

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: P941632

Luminaire Tested: **GALN-SB5B-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28196 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

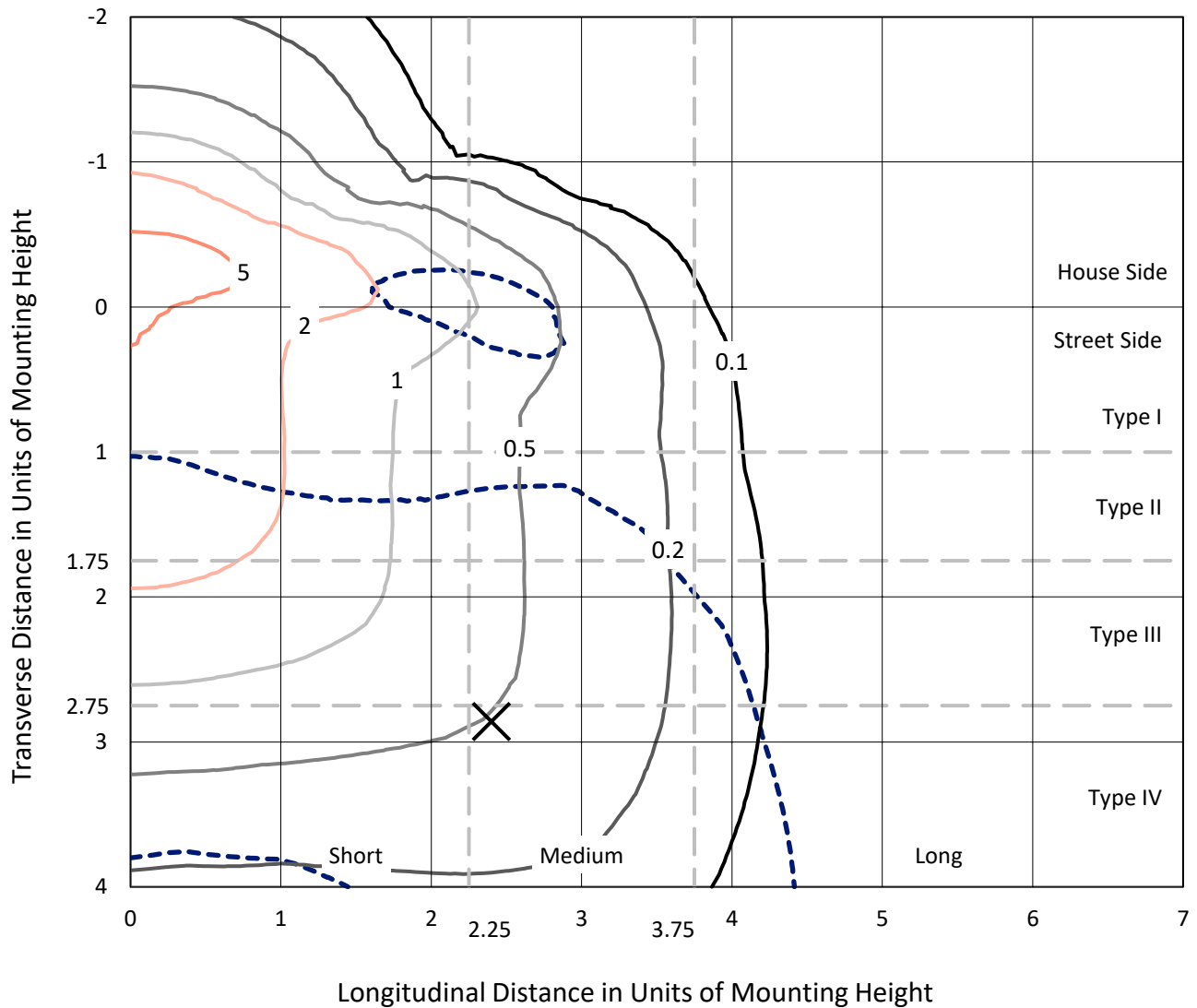
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

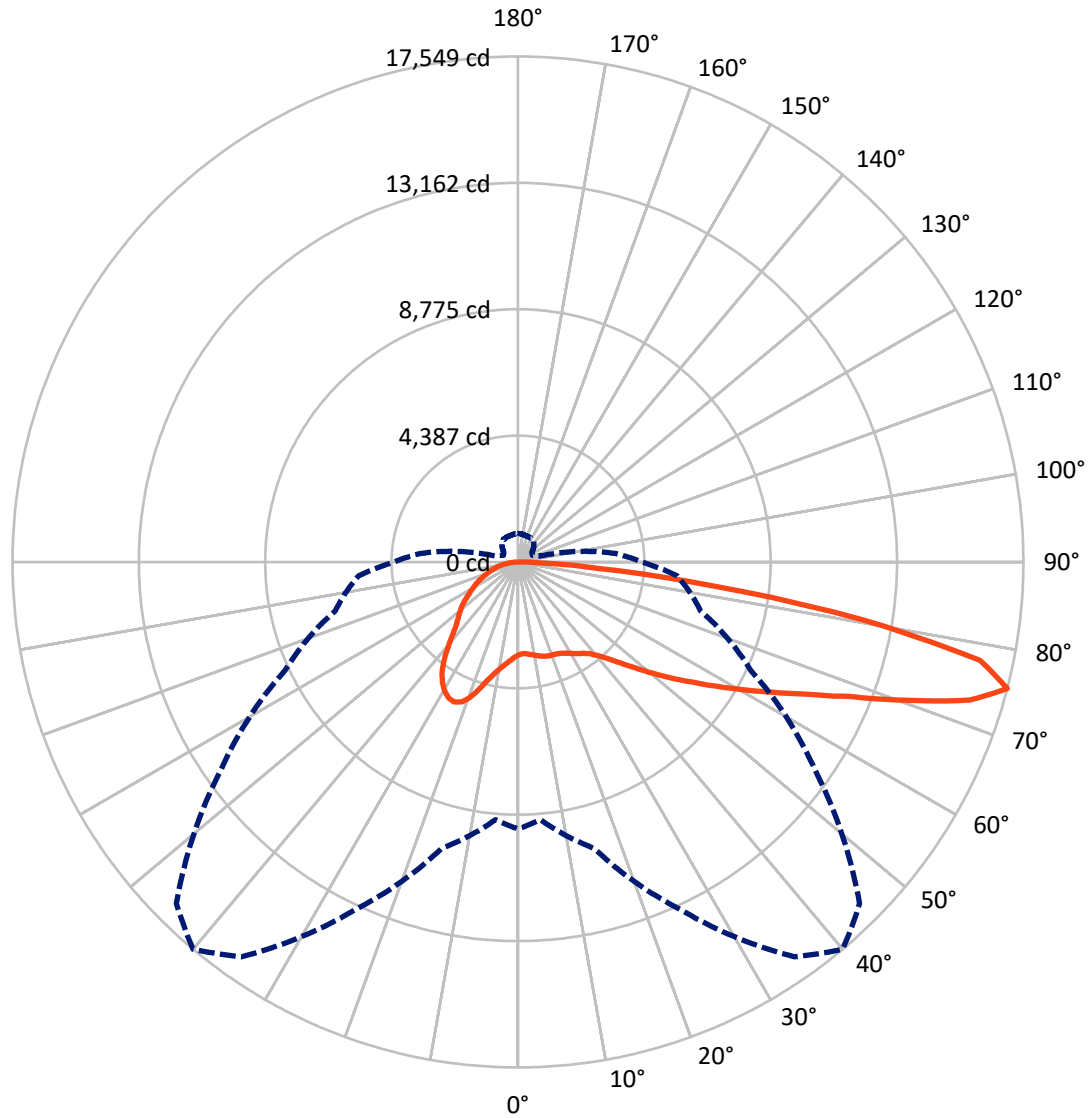
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8736.1	0.0	8736.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19459.9	0.0	19459.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	28196.0	0.0	28196.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	1.1
10°-20°	1080.6	3.8
20°-30°	1973.0	7.0
30°-40°	2798.3	9.9
40°-50°	3778.5	13.4
50°-60°	5083.2	18.0
60°-70°	6451.7	22.9
70°-80°	5855.3	20.8
80°-90°	853.5	3.0
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°	28196.0	100.0
0°-180°	28196.0	100.0



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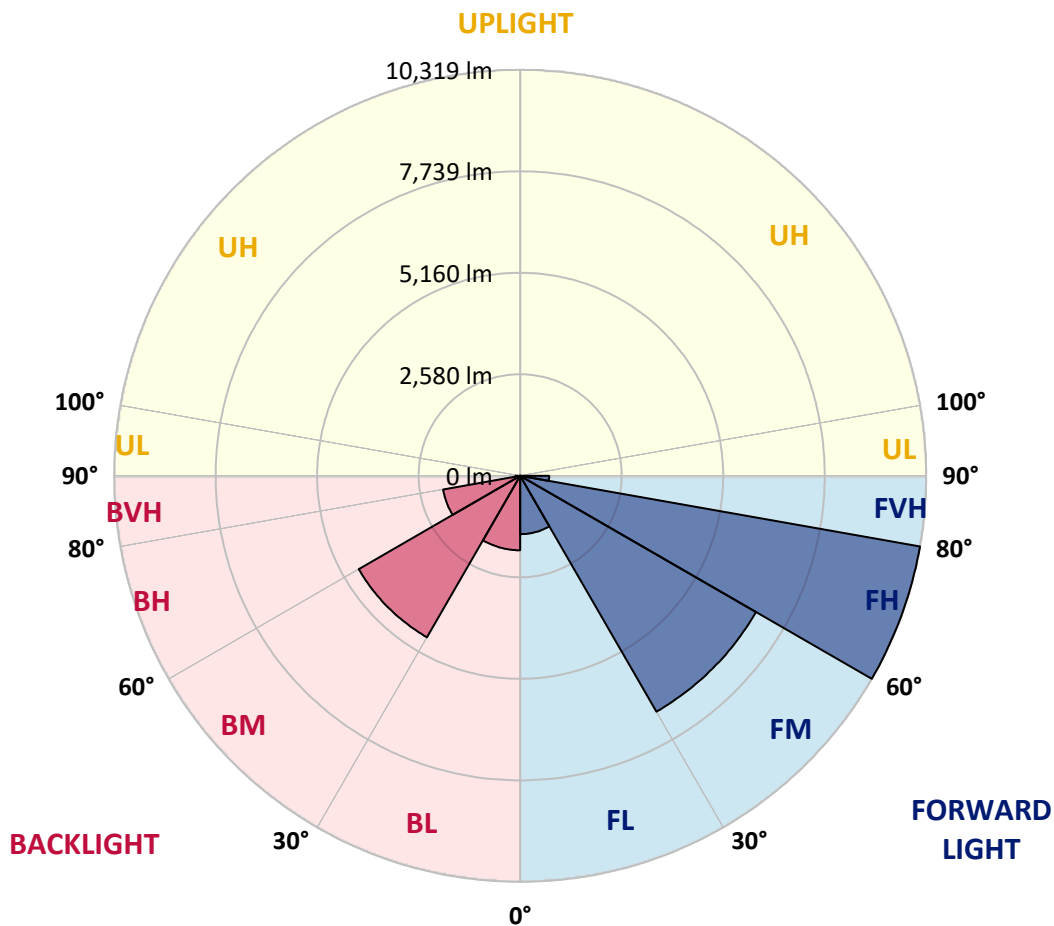
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.1	5.3			
FM (30°-60°)	6921.5	24.5			
FH (60°-80°)	10319.3	36.6			G4/12000
FVH (80°-90°)	736.0	2.6			G4/750
BL (0°-30°)	1892.3	6.7	B3/2500		
BM (30°-60°)	4738.5	16.8	B3/5000		
BH (60°-80°)	1987.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3
2.5°	3174.9	3192.8	3188.4	3182.4	3182.4	3183.9	3182.4	3192.8	3203.3	3213.8
5°	3207.8	3225.7	3216.8	3209.3	3203.3	3201.8	3197.3	3195.8	3201.8	3215.3
7.5°	3272.1	3290.1	3276.6	3263.1	3251.2	3245.2	3239.2	3230.2	3225.7	3233.2
10°	3343.9	3361.8	3345.4	3321.5	3302.0	3294.5	3288.6	3279.6	3273.6	3278.1
12.5°	3415.7	3433.6	3411.2	3378.3	3352.9	3348.4	3340.9	3337.9	3336.4	3334.9
15°	3483.0	3497.9	3469.5	3430.6	3403.7	3396.2	3388.8	3393.2	3400.7	3409.7
17.5°	3535.3	3550.3	3508.4	3457.5	3432.1	3429.1	3424.6	3439.6	3460.5	3483.0
20°	3583.2	3598.1	3544.3	3475.5	3445.6	3445.6	3447.1	3478.5	3508.4	3541.3
22.5°	3650.5	3662.4	3596.6	3502.4	3459.0	3462.0	3474.0	3505.4	3542.8	3587.7
25°	3750.7	3759.6	3678.9	3553.3	3503.9	3512.9	3523.3	3538.3	3574.2	3626.5
27.5°	3912.2	3919.6	3813.5	3643.0	3568.2	3583.2	3598.1	3587.7	3604.1	3649.0
30°	4139.5	4144.0	4009.4	3783.6	3677.4	3684.9	3687.8	3644.5	3613.1	3649.0
32.5°	4408.7	4407.2	4247.2	3954.0	3801.5	3794.0	3768.6	3683.4	3610.1	3641.5
35°	4825.9	4809.5	4603.1	4193.3	3942.1	3895.7	3835.9	3726.7	3625.0	3634.0
37.5°	5516.8	5466.0	5180.3	4585.1	4151.4	4033.3	3945.1	3797.0	3657.9	3631.0
40°	6296.0	6231.7	5917.6	5122.0	4465.5	4275.6	4133.5	3897.2	3711.8	3644.5
42.5°	7220.2	7128.9	6791.0	5754.6	4863.3	4588.1	4374.3	4024.3	3791.0	3687.8
45°	8355.2	8234.1	7755.5	6467.9	5364.3	4997.9	4712.3	4217.2	3912.2	3771.6
47.5°	9502.3	9532.2	8851.7	7284.5	5965.5	5503.4	5135.5	4507.4	4088.6	3906.2
50°	10721.1	10742.0	9941.9	8189.2	6647.4	6074.6	5611.0	4831.9	4333.9	4097.6
52.5°	11672.2	11675.2	10931.9	9135.9	7357.8	6702.7	6124.0	5202.8	4618.0	4351.8
55°	12267.4	12259.9	11625.8	10031.7	8174.3	7362.2	6692.3	5624.5	4965.0	4650.9
57.5°	12699.6	12677.2	12104.4	10801.8	9044.6	8141.4	7335.3	6103.0	5374.7	5006.9
60°	12864.1	12850.6	12428.9	11467.3	9959.9	9002.8	8077.1	6638.4	5839.8	5427.1
62.5°	12926.9	12952.3	12747.5	12111.9	10939.4	9956.9	8892.1	7278.5	6363.3	5902.7
65°	13148.2	13194.6	13152.7	12955.3	12046.1	11074.0	9973.3	8039.7	6934.5	6412.6
67.5°	13586.4	13632.8	13650.7	13964.8	13398.0	12466.3	11322.3	8987.8	7603.0	6942.0
70°	13575.9	13562.5	13879.5	14767.8	15090.9	14394.0	13140.8	10154.3	8400.1	7381.7
72.5°	12357.1	12249.5	12998.7	14758.9	16499.6	16406.9	15361.5	11658.7	9088.0	7435.5
75°	9270.5	8983.3	10306.8	13300.8	16734.4	17549.4	16773.3	12591.9	8925.0	6569.6
77.5°	3964.5	3675.9	5235.7	9846.2	14977.2	16405.4	15478.2	10985.8	7124.5	4344.4
80°	1037.9	1036.4	1582.2	4464.0	10185.7	12114.9	10628.4	7094.5	4070.7	1552.3
82.5°	429.2	418.7	581.7	1736.2	4977.0	6798.4	5548.2	3164.4	1470.1	420.2
85°	160.0	158.5	282.6	599.7	1755.7	2804.0	2029.4	809.1	366.4	204.9
87.5°	44.9	43.4	61.3	207.9	427.7	649.0	347.0	133.1	103.2	80.8
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°
3224.3	0°	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3	3224.3
3230.2	2.5°	3234.7	3242.2	3255.7	3266.1	3279.6	3294.5	3315.5	3328.9	3342.4	3351.4
3237.7	5°	3248.2	3264.6	3299.0	3333.4	3373.8	3411.2	3454.6	3486.0	3511.4	3518.9
3264.6	7.5°	3278.1	3305.0	3363.3	3421.7	3486.0	3547.3	3610.1	3663.9	3707.3	3723.7
3312.5	10°	3330.4	3366.3	3448.6	3530.8	3616.1	3710.3	3791.0	3868.8	3930.1	3955.5
3369.3	12.5°	3396.2	3441.1	3548.8	3662.4	3780.6	3910.7	4015.4	4111.1	4187.3	4221.7
3448.6	15°	3481.5	3539.8	3677.4	3829.9	4003.4	4184.3	4317.4	4423.6	4508.9	4550.7
3530.8	17.5°	3574.2	3652.0	3825.4	4055.7	4304.0	4541.8	4697.3	4775.1	4863.3	4903.7
3607.1	20°	3663.9	3759.6	4007.9	4342.9	4673.4	4926.1	5051.7	5072.7	5078.6	5083.1
3678.9	22.5°	3756.6	3885.3	4236.7	4704.8	5059.2	5234.2	5252.1	5162.4	5036.8	4978.4
3749.2	25°	3858.3	4028.8	4535.8	5104.1	5391.2	5412.1	5274.6	5056.2	4818.4	4709.3
3806.0	27.5°	3957.0	4194.8	4894.7	5485.4	5630.5	5446.5	5150.4	4840.9	4553.7	4438.6
3846.4	30°	4055.7	4384.7	5291.0	5818.9	5739.6	5361.3	4954.5	4609.1	4320.4	4199.3
3882.3	32.5°	4155.9	4606.1	5747.1	6059.7	5720.2	5180.3	4710.8	4348.8	4094.6	3967.5
3913.7	35°	4269.6	4878.2	6179.3	6191.3	5590.1	4914.1	4389.2	4037.8	3816.5	3714.8
3951.1	37.5°	4417.6	5223.7	6560.7	6224.2	5362.8	4523.8	3989.9	3669.9	3487.5	3441.1
4006.4	40°	4601.6	5639.4	6852.3	6171.8	5026.3	4049.8	3553.3	3297.5	3194.3	3204.8
4081.2	42.5°	4840.9	6104.5	7057.2	6037.2	4558.2	3560.7	3170.4	3056.8	3106.1	3148.0
4193.3	45°	5151.9	6587.6	7184.3	5808.4	4028.8	3146.5	2944.6	2971.5	3008.9	3013.4
4374.3	47.5°	5549.7	7076.6	7268.0	5463.0	3488.9	2854.9	2801.0	2807.0	2799.5	2768.1
4645.0	50°	6046.2	7552.2	7342.8	5005.4	3029.8	2672.4	2600.6	2579.7	2476.5	2374.8
5005.4	52.5°	6611.5	7988.8	7374.2	4437.1	2672.4	2519.9	2403.2	2271.6	2078.7	2047.3
5458.5	55°	7239.6	8392.6	7293.4	3738.7	2371.8	2324.0	2147.5	1989.0	1968.0	1941.1
6055.2	57.5°	7990.3	8827.8	7128.9	2959.6	2063.8	2095.2	1923.2	1941.1	1903.7	1861.9
6822.4	60°	8811.4	9277.9	6840.3	2249.2	1745.2	1809.5	1864.9	1863.4	1852.9	1818.5
7631.4	62.5°	9550.1	9574.0	6272.0	1722.8	1465.6	1588.2	1739.2	1737.7	1728.8	1709.3
8476.4	65°	9989.8	9529.2	5323.9	1356.4	1235.3	1405.7	1568.8	1580.7	1582.2	1580.7
9111.9	67.5°	9912.0	9004.3	4022.8	1079.7	1045.3	1220.3	1399.8	1416.2	1428.2	1431.2
9192.7	70°	9032.7	7851.3	2623.1	861.4	876.4	1057.3	1239.8	1256.2	1266.7	1278.6
7976.9	72.5°	7040.7	5772.5	1501.5	696.9	728.3	916.7	1081.2	1100.7	1106.7	1129.1
5551.2	75°	4290.5	3394.7	810.5	548.8	598.2	783.6	924.2	946.6	957.1	984.0
2726.3	77.5°	2039.8	1470.1	462.1	427.7	481.5	640.1	780.6	806.1	777.6	792.6
752.2	80°	689.4	545.8	291.6	326.0	367.9	499.5	625.1	650.5	590.7	587.7
249.7	82.5°	240.8	221.3	185.4	216.8	237.8	357.4	472.6	505.5	439.7	438.2
112.2	85°	94.2	89.7	103.2	118.1	142.1	219.8	311.1	327.5	270.7	218.3
32.9	87.5°	19.4	20.9	25.4	26.9	43.4	76.3	112.2	137.6	109.2	92.7
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>
3224.3
3345.4
3521.9
3725.2
3957.0
4221.7
4547.7
4902.2
5095.1
4994.9
4725.7
4452.0
4212.8
3984.0
3737.2
3474.0
3240.7
3186.9
3043.3
2792.1
2388.3
2057.8
1945.6
1854.4
1806.5
1701.9
1580.7
1434.2
1284.6
1138.1
987.0
780.6
581.7
417.2
215.3
85.2
0.0

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