2216.3	2331.4	5735.0	14869.7	20556.4	23027.7
72.5°	912.7	965.0	1149.4	1647.5	1794.0	1574.3	2838.7	10807.1	17664.0	20828.3
75°	660.3	699.6	835.5	1260.5	1435.7	1199.0	1416.1	6315.6	12321.3	14651.4
77.5°	504.7	534.8	623.7	923.1	1149.4	899.6	878.7	2905.4	5842.2	5871.0
80°	405.3	425.0	473.3	649.9	881.3	673.4	572.7	1172.9	1846.3	1562.6
82.5°	298.1	330.8	400.1	456.3	630.3	464.2	349.1	592.3	702.2	604.1
85°	170.0	192.2	241.9	326.9	402.7	283.7	200.1	262.8	326.9	268.1
87.5°	60.1	78.5	85.0	128.1	175.2	117.7	77.1	75.8	107.2	79.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944275  
 CATALOG NUMBER: GALN-SB9A-927-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3612.8	0°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
3652.1	2.5°	3639.0	3632.4	3606.3	3571.0	3534.4	3499.1	3487.3	3462.5	3445.5	3436.3
3737.0	5°	3712.2	3691.3	3629.8	3551.4	3469.0	3380.1	3317.3	3259.8	3217.9	3178.7
3853.4	7.5°	3816.8	3780.2	3674.3	3537.0	3390.5	3242.8	3132.9	3049.3	2993.0	2956.4
3989.4	10°	3938.4	3882.2	3720.0	3514.8	3288.5	3076.7	2947.3	2875.4	2840.0	2820.4
4145.0	12.5°	4078.3	3998.6	3767.1	3463.8	3132.9	2891.0	2802.1	2781.2	2782.5	2783.8
4341.1	15°	4250.9	4139.8	3805.0	3352.6	2930.3	2748.5	2732.8	2766.8	2802.1	2819.1
4563.4	17.5°	4445.7	4288.8	3811.6	3169.6	2731.5	2657.0	2706.7	2779.9	2833.5	2857.0
4811.9	20°	4655.0	4440.5	3764.5	2910.7	2568.1	2582.5	2671.4	2765.5	2824.4	2854.4
5095.6	22.5°	4894.2	4602.7	3652.1	2638.7	2434.7	2501.4	2606.0	2697.5	2759.0	2789.1
5429.0	25°	5167.5	4784.4	3475.5	2409.9	2319.6	2409.9	2514.5	2590.3	2640.0	2667.4
5801.7	27.5°	5470.9	4974.0	3240.2	2228.1	2219.0	2315.7	2402.0	2460.9	2487.0	2507.9
6197.9	30°	5775.6	5146.6	2955.1	2090.8	2131.3	2222.9	2284.3	2310.5	2318.3	2322.3
6639.9	32.5°	6105.1	5295.7	2655.7	1977.1	2047.7	2132.7	2169.3	2181.0	2144.4	2119.6
7176.0	35°	6503.9	5455.2	2362.8	1886.8	1965.3	2038.5	2050.3	2039.8	1996.7	1945.7
7848.1	37.5°	6996.8	5653.9	2128.7	1822.8	1888.1	1936.5	1922.1	1919.5	1923.4	1863.3
8656.1	40°	7600.9	5912.8	1957.4	1773.1	1825.4	1835.8	1795.3	1817.5	1837.1	1745.6
9542.7	42.5°	8271.7	6225.4	1848.9	1739.1	1773.1	1748.2	1685.5	1710.3	1707.7	1587.4
10433.1	45°	8955.6	6565.3	1811.0	1714.2	1724.7	1675.0	1605.7	1612.2	1557.3	1448.8
11287.0	47.5°	9635.5	6930.1	1834.5	1693.3	1664.5	1608.3	1554.7	1525.9	1444.9	1363.8
12105.5	50°	10302.4	7313.3	1920.8	1651.5	1582.2	1549.5	1510.2	1459.3	1373.0	1303.7
12879.6	52.5°	10920.9	7699.0	2017.6	1582.2	1478.9	1498.5	1473.6	1414.8	1329.8	1259.2
13611.8	55°	11506.6	8084.7	2055.5	1486.7	1382.1	1454.0	1439.6	1331.1	1229.1	1171.6
14378.1	57.5°	12144.7	8548.9	2013.7	1365.1	1303.7	1403.0	1348.1	1227.8	1169.0	1125.8
15375.8	60°	13028.7	9277.2	1923.4	1214.7	1229.1	1327.2	1233.0	1183.4	1119.3	1070.9
16871.6	62.5°	14497.1	10635.8	1778.3	1065.7	1141.5	1214.7	1178.1	1128.4	1063.1	1016.0
19429.2	65°	16667.6	12523.9	1505.0	949.3	1043.4	1104.9	1119.3	1069.6	1001.6	951.9
21670.4	67.5°	18498.2	13708.6	1138.9	852.5	942.8	1016.0	1056.5	1008.1	936.2	887.8
22194.8	70°	18397.6	12848.2	869.5	757.1	853.8	928.4	980.7	942.8	865.6	819.8
20160.2	72.5°	16340.7	10748.3	703.5	660.3	763.6	836.8	899.6	870.8	792.4	747.9
14769.0	75°	12004.8	7629.7	562.3	562.3	651.2	741.4	810.7	792.4	720.5	689.1
6200.5	77.5°	5060.3	3200.9	440.7	466.8	541.3	636.8	723.1	729.6	666.9	706.1
1639.7	80°	1345.5	882.6	336.0	367.4	425.0	525.6	628.9	626.3	558.3	521.7
609.3	82.5°	512.6	347.8	239.3	258.9	307.3	402.7	498.2	513.9	445.9	385.7
239.3	85°	197.4	149.1	147.8	155.6	179.1	266.7	376.6	389.7	336.0	285.1
66.7	87.5°	51.0	44.5	54.9	52.3	82.4	142.5	215.7	223.6	205.3	119.0
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>
3612.8
3446.8
3194.4
2964.3
2825.7
2786.4
2817.8
2862.3
2862.3
2796.9
2675.3
2515.8
2331.4
2127.4
1948.3
1867.2
1748.2
1586.1
1452.7
1363.8
1298.4
1260.5
1166.4
1121.9
1068.3
1016.0
954.5
889.1
823.8
747.9
679.9
640.7
485.1
385.7
294.2
170.0
0.0

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