

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: P950012

Luminaire Tested: **GALN-SB4C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950012
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-SB4C-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27331 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

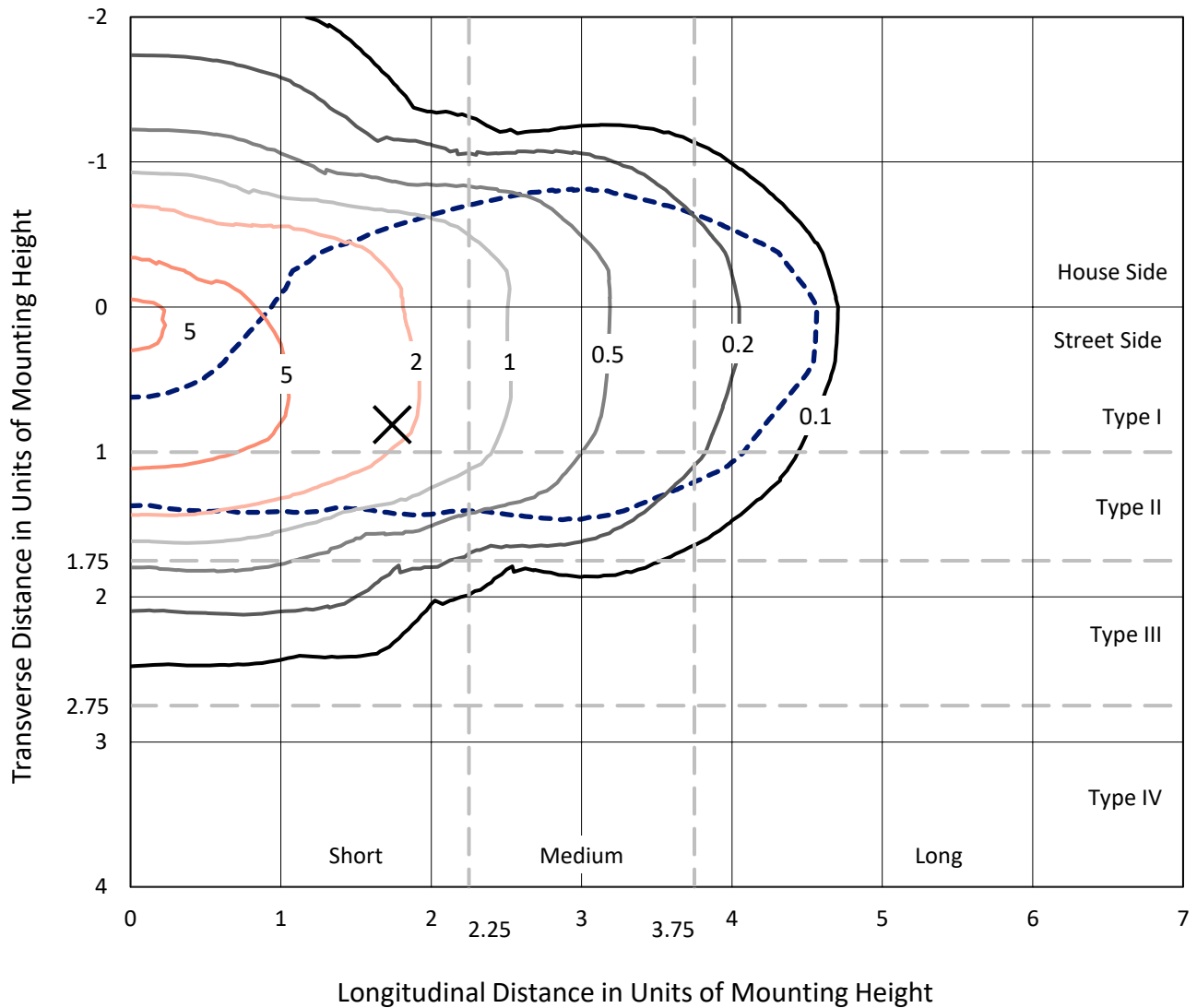
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

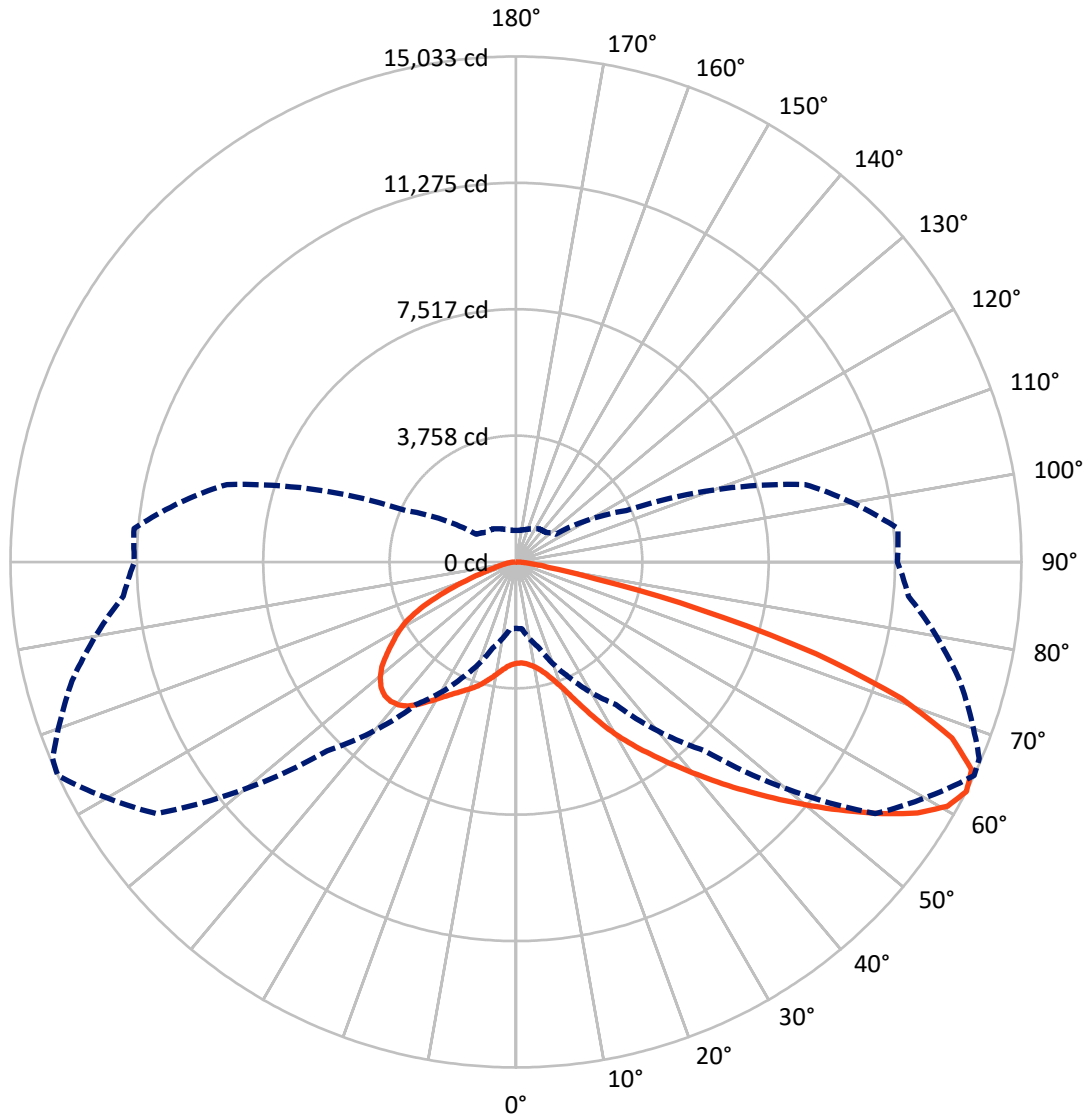
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	8624.5	0.0	8624.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18706.5	0.0	18706.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	27331.0	0.0	27331.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	1.1
10°-20°	1018.2	3.7
20°-30°	2064.6	7.6
30°-40°	3572.7	13.1
40°-50°	5406.7	19.8
50°-60°	6338.9	23.2
60°-70°	5314.4	19.4
70°-80°	2934.0	10.7
80°-90°	381.1	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°	27331.0	100.0
0°-180°	27331.0	100.0

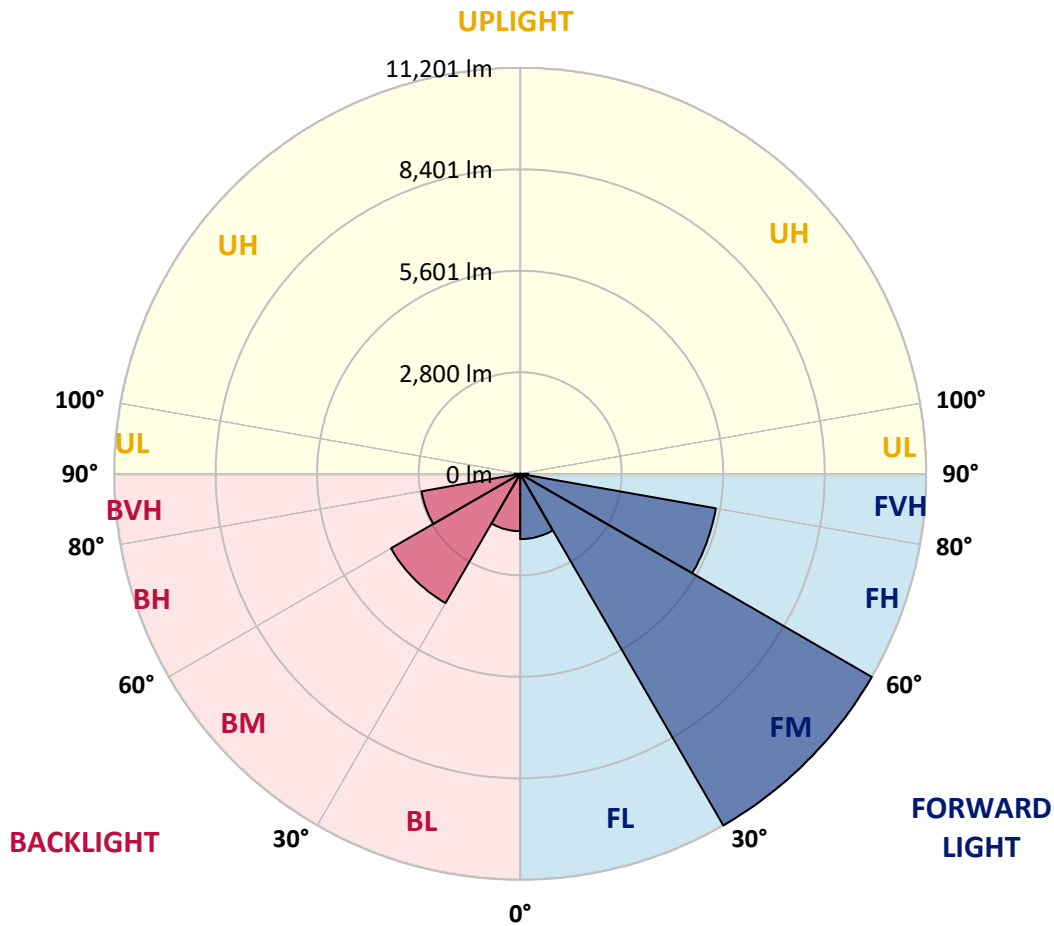


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.5	6.6			
FM (30°-60°)	11201.1	41.0			
FH (60°-80°)	5481.8	20.1			G3/7500
FVH (80°-90°)	222.1	0.8			G2/225
BL (0°-30°)	1581.6	5.8	B3/2500		
BM (30°-60°)	4117.2	15.1	B3/5000		
BH (60°-80°)	2766.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	159.0	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°	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8
2.5°	2991.9	2983.4	2990.5	2990.5	2993.3	2991.9	3001.8	3004.7	3008.9	3017.4
5°	2962.1	2960.7	2973.5	2984.8	2996.2	3006.1	3018.8	3037.3	3040.1	3050.0
7.5°	2952.2	2943.7	2963.5	2977.7	3004.7	3028.8	3062.8	3094.0	3106.8	3111.0
10°	3028.8	3014.6	3033.0	3041.5	3064.2	3088.3	3128.0	3177.7	3191.8	3208.9
12.5°	3159.2	3143.6	3170.6	3183.3	3204.6	3225.9	3252.8	3301.0	3308.1	3339.3
15°	3337.9	3319.5	3336.5	3352.1	3387.5	3407.4	3434.3	3481.1	3481.1	3505.2
17.5°	3580.4	3556.3	3569.0	3574.7	3597.4	3627.2	3672.5	3713.7	3734.9	3726.4
20°	3941.9	3912.2	3912.2	3883.8	3875.3	3899.4	3959.0	4015.7	4038.4	3994.4
22.5°	4485.0	4442.5	4418.4	4322.0	4283.7	4286.5	4346.1	4415.5	4434.0	4356.0
25°	5175.6	5108.9	5076.3	4934.5	4848.0	4772.9	4819.7	4909.0	4934.5	4838.1
27.5°	5866.1	5870.4	5839.2	5669.0	5525.8	5388.3	5364.2	5457.7	5484.7	5375.5
30°	6834.6	6733.9	6674.4	6470.2	6266.0	6073.1	5973.9	6012.2	6019.3	5888.8
32.5°	7669.8	7644.2	7516.6	7338.0	7075.6	6773.6	6607.7	6546.7	6535.4	6349.6
35°	8621.2	8607.0	8472.3	8259.6	7976.1	7556.3	7257.1	7082.7	7068.6	6807.7
37.5°	9588.3	9588.3	9456.4	9223.9	8930.3	8405.7	7950.5	7674.0	7628.7	7288.3
40°	10359.7	10312.9	10337.0	10239.1	9903.1	9345.8	8720.5	8319.2	8258.2	7849.9
42.5°	10797.8	10782.2	10926.8	11036.0	10898.5	10453.2	9568.4	9018.3	8933.2	8468.1
45°	10895.6	10878.6	11136.7	11536.6	11729.4	11546.5	10490.1	9754.2	9650.7	9114.7
47.5°	10670.2	10636.2	11014.8	11645.7	12264.0	12585.9	11488.4	10552.5	10402.2	9744.3
50°	9992.4	9959.8	10532.6	11370.7	12444.1	13292.0	12571.7	11399.0	11169.3	10419.2
52.5°	8519.1	8534.7	9432.3	10583.7	12207.3	13731.6	13504.7	12290.9	12014.4	11109.8
55°	6636.1	6670.1	7773.3	9040.9	11260.1	13664.9	14141.4	13209.8	12934.7	11759.2
57.5°	4751.6	4901.9	5935.6	7190.5	9440.8	12608.5	14280.3	14083.2	13816.7	12468.2
60°	3079.8	3106.8	4170.2	5435.1	7189.1	10731.2	13998.2	14745.4	14537.0	13191.3
62.5°	1973.8	1992.2	2640.3	3801.6	5174.2	7939.2	13048.1	15033.3	14969.5	13669.2
65°	1450.6	1436.4	1773.9	2512.6	3485.4	4896.2	11203.3	14894.3	15020.5	13968.4
67.5°	1210.9	1191.1	1357.0	1739.8	2567.9	2780.6	8289.4	13991.1	14453.3	13934.3
70°	1103.2	1086.2	1186.8	1291.8	2003.6	1861.8	4178.7	12163.3	12875.1	13547.2
72.5°	934.4	904.7	1042.2	1147.1	1558.3	1427.9	1727.1	9343.0	10210.8	12306.5
75°	724.6	704.7	822.4	1009.6	1171.2	1114.5	1091.8	5673.3	6620.5	9517.4
77.5°	574.3	547.3	655.1	787.0	1053.5	840.9	795.5	2443.2	3381.8	6076.0
80°	432.5	408.4	497.7	622.5	809.7	633.8	514.7	996.8	1274.8	3078.4
82.5°	307.7	286.4	347.4	456.6	544.5	568.6	316.2	558.7	628.2	1186.8
85°	197.1	184.3	232.5	286.4	346.0	365.8	192.8	292.1	320.5	489.2
87.5°	107.8	87.9	124.8	133.3	160.2	146.1	92.2	106.3	114.9	177.2
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°
3011.8	0°	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8	3011.8
3017.4	2.5°	3023.1	3027.4	3041.5	3045.8	3055.7	3068.5	3077.0	3085.5	3085.5	3094.0
3062.8	5°	3064.2	3074.1	3103.9	3119.5	3145.0	3170.6	3186.2	3204.6	3215.9	3221.6
3135.1	7.5°	3143.6	3159.2	3201.8	3228.7	3272.7	3308.1	3332.2	3357.7	3363.4	3379.0
3235.8	10°	3251.4	3269.8	3318.0	3369.1	3421.5	3465.5	3488.2	3506.6	3513.7	3516.6
3364.8	12.5°	3374.8	3401.7	3464.1	3526.5	3581.8	3620.1	3625.7	3621.5	3601.6	3584.6
3523.6	15°	3526.5	3550.6	3620.1	3688.1	3742.0	3749.1	3713.7	3691.0	3666.9	3662.6
3700.9	17.5°	3708.0	3720.7	3784.5	3851.2	3855.4	3831.3	3778.9	3757.6	3734.9	3719.3
3932.0	20°	3919.3	3915.0	3960.4	3988.7	3959.0	3885.2	3805.8	3770.4	3747.7	3729.2
4215.6	22.5°	4171.7	4139.0	4133.4	4126.3	4046.9	3892.3	3784.5	3739.2	3703.7	3678.2
4611.2	25°	4538.9	4414.1	4327.6	4279.4	4100.8	3854.0	3716.5	3615.8	3549.2	3505.2
5094.7	27.5°	4998.3	4788.5	4570.1	4452.4	4100.8	3776.0	3552.0	3388.9	3279.8	3234.4
5562.7	30°	5436.5	5216.7	4894.8	4660.9	4090.8	3648.4	3286.8	3060.0	2932.4	2887.0
5962.5	32.5°	5810.8	5571.2	5239.4	4889.1	4066.7	3441.4	2957.9	2706.9	2583.5	2529.6
6358.2	35°	6158.2	5903.0	5585.4	5140.1	4002.9	3138.0	2596.3	2404.9	2267.3	2180.8
6760.9	37.5°	6514.1	6210.7	5912.9	5367.0	3888.1	2783.5	2318.4	2155.3	1993.7	1877.4
7189.1	40°	6901.2	6538.2	6263.2	5501.7	3699.5	2446.0	2102.8	1954.0	1782.4	1659.0
7682.5	42.5°	7353.6	6931.0	6653.1	5571.2	3441.4	2206.4	1962.5	1816.4	1654.8	1554.1
8211.4	45°	7825.7	7363.5	7009.0	5569.8	3153.6	2094.3	1917.1	1772.5	1593.8	1488.9
8754.5	47.5°	8320.6	7815.8	7316.7	5479.0	2904.0	2109.9	1891.6	1677.5	1480.4	1378.3
9303.3	50°	8816.9	8310.7	7614.5	5308.9	2797.6	2075.9	1796.6	1544.2	1311.6	1219.4
9818.0	52.5°	9308.9	8836.8	7871.1	5066.4	2689.9	1949.7	1674.6	1371.2	1242.1	1178.3
10349.7	55°	9803.8	9357.2	8150.5	4713.3	2420.5	1802.2	1470.4	1305.9	1186.8	1128.7
10870.1	57.5°	10300.1	9958.4	8415.6	4360.2	2081.6	1620.7	1358.4	1226.5	1131.5	1081.9
11305.4	60°	10816.2	10646.1	8689.3	4035.5	1746.9	1388.2	1276.2	1162.7	1066.3	1011.0
11723.7	62.5°	11348.0	11403.3	8903.4	3617.2	1439.2	1246.4	1202.4	1086.2	992.6	940.1
12069.7	65°	11884.0	12133.5	9043.8	3037.3	1167.0	1111.7	1123.0	1002.5	907.5	862.1
12323.5	67.5°	12288.1	12659.6	9004.1	2298.5	957.1	984.1	1023.8	914.6	825.3	789.8
12282.4	70°	12333.5	12597.2	8612.7	1573.9	801.2	859.3	913.2	828.1	735.9	710.4
11703.9	72.5°	11729.4	11746.4	7522.3	1028.0	677.8	754.4	796.9	740.2	650.8	625.3
10239.1	75°	10145.5	9714.5	5523.0	677.8	567.2	648.0	687.7	648.0	561.5	567.2
7661.3	77.5°	7686.8	6880.0	3353.5	482.1	473.6	544.5	598.4	570.0	496.3	557.3
3852.6	80°	3960.4	3722.2	1496.0	360.2	374.3	435.3	492.0	455.2	392.8	374.3
860.7	82.5°	907.5	1055.0	589.9	258.1	270.8	313.4	375.8	341.7	282.2	238.2
358.7	85°	317.6	347.4	260.9	161.6	158.8	195.7	255.2	228.3	191.4	153.1
151.7	87.5°	100.7	131.9	97.8	65.2	68.1	87.9	117.7	107.8	89.3	58.1
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>
3011.8
3094.0
3224.5
3373.3
3509.5
3584.6
3662.6
3720.7
3730.7
3686.7
3522.2
3257.1
2913.9
2556.6
2209.2
1908.6
1683.1
1573.9
1505.9
1392.4
1225.1
1178.3
1123.0
1073.4
1006.8
938.7
860.7
791.2
711.8
623.9
547.3
490.6
341.7
235.4
161.6
61.0
0.0

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