

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: P951608

Luminaire Tested: **GALN-SB5C-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26670 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

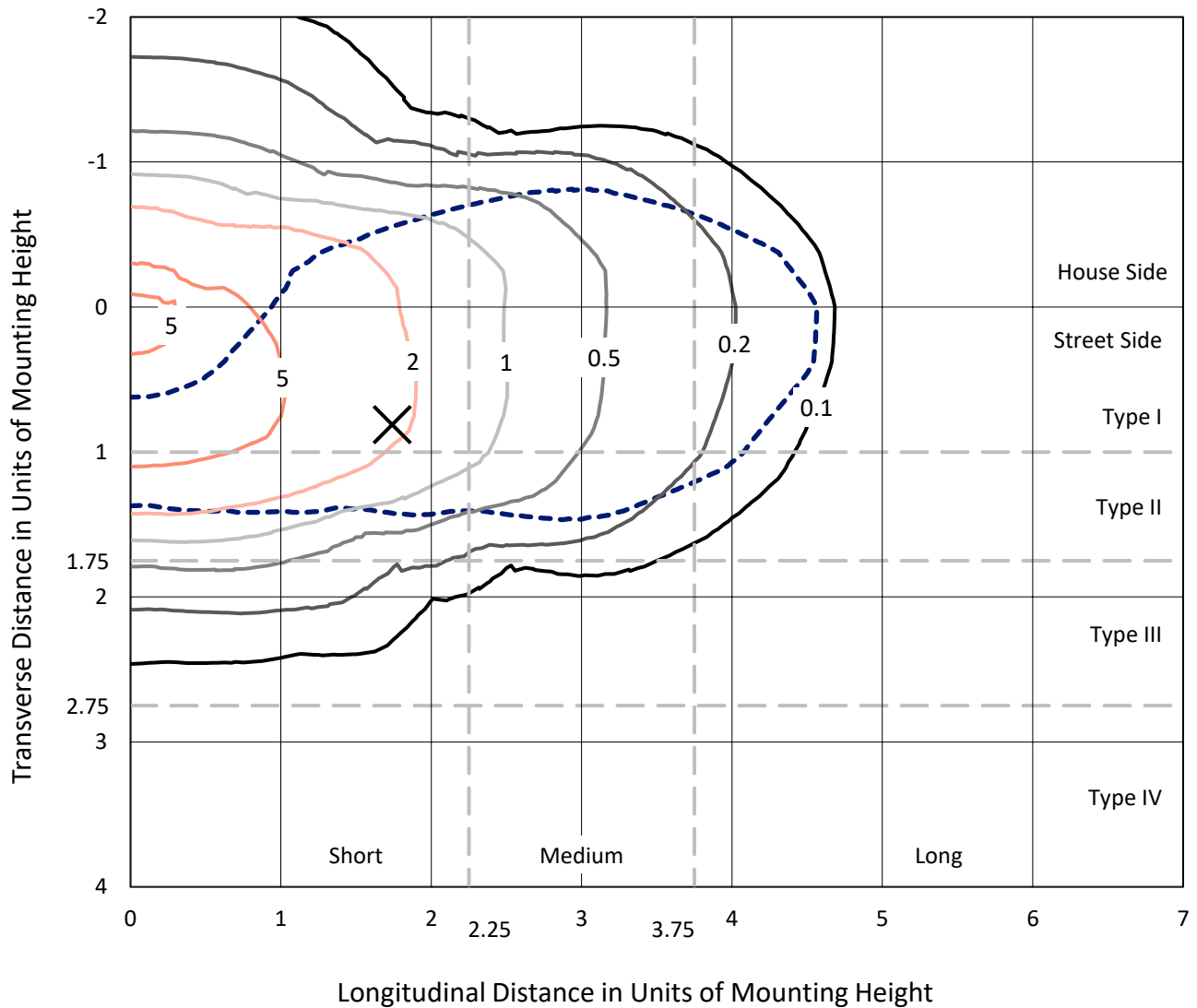
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

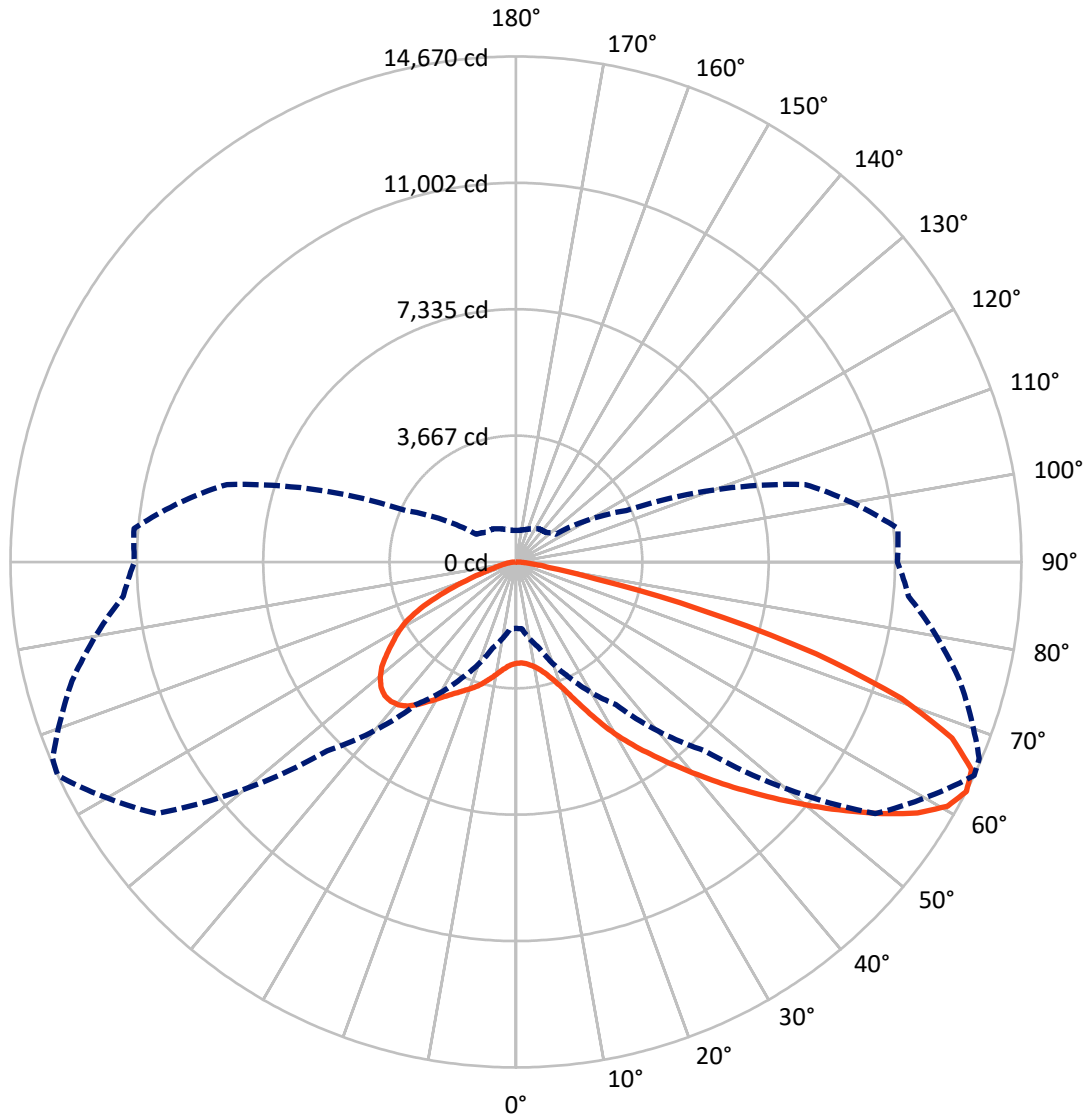
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8415.9	0.0	8415.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18254.1	0.0	18254.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	26670.0	0.0	26670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	1.1
10°-20°	993.6	3.7
20°-30°	2014.7	7.6
30°-40°	3486.3	13.1
40°-50°	5275.9	19.8
50°-60°	6185.6	23.2
60°-70°	5185.9	19.4
70°-80°	2863.0	10.7
80°-90°	371.9	1.4
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°	26670.0	100.0
0°-180°	26670.0	100.0

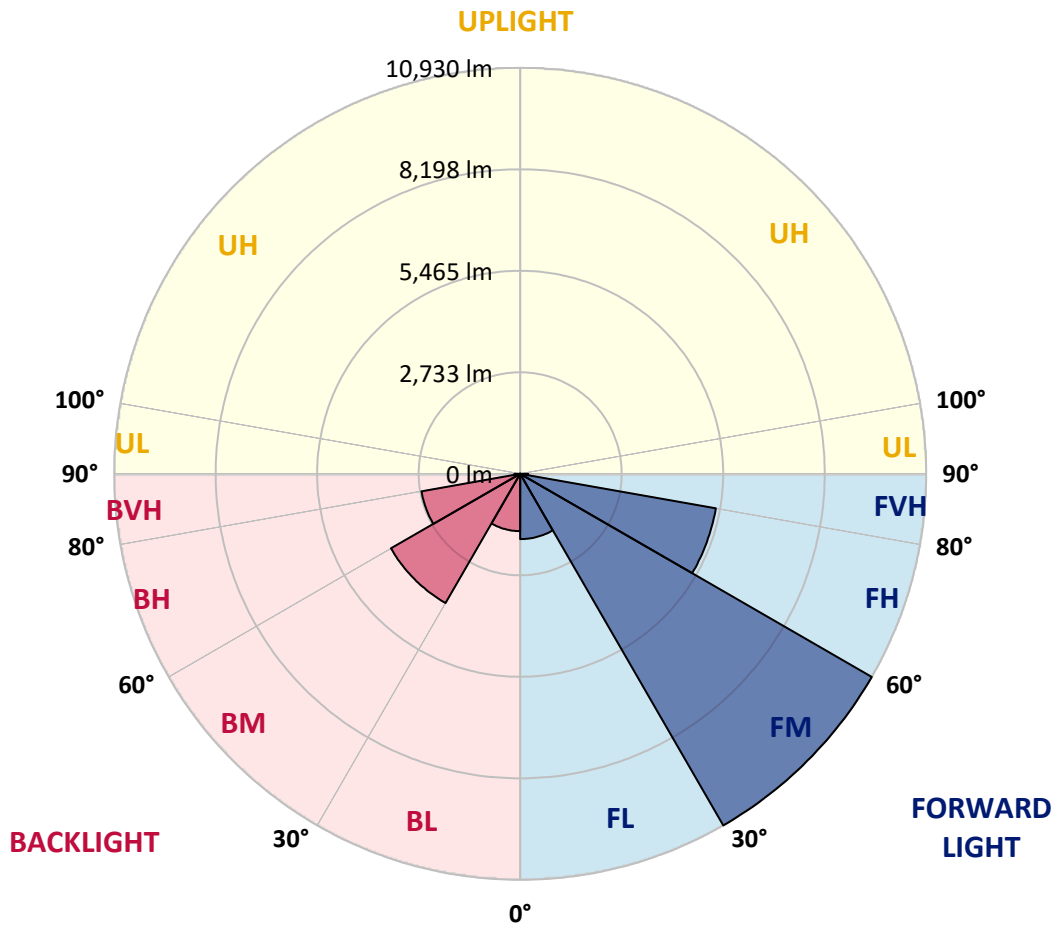


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.9	6.6			
FM (30°-60°)	10930.2	41.0			
FH (60°-80°)	5349.2	20.1			G3/7500
FVH (80°-90°)	216.8	0.8			G2/225
BL (0°-30°)	1543.4	5.8	B3/2500		
BM (30°-60°)	4017.6	15.1	B3/5000		
BH (60°-80°)	2699.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	155.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9
2.5°	2919.5	2911.2	2918.2	2918.2	2920.9	2919.5	2929.2	2932.0	2936.2	2944.5
5°	2890.5	2889.1	2901.6	2912.6	2923.7	2933.4	2945.8	2963.8	2966.6	2976.3
7.5°	2880.8	2872.5	2891.9	2905.7	2932.0	2955.5	2988.7	3019.2	3031.6	3035.8
10°	2955.5	2941.7	2959.7	2968.0	2990.1	3013.6	3052.4	3100.8	3114.6	3131.2
12.5°	3082.8	3067.6	3093.9	3106.3	3127.1	3147.9	3174.1	3221.2	3228.1	3258.5
15°	3257.2	3239.2	3255.8	3271.0	3305.6	3325.0	3351.3	3396.9	3396.9	3420.4
17.5°	3493.8	3470.2	3482.7	3488.2	3510.4	3539.4	3583.7	3623.8	3644.6	3636.3
20°	3846.6	3817.5	3817.5	3789.9	3781.6	3805.1	3863.2	3918.6	3940.7	3897.8
22.5°	4376.6	4335.0	4311.5	4217.4	4180.1	4182.8	4241.0	4308.8	4326.7	4250.6
25°	5050.4	4985.4	4953.5	4815.2	4730.8	4657.4	4703.1	4790.3	4815.2	4721.1
27.5°	5724.2	5728.4	5698.0	5531.9	5392.2	5258.0	5234.4	5325.8	5352.0	5245.5
30°	6669.3	6571.1	6512.9	6313.7	6114.4	5926.3	5829.4	5866.8	5873.7	5746.4
32.5°	7484.3	7459.4	7334.8	7160.5	6904.5	6609.8	6447.9	6388.4	6377.3	6196.1
35°	8412.7	8398.9	8267.4	8059.9	7783.2	7373.6	7081.6	6911.4	6897.6	6643.0
37.5°	9356.4	9356.4	9227.7	9000.8	8714.4	8202.4	7758.2	7488.4	7444.2	7112.1
40°	10109.1	10063.4	10087.0	9991.5	9663.6	9119.8	8509.6	8118.0	8058.5	7660.0
42.5°	10536.7	10521.4	10662.6	10769.1	10634.9	10200.4	9337.0	8800.2	8717.1	8263.3
45°	10632.1	10615.5	10867.4	11257.6	11445.7	11267.2	10236.4	9518.3	9417.3	8894.2
47.5°	10412.1	10378.9	10748.4	11364.1	11967.4	12281.5	11210.5	10297.3	10150.6	9508.6
50°	9750.7	9718.9	10277.9	11095.7	12143.1	12970.5	12267.6	11123.3	10899.2	10167.2
52.5°	8313.1	8328.3	9204.2	10327.7	11912.0	13399.5	13178.1	11993.7	11723.8	10841.1
55°	6475.6	6508.8	7585.3	8822.3	10987.7	13334.4	13799.4	12890.3	12621.9	11474.8
57.5°	4636.7	4783.4	5792.0	7016.6	9212.5	12303.6	13935.0	13742.6	13482.5	12166.6
60°	3005.3	3031.6	4069.4	5303.6	7015.2	10471.6	13659.6	14388.8	14185.4	12872.3
62.5°	1926.1	1944.1	2576.4	3709.6	5049.0	7747.2	12732.5	14669.7	14607.4	13338.6
65°	1415.5	1401.7	1731.0	2451.9	3401.1	4777.8	10932.4	14534.1	14657.2	13630.5
67.5°	1181.7	1162.3	1324.2	1697.8	2505.8	2713.4	8088.9	13652.7	14103.8	13597.3
70°	1076.5	1059.9	1158.1	1260.5	1955.1	1816.8	4077.7	11869.1	12563.7	13219.6
72.5°	911.8	882.8	1017.0	1119.4	1520.7	1393.4	1685.3	9117.0	9963.8	12008.9
75°	707.1	687.7	802.5	985.2	1142.9	1087.6	1065.4	5536.1	6460.4	9287.2
77.5°	560.4	534.1	639.3	767.9	1028.1	820.5	776.2	2384.1	3300.1	5929.0
80°	422.0	398.5	485.7	607.4	790.1	618.5	502.3	972.7	1243.9	3004.0
82.5°	300.3	279.5	339.0	445.5	531.3	554.9	308.6	545.2	613.0	1158.1
85°	192.3	179.9	226.9	279.5	337.6	357.0	188.2	285.0	312.7	477.4
87.5°	105.2	85.8	121.8	130.1	156.4	142.5	89.9	103.8	112.1	173.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2938.9	0°	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9
2944.5	2.5°	2950.0	2954.1	2968.0	2972.1	2981.8	2994.3	3002.6	3010.9	3010.9	3019.2
2988.7	5°	2990.1	2999.8	3028.9	3044.1	3069.0	3093.9	3109.1	3127.1	3138.2	3143.7
3059.3	7.5°	3067.6	3082.8	3124.3	3150.6	3193.5	3228.1	3251.6	3276.5	3282.1	3297.3
3157.5	10°	3172.8	3190.7	3237.8	3287.6	3338.8	3381.7	3403.8	3421.8	3428.7	3431.5
3283.5	12.5°	3293.1	3319.4	3380.3	3441.2	3495.2	3532.5	3538.0	3533.9	3514.5	3497.9
3438.4	15°	3441.2	3464.7	3532.5	3598.9	3651.5	3658.4	3623.8	3601.7	3578.2	3574.0
3611.4	17.5°	3618.3	3630.8	3693.0	3758.1	3762.2	3738.7	3687.5	3666.7	3644.6	3629.4
3836.9	20°	3824.5	3820.3	3864.6	3892.3	3863.2	3791.3	3713.8	3679.2	3657.0	3639.1
4113.7	22.5°	4070.8	4038.9	4033.4	4026.5	3949.0	3798.2	3693.0	3648.7	3614.2	3589.2
4499.7	25°	4429.1	4307.4	4223.0	4175.9	4001.6	3760.8	3626.6	3528.4	3463.3	3420.4
4971.5	27.5°	4877.4	4672.7	4459.6	4344.7	4001.6	3684.7	3466.1	3307.0	3200.4	3156.2
5428.1	30°	5305.0	5090.5	4776.4	4548.1	3991.9	3560.2	3207.4	2986.0	2861.4	2817.2
5818.3	32.5°	5670.3	5436.4	5112.7	4770.9	3968.4	3358.2	2886.3	2641.4	2521.0	2468.5
6204.4	35°	6009.3	5760.2	5450.3	5015.8	3906.1	3062.1	2533.5	2346.7	2212.5	2128.1
6597.3	37.5°	6356.6	6060.5	5769.9	5237.2	3794.0	2716.1	2262.3	2103.2	1945.4	1832.0
7015.2	40°	6734.3	6380.1	6111.7	5368.6	3610.0	2386.8	2052.0	1906.7	1739.3	1618.9
7496.7	42.5°	7175.7	6763.4	6492.2	5436.4	3358.2	2153.0	1915.0	1772.5	1614.7	1516.5
8012.8	45°	7636.5	7185.4	6839.5	5435.1	3077.3	2043.7	1870.7	1729.6	1555.2	1452.9
8542.8	47.5°	8119.4	7626.8	7139.7	5346.5	2833.8	2058.9	1845.8	1636.9	1444.6	1344.9
9078.3	50°	8603.7	8109.7	7430.3	5180.5	2730.0	2025.7	1753.1	1506.8	1279.9	1190.0
9580.5	52.5°	9083.8	8623.0	7680.8	4943.9	2624.8	1902.5	1634.1	1338.0	1212.1	1149.8
10099.4	55°	9566.7	9130.8	7953.3	4599.3	2361.9	1758.6	1434.9	1274.4	1158.1	1101.4
10607.2	57.5°	10051.0	9717.5	8212.1	4254.8	2031.2	1581.5	1325.6	1196.9	1104.2	1055.7
11032.0	60°	10554.6	10388.6	8479.1	3937.9	1704.7	1354.6	1245.3	1134.6	1040.5	986.6
11440.2	62.5°	11073.5	11127.5	8688.1	3529.7	1404.4	1216.2	1173.4	1059.9	968.6	917.4
11777.8	65°	11596.6	11840.1	8825.1	2963.8	1138.8	1084.8	1095.9	978.3	885.5	841.3
12025.5	67.5°	11990.9	12353.4	8786.3	2242.9	934.0	960.3	999.0	892.5	805.3	770.7
11985.4	70°	12035.2	12292.5	8404.4	1535.9	781.8	838.5	891.1	808.1	718.1	693.2
11420.8	72.5°	11445.7	11462.3	7340.4	1003.2	661.4	736.1	777.6	722.3	635.1	610.2
9991.5	75°	9900.2	9479.5	5389.4	661.4	553.5	632.3	671.1	632.3	547.9	553.5
7476.0	77.5°	7500.9	6713.6	3272.4	470.4	462.1	531.3	583.9	556.2	484.3	543.8
3759.4	80°	3864.6	3632.1	1459.8	351.5	365.3	424.8	480.1	444.2	383.3	365.3
839.9	82.5°	885.5	1029.5	575.6	251.8	264.3	305.8	366.7	333.5	275.4	232.5
350.1	85°	309.9	339.0	254.6	157.7	155.0	190.9	249.1	222.8	186.8	149.4
148.1	87.5°	98.2	128.7	95.5	63.6	66.4	85.8	114.8	105.2	87.2	56.7
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

<u>180°</u>
2938.9
3019.2
3146.5
3291.8
3424.6
3497.9
3574.0
3630.8
3640.4
3597.5
3437.0
3178.3
2843.4
2494.8
2155.8
1862.4
1642.4
1535.9
1469.5
1358.8
1195.5
1149.8
1095.9
1047.4
982.4
916.0
839.9
772.1
694.6
608.8
534.1
478.8
333.5
229.7
157.7
59.5
0.0

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