

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: P949183

Luminaire Tested: **GALN-SB4A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949183
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 17869 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

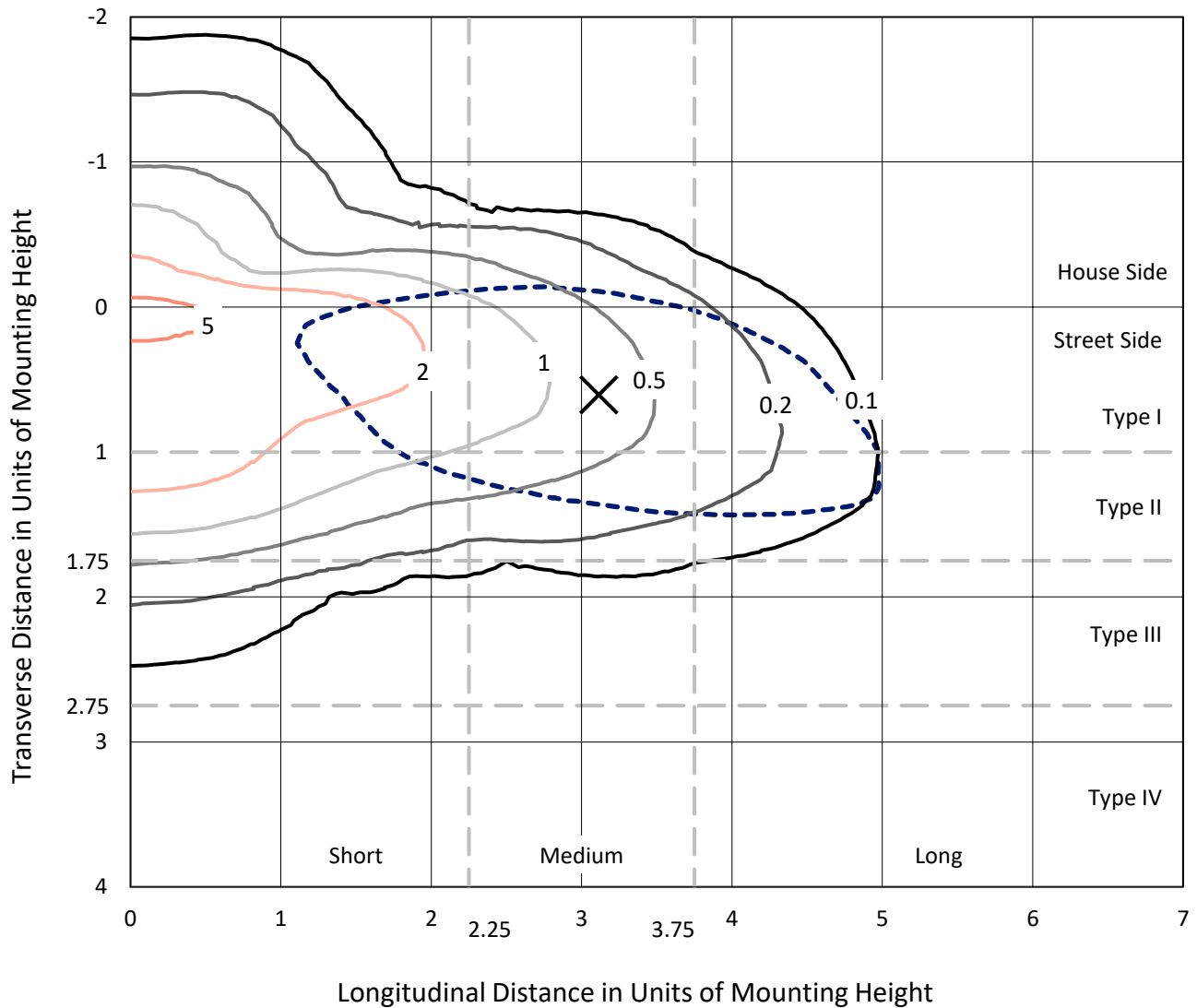
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

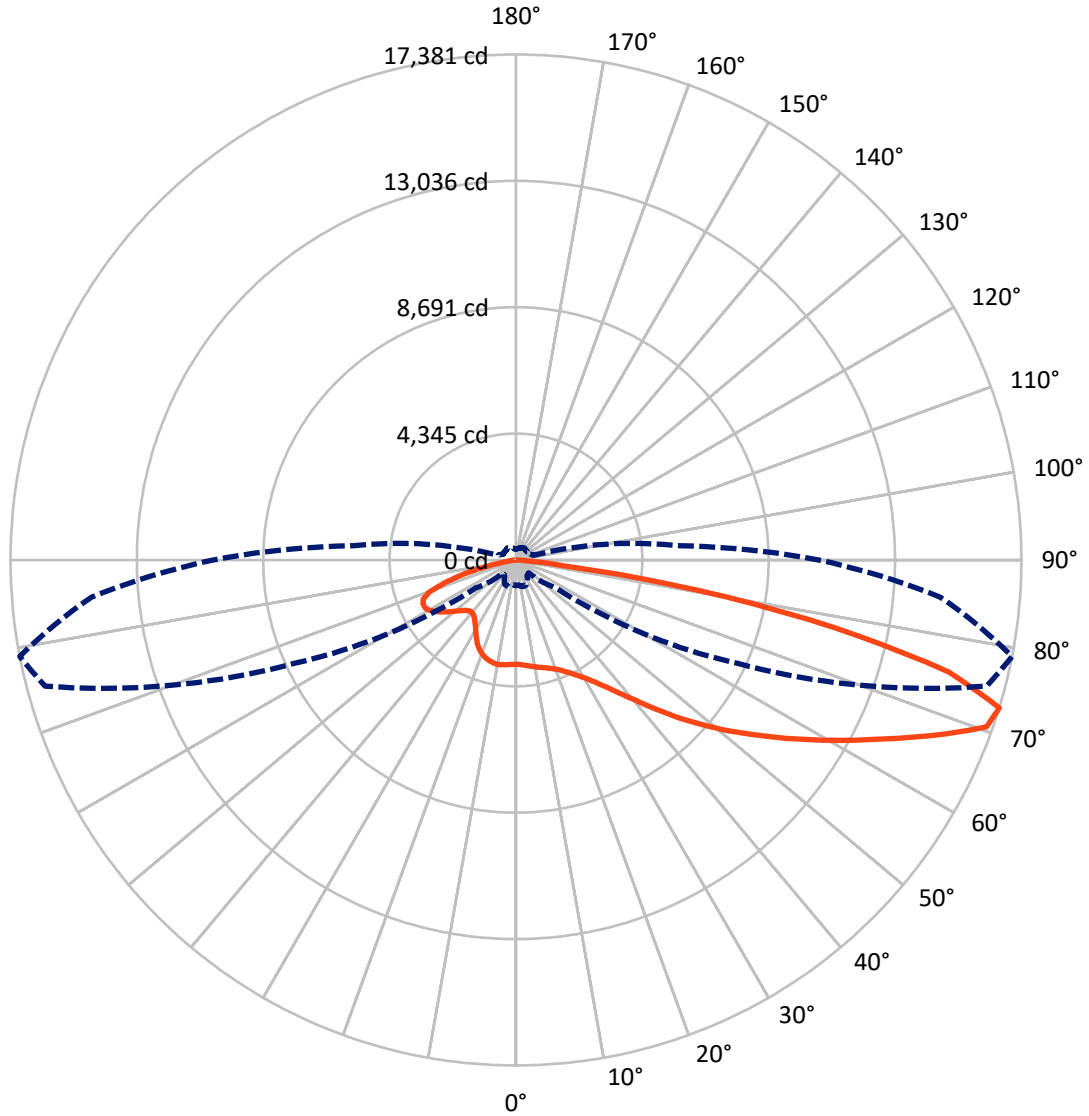
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3932.2	0.0	3932.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	13936.8	0.0	13936.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	17869.0	0.0	17869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	1.8
10°-20°	851.3	4.8
20°-30°	1373.6	7.7
30°-40°	2061.6	11.5
40°-50°	2924.5	16.4
50°-60°	3693.2	20.7
60°-70°	3751.0	21.0
70°-80°	2556.5	14.3
80°-90°	331.7	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°	17869.0	100.0
0°-180°	17869.0	100.0



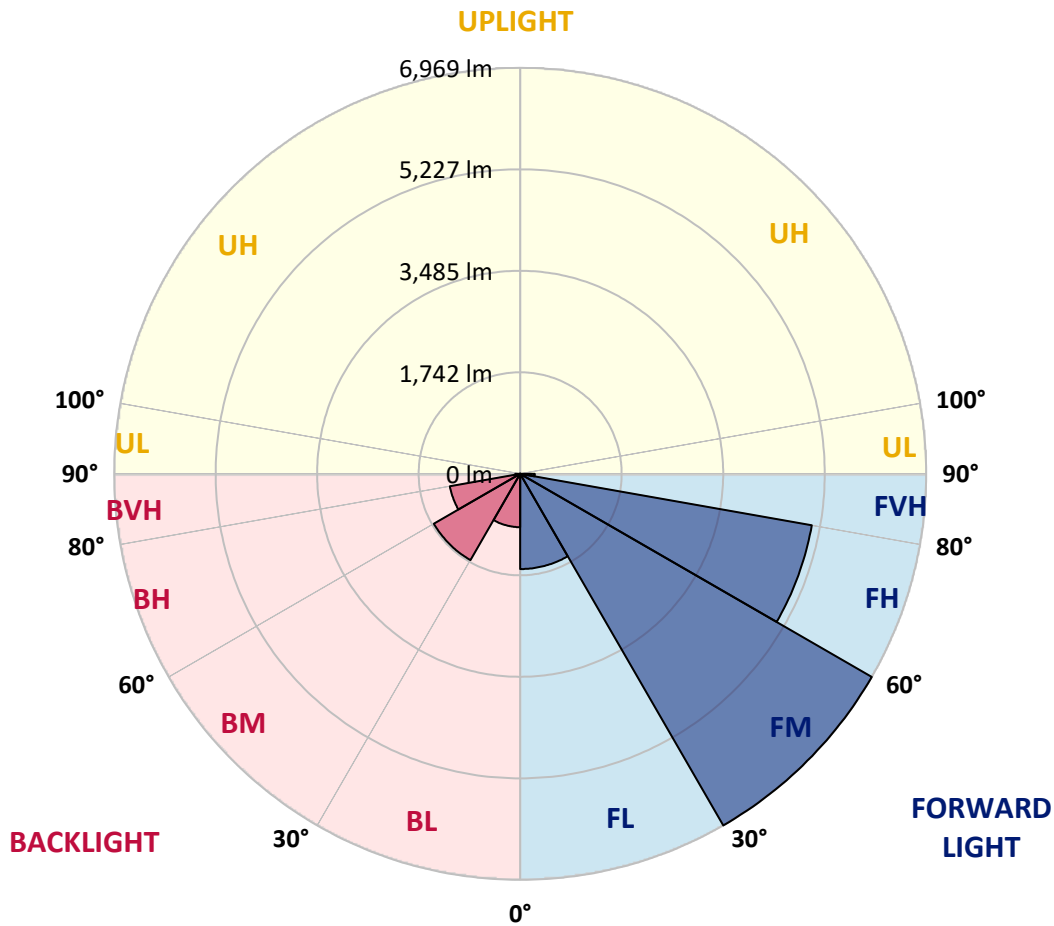
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.6	9.1			
FM (30°-60°)	6969.3	39.0			
FH (60°-80°)	5083.1	28.4			G3/7500
FVH (80°-90°)	249.9	1.4			G3/500
BL (0°-30°)	915.9	5.1	B2/1000		
BM (30°-60°)	1710.1	9.6	B2/2500		
BH (60°-80°)	1224.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	81.8	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°	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0
2.5°	3588.9	3571.9	3582.3	3578.5	3583.3	3588.9	3590.8	3593.6	3603.1	3602.2
5°	3581.4	3564.3	3578.5	3573.8	3586.1	3599.3	3610.7	3621.1	3636.2	3642.8
7.5°	3565.3	3553.9	3568.1	3582.3	3605.0	3624.8	3640.9	3664.5	3686.3	3690.1
10°	3471.7	3463.2	3496.3	3533.2	3595.5	3649.4	3684.4	3711.8	3735.4	3739.2
12.5°	3374.4	3364.0	3400.8	3450.9	3552.1	3649.4	3723.1	3759.1	3779.9	3792.1
15°	3358.3	3349.8	3370.6	3414.1	3498.2	3623.9	3749.6	3815.8	3833.7	3847.9
17.5°	3435.8	3419.7	3428.2	3443.4	3492.5	3600.3	3770.4	3880.0	3907.5	3922.6
20°	3615.4	3592.7	3579.5	3549.2	3540.7	3604.0	3768.5	3957.6	3993.5	4012.4
22.5°	3854.5	3839.4	3811.0	3734.5	3651.3	3650.4	3804.4	4056.8	4123.9	4141.9
25°	4143.8	4121.1	4085.2	3981.2	3821.4	3742.0	3864.9	4183.5	4295.9	4300.7
27.5°	4476.5	4442.4	4393.3	4256.2	4040.7	3885.7	3957.6	4329.0	4493.5	4491.6
30°	4827.1	4793.1	4741.1	4574.8	4303.5	4079.5	4086.1	4485.9	4727.9	4717.5
32.5°	5083.3	5057.8	5047.4	4918.8	4606.0	4308.2	4233.5	4659.8	5017.1	5007.7
35°	5279.9	5246.8	5259.1	5193.9	4935.8	4564.4	4414.1	4866.8	5368.7	5367.8
37.5°	5474.6	5445.3	5455.7	5412.2	5241.1	4889.5	4634.3	5120.1	5804.5	5825.3
40°	5652.3	5621.1	5662.7	5622.0	5478.4	5235.5	4884.8	5406.5	6309.2	6348.9
42.5°	5759.1	5734.5	5803.5	5804.5	5684.4	5527.5	5159.8	5722.2	6893.3	6982.2
45°	5796.0	5787.5	5891.4	5913.2	5866.9	5696.7	5407.5	6066.3	7522.8	7681.6
47.5°	5756.3	5740.2	5883.9	5964.2	6001.1	5776.1	5612.6	6438.7	8165.6	8398.1
50°	5555.9	5524.7	5738.3	5907.5	6038.9	5828.1	5819.6	6868.8	8896.2	9150.5
52.5°	5195.8	5172.1	5415.0	5709.0	5955.7	5853.6	6052.1	7338.5	9590.0	9918.9
55°	4735.4	4704.3	4971.7	5355.5	5748.7	5845.1	6284.6	7864.1	10408.5	10742.2
57.5°	4005.8	3943.4	4281.8	4735.4	5411.3	5834.7	6526.6	8386.8	11240.3	11640.1
60°	2941.5	2848.8	3263.8	3801.6	4751.5	5733.6	6826.2	8972.8	12238.4	12598.6
62.5°	1712.7	1658.8	1930.1	2432.0	3581.4	5138.1	6994.5	9654.3	13219.6	13597.6
65°	1329.9	1314.8	1338.4	1377.2	1993.4	3847.0	6475.6	10318.7	14467.2	14731.9
67.5°	1216.5	1205.1	1215.5	1142.7	1011.4	2142.8	5123.0	10487.0	15803.7	15964.4
70°	1081.3	1068.1	1102.1	1039.7	795.9	974.5	3310.1	9876.4	16867.1	17168.6
72.5°	880.9	865.8	945.2	916.8	670.1	625.7	1662.6	8425.5	16755.6	17381.3
75°	676.8	668.3	762.8	786.4	546.3	492.4	797.7	6262.9	14745.1	15375.6
77.5°	525.5	518.9	567.1	653.1	440.5	381.9	490.6	3972.7	11111.8	11222.4
80°	394.1	375.2	419.7	505.7	343.1	278.8	332.7	2316.7	7023.8	6366.9
82.5°	246.7	237.2	274.1	337.4	242.0	191.9	216.5	1279.8	2814.8	1657.9
85°	140.8	137.1	149.3	192.8	131.4	110.6	123.8	565.2	514.2	353.5
87.5°	56.7	54.8	68.1	86.0	48.2	40.6	43.5	136.1	113.4	104.9
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°
3587.0	0°	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0	3587.0
3601.2	2.5°	3597.4	3597.4	3584.2	3563.4	3539.8	3524.6	3500.1	3493.5	3467.9	3460.4
3633.3	5°	3640.9	3633.3	3592.7	3534.1	3453.8	3380.0	3298.7	3247.7	3175.9	3150.3
3696.7	7.5°	3695.7	3674.9	3605.0	3476.4	3308.2	3142.8	2970.8	2840.3	2715.6	2671.1
3748.7	10°	3745.8	3716.5	3597.4	3372.5	3081.4	2795.0	2520.8	2329.0	2183.4	2123.9
3806.3	12.5°	3795.9	3742.0	3547.3	3199.5	2759.0	2370.6	2078.5	1929.2	1839.4	1767.5
3853.6	15°	3843.2	3767.6	3469.8	2967.9	2405.5	2011.4	1795.9	1676.8	1604.9	1557.7
3922.6	17.5°	3898.0	3789.3	3353.6	2674.0	2069.0	1762.8	1587.0	1515.2	1501.0	1495.3
4017.1	20°	3974.6	3809.2	3200.4	2345.0	1821.4	1564.3	1473.6	1466.9	1466.0	1463.2
4130.5	22.5°	4056.8	3832.8	2998.2	2046.4	1610.6	1440.5	1424.4	1411.2	1402.7	1401.7
4267.6	25°	4154.2	3840.3	2744.9	1801.6	1431.0	1381.9	1363.0	1343.1	1337.5	1337.5
4423.5	27.5°	4248.7	3814.8	2450.0	1588.9	1329.9	1328.0	1303.4	1296.8	1295.9	1298.7
4601.2	30°	4343.2	3766.6	2156.9	1392.3	1271.3	1271.3	1262.8	1267.5	1271.3	1280.7
4845.1	32.5°	4470.8	3715.6	1912.1	1246.7	1220.3	1210.8	1219.3	1228.8	1232.5	1244.8
5165.5	35°	4657.9	3679.7	1717.4	1167.3	1167.3	1155.0	1159.8	1157.9	1149.4	1143.7
5553.0	37.5°	4905.6	3677.8	1556.7	1130.5	1122.9	1121.0	1122.0	1109.7	1076.6	1036.9
6021.9	40°	5203.3	3728.8	1432.9	1104.9	1099.3	1110.6	1104.9	1071.9	981.1	912.1
6598.4	42.5°	5603.1	3874.4	1353.5	1073.7	1090.8	1104.9	1082.3	967.9	906.4	860.1
7255.4	45°	6073.9	4110.7	1312.9	1040.7	1074.7	1091.7	982.1	932.0	882.8	827.0
7971.8	47.5°	6606.9	4408.4	1303.4	1009.5	1038.8	1049.2	939.5	916.8	861.1	800.6
8692.1	50°	7187.3	4761.0	1329.0	972.6	986.8	950.9	925.4	904.6	846.9	787.4
9430.3	52.5°	7787.5	5149.4	1380.0	922.5	934.8	895.1	919.7	901.7	838.4	758.0
10193.0	55°	8377.3	5540.8	1429.1	863.9	881.9	845.0	903.6	890.4	799.6	708.9
11006.8	57.5°	8976.6	5930.2	1477.3	811.9	830.8	796.8	878.1	860.1	756.2	663.5
11895.3	60°	9599.4	6308.3	1500.0	761.8	775.1	752.4	839.3	808.1	707.0	617.2
12768.7	62.5°	10182.6	6623.0	1463.2	711.7	720.2	710.8	788.3	746.7	657.9	565.2
13678.9	65°	10767.7	6810.2	1349.7	662.6	664.5	659.7	716.5	680.5	600.2	519.9
14475.7	67.5°	11298.0	6915.1	1169.2	609.7	604.9	603.0	649.4	608.7	544.4	474.5
15081.6	70°	11410.4	6648.5	893.2	547.3	547.3	542.5	575.6	534.0	483.0	426.3
14647.8	72.5°	10421.8	5592.7	634.2	476.4	483.9	474.5	501.9	466.9	420.6	382.8
12624.1	75°	8403.8	4101.2	461.3	403.6	416.8	400.8	426.3	401.7	362.0	361.1
8699.6	77.5°	5774.2	2536.0	334.6	332.7	342.2	321.4	350.7	337.4	301.5	285.5
3786.5	80°	2464.1	1011.4	243.9	257.1	257.1	238.2	272.2	276.0	244.8	237.2
730.6	82.5°	490.6	287.3	171.1	176.8	166.4	160.7	192.8	213.6	294.9	328.0
220.2	85°	147.5	105.9	103.0	96.4	85.1	86.0	113.4	214.6	264.7	151.2
72.8	87.5°	40.6	26.5	27.4	21.7	18.0	23.6	38.8	162.6	88.8	37.8
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>
3587.0
3472.7
3169.3
2676.8
2137.1
1791.2
1566.2
1499.1
1472.6
1412.1
1343.1
1306.3
1287.4
1255.2
1156.9
1037.8
910.2
858.2
823.3
795.9
780.7
752.4
704.2
661.6
614.4
564.3
514.2
468.8
424.4
371.5
325.1
267.5
237.2
328.9
130.4
32.1
0.0

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