

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: P941422

Luminaire Tested: **GALN-SB4D-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941422
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-SB4D-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28123 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

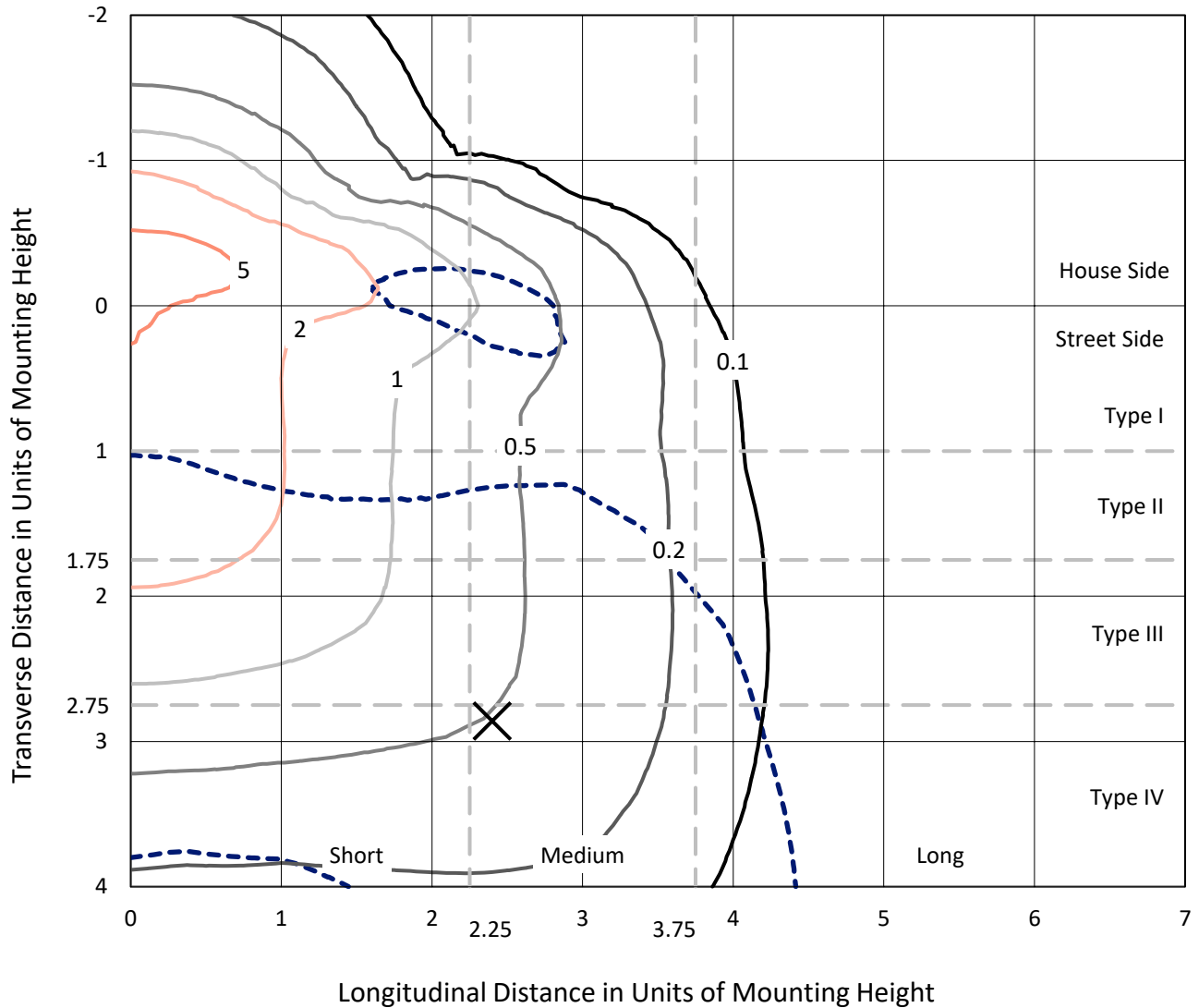
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

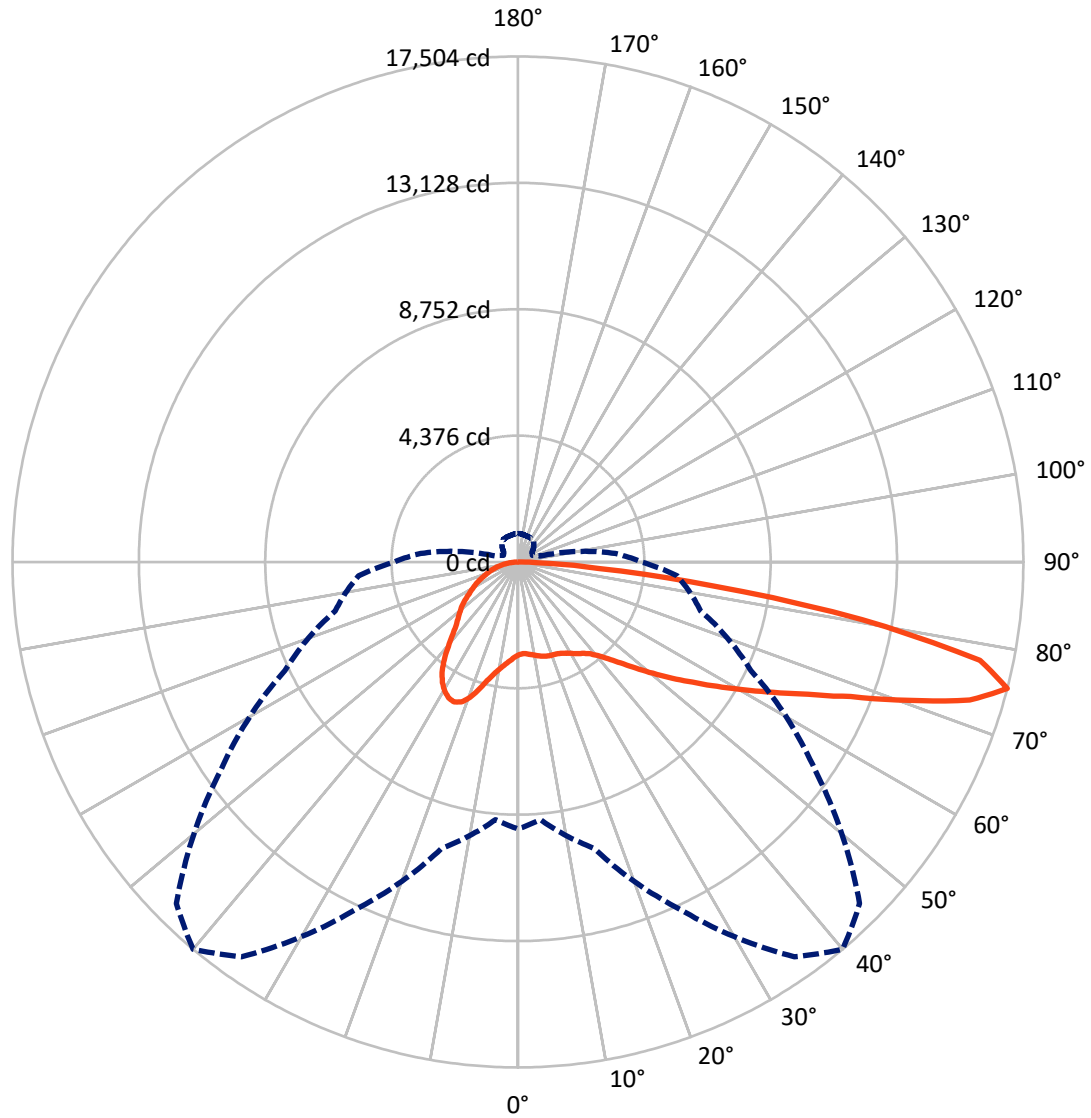
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	8713.4	0.0	8713.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19409.6	0.0	19409.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	28123.0	0.0	28123.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.1
10°-20°	1077.8	3.8
20°-30°	1967.9	7.0
30°-40°	2791.1	9.9
40°-50°	3768.8	13.4
50°-60°	5070.0	18.0
60°-70°	6435.0	22.9
70°-80°	5840.2	20.8
80°-90°	851.3	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°	28123.0	100.0
0°-180°	28123.0	100.0



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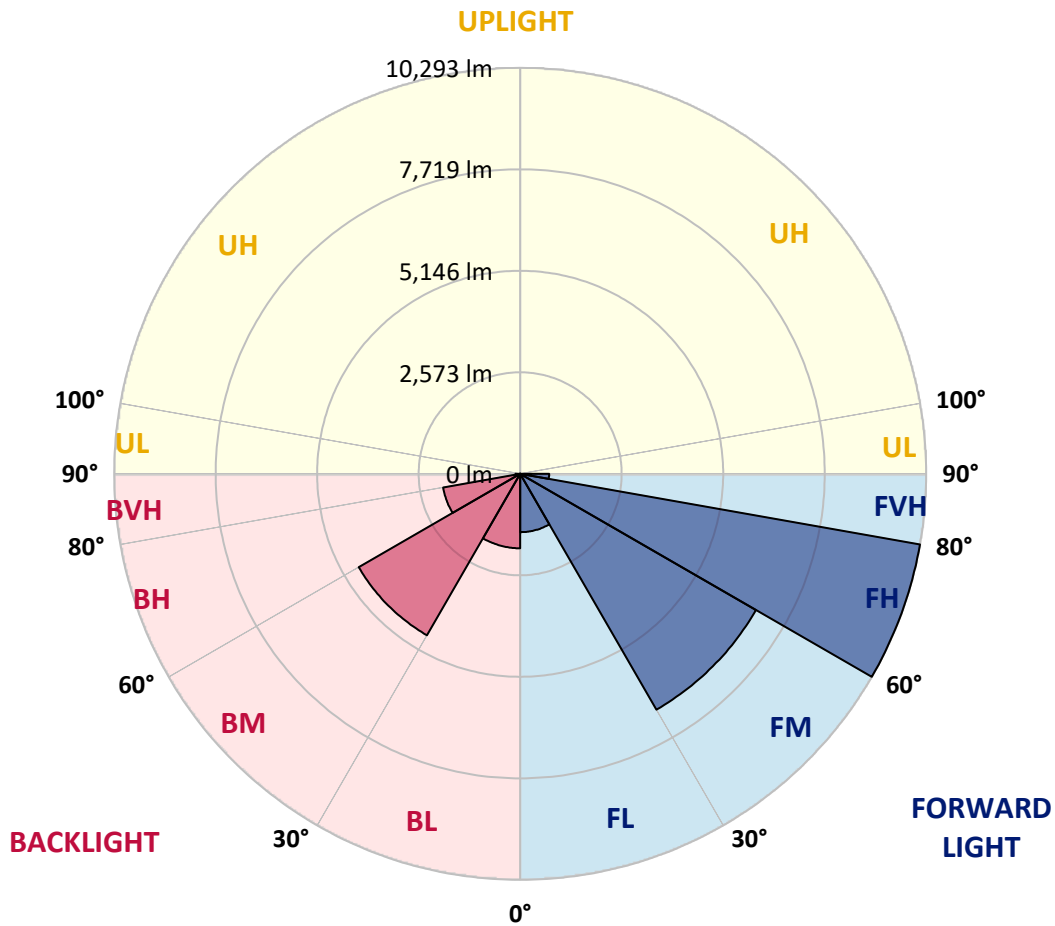
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.3	5.3			
FM (30°-60°)	6903.6	24.5			
FH (60°-80°)	10292.6	36.6			G4/12000
FVH (80°-90°)	734.1	2.6			G4/750
BL (0°-30°)	1887.4	6.7	B3/2500		
BM (30°-60°)	4726.3	16.8	B3/5000		
BH (60°-80°)	1982.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.2	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°	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9
2.5°	3166.7	3184.6	3180.1	3174.1	3174.1	3175.6	3174.1	3184.6	3195.0	3205.5
5°	3199.5	3217.4	3208.4	3201.0	3195.0	3193.5	3189.1	3187.6	3193.5	3207.0
7.5°	3263.6	3281.5	3268.1	3254.7	3242.8	3236.8	3230.8	3221.9	3217.4	3224.9
10°	3335.2	3353.1	3336.7	3312.9	3293.5	3286.0	3280.0	3271.1	3265.1	3269.6
12.5°	3406.8	3424.7	3402.4	3369.5	3344.2	3339.7	3332.2	3329.3	3327.8	3326.3
15°	3474.0	3488.9	3460.5	3421.7	3394.9	3387.4	3380.0	3384.5	3391.9	3400.9
17.5°	3526.2	3541.1	3499.3	3448.6	3423.2	3420.3	3415.8	3430.7	3451.6	3474.0
20°	3573.9	3588.8	3535.1	3466.5	3436.7	3436.7	3438.2	3469.5	3499.3	3532.1
22.5°	3641.0	3652.9	3587.3	3493.3	3450.1	3453.1	3465.0	3496.3	3533.6	3578.4
25°	3740.9	3749.9	3669.4	3544.1	3494.8	3503.8	3514.2	3529.1	3564.9	3617.1
27.5°	3902.0	3909.5	3803.6	3633.6	3559.0	3573.9	3588.8	3578.4	3594.8	3639.5
30°	4128.8	4133.2	3999.0	3773.8	3667.9	3675.3	3678.3	3635.0	3603.7	3639.5
32.5°	4397.3	4395.8	4236.2	3943.8	3791.7	3784.2	3758.8	3673.8	3600.7	3632.1
35°	4813.4	4797.0	4591.2	4182.5	3931.9	3885.6	3826.0	3717.1	3615.7	3624.6
37.5°	5502.5	5451.8	5166.9	4573.3	4140.7	4022.9	3934.9	3787.2	3648.5	3621.6
40°	6279.7	6215.5	5902.3	5108.8	4453.9	4264.5	4122.8	3887.1	3702.2	3635.0
42.5°	7201.5	7110.5	6773.4	5739.7	4850.7	4576.2	4362.9	4013.9	3781.2	3678.3
45°	8333.6	8212.8	7735.5	6451.2	5350.4	4984.9	4700.1	4206.3	3902.0	3761.8
47.5°	9477.7	9507.5	8828.8	7265.6	5950.0	5489.1	5122.2	4495.7	4078.1	3896.1
50°	10693.3	10714.2	9916.2	8168.0	6630.2	6058.9	5596.5	4819.4	4322.7	4087.0
52.5°	11642.0	11645.0	10903.6	9112.2	7338.7	6685.4	6108.1	5189.3	4606.1	4340.6
55°	12235.6	12228.2	11595.7	10005.7	8153.1	7343.2	6674.9	5609.9	4952.1	4638.9
57.5°	12666.7	12644.3	12073.1	10773.9	9021.2	8120.3	7316.3	6087.2	5360.8	4993.9
60°	12830.8	12817.4	12396.7	11437.6	9934.1	8979.5	8056.2	6621.2	5824.7	5413.0
62.5°	12893.4	12918.8	12714.4	12080.5	10911.1	9931.1	8869.1	7259.6	6346.8	5887.4
65°	13114.2	13160.4	13118.7	12921.8	12014.9	11045.3	9947.5	8018.9	6916.6	6396.0
67.5°	13551.2	13597.5	13615.4	13928.6	13363.3	12434.0	11292.9	8964.6	7583.3	6924.0
70°	13540.8	13527.4	13843.6	14729.6	15051.8	14356.7	13106.7	10128.0	8378.4	7362.6
72.5°	12325.1	12217.7	12965.0	14720.7	16456.9	16364.4	15321.8	11628.6	9064.5	7416.3
75°	9246.5	8960.1	10280.1	13266.3	16691.1	17504.0	16729.9	12559.3	8901.9	6552.6
77.5°	3954.2	3666.4	5222.1	9820.7	14938.4	16362.9	15438.1	10957.3	7106.0	4333.1
80°	1035.2	1033.7	1578.1	4452.4	10159.3	12083.5	10600.8	7076.2	4060.2	1548.3
82.5°	428.1	417.6	580.2	1731.8	4964.1	6780.8	5533.9	3156.2	1466.2	419.1
85°	159.6	158.1	281.9	598.1	1751.1	2796.8	2024.1	807.0	365.4	204.4
87.5°	44.7	43.3	61.2	207.3	426.6	647.4	346.1	132.8	102.9	80.5
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°
3215.9	0°	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9	3215.9
3221.9	2.5°	3226.3	3233.8	3247.2	3257.7	3271.1	3286.0	3306.9	3320.3	3333.7	3342.7
3229.3	5°	3239.8	3256.2	3290.5	3324.8	3365.1	3402.4	3445.6	3476.9	3502.3	3509.7
3256.2	7.5°	3269.6	3296.4	3354.6	3412.8	3476.9	3538.1	3600.7	3654.4	3697.7	3714.1
3303.9	10°	3321.8	3357.6	3439.6	3521.7	3606.7	3700.7	3781.2	3858.8	3919.9	3945.3
3360.6	12.5°	3387.4	3432.2	3539.6	3652.9	3770.8	3900.5	4005.0	4100.4	4176.5	4210.8
3439.6	15°	3472.5	3530.6	3667.9	3820.0	3993.0	4173.5	4306.3	4412.2	4497.2	4539.0
3521.7	17.5°	3564.9	3642.5	3815.5	4045.2	4292.8	4530.0	4685.1	4762.7	4850.7	4891.0
3597.8	20°	3654.4	3749.9	3997.5	4331.6	4661.3	4913.4	5038.6	5059.5	5065.5	5070.0
3669.4	22.5°	3746.9	3875.2	4225.7	4692.6	5046.1	5220.6	5238.5	5149.0	5023.7	4965.6
3739.5	25°	3848.3	4018.4	4524.0	5090.9	5377.2	5398.1	5260.9	5043.1	4806.0	4697.1
3796.1	27.5°	3946.8	4184.0	4882.0	5471.2	5615.9	5432.4	5137.1	4828.3	4541.9	4427.1
3836.4	30°	4045.2	4373.4	5277.3	5803.8	5724.8	5347.4	4941.7	4597.1	4309.2	4188.4
3872.2	32.5°	4145.2	4594.1	5732.2	6044.0	5705.4	5166.9	4698.6	4337.6	4084.0	3957.2
3903.5	35°	4258.5	4865.6	6163.3	6175.2	5575.6	4901.4	4377.9	4027.3	3806.6	3705.1
3940.8	37.5°	4406.2	5210.2	6543.7	6208.1	5348.9	4512.1	3979.6	3660.4	3478.4	3432.2
3996.0	40°	4589.7	5624.8	6834.5	6155.9	5013.3	4039.3	3544.1	3289.0	3186.1	3196.5
4070.6	42.5°	4828.3	6088.7	7038.9	6021.6	4546.4	3551.5	3162.2	3048.8	3098.1	3139.8
4182.5	45°	5138.6	6570.5	7165.7	5793.4	4018.4	3138.3	2937.0	2963.8	3001.1	3005.6
4362.9	47.5°	5535.3	7058.3	7249.2	5448.8	3479.9	2847.5	2793.8	2799.7	2792.3	2761.0
4632.9	50°	6030.6	7532.6	7323.8	4992.4	3022.0	2665.5	2593.9	2573.0	2470.1	2368.7
4992.4	52.5°	6594.4	7968.2	7355.1	4425.6	2665.5	2513.4	2397.0	2265.7	2073.3	2042.0
5444.4	55°	7220.9	8370.9	7274.6	3729.0	2365.7	2318.0	2141.9	1983.8	1963.0	1936.1
6039.5	57.5°	7969.7	8805.0	7110.5	2951.9	2058.4	2089.7	1918.2	1936.1	1898.8	1857.0
6804.7	60°	8788.5	9253.9	6822.6	2243.4	1740.7	1804.8	1860.0	1858.5	1848.1	1813.8
7611.7	62.5°	9525.4	9549.3	6255.8	1718.3	1461.8	1584.1	1734.7	1733.2	1724.3	1704.9
8454.4	65°	9963.9	9504.5	5310.1	1352.9	1232.1	1402.1	1564.7	1576.6	1578.1	1576.6
9088.4	67.5°	9886.4	8981.0	4012.4	1076.9	1042.6	1217.2	1396.1	1412.6	1424.5	1427.5
9168.9	70°	9009.3	7830.9	2616.3	859.2	874.1	1054.6	1236.5	1252.9	1263.4	1275.3
7956.2	72.5°	7022.5	5757.6	1497.6	695.1	726.4	914.4	1078.4	1097.8	1103.8	1126.2
5536.8	75°	4279.4	3385.9	808.5	547.4	596.6	781.6	921.8	944.2	954.6	981.5
2719.2	77.5°	2034.6	1466.2	460.9	426.6	480.3	638.4	778.6	804.0	775.6	790.6
750.3	80°	687.6	544.4	290.9	325.2	366.9	498.2	623.5	648.8	589.2	586.2
249.1	82.5°	240.1	220.8	185.0	216.3	237.2	356.5	471.3	504.2	438.5	437.0
111.9	85°	94.0	89.5	102.9	117.8	141.7	219.3	310.3	326.7	270.0	217.8
32.8	87.5°	19.4	20.9	25.4	26.8	43.3	76.1	111.9	137.2	108.9	92.5
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>
3215.9
3336.7
3512.7
3715.6
3946.8
4210.8
4536.0
4889.5
5081.9
4982.0
4713.5
4440.5
4201.9
3973.6
3727.5
3465.0
3232.3
3178.6
3035.4
2784.8
2382.1
2052.4
1940.6
1849.6
1801.9
1697.4
1576.6
1430.5
1281.3
1135.1
984.5
778.6
580.2
416.2
214.8
85.0
0.0

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