

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: P950161

Luminaire Tested: **GALN-SB4C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22328 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

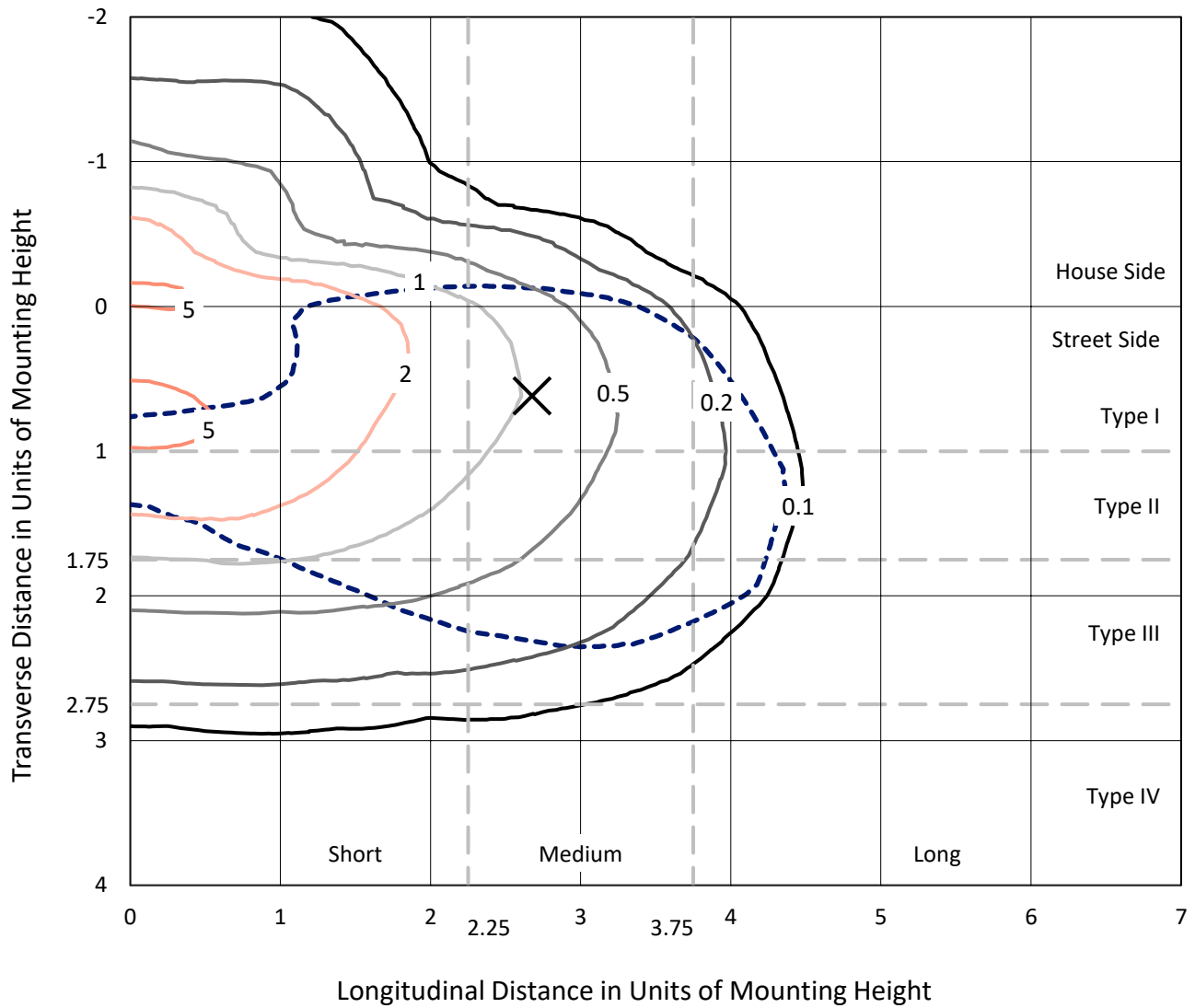
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

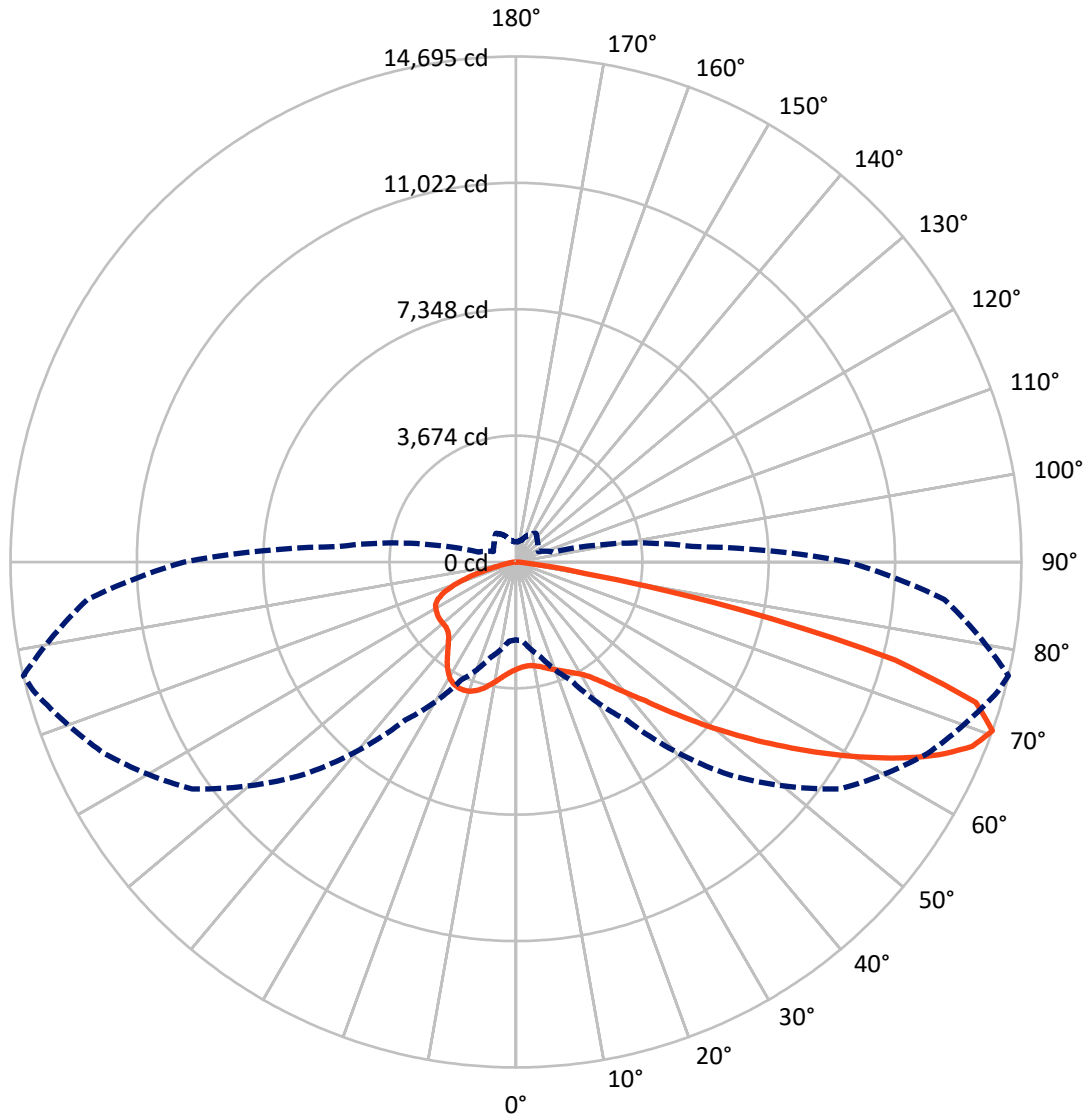
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4889.5	0.0	4889.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17438.5	0.0	17438.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	22328.0	0.0	22328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.3
10°-20°	857.4	3.8
20°-30°	1466.3	6.6
30°-40°	2357.9	10.6
40°-50°	3681.4	16.5
50°-60°	4917.4	22.0
60°-70°	5241.2	23.5
70°-80°	3226.5	14.5
80°-90°	282.7	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°	22328.0	100.0
0°-180°	22328.0	100.0



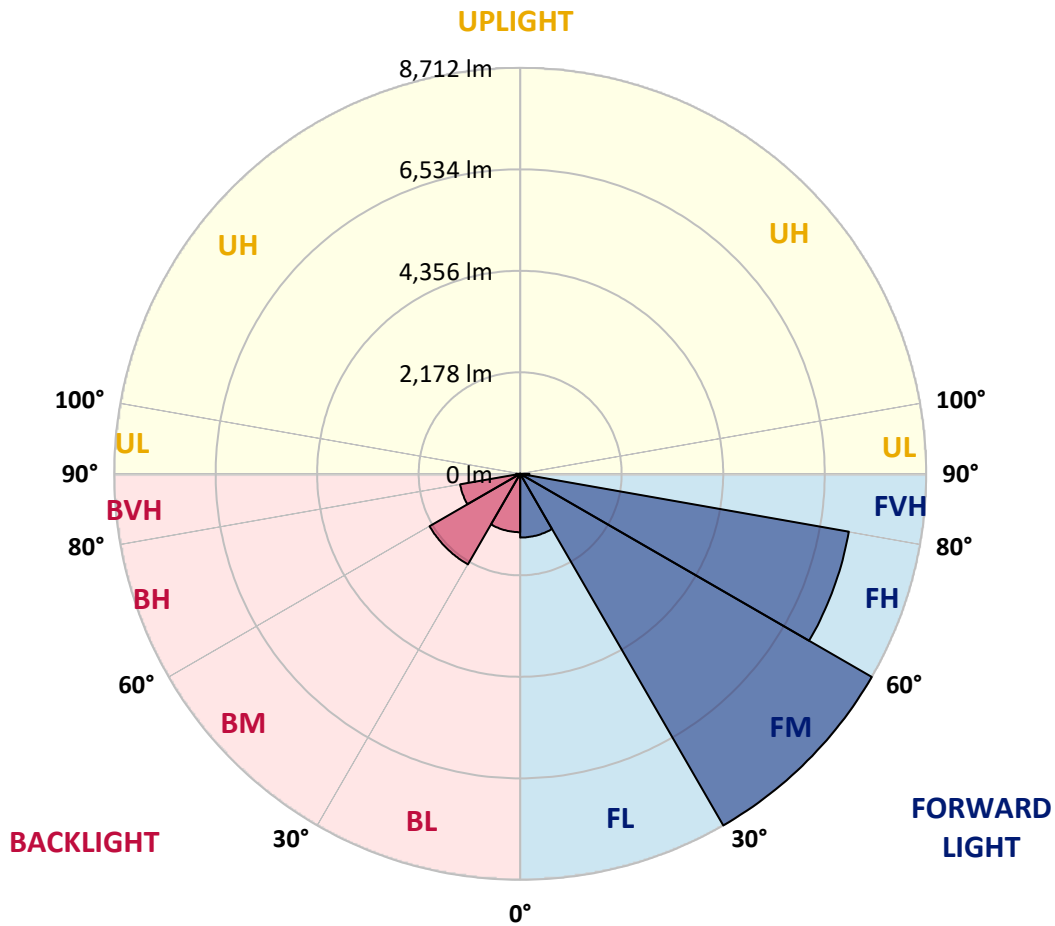
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.9	6.1			
FM (30°-60°)	8711.9	39.0			
FH (60°-80°)	7161.0	32.1			G3/7500
FVH (80°-90°)	197.7	0.9			G2/225
BL (0°-30°)	1252.8	5.6	B3/2500		
BM (30°-60°)	2244.9	10.1	B2/2500		
BH (60°-80°)	1306.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	85.0	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0
2.5°	2871.4	2870.2	2885.1	2889.7	2917.1	2936.6	2973.2	3012.0	3062.4	3068.1
5°	2705.6	2705.6	2722.7	2741.0	2776.5	2815.4	2871.4	2938.9	3025.8	3039.5
7.5°	2564.9	2574.1	2588.9	2624.4	2665.6	2721.6	2807.4	2903.4	3017.8	3039.5
10°	2451.7	2462.0	2480.3	2508.9	2570.6	2648.4	2760.5	2884.0	3037.2	3071.5
12.5°	2416.3	2426.6	2436.8	2458.6	2515.8	2607.2	2741.0	2893.1	3084.1	3118.4
15°	2498.6	2511.2	2503.2	2497.5	2527.2	2610.7	2750.2	2926.3	3142.4	3191.6
17.5°	2688.4	2693.0	2674.7	2621.0	2616.4	2661.0	2793.6	2972.0	3215.6	3269.3
20°	2994.9	2986.9	2949.1	2842.8	2782.2	2773.0	2868.0	3040.6	3291.1	3348.2
22.5°	3411.1	3402.0	3326.5	3158.4	3023.5	2934.3	2975.4	3129.8	3375.7	3439.7
25°	3930.3	3917.7	3806.8	3578.1	3368.8	3148.1	3121.8	3247.6	3479.7	3539.2
27.5°	4536.4	4526.1	4406.0	4104.1	3802.2	3440.9	3303.6	3386.0	3588.4	3655.8
30°	5188.2	5217.9	5005.2	4680.4	4298.5	3822.8	3548.4	3556.4	3729.0	3789.6
32.5°	5954.3	6005.8	5749.6	5338.0	4816.5	4237.9	3857.1	3794.2	3933.7	3984.0
35°	6713.6	6771.9	6559.3	6104.1	5503.8	4727.3	4179.6	4067.5	4205.9	4260.8
37.5°	7370.0	7447.8	7338.0	6942.3	6239.1	5317.4	4600.4	4388.8	4540.9	4609.5
40°	7888.0	8007.0	7999.0	7751.9	7105.9	6033.2	5134.4	4785.6	4957.2	5031.5
42.5°	8308.8	8411.8	8501.0	8488.4	8010.4	6846.3	5762.2	5301.4	5431.7	5517.5
45°	8599.3	8709.1	8901.2	9108.2	8880.6	7716.5	6481.5	5913.2	6032.1	6161.3
47.5°	8858.9	8983.5	9232.8	9561.0	9619.3	8590.2	7269.4	6625.6	6734.2	6868.0
50°	8881.8	8989.2	9375.8	9841.2	10144.2	9429.5	8115.6	7424.9	7526.7	7669.6
52.5°	8329.4	8498.7	9173.4	9833.2	10385.5	10131.6	8956.1	8256.2	8370.6	8542.1
55°	6465.5	6713.6	8579.9	9526.7	10299.7	10585.6	9755.4	9140.2	9286.6	9466.1
57.5°	5569.0	5677.6	6810.8	8968.7	9908.6	10703.4	10430.1	10033.3	10268.8	10465.5
60°	5005.2	5095.5	5765.6	8100.7	9394.1	10517.0	10951.5	10865.8	11272.9	11507.3
62.5°	4401.4	4487.2	5096.7	6763.9	8735.4	10207.1	11280.9	11634.2	12302.0	12558.2
65°	3802.2	3875.4	4459.7	5683.3	7898.3	9897.2	11451.3	12298.6	13254.6	13519.9
67.5°	3134.4	3195.0	3747.3	4794.8	6880.6	9473.0	11535.9	12821.2	14083.6	14311.2
70°	2261.9	2308.8	2879.4	3791.9	5603.3	8743.4	11501.6	13191.7	14513.6	14695.4
72.5°	1069.2	1111.5	1781.6	2462.0	3957.7	7323.1	10807.4	12897.8	14076.8	13986.4
75°	570.6	607.2	1023.5	1350.5	2090.4	5020.1	8844.0	11110.5	11820.6	11381.5
77.5°	386.5	415.1	633.5	810.8	954.8	2383.1	5684.5	7692.5	7400.9	6675.9
80°	306.5	336.2	519.2	548.9	462.0	861.1	2348.8	3560.9	2558.1	2045.8
82.5°	235.6	268.7	436.8	397.9	251.6	353.3	683.8	1126.4	655.2	498.6
85°	144.1	179.5	343.1	253.9	141.8	161.2	232.1	313.3	200.1	167.0
87.5°	73.2	102.9	173.8	92.6	64.0	37.7	61.8	61.8	52.6	45.7
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°
3115.0	0°	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0	3115.0
3099.0	2.5°	3126.4	3149.3	3188.1	3224.7	3253.3	3280.8	3308.2	3323.1	3327.7	3346.0
3116.1	5°	3163.0	3205.3	3280.8	3351.7	3396.3	3423.7	3443.2	3454.6	3456.9	3462.6
3163.0	7.5°	3230.5	3297.9	3403.1	3474.0	3507.2	3504.9	3496.9	3468.3	3456.9	3446.6
3231.6	10°	3325.4	3414.6	3543.8	3593.0	3572.4	3517.5	3446.6	3363.1	3324.2	3286.5
3325.4	12.5°	3443.2	3556.4	3683.3	3681.0	3579.2	3438.6	3273.9	3145.8	3064.6	3006.3
3440.9	15°	3586.1	3716.5	3813.7	3735.9	3512.9	3260.2	3018.9	2851.9	2778.8	2714.7
3557.5	17.5°	3733.6	3873.1	3917.7	3718.7	3346.0	2996.0	2722.7	2591.2	2519.2	2484.9
3683.3	20°	3877.7	4016.1	3979.5	3620.4	3092.1	2696.4	2452.9	2380.8	2366.0	2374.0
3805.6	22.5°	4029.8	4153.3	3992.0	3430.6	2768.5	2390.0	2256.2	2258.5	2291.6	2315.6
3933.7	25°	4185.3	4268.8	3958.9	3156.1	2420.8	2164.7	2131.5	2168.1	2233.3	2280.2
4077.8	27.5°	4335.1	4371.7	3886.8	2816.5	2122.4	2003.5	2009.2	2084.6	2183.0	2248.2
4252.8	30°	4504.3	4463.2	3748.5	2434.6	1915.4	1865.1	1913.1	2001.2	2099.5	2157.8
4473.5	32.5°	4695.3	4542.1	3528.9	2081.2	1769.0	1754.2	1833.1	1890.2	1933.7	1950.9
4766.2	35°	4933.2	4653.0	3247.6	1833.1	1637.5	1673.0	1748.4	1719.9	1702.7	1693.6
5159.6	37.5°	5241.9	4802.8	2918.3	1671.8	1531.2	1614.7	1645.5	1556.3	1488.9	1455.7
5636.4	40°	5613.6	5022.4	2601.5	1547.2	1463.7	1564.3	1510.6	1403.1	1317.3	1270.5
6172.7	42.5°	6026.4	5252.2	2335.1	1453.4	1426.0	1523.2	1411.1	1283.0	1144.7	1129.8
6812.0	45°	6459.8	5488.9	2153.3	1381.4	1407.7	1487.7	1353.9	1147.0	1048.6	1109.2
7453.5	47.5°	6893.2	5706.2	2043.5	1327.6	1398.5	1447.7	1303.6	1071.5	1001.7	1089.8
8140.7	50°	7375.7	5900.6	1994.3	1288.8	1388.2	1431.7	1228.1	1052.0	952.6	1010.9
8852.0	52.5°	7854.9	6051.5	1957.7	1249.9	1373.4	1419.1	1191.6	1029.2	893.1	896.5
9567.9	55°	8332.9	6149.9	1917.7	1198.4	1340.2	1391.7	1188.1	1004.0	848.5	832.5
10324.9	57.5°	8842.9	6205.9	1868.5	1141.2	1283.0	1321.9	1184.7	984.6	834.8	808.5
11099.0	60°	9362.0	6288.2	1804.5	1071.5	1206.4	1238.4	1176.7	977.7	826.8	782.2
11828.6	62.5°	9827.4	6316.8	1727.9	1005.2	1108.1	1156.1	1159.5	972.0	805.0	728.4
12434.7	65°	10132.8	6193.3	1594.1	929.7	1001.7	1071.5	1126.4	952.6	766.2	689.5
12734.3	67.5°	10120.2	5841.1	1384.8	832.5	898.8	977.7	1078.3	919.4	719.3	641.5
12507.9	70°	9649.1	5145.9	1119.5	719.3	785.6	877.1	1016.6	870.2	663.2	588.9
11121.9	72.5°	8275.7	4027.5	813.0	586.6	654.1	773.0	936.5	810.8	606.1	542.0
8219.7	75°	5912.0	2548.9	551.2	450.5	508.9	655.2	837.1	741.0	553.5	544.3
4116.7	77.5°	3020.0	1217.9	364.8	329.3	354.5	516.9	703.3	662.1	561.5	449.4
1171.0	80°	982.3	449.4	229.8	224.1	235.6	344.2	544.3	543.2	425.4	305.3
283.6	82.5°	313.3	193.3	149.8	144.1	138.4	216.1	379.7	430.0	287.0	193.3
101.8	85°	124.6	115.5	88.1	81.2	58.3	101.8	199.0	285.9	213.8	139.5
26.3	87.5°	45.7	45.7	24.0	17.2	12.6	34.3	53.7	85.8	122.4	72.0
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

<u>180°</u>
3115.0
3356.2
3471.7
3448.9
3275.1
2992.6
2707.9
2495.2
2370.5
2321.4
2292.8
2264.2
2171.6
1960.0
1702.7
1463.7
1273.9
1144.7
1141.2
1130.9
1054.3
920.5
843.9
811.9
785.6
728.4
689.5
644.9
595.8
538.6
513.4
400.2
269.9
192.1
142.9
70.9
0.0

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