

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: P947650

Luminaire Tested: **GALN-SB2D-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

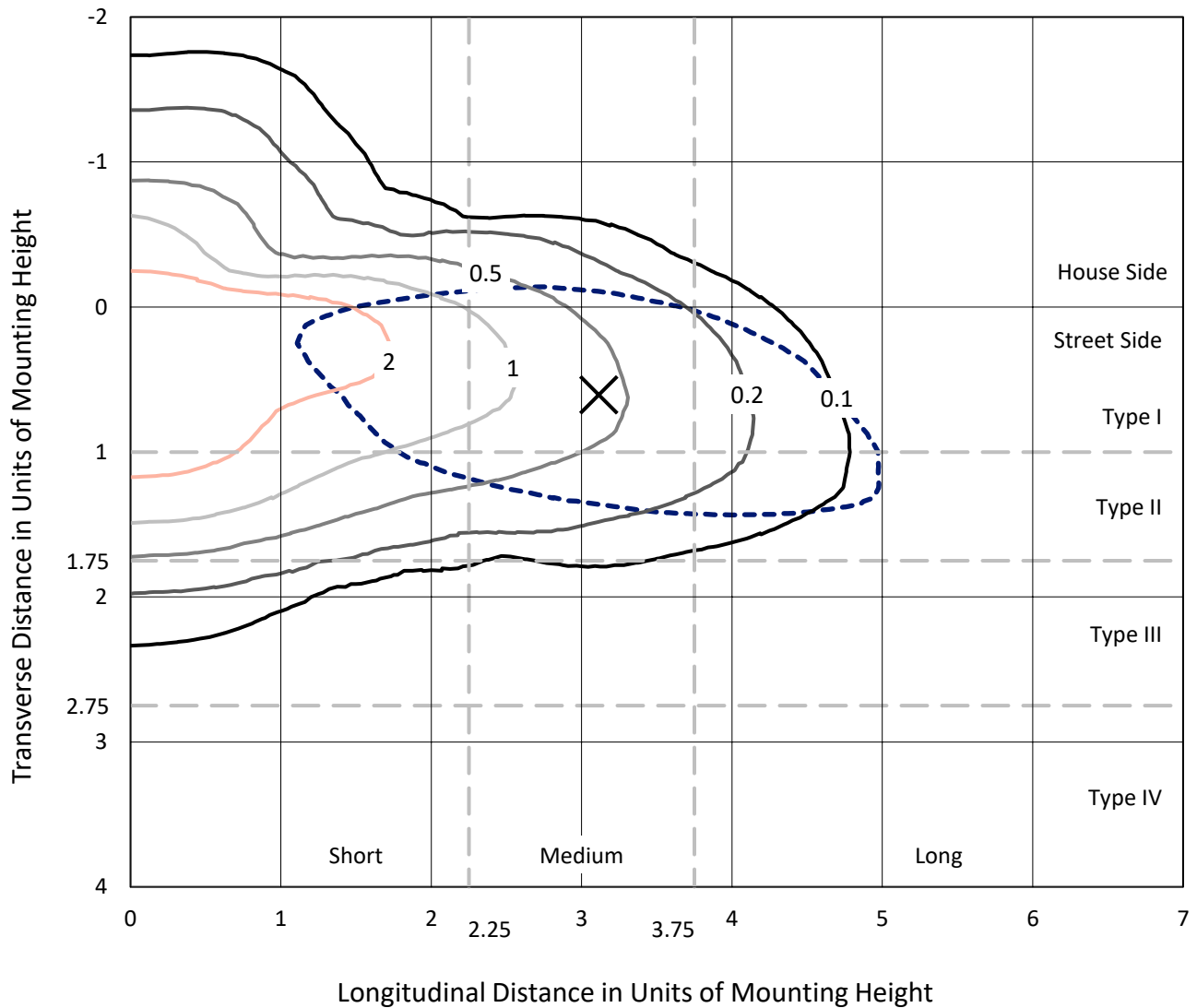
Lumens per Lamp: N/A  
Luminaire Lumens: 14657 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

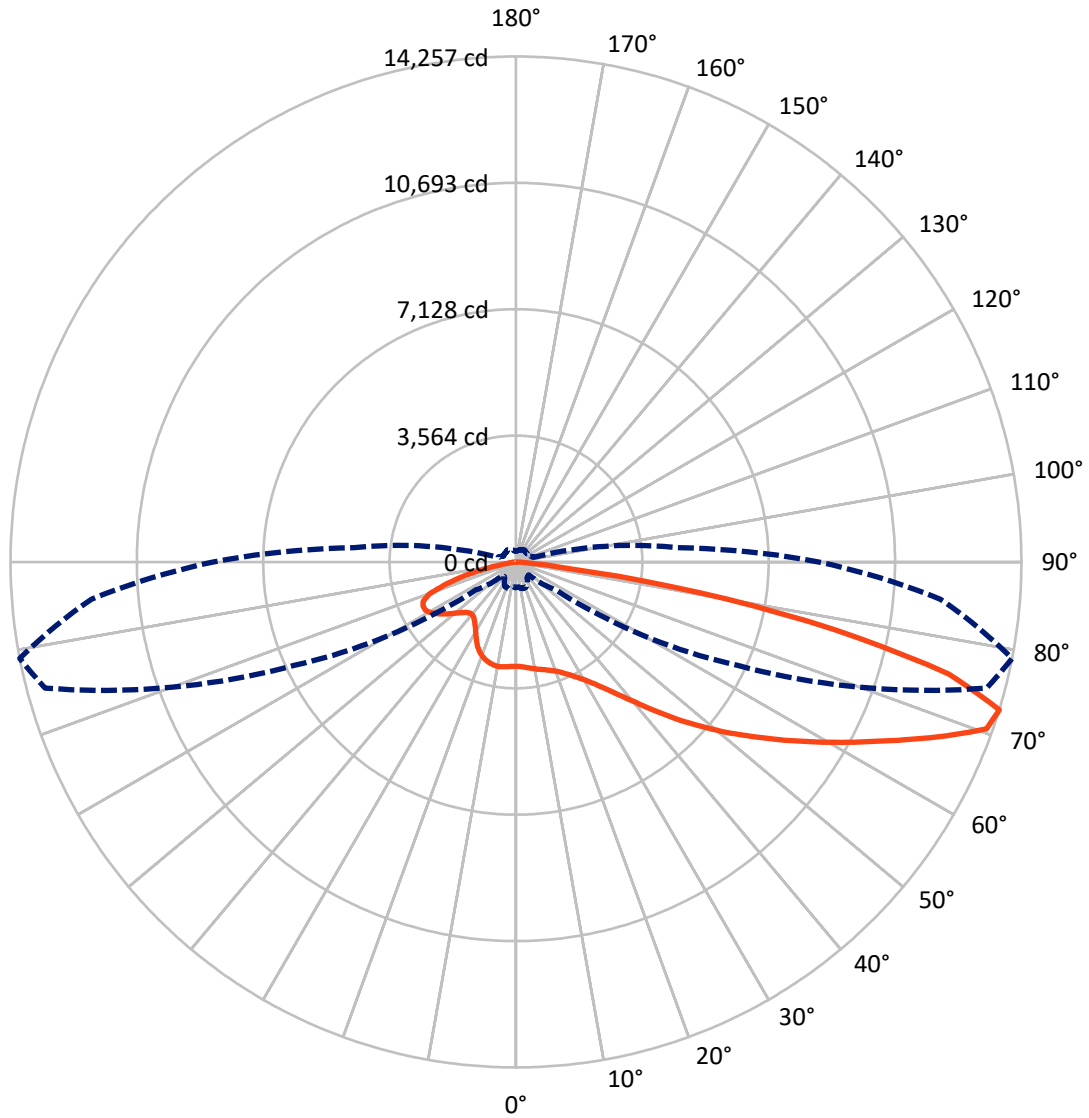
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3225.3	0.0	3225.3
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	11431.6	0.0	11431.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	14657.0	0.0	14657.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.1	1.8
10°-20°	698.3	4.8
20°-30°	1126.7	7.7
30°-40°	1691.0	11.5
40°-50°	2398.8	16.4
50°-60°	3029.4	20.7
60°-70°	3076.7	21.0
70°-80°	2096.9	14.3
80°-90°	272.1	1.9
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°	14657.0	100.0
0°-180°	14657.0	100.0



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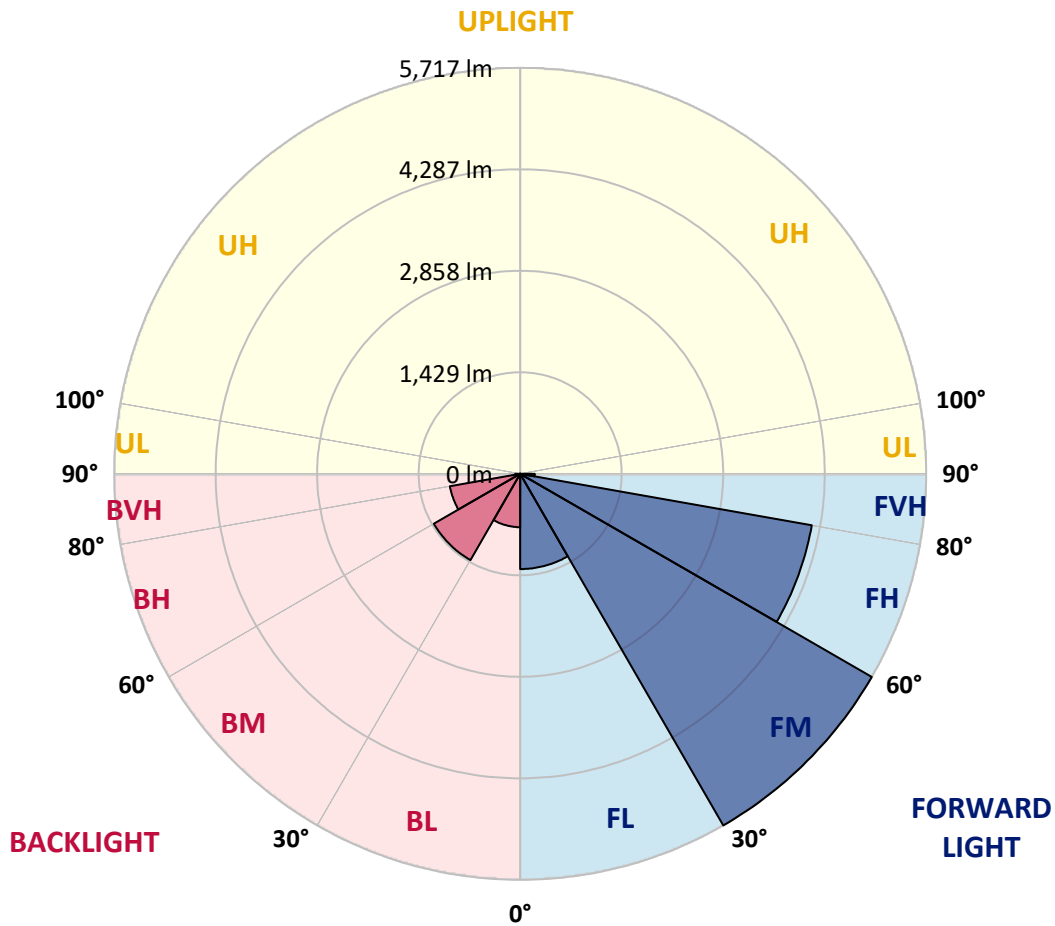
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.8	9.1			
FM (30°-60°)	5716.5	39.0			
FH (60°-80°)	4169.4	28.4			G2/5000
FVH (80°-90°)	204.9	1.4			G2/225
BL (0°-30°)	751.3	5.1	B2/1000		
BM (30°-60°)	1402.7	9.6	B2/2500		
BH (60°-80°)	1004.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	67.1	0.5			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3
2.5°	2943.8	2929.8	2938.4	2935.3	2939.2	2943.8	2945.4	2947.7	2955.4	2954.7
5°	2937.6	2923.6	2935.3	2931.4	2941.5	2952.3	2961.6	2970.2	2982.6	2988.0
7.5°	2924.4	2915.1	2926.7	2938.4	2957.0	2973.3	2986.4	3005.8	3023.7	3026.8
10°	2847.7	2840.7	2867.8	2898.1	2949.2	2993.4	3022.1	3044.6	3064.0	3067.1
12.5°	2767.8	2759.3	2789.5	2830.6	2913.6	2993.4	3053.9	3083.4	3100.4	3110.5
15°	2754.6	2747.7	2764.7	2800.4	2869.4	2972.5	3075.6	3129.9	3144.6	3156.2
17.5°	2818.2	2805.0	2812.0	2824.4	2864.7	2953.1	3092.7	3182.6	3205.1	3217.5
20°	2965.5	2946.9	2936.1	2911.2	2904.3	2956.2	3091.1	3246.2	3275.6	3291.1
22.5°	3161.7	3149.3	3126.0	3063.2	2995.0	2994.2	3120.6	3327.6	3382.6	3397.4
25°	3398.9	3380.3	3350.8	3265.6	3134.5	3069.4	3170.2	3431.5	3523.7	3527.6
27.5°	3671.8	3643.9	3603.6	3491.2	3314.4	3187.2	3246.2	3550.9	3685.8	3684.2
30°	3959.4	3931.5	3888.9	3752.4	3529.9	3346.2	3351.6	3679.6	3878.0	3869.5
32.5°	4169.5	4148.6	4140.1	4034.6	3778.0	3533.8	3472.6	3822.2	4115.3	4107.5
35°	4330.8	4303.7	4313.8	4260.3	4048.6	3743.9	3620.6	3992.0	4403.7	4402.9
37.5°	4490.5	4466.5	4475.0	4439.4	4299.0	4010.6	3801.3	4199.8	4761.1	4778.2
40°	4636.3	4610.7	4644.8	4611.5	4493.6	4294.4	4006.7	4434.7	5175.1	5207.7
42.5°	4723.9	4703.7	4760.3	4761.1	4662.6	4533.9	4232.3	4693.7	5654.2	5727.1
45°	4754.1	4747.1	4832.4	4850.3	4812.3	4672.7	4435.5	4975.9	6170.6	6300.8
47.5°	4721.6	4708.4	4826.2	4892.1	4922.4	4737.8	4603.7	5281.3	6697.8	6888.5
50°	4557.2	4531.6	4706.8	4845.6	4953.4	4780.5	4773.5	5634.1	7297.1	7505.7
52.5°	4261.8	4242.4	4441.7	4682.8	4885.1	4801.4	4964.2	6019.4	7866.2	8136.0
55°	3884.2	3858.7	4078.1	4392.8	4715.4	4794.4	5155.0	6450.5	8537.6	8811.3
57.5°	3285.7	3234.5	3512.1	3884.2	4438.6	4785.9	5353.4	6879.2	9219.8	9547.8
60°	2412.7	2336.7	2677.1	3118.2	3897.4	4703.0	5599.2	7359.9	10038.5	10333.9
62.5°	1404.8	1360.6	1583.2	1994.8	2937.6	4214.5	5737.2	7918.9	10843.3	11153.4
65°	1090.8	1078.4	1097.8	1129.6	1635.1	3155.5	5311.6	8463.9	11866.7	12083.8
67.5°	997.8	988.5	997.0	937.3	829.6	1757.6	4202.1	8601.9	12963.0	13094.8
70°	886.9	876.1	904.0	852.8	652.8	799.3	2715.1	8101.1	13835.2	14082.5
72.5°	722.6	710.2	775.3	752.0	549.7	513.2	1363.7	6911.0	13743.7	14256.9
75°	555.1	548.1	625.7	645.0	448.1	403.9	654.4	5137.1	12094.6	12611.8
77.5°	431.1	425.6	465.2	535.7	361.3	313.2	402.4	3258.6	9114.4	9205.1
80°	323.3	307.8	344.2	414.8	281.4	228.7	272.9	1900.3	5761.2	5222.4
82.5°	202.4	194.6	224.8	276.8	198.5	157.4	177.5	1049.8	2308.8	1359.9
85°	115.5	112.4	122.5	158.2	107.8	90.7	101.6	463.6	421.8	290.0
87.5°	46.5	45.0	55.8	70.6	39.5	33.3	35.7	111.6	93.0	86.1
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°
2942.3	0°	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3
2953.9	2.5°	2950.8	2950.8	2939.9	2922.9	2903.5	2891.1	2870.9	2865.5	2844.6	2838.4
2980.2	5°	2986.4	2980.2	2946.9	2898.8	2832.9	2772.5	2705.8	2663.9	2605.0	2584.1
3032.2	7.5°	3031.4	3014.4	2957.0	2851.5	2713.5	2577.9	2436.8	2329.8	2227.4	2191.0
3074.8	10°	3072.5	3048.5	2950.8	2766.3	2527.5	2292.6	2067.7	1910.3	1790.9	1742.1
3122.1	12.5°	3113.6	3069.4	2909.7	2624.4	2263.1	1944.4	1704.9	1582.4	1508.7	1449.8
3160.9	15°	3152.4	3090.3	2846.1	2434.4	1973.1	1649.8	1473.1	1375.4	1316.5	1277.7
3217.5	17.5°	3197.3	3108.2	2750.8	2193.3	1697.1	1445.9	1301.7	1242.8	1231.2	1226.5
3295.0	20°	3260.1	3124.4	2625.2	1923.5	1494.0	1283.1	1208.7	1203.3	1202.5	1200.2
3388.0	22.5°	3327.6	3143.8	2459.2	1678.5	1321.1	1181.6	1168.4	1157.5	1150.5	1149.8
3500.5	25°	3407.4	3150.0	2251.5	1477.7	1173.8	1133.5	1118.0	1101.7	1097.0	1097.0
3628.4	27.5°	3485.0	3129.1	2009.6	1303.3	1090.8	1089.3	1069.1	1063.7	1062.9	1065.3
3774.1	30°	3562.5	3089.6	1769.2	1142.0	1042.8	1042.8	1035.8	1039.7	1042.8	1050.5
3974.2	32.5°	3667.2	3047.7	1568.4	1022.6	1000.9	993.2	1000.1	1007.9	1011.0	1021.1
4237.0	35°	3820.7	3018.2	1408.7	957.5	957.5	947.4	951.3	949.7	942.8	938.1
4554.9	37.5°	4023.8	3016.7	1276.9	927.3	921.1	919.5	920.3	910.2	883.1	850.5
4939.4	40°	4268.0	3058.5	1175.4	906.3	901.7	911.0	906.3	879.2	804.8	748.2
5412.4	42.5°	4596.0	3177.9	1110.2	880.7	894.7	906.3	887.7	793.9	743.5	705.5
5951.2	45°	4982.1	3371.8	1076.9	853.6	881.5	895.5	805.5	764.4	724.1	678.4
6538.9	47.5°	5419.3	3616.0	1069.1	828.0	852.1	860.6	770.6	752.0	706.3	656.7
7129.6	50°	5895.4	3905.2	1090.1	797.8	809.4	779.9	759.0	742.0	694.7	645.8
7735.1	52.5°	6387.7	4223.8	1131.9	756.7	766.8	734.2	754.4	739.6	687.7	621.8
8360.8	55°	6871.5	4544.8	1172.2	708.6	723.4	693.1	741.2	730.3	655.9	581.5
9028.3	57.5°	7363.0	4864.2	1211.8	666.0	681.5	653.6	720.3	705.5	620.2	544.3
9757.1	60°	7873.9	5174.3	1230.4	624.9	635.7	617.1	688.5	662.9	579.9	506.3
10473.5	62.5°	8352.3	5432.5	1200.2	583.8	590.8	583.0	646.6	612.5	539.6	463.6
11220.1	65°	8832.2	5586.0	1107.1	543.5	545.0	541.2	587.7	558.2	492.3	426.4
11873.7	67.5°	9267.1	5672.1	959.0	500.1	496.2	494.6	532.6	499.3	446.6	389.2
12370.6	70°	9359.4	5453.4	732.7	448.9	448.9	445.0	472.2	438.0	396.2	349.7
12014.8	72.5°	8548.4	4587.4	520.2	390.7	397.0	389.2	411.7	383.0	345.0	314.0
10354.9	75°	6893.2	3364.0	378.3	331.1	341.9	328.7	349.7	329.5	296.9	296.2
7135.8	77.5°	4736.3	2080.1	274.5	272.9	280.7	263.6	287.6	276.8	247.3	234.1
3105.8	80°	2021.2	829.6	200.0	210.9	210.9	195.4	223.3	226.4	200.8	194.6
599.3	82.5°	402.4	235.7	140.3	145.0	136.5	131.8	158.2	175.2	241.9	269.0
180.6	85°	120.9	86.8	84.5	79.1	69.8	70.6	93.0	176.0	217.1	124.0
59.7	87.5°	33.3	21.7	22.5	17.8	14.7	19.4	31.8	133.4	72.9	31.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2942.3
2848.4
2599.6
2195.6
1752.9
1469.2
1284.7
1229.6
1207.9
1158.3
1101.7
1071.5
1056.0
1029.6
949.0
851.3
746.6
704.0
675.3
652.8
640.4
617.1
577.6
542.7
503.9
462.9
421.8
384.5
348.1
304.7
266.7
219.4
194.6
269.8
107.0
26.4
0.0

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