

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: P943627

Luminaire Tested: **GALN-SB8A-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26302 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

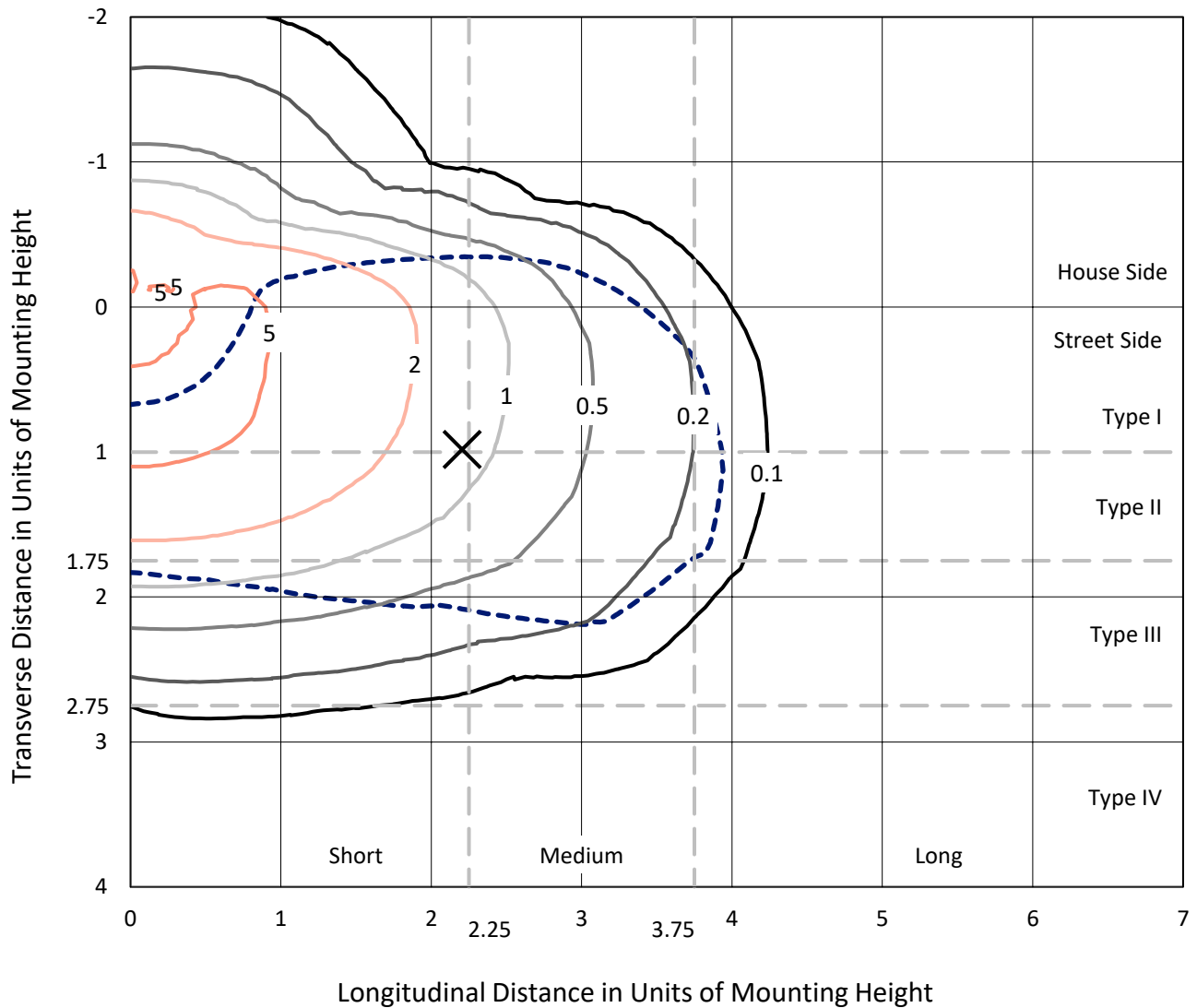
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

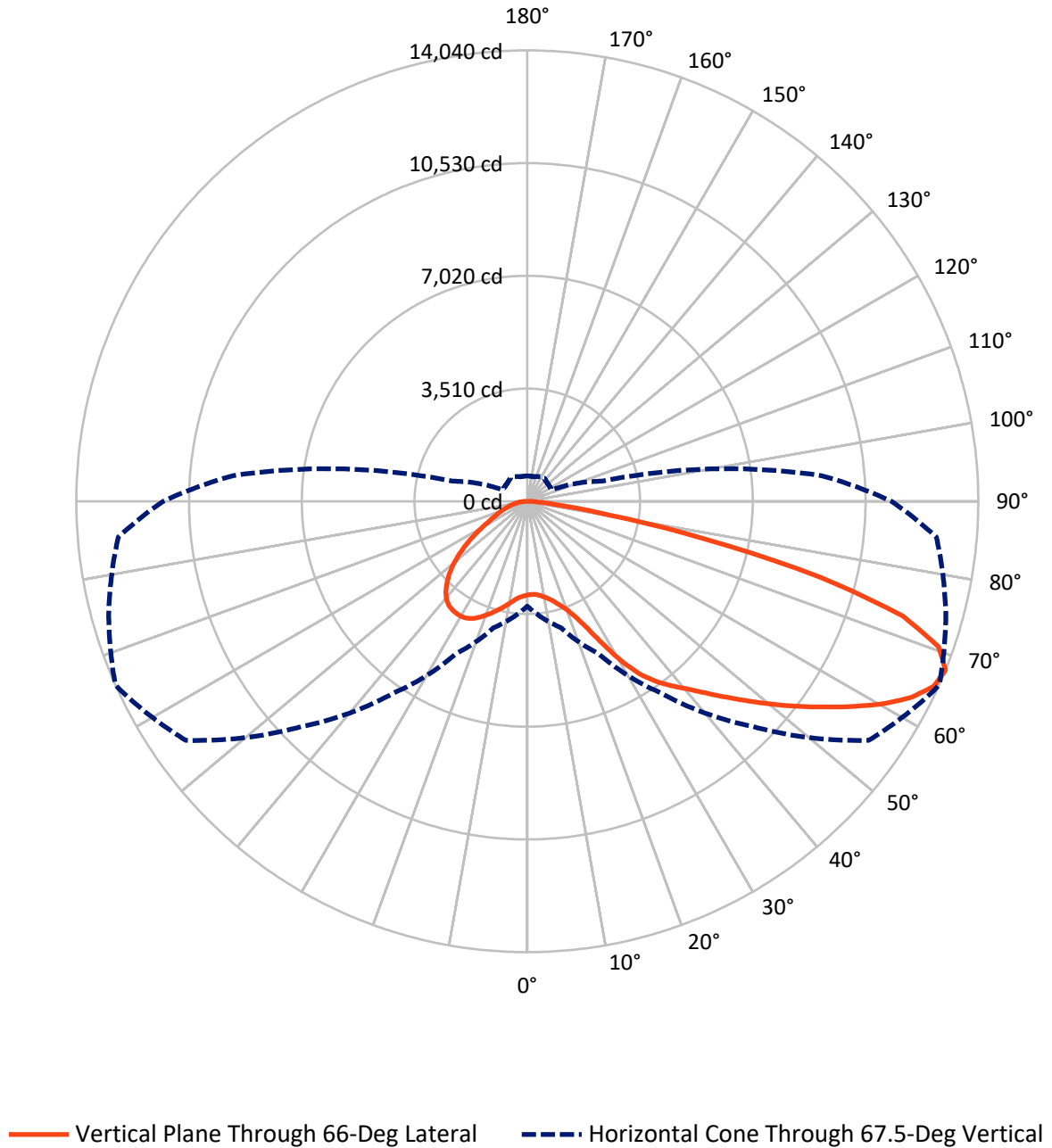
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6539.9	0.0	6539.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19762.1	0.0	19762.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	26302.0	0.0	26302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.1
10°-20°	955.6	3.6
20°-30°	1841.8	7.0
30°-40°	3229.4	12.3
40°-50°	4801.1	18.3
50°-60°	6085.9	23.1
60°-70°	5954.9	22.6
70°-80°	2840.5	10.8
80°-90°	303.6	1.2
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°	26302.0	100.0
0°-180°	26302.0	100.0

Coefficient of Utilization



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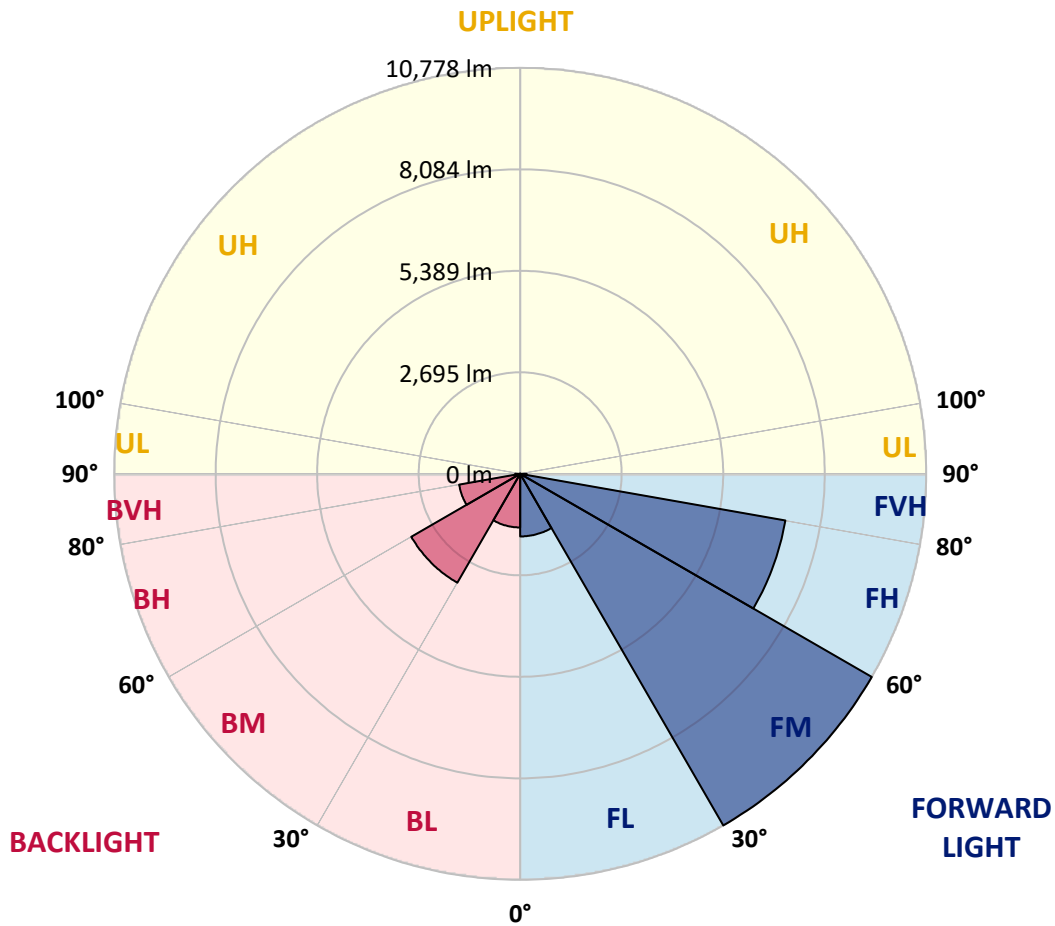
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.0	6.3			
FM (30°-60°)	10778.3	41.0			
FH (60°-80°)	7149.6	27.2			G3/7500
FVH (80°-90°)	172.1	0.7			G2/225
BL (0°-30°)	1424.6	5.4	B3/2500		
BM (30°-60°)	3338.1	12.7	B3/5000		
BH (60°-80°)	1645.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	131.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2
2.5°	2886.8	2903.4	2899.3	2892.4	2891.0	2893.7	2897.9	2902.0	2900.7	2907.6
5°	2878.5	2895.1	2893.7	2893.7	2899.3	2910.3	2917.2	2924.1	2917.2	2925.5
7.5°	2884.1	2896.5	2902.0	2907.6	2921.4	2942.1	2958.7	2973.9	2965.6	2975.3
10°	2954.6	2964.2	2969.8	2969.8	2979.4	3002.9	3019.5	3047.1	3040.2	3055.4
12.5°	3083.1	3092.7	3092.7	3087.2	3094.1	3109.3	3114.9	3145.3	3132.8	3157.7
15°	3240.6	3260.0	3244.8	3235.1	3237.8	3253.0	3251.7	3275.2	3262.7	3283.4
17.5°	3414.7	3439.6	3414.7	3413.3	3407.8	3424.4	3425.8	3446.5	3424.4	3439.6
20°	3620.6	3655.2	3634.5	3641.4	3628.9	3635.8	3642.7	3673.2	3638.6	3649.7
22.5°	3910.8	3952.3	3930.2	3956.4	3948.2	3942.6	3941.2	3995.1	3941.2	3945.4
25°	4333.7	4383.5	4344.8	4380.7	4380.7	4398.7	4419.4	4488.5	4398.7	4372.4
27.5°	4958.3	5008.1	4932.1	4954.2	4947.3	4991.5	4969.4	5140.8	5044.0	5001.2
30°	5710.1	5798.5	5654.8	5649.3	5642.4	5712.9	5744.7	5858.0	5759.9	5717.0
32.5°	6522.7	6615.3	6443.9	6394.2	6367.9	6410.7	6384.5	6475.7	6408.0	6341.6
35°	7382.2	7473.4	7310.4	7213.6	7108.6	7018.8	6924.8	6948.3	6884.7	6783.9
37.5°	8194.8	8362.0	8189.3	8085.6	7892.2	7716.7	7454.1	7344.9	7285.5	7192.9
40°	9022.6	9117.9	8986.6	8898.2	8688.1	8413.1	7993.0	7762.3	7682.1	7592.3
42.5°	9632.0	9723.2	9652.7	9591.9	9427.5	9108.3	8565.2	8276.3	8160.3	8059.4
45°	10115.7	10183.4	10139.2	10161.3	10090.8	9781.3	9158.0	8827.7	8707.5	8584.5
47.5°	10310.5	10382.4	10452.9	10584.1	10704.4	10476.4	9795.1	9424.7	9297.6	9171.8
50°	10288.4	10361.7	10566.2	10845.3	11218.5	11142.4	10466.7	10060.4	9942.9	9799.2
52.5°	10111.5	10194.4	10457.0	10921.3	11515.6	11641.3	11150.7	10716.8	10606.3	10434.9
55°	9647.2	9697.0	10090.8	10748.6	11586.0	11989.6	11821.0	11416.1	11305.5	11066.4
57.5°	8786.3	8858.1	9431.6	10282.9	11409.2	12225.9	12409.7	12151.2	12044.8	11700.7
60°	7662.8	7777.5	8433.9	9500.7	10958.6	12224.5	12944.5	12874.0	12785.6	12325.4
62.5°	6391.4	6524.1	7155.6	8395.2	10171.0	11877.6	13278.9	13479.3	13433.7	12901.6
65°	4908.6	4999.8	5628.6	6964.9	8945.2	11132.8	13317.6	13892.5	13900.8	13339.7
67.5°	3268.2	3530.8	4076.7	5226.4	7303.5	9915.3	12977.6	13960.2	14040.3	13490.3
70°	1594.7	1940.2	2475.0	3396.8	5226.4	8048.3	12089.1	13404.7	13582.9	13050.9
72.5°	661.9	773.9	1065.5	1676.3	3000.2	5431.0	10303.6	11898.4	12228.6	11563.9
75°	446.4	483.7	609.4	859.6	1366.7	2678.2	7430.6	8871.9	9404.0	8733.8
77.5°	344.1	367.6	443.6	601.1	812.6	1012.9	3977.2	5346.7	5621.7	5204.3
80°	270.9	288.8	331.7	438.1	576.3	541.7	1355.7	2422.5	2581.4	2165.5
82.5°	234.9	241.8	237.7	297.1	382.8	316.5	445.0	894.1	986.7	715.8
85°	170.0	189.3	197.6	183.8	203.1	160.3	182.4	316.5	348.2	310.9
87.5°	69.1	102.3	125.8	118.8	74.6	45.6	56.7	92.6	106.4	116.1
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°
2917.2	0°	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2	2917.2
2918.6	2.5°	2920.0	2929.7	2936.6	2944.9	2950.4	2958.7	2975.3	2985.0	2986.3	2993.2
2940.7	5°	2946.3	2960.1	2975.3	2997.4	3022.3	3043.0	3074.8	3096.9	3105.2	3112.1
2994.6	7.5°	3002.9	3022.3	3049.9	3088.6	3124.5	3152.2	3190.9	3217.1	3243.4	3253.0
3080.3	10°	3087.2	3114.9	3154.9	3207.4	3246.1	3282.1	3322.1	3344.3	3370.5	3381.6
3182.6	12.5°	3192.2	3221.3	3273.8	3347.0	3382.9	3407.8	3421.6	3416.1	3421.6	3431.3
3305.6	15°	3312.5	3344.3	3403.7	3482.4	3507.3	3485.2	3454.8	3427.2	3423.0	3425.8
3454.8	17.5°	3454.8	3478.3	3547.4	3613.7	3595.8	3504.6	3438.2	3394.0	3371.9	3365.0
3645.5	20°	3653.8	3653.8	3710.5	3751.9	3631.7	3476.9	3373.3	3301.4	3255.8	3236.5
3905.3	22.5°	3895.6	3873.5	3909.5	3880.4	3624.8	3399.5	3255.8	3131.4	3062.3	3034.7
4268.8	25°	4202.4	4176.2	4166.5	3986.8	3575.0	3276.5	3043.0	2892.4	2831.6	2816.4
4792.5	27.5°	4665.4	4599.0	4473.3	4044.9	3483.8	3083.1	2794.2	2654.7	2620.1	2621.5
5465.5	30°	5281.7	5149.0	4840.9	4054.6	3334.6	2809.4	2540.0	2440.5	2423.9	2430.8
6030.7	32.5°	5852.4	5726.7	5216.8	4010.3	3105.2	2541.4	2312.0	2245.6	2220.8	2229.0
6461.9	35°	6300.2	6265.6	5565.0	3948.2	2823.3	2289.8	2107.4	2050.8	2002.4	1991.4
6868.2	37.5°	6723.1	6709.2	5826.2	3861.1	2544.1	2111.6	1943.0	1868.4	1797.9	1759.2
7317.3	40°	7187.4	7173.6	5997.5	3727.0	2296.8	1956.8	1795.1	1697.0	1609.9	1539.5
7825.8	42.5°	7709.7	7628.2	6079.1	3535.0	2086.7	1825.5	1674.9	1542.2	1427.5	1362.6
8400.7	45°	8280.5	8096.7	6077.7	3290.4	1909.8	1705.3	1546.4	1358.4	1252.0	1191.2
8990.8	47.5°	8885.8	8544.4	6003.1	3019.5	1738.5	1572.6	1347.4	1203.7	1133.2	1095.9
9632.0	50°	9510.4	8963.2	5875.9	2708.6	1563.0	1422.0	1223.0	1124.9	1071.0	1036.4
10267.7	52.5°	10097.7	9343.2	5722.5	2356.2	1384.7	1275.5	1167.7	1091.7	1035.1	996.4
10884.0	55°	10643.6	9670.7	5505.6	1995.5	1239.6	1177.4	1141.5	1077.9	1012.9	967.3
11510.0	57.5°	11128.6	9883.5	5131.1	1656.9	1135.9	1109.7	1113.8	1054.4	979.8	941.1
12126.4	60°	11532.1	10039.7	4576.9	1343.2	1051.6	1043.4	1071.0	1010.2	923.1	878.9
12647.4	62.5°	11774.0	10036.9	3897.0	1100.0	979.8	982.5	1014.3	954.9	866.5	825.0
12919.6	65°	11753.3	9790.9	3150.8	941.1	910.7	913.5	954.9	894.1	819.5	794.6
12782.8	67.5°	11337.3	9191.2	2417.0	837.4	834.7	847.1	895.5	852.6	790.5	787.7
11967.5	70°	10211.0	7946.1	1741.2	754.5	755.9	773.9	837.4	826.4	775.3	780.8
10061.8	72.5°	8187.9	6058.4	1169.1	667.5	668.9	697.9	782.2	805.7	760.1	833.3
7139.0	75°	5453.1	3778.2	751.8	574.9	576.3	613.6	733.8	765.6	718.6	830.5
3714.6	77.5°	2620.1	1698.4	544.5	483.7	483.7	518.2	634.3	685.4	612.2	645.4
1194.0	80°	905.2	638.4	428.4	389.7	381.4	404.9	534.8	594.2	527.9	486.4
389.7	82.5°	356.5	331.7	344.1	302.6	275.0	290.2	416.0	490.6	388.3	351.0
219.7	85°	204.5	215.6	243.2	200.4	158.9	178.3	305.4	352.4	293.0	258.4
71.9	87.5°	55.3	76.0	111.9	103.6	71.9	76.0	145.1	194.9	168.6	129.9
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°
2917.2
2991.9
3110.7
3254.4
3387.1
3434.1
3435.5
3374.7
3232.3
3030.6
2819.1
2625.7
2454.3
2240.1
1999.6
1760.6
1546.4
1366.7
1188.5
1087.6
1024.0
979.8
949.4
916.2
859.6
812.6
793.2
791.8
779.4
844.4
837.4
591.5
456.0
349.6
263.9
134.0
0.0

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