

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: P943762

Luminaire Tested: **GALN-SB8B-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943762
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-SB8B-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 27474 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

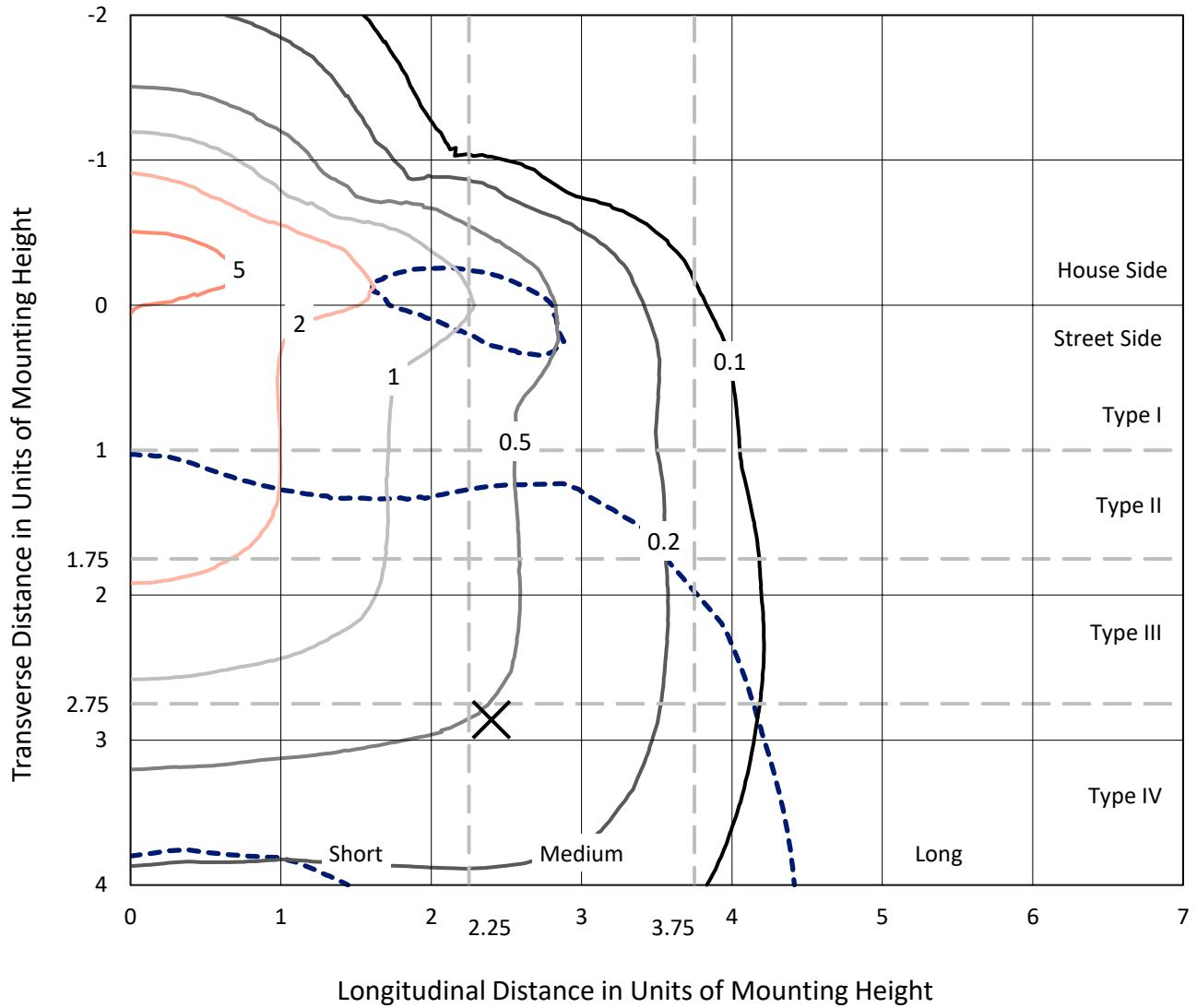
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

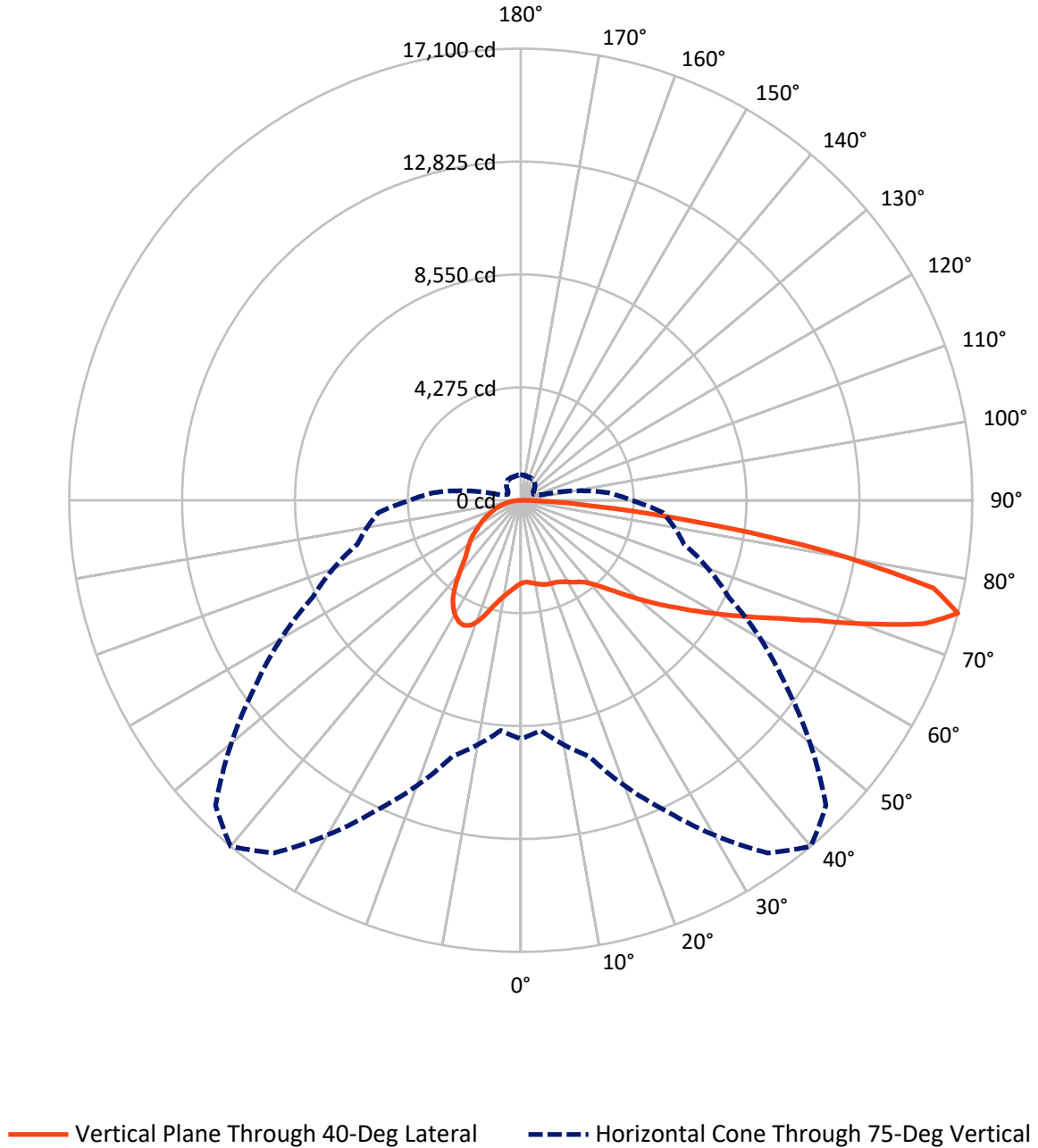
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8512.4	0.0	8512.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18961.6	0.0	18961.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	27474.0	0.0	27474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	1.1
10°-20°	1052.9	3.8
20°-30°	1922.5	7.0
30°-40°	2726.6	9.9
40°-50°	3681.8	13.4
50°-60°	4953.0	18.0
60°-70°	6286.5	22.9
70°-80°	5705.4	20.8
80°-90°	831.7	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°	27474.0	100.0
0°-180°	27474.0	100.0

Coefficient of Utilization



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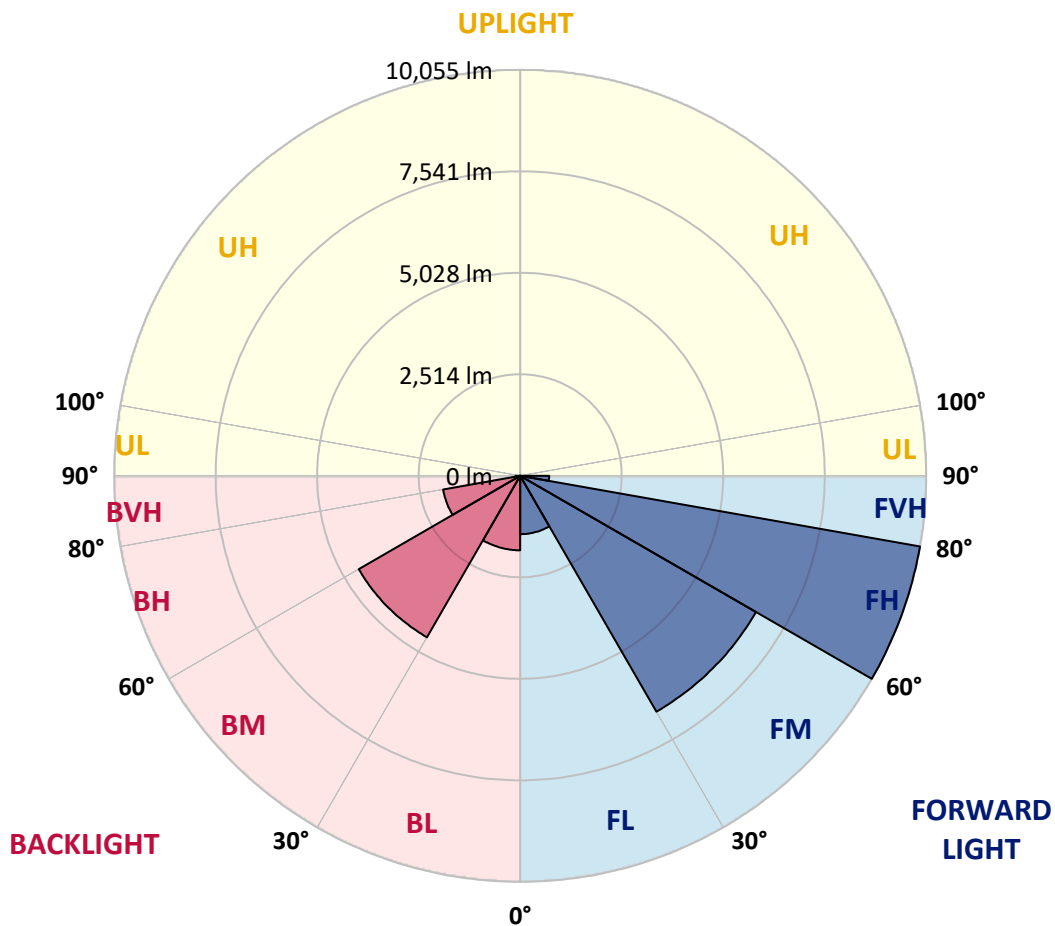
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.2	5.3			
FM (30°-60°)	6744.3	24.5			
FH (60°-80°)	10055.1	36.6			G4/12000
FVH (80°-90°)	717.2	2.6			G4/750
BL (0°-30°)	1843.9	6.7	B3/2500		
BM (30°-60°)	4617.2	16.8	B3/5000		
BH (60°-80°)	1936.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	114.5	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°	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7
2.5°	3093.6	3111.1	3106.7	3100.9	3100.9	3102.3	3100.9	3111.1	3121.3	3131.5
5°	3125.7	3143.1	3134.4	3127.1	3121.3	3119.8	3115.5	3114.0	3119.8	3132.9
7.5°	3188.3	3205.8	3192.7	3179.6	3167.9	3162.1	3156.3	3147.5	3143.1	3150.4
10°	3258.3	3275.7	3259.7	3236.4	3217.5	3210.2	3204.3	3195.6	3189.8	3194.1
12.5°	3328.2	3345.7	3323.8	3291.8	3267.0	3262.6	3255.3	3252.4	3251.0	3249.5
15°	3393.8	3408.4	3380.7	3342.8	3316.6	3309.3	3302.0	3306.4	3313.6	3322.4
17.5°	3444.8	3459.4	3418.6	3369.0	3344.2	3341.3	3337.0	3351.5	3371.9	3393.8
20°	3491.4	3506.0	3453.5	3386.5	3357.4	3357.4	3358.8	3389.4	3418.6	3450.6
22.5°	3557.0	3568.6	3504.5	3412.7	3370.5	3373.4	3385.0	3415.6	3452.1	3495.8
25°	3654.6	3663.4	3584.7	3462.3	3414.2	3422.9	3433.1	3447.7	3482.7	3533.7
27.5°	3812.0	3819.3	3715.8	3549.7	3476.8	3491.4	3506.0	3495.8	3511.8	3555.5
30°	4033.5	4037.9	3906.7	3686.7	3583.2	3590.5	3593.4	3551.2	3520.6	3555.5
32.5°	4295.8	4294.3	4138.4	3852.8	3704.2	3696.9	3672.1	3589.0	3517.6	3548.2
35°	4702.3	4686.3	4485.2	4085.9	3841.1	3796.0	3737.7	3631.3	3532.2	3541.0
37.5°	5375.6	5326.0	5047.7	4467.7	4045.1	3930.0	3844.1	3699.8	3564.3	3538.0
40°	6134.7	6072.1	5766.1	4990.9	4351.2	4166.1	4027.7	3797.4	3616.7	3551.2
42.5°	7035.3	6946.4	6617.1	5607.2	4738.8	4470.6	4262.3	3921.3	3694.0	3593.4
45°	8141.3	8023.3	7557.0	6302.3	5226.9	4869.9	4591.6	4109.3	3812.0	3675.0
47.5°	9258.9	9288.1	8625.1	7097.9	5812.7	5362.4	5004.0	4392.0	3983.9	3806.2
50°	10446.6	10467.0	9687.4	7979.5	6477.2	5919.1	5467.4	4708.2	4222.9	3992.7
52.5°	11373.3	11376.2	10652.0	8901.9	7169.3	6531.1	5967.2	5069.5	4499.8	4240.4
55°	11953.3	11946.0	11328.1	9774.8	7965.0	7173.7	6520.9	5480.5	4837.9	4531.8
57.5°	12374.4	12352.5	11794.4	10525.2	8813.0	7932.9	7147.5	5946.8	5237.1	4878.7
60°	12534.7	12521.6	12110.7	11173.7	9704.8	8772.2	7870.3	6468.4	5690.3	5288.1
62.5°	12595.9	12620.7	12421.0	11801.7	10659.3	9701.9	8664.4	7092.1	6200.3	5751.5
65°	12811.6	12856.7	12815.9	12623.6	11737.6	10790.4	9718.0	7833.8	6757.0	6248.4
67.5°	13238.5	13283.7	13301.2	13607.2	13054.9	12147.1	11032.3	8757.7	7408.3	6764.2
70°	13228.3	13215.2	13524.1	14389.7	14704.4	14025.4	12804.3	9894.3	8185.0	7192.7
72.5°	12040.7	11935.8	12665.8	14380.9	16077.1	15986.8	14968.2	11360.2	8855.3	7245.1
75°	9033.1	8753.3	10042.9	12960.2	16305.9	17100.1	16343.8	12269.5	8696.5	6401.4
77.5°	3863.0	3581.8	5101.6	9594.1	14593.7	15985.3	15081.9	10704.5	6942.0	4233.1
80°	1011.3	1009.8	1541.7	4349.7	9924.9	11804.6	10356.2	6912.9	3966.5	1512.6
82.5°	418.2	408.0	566.8	1691.8	4849.5	6624.4	5406.2	3083.4	1432.4	409.5
85°	155.9	154.5	275.4	584.3	1710.7	2732.2	1977.4	788.3	357.0	199.6
87.5°	43.7	42.3	59.7	202.5	416.8	632.4	338.1	129.7	100.5	78.7
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°
3141.7	0°	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7
3147.5	2.5°	3151.9	3159.2	3172.3	3182.5	3195.6	3210.2	3230.6	3243.7	3256.8	3265.5
3154.8	5°	3165.0	3181.0	3214.5	3248.1	3287.4	3323.8	3366.1	3396.7	3421.5	3428.8
3181.0	7.5°	3194.1	3220.4	3277.2	3334.0	3396.7	3456.4	3517.6	3570.1	3612.4	3628.4
3227.7	10°	3245.1	3280.1	3360.3	3440.4	3523.5	3615.3	3694.0	3769.7	3829.5	3854.3
3283.0	12.5°	3309.3	3353.0	3457.9	3568.6	3683.8	3810.5	3912.5	4005.8	4080.1	4113.6
3360.3	15°	3392.3	3449.2	3583.2	3731.8	3900.9	4077.2	4206.9	4310.4	4393.4	4434.2
3440.4	17.5°	3482.7	3558.4	3727.5	3951.9	4193.8	4425.5	4577.0	4652.8	4738.8	4778.1
3514.7	20°	3570.1	3663.4	3905.3	4231.7	4553.7	4800.0	4922.4	4942.8	4948.6	4953.0
3584.7	22.5°	3660.4	3785.8	4128.2	4584.3	4929.7	5100.1	5117.6	5030.2	4907.8	4851.0
3653.2	25°	3759.5	3925.7	4419.6	4973.4	5253.1	5273.5	5139.5	4926.7	4695.0	4588.7
3708.5	27.5°	3855.7	4087.4	4769.4	5345.0	5486.3	5307.1	5018.5	4716.9	4437.1	4324.9
3747.9	30°	3951.9	4272.5	5155.5	5669.9	5592.7	5224.0	4827.7	4491.0	4209.8	4091.8
3782.8	32.5°	4049.5	4488.1	5600.0	5904.5	5573.7	5047.7	4590.1	4237.5	3989.8	3865.9
3813.5	35°	4160.3	4753.3	6021.1	6032.7	5447.0	4788.3	4276.8	3934.4	3718.7	3619.6
3849.9	37.5°	4304.5	5089.9	6392.7	6064.8	5225.5	4408.0	3887.8	3575.9	3398.2	3353.0
3903.8	40°	4483.8	5495.0	6676.8	6013.8	4897.6	3946.1	3462.3	3213.1	3112.5	3122.7
3976.7	42.5°	4716.9	5948.2	6876.5	5882.7	4441.5	3469.6	3089.2	2978.5	3026.6	3067.4
4085.9	45°	5020.0	6418.9	7000.3	5659.7	3925.7	3065.9	2869.2	2895.4	2931.9	2936.2
4262.3	47.5°	5407.6	6895.4	7081.9	5323.1	3399.6	2781.8	2729.3	2735.1	2727.8	2697.2
4526.0	50°	5891.4	7358.8	7154.8	4877.2	2952.3	2604.0	2534.0	2513.6	2413.1	2314.0
4877.2	52.5°	6442.2	7784.3	7185.4	4323.5	2604.0	2455.4	2341.7	2213.5	2025.5	1994.9
5318.7	55°	7054.2	8177.7	7106.7	3643.0	2311.1	2264.5	2092.5	1938.1	1917.7	1891.4
5900.1	57.5°	7785.7	8601.8	6946.4	2883.8	2010.9	2041.5	1873.9	1891.4	1855.0	1814.2
6647.7	60°	8585.7	9040.4	6665.2	2191.6	1700.5	1763.2	1817.1	1815.7	1805.5	1771.9
7436.0	62.5°	9305.6	9328.9	6111.4	1678.7	1428.0	1547.5	1694.7	1693.2	1684.5	1665.6
8259.3	65°	9734.0	9285.2	5187.6	1321.7	1203.6	1369.8	1528.6	1540.2	1541.7	1540.2
8878.6	67.5°	9658.2	8773.7	3919.8	1052.1	1018.6	1189.1	1363.9	1380.0	1391.6	1394.5
8957.3	70°	8801.4	7650.2	2555.9	839.3	853.9	1030.2	1208.0	1224.0	1234.2	1245.9
7772.6	72.5°	6860.4	5624.7	1463.0	679.0	709.6	893.3	1053.5	1072.5	1078.3	1100.2
5409.1	75°	4180.7	3307.8	789.8	534.8	582.9	763.6	900.5	922.4	932.6	958.8
2656.4	77.5°	1987.6	1432.4	450.3	416.8	469.2	623.7	760.7	785.4	757.7	772.3
733.0	80°	671.8	531.9	284.2	317.7	358.5	486.7	609.1	633.9	575.6	572.7
243.3	82.5°	234.6	215.7	180.7	211.3	231.7	348.3	460.5	492.5	428.4	427.0
109.3	85°	91.8	87.4	100.5	115.1	138.4	214.2	303.1	319.1	263.8	212.7
32.1	87.5°	18.9	20.4	24.8	26.2	42.3	74.3	109.3	134.1	106.4	90.3
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>
3141.7
3259.7
3431.7
3629.8
3855.7
4113.6
4431.3
4776.6
4964.6
4867.0
4604.7
4338.0
4104.9
3881.9
3641.5
3385.0
3157.7
3105.3
2965.4
2720.6
2327.1
2005.1
1895.8
1806.9
1760.3
1658.3
1540.2
1397.4
1251.7
1108.9
961.7
760.7
566.8
406.6
209.8
83.1
0.0

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