

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: P949928

Luminaire Tested: **GALN-SB4C-740-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949928  
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-740-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

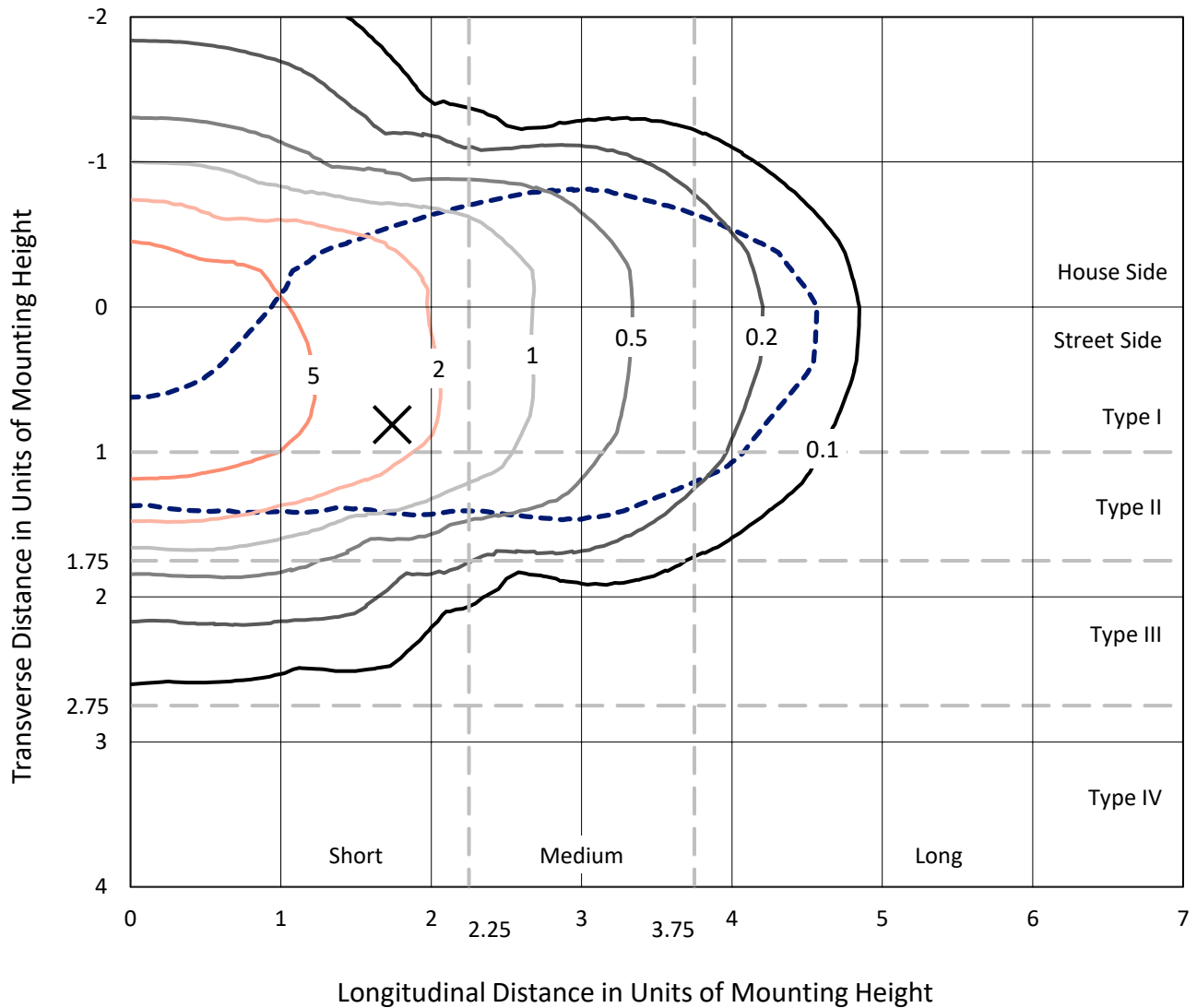
Lumens per Lamp: N/A  
Luminaire Lumens: 32180 lumens  
Efficiency: N/A  
Efficacy: 160.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

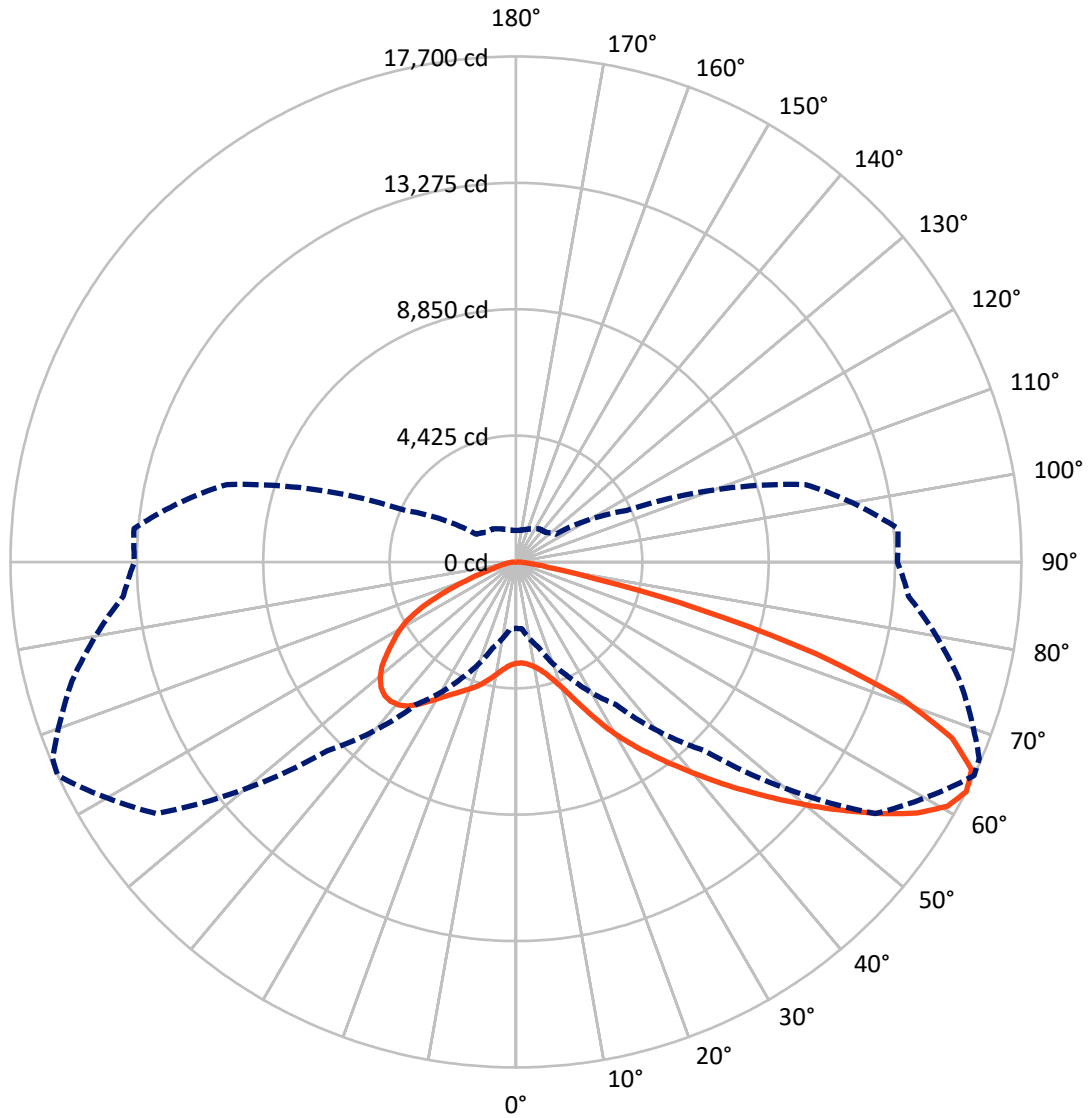
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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
<b>House Side</b>	Lumens	10154.6	0.0	10154.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	22025.4	0.0	22025.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	32180.0	0.0	32180.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.5	1.1
10°-20°	1198.9	3.7
20°-30°	2430.9	7.6
30°-40°	4206.6	13.1
40°-50°	6365.9	19.8
50°-60°	7463.6	23.2
60°-70°	6257.3	19.4
70°-80°	3454.5	10.7
80°-90°	448.7	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°	32180.0	100.0
0°-180°	32180.0	100.0

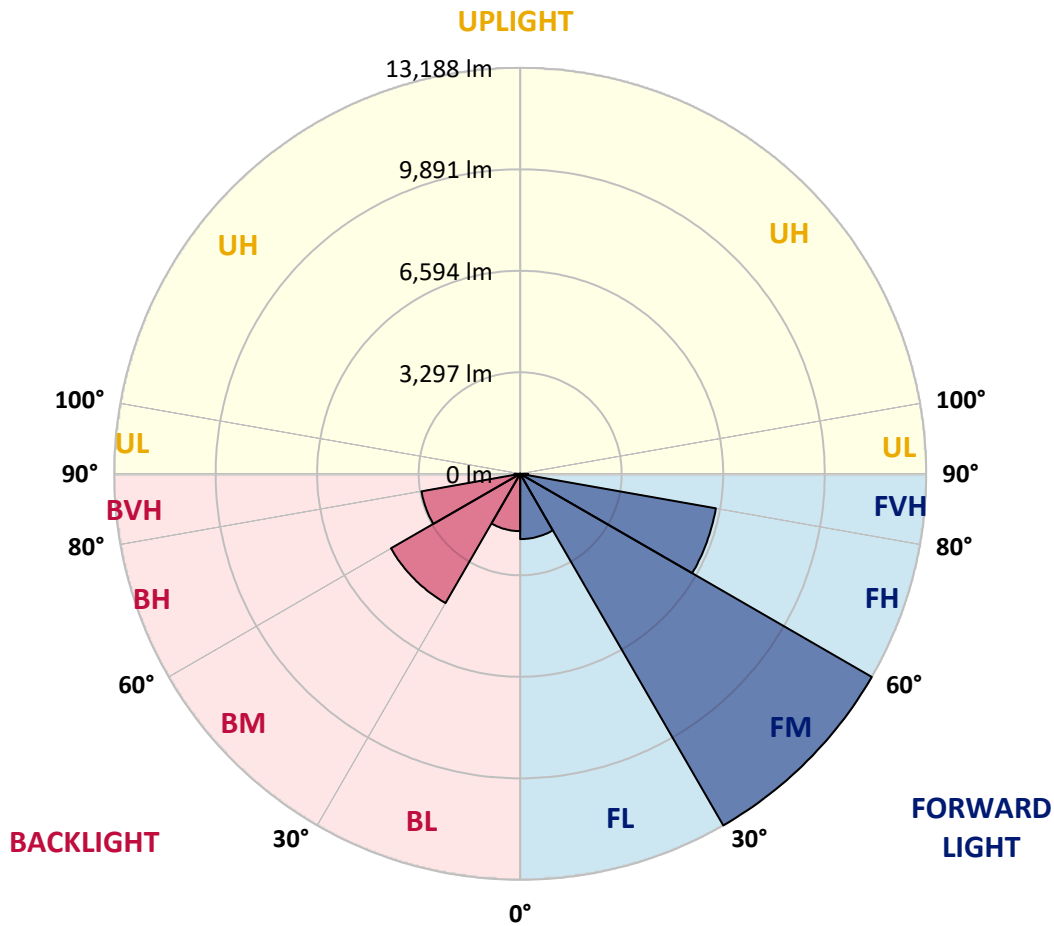


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2121.1	6.6			
FM	(30°-60°)	13188.4	41.0			
FH	(60°-80°)	6454.4	20.1			G3/7500
FVH	(80°-90°)	261.5	0.8			G3/500
BL	(0°-30°)	1862.2	5.8	B3/2500		
BM	(30°-60°)	4847.7	15.1	B3/5000		
BH	(60°-80°)	3257.5	10.1	B4/5000		G4/5000
BVH	(80°-90°)	187.2	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°	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1
2.5°	3522.7	3512.7	3521.1	3521.1	3524.4	3522.7	3534.4	3537.7	3542.8	3552.8
5°	3487.7	3486.0	3501.0	3514.4	3527.7	3539.4	3554.4	3576.1	3579.5	3591.2
7.5°	3476.0	3466.0	3489.3	3506.0	3537.7	3566.1	3606.2	3642.9	3658.0	3663.0
10°	3566.1	3549.4	3571.1	3581.2	3607.9	3636.3	3683.0	3741.4	3758.1	3778.2
12.5°	3719.7	3701.4	3733.1	3748.1	3773.2	3798.2	3829.9	3886.7	3895.0	3931.8
15°	3930.1	3908.4	3928.4	3946.8	3988.5	4011.9	4043.6	4098.7	4098.7	4127.1
17.5°	4215.6	4187.2	4202.2	4208.9	4235.6	4270.7	4324.1	4372.5	4397.6	4387.5
20°	4641.3	4606.3	4606.3	4572.9	4562.8	4591.2	4661.3	4728.1	4754.8	4703.1
22.5°	5280.7	5230.7	5202.3	5088.7	5043.7	5047.0	5117.1	5198.9	5220.6	5128.8
25°	6093.8	6015.3	5976.9	5810.0	5708.1	5619.7	5674.8	5779.9	5810.0	5696.5
27.5°	6906.9	6911.9	6875.2	6674.8	6506.2	6344.2	6315.9	6426.0	6457.8	6329.2
30°	8047.2	7928.6	7858.5	7618.1	7377.7	7150.6	7033.8	7078.8	7087.2	6933.6
32.5°	9030.5	9000.5	8850.2	8639.9	8331.0	7975.4	7780.0	7708.3	7694.9	7476.2
35°	10150.8	10134.1	9975.5	9725.1	9391.1	8897.0	8544.7	8339.3	8322.6	8015.4
37.5°	11289.4	11289.4	11134.1	10860.3	10514.7	9897.0	9361.1	9035.5	8982.1	8581.4
40°	12197.6	12142.5	12170.9	12055.7	11660.0	11003.9	10267.7	9795.2	9723.4	9242.6
42.5°	12713.5	12695.2	12865.5	12994.0	12832.1	12307.8	11266.0	10618.3	10518.1	9970.5
45°	12828.7	12808.7	13112.5	13583.4	13810.4	13595.0	12351.2	11484.7	11362.9	10731.8
47.5°	12563.3	12523.2	12969.0	13711.9	14439.8	14818.8	13526.6	12424.7	12247.7	11473.1
50°	11765.2	11726.8	12401.3	13388.0	14651.9	15650.2	14802.1	13421.4	13150.9	12267.8
52.5°	10030.6	10048.9	11105.8	12461.4	14373.0	16167.8	15900.7	14471.5	14146.0	13080.8
55°	7813.4	7853.5	9152.4	10645.0	13257.8	16089.3	16650.3	15553.4	15229.5	13845.5
57.5°	5594.6	5771.6	6988.7	8466.2	11115.8	14845.5	16813.9	16581.8	16268.0	14680.2
60°	3626.2	3658.0	4910.1	6399.3	8464.6	12635.1	16481.7	17361.5	17116.1	15531.7
62.5°	2324.0	2345.7	3108.7	4476.0	6092.1	9347.7	15363.1	17700.4	17625.3	16094.3
65°	1707.9	1691.2	2088.6	2958.4	4103.7	5764.9	13191.0	17536.8	17685.4	16446.6
67.5°	1425.8	1402.4	1597.7	2048.5	3023.5	3274.0	9760.1	16473.3	17017.6	16406.5
70°	1298.9	1278.9	1397.4	1520.9	2359.1	2192.1	4920.1	14321.3	15159.4	15950.8
72.5°	1100.2	1065.2	1227.1	1350.7	1834.8	1681.2	2033.5	11000.6	12022.3	14489.9
75°	853.1	829.8	968.3	1188.7	1379.0	1312.3	1285.5	6679.8	7795.1	11205.9
77.5°	676.2	644.4	771.3	926.6	1240.5	990.0	936.6	2876.6	3981.8	7154.0
80°	509.2	480.8	586.0	732.9	953.3	746.3	606.0	1173.7	1500.9	3624.6
82.5°	362.3	337.2	409.0	537.6	641.1	669.5	372.3	657.8	739.6	1397.4
85°	232.1	217.0	273.8	337.2	407.4	430.7	227.1	343.9	377.3	576.0
87.5°	126.9	103.5	146.9	156.9	188.7	172.0	108.5	125.2	135.2	208.7
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°
3546.1	0°	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1	3546.1
3552.8	2.5°	3559.5	3564.5	3581.2	3586.2	3597.9	3612.9	3622.9	3632.9	3632.9	3642.9
3606.2	5°	3607.9	3619.6	3654.6	3673.0	3703.0	3733.1	3751.4	3773.2	3786.5	3793.2
3691.3	7.5°	3701.4	3719.7	3769.8	3801.5	3853.3	3895.0	3923.4	3953.5	3960.1	3978.5
3809.9	10°	3828.2	3850.0	3906.7	3966.8	4028.6	4080.3	4107.1	4128.8	4137.1	4140.5
3961.8	12.5°	3973.5	4005.2	4078.7	4152.1	4217.3	4262.3	4269.0	4264.0	4240.6	4220.6
4148.8	15°	4152.1	4180.5	4262.3	4342.5	4405.9	4414.3	4372.5	4345.8	4317.4	4312.4
4357.5	17.5°	4365.8	4380.9	4456.0	4534.5	4539.5	4511.1	4449.3	4424.3	4397.6	4379.2
4629.6	20°	4614.6	4609.6	4663.0	4696.4	4661.3	4574.5	4481.0	4439.3	4412.6	4390.9
4963.5	22.5°	4911.8	4873.4	4866.7	4858.4	4764.9	4582.9	4456.0	4402.6	4360.8	4330.8
5429.3	25°	5344.2	5197.3	5095.4	5038.7	4828.3	4537.8	4375.9	4257.3	4178.9	4127.1
5998.6	27.5°	5885.1	5638.0	5380.9	5242.3	4828.3	4446.0	4182.2	3990.2	3861.6	3808.2
6549.6	30°	6401.0	6142.2	5763.2	5487.8	4816.6	4295.7	3870.0	3602.9	3452.6	3399.2
7020.4	32.5°	6841.8	6559.6	6168.9	5756.6	4788.2	4052.0	3482.7	3187.1	3041.9	2978.5
7486.2	35°	7250.8	6950.3	6576.3	6052.1	4713.1	3694.7	3056.9	2831.5	2669.6	2567.7
7960.4	37.5°	7669.9	7312.6	6962.0	6319.2	4577.9	3277.3	2729.7	2537.7	2347.4	2210.5
8464.6	40°	8125.6	7698.2	7374.3	6477.8	4355.8	2880.0	2475.9	2300.6	2098.6	1953.4
9045.6	42.5°	8658.2	8160.7	7833.5	6559.6	4052.0	2597.8	2310.6	2138.7	1948.3	1829.8
9668.3	45°	9214.2	8669.9	8252.5	6557.9	3713.1	2465.9	2257.2	2086.9	1876.6	1753.0
10307.7	47.5°	9796.8	9202.5	8614.8	6451.1	3419.2	2484.3	2227.2	1975.1	1743.0	1622.8
10953.8	50°	10381.2	9785.2	8965.4	6250.7	3294.0	2444.2	2115.3	1818.1	1544.3	1435.8
11559.9	52.5°	10960.5	10404.6	9267.6	5965.3	3167.1	2295.6	1971.7	1614.4	1462.5	1387.4
12186.0	55°	11543.2	11017.3	9596.5	5549.5	2849.9	2122.0	1731.3	1537.6	1397.4	1329.0
12798.7	57.5°	12127.5	11725.2	9908.7	5133.8	2450.9	1908.3	1599.4	1444.1	1332.3	1273.9
13311.2	60°	12735.2	12534.9	10230.9	4751.5	2056.9	1634.5	1502.6	1369.0	1255.5	1190.4
13803.7	62.5°	13361.3	13426.4	10483.0	4259.0	1694.6	1467.5	1415.8	1278.9	1168.7	1106.9
14211.1	65°	13992.4	14286.2	10648.3	3576.1	1374.0	1308.9	1322.3	1180.4	1068.5	1015.1
14509.9	67.5°	14468.2	14905.6	10601.6	2706.3	1126.9	1158.7	1205.4	1076.9	971.7	929.9
14461.5	70°	14521.6	14832.2	10140.8	1853.2	943.3	1011.7	1075.2	975.0	866.5	836.4
13780.4	72.5°	13810.4	13830.4	8856.9	1210.4	798.0	888.2	938.3	871.5	766.3	736.3
12055.7	75°	11945.5	11438.0	6502.8	798.0	667.8	763.0	809.7	763.0	661.1	667.8
9020.5	77.5°	9050.6	8100.6	3948.5	567.6	557.6	641.1	704.5	671.2	584.3	656.1
4536.1	80°	4663.0	4382.5	1761.4	424.1	440.8	512.5	579.3	535.9	462.5	440.8
1013.4	82.5°	1068.5	1242.1	694.5	303.9	318.9	369.0	442.4	402.4	332.2	280.5
422.4	85°	374.0	409.0	307.2	190.3	187.0	230.4	300.5	268.8	225.4	180.3
178.6	87.5°	118.5	155.3	115.2	76.8	80.1	103.5	138.6	126.9	105.2	68.5
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>
3546.1
3642.9
3796.5
3971.8
4132.1
4220.6
4312.4
4380.9
4392.6
4340.8
4147.1
3834.9
3430.9
3010.2
2601.1
2247.2
1981.7
1853.2
1773.0
1639.5
1442.5
1387.4
1322.3
1263.8
1185.4
1105.2
1013.4
931.6
838.1
734.6
644.4
577.7
402.4
277.1
190.3
71.8
0.0

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