

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: P949351

Luminaire Tested: **GALN-SB4A-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17092 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

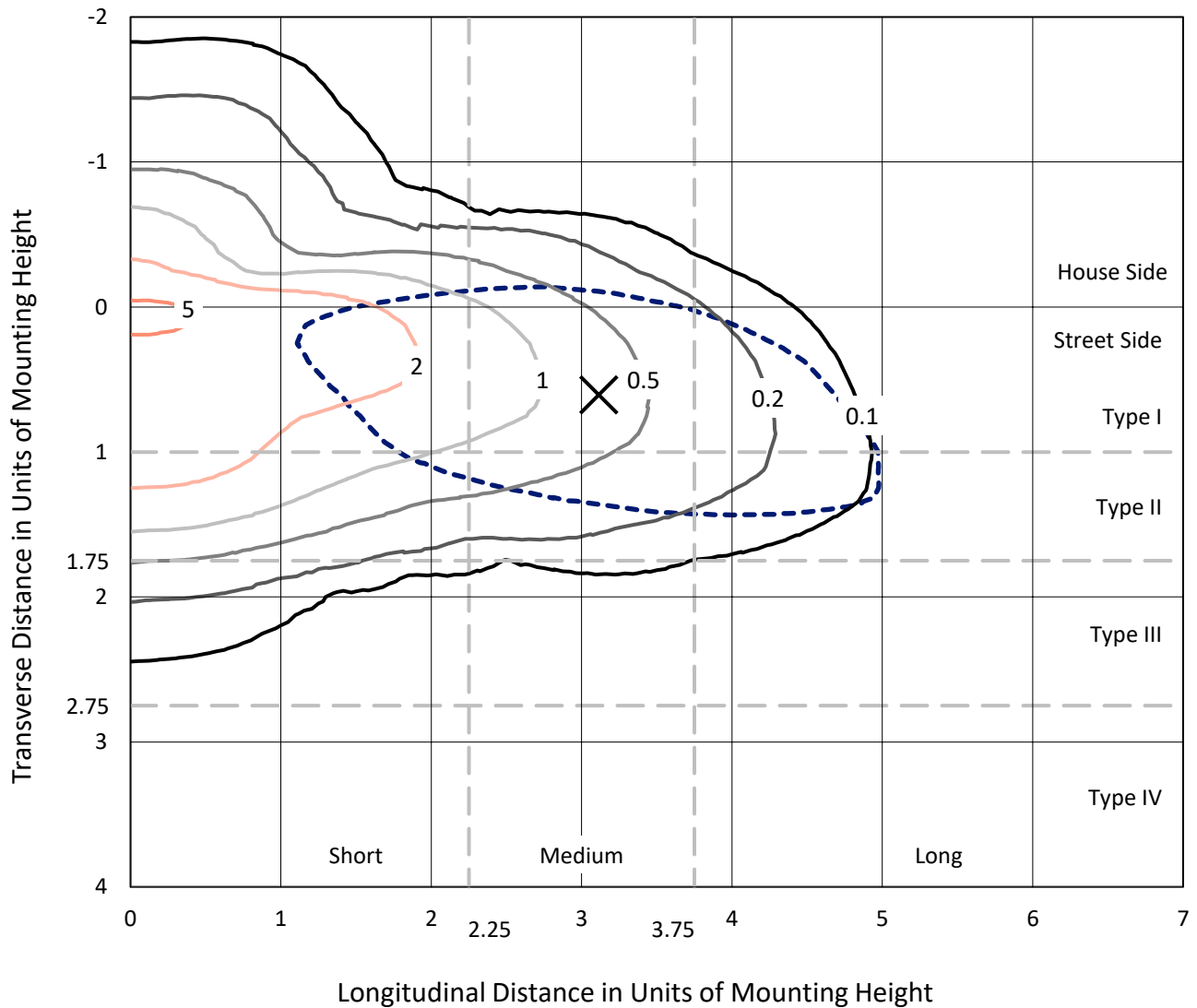
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

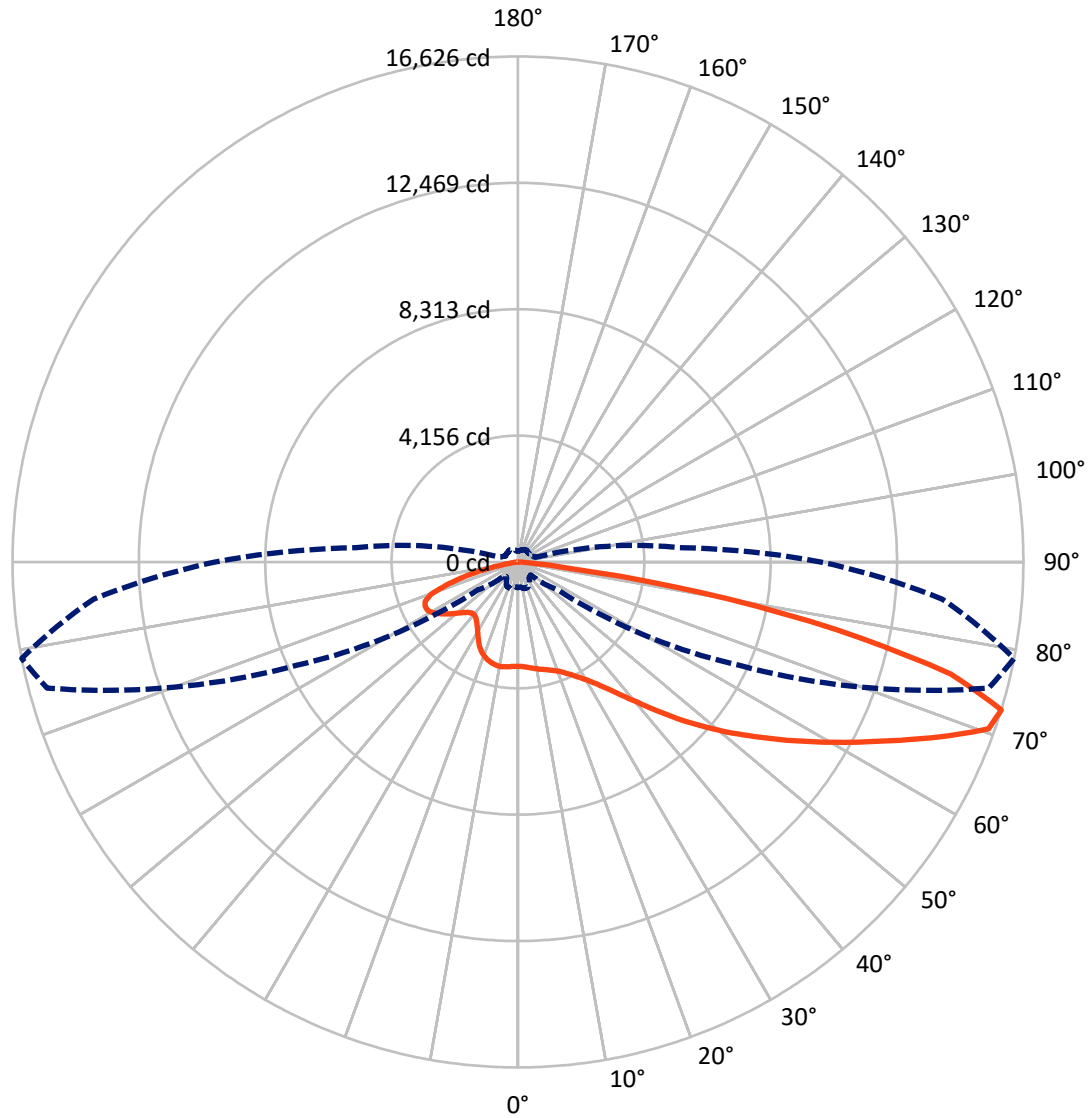
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.2	0.0	3761.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	13330.8	0.0	13330.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	17092.0	0.0	17092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.4	1.8
10°-20°	814.3	4.8
20°-30°	1313.9	7.7
30°-40°	1972.0	11.5
40°-50°	2797.3	16.4
50°-60°	3532.7	20.7
60°-70°	3587.9	21.0
70°-80°	2445.3	14.3
80°-90°	317.3	1.9
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°	17092.0	100.0
0°-180°	17092.0	100.0

Coefficient of Utilization



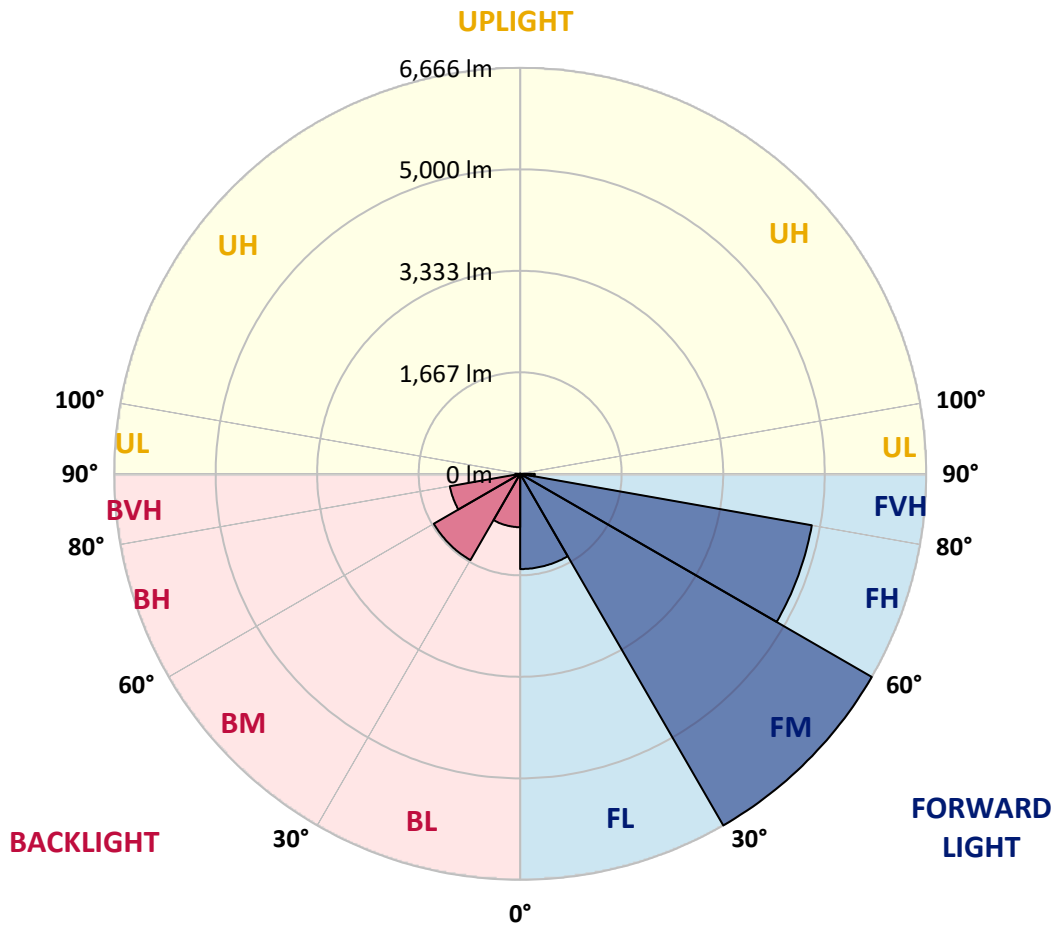
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1563.5	9.1			
FM (30°-60°)	6666.2	39.0			
FH (60°-80°)	4862.1	28.4			G2/5000
FVH (80°-90°)	239.0	1.4			G3/500
BL (0°-30°)	876.1	5.1	B2/1000		
BM (30°-60°)	1635.7	9.6	B2/2500		
BH (60°-80°)	1171.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	78.3	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1
2.5°	3432.9	3416.6	3426.5	3422.9	3427.4	3432.9	3434.7	3437.4	3446.4	3445.5
5°	3425.6	3409.4	3422.9	3418.4	3430.2	3442.8	3453.7	3463.6	3478.1	3484.4
7.5°	3410.3	3399.4	3413.0	3426.5	3448.2	3467.2	3482.6	3505.2	3526.0	3529.6
10°	3320.8	3312.6	3344.3	3379.5	3439.2	3490.7	3524.2	3550.4	3573.0	3576.6
12.5°	3227.6	3217.7	3252.9	3300.9	3397.6	3490.7	3561.2	3595.6	3615.5	3627.2
15°	3212.3	3204.1	3224.0	3265.6	3346.1	3466.3	3586.6	3649.8	3667.0	3680.6
17.5°	3286.4	3271.0	3279.2	3293.6	3340.6	3443.7	3606.5	3711.3	3737.5	3752.0
20°	3458.2	3436.5	3423.8	3394.9	3386.8	3447.3	3604.6	3785.5	3819.8	3837.9
22.5°	3686.9	3672.5	3645.3	3572.1	3492.5	3491.6	3639.0	3880.4	3944.6	3961.8
25°	3963.6	3941.9	3907.5	3808.1	3655.3	3579.3	3696.9	4001.5	4109.1	4113.7
27.5°	4281.8	4249.3	4202.3	4071.2	3865.0	3716.8	3785.5	4140.8	4298.1	4296.3
30°	4617.2	4584.7	4535.0	4375.8	4116.4	3902.1	3908.4	4290.9	4522.3	4512.4
32.5°	4862.2	4837.8	4827.9	4704.9	4405.7	4120.9	4049.5	4457.2	4799.0	4789.9
35°	5050.3	5018.7	5030.4	4968.0	4721.2	4365.9	4222.1	4655.2	5135.3	5134.4
37.5°	5236.5	5208.5	5218.5	5176.9	5013.2	4676.9	4432.8	4897.5	5552.1	5572.0
40°	5406.5	5376.7	5416.5	5377.6	5240.2	5007.8	4672.4	5171.4	6034.9	6072.8
42.5°	5508.7	5485.2	5551.2	5552.1	5437.3	5287.2	4935.5	5473.4	6593.6	6678.6
45°	5543.9	5535.8	5635.3	5656.0	5611.7	5449.0	5172.4	5802.5	7195.7	7347.6
47.5°	5506.0	5490.6	5628.0	5704.9	5740.1	5525.0	5368.5	6158.7	7810.5	8032.9
50°	5314.3	5284.5	5488.8	5650.6	5776.3	5574.7	5566.5	6570.1	8509.4	8752.6
52.5°	4969.8	4947.2	5179.6	5460.8	5696.7	5599.1	5788.9	7019.4	9173.0	9487.6
55°	4529.5	4499.7	4755.6	5122.6	5498.7	5590.9	6011.4	7522.1	9955.9	10275.1
57.5°	3831.6	3771.9	4095.6	4529.5	5176.0	5581.0	6242.8	8022.1	10751.5	11134.0
60°	2813.6	2725.0	3121.9	3636.3	4544.9	5484.3	6529.4	8582.6	11706.3	12050.7
62.5°	1638.2	1586.7	1846.2	2326.2	3425.6	4914.7	6690.3	9234.5	12644.7	13006.4
65°	1272.1	1257.6	1280.2	1317.3	1906.7	3679.7	6194.0	9870.1	13838.1	14091.3
67.5°	1163.6	1152.7	1162.7	1093.1	967.4	2049.6	4900.2	10031.0	15116.5	15270.2
70°	1034.3	1021.6	1054.2	994.5	761.3	932.1	3166.2	9446.9	16133.7	16422.1
72.5°	842.6	828.2	904.1	877.0	641.0	598.5	1590.3	8059.1	16027.0	16625.5
75°	647.3	639.2	729.6	752.2	522.6	471.0	763.1	5990.6	14103.9	14707.0
77.5°	502.7	496.4	542.5	624.7	421.3	365.3	469.2	3799.9	10628.6	10734.4
80°	377.0	358.9	401.4	483.7	328.2	266.7	318.2	2215.9	6718.4	6090.0
82.5°	236.0	226.9	262.2	322.8	231.4	183.5	207.0	1224.2	2692.4	1585.8
85°	134.7	131.1	142.8	184.4	125.7	105.8	118.4	540.7	491.8	338.1
87.5°	54.2	52.4	65.1	82.3	46.1	38.9	41.6	130.2	108.5	100.4
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°
3431.1	0°	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1	3431.1
3444.6	2.5°	3441.0	3441.0	3428.3	3408.5	3385.9	3371.4	3347.9	3341.6	3317.1	3309.9
3475.4	5°	3482.6	3475.4	3436.5	3380.4	3303.6	3233.1	3155.3	3106.5	3037.8	3013.4
3535.9	7.5°	3535.0	3515.1	3448.2	3325.3	3164.3	3006.1	2841.6	2716.8	2597.5	2555.0
3585.7	10°	3582.9	3554.9	3441.0	3225.8	2947.4	2673.4	2411.2	2227.7	2088.5	2031.5
3640.8	12.5°	3630.9	3579.3	3393.1	3060.4	2639.1	2267.5	1988.1	1845.3	1759.4	1690.7
3686.0	15°	3676.1	3603.7	3318.9	2838.9	2300.9	1923.9	1717.8	1603.9	1535.2	1490.0
3752.0	17.5°	3728.5	3624.5	3207.7	2557.7	1979.1	1686.1	1518.0	1449.3	1435.7	1430.3
3842.4	20°	3801.7	3643.5	3061.3	2243.1	1742.2	1496.3	1409.5	1403.2	1402.3	1399.5
3950.9	22.5°	3880.4	3666.1	2867.8	1957.4	1540.6	1377.8	1362.5	1349.8	1341.7	1340.8
4082.0	25°	3973.5	3673.4	2625.5	1723.2	1368.8	1321.8	1303.7	1284.7	1279.3	1279.3
4231.2	27.5°	4063.9	3648.9	2343.4	1519.8	1272.1	1270.3	1246.8	1240.4	1239.5	1242.2
4401.2	30°	4154.3	3602.8	2063.2	1331.7	1216.0	1216.0	1207.9	1212.4	1216.0	1225.1
4634.4	32.5°	4276.4	3554.0	1829.0	1192.5	1167.2	1158.2	1166.3	1175.3	1178.9	1190.7
4940.9	35°	4455.4	3519.7	1642.7	1116.6	1116.6	1104.8	1109.3	1107.5	1099.4	1094.0
5311.6	37.5°	4692.3	3517.9	1489.1	1081.3	1074.1	1072.3	1073.2	1061.4	1029.8	991.8
5760.0	40°	4977.1	3566.7	1370.6	1056.9	1051.5	1062.3	1056.9	1025.2	938.5	872.5
6311.5	42.5°	5359.5	3705.9	1294.7	1027.1	1043.3	1056.9	1035.2	925.8	867.0	822.7
6939.9	45°	5809.7	3931.9	1255.8	995.4	1028.0	1044.2	939.4	891.4	844.4	791.1
7625.2	47.5°	6319.7	4216.7	1246.8	965.6	993.6	1003.6	898.7	877.0	823.6	765.8
8314.1	50°	6874.8	4553.9	1271.2	930.3	943.9	909.5	885.1	865.2	810.1	753.1
9020.2	52.5°	7448.9	4925.5	1320.0	882.4	894.2	856.2	879.7	862.5	801.9	725.1
9749.8	55°	8013.0	5299.8	1367.0	826.3	843.5	808.3	864.3	851.7	764.9	678.1
10528.2	57.5°	8586.2	5672.3	1413.1	776.6	794.7	762.2	839.9	822.7	723.3	634.7
11378.1	60°	9182.0	6034.0	1434.8	728.7	741.4	719.7	802.8	773.0	676.3	590.4
12213.5	62.5°	9739.9	6335.0	1399.5	680.8	688.9	679.9	754.0	714.2	629.3	540.7
13084.1	65°	10299.5	6514.0	1291.1	633.8	635.6	631.1	685.3	651.0	574.1	497.3
13846.3	67.5°	10806.7	6614.4	1118.4	583.1	578.6	576.8	621.1	582.2	520.8	453.9
14425.8	70°	10914.3	6359.4	854.4	523.5	523.5	519.0	550.6	510.8	462.0	407.7
14010.8	72.5°	9968.6	5349.6	606.7	455.7	462.9	453.9	480.1	446.6	402.3	366.2
12075.1	75°	8038.3	3922.9	441.2	386.1	398.7	383.3	407.7	384.2	346.3	345.4
8321.3	77.5°	5523.1	2425.7	320.1	318.2	327.3	307.4	335.4	322.8	288.4	273.0
3621.8	80°	2357.0	967.4	233.3	245.9	245.9	227.8	260.4	264.0	234.2	226.9
698.9	82.5°	469.2	274.8	163.6	169.1	159.1	153.7	184.4	204.3	282.1	313.7
210.7	85°	141.0	101.3	98.5	92.2	81.4	82.3	108.5	205.2	253.1	144.7
69.6	87.5°	38.9	25.3	26.2	20.8	17.2	22.6	37.1	155.5	85.0	36.2
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>
3431.1
3321.7
3031.4
2560.4
2044.2
1713.3
1498.1
1433.9
1408.6
1350.7
1284.7
1249.5
1231.4
1200.6
1106.6
992.7
870.6
820.9
787.5
761.3
746.8
719.7
673.6
632.9
587.7
539.7
491.8
448.4
405.9
355.3
311.0
255.9
226.9
314.6
124.8
30.7
0.0

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