

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: P943622

Luminaire Tested: **GALN-SB8A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943622
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-SB8A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26055 lumens
Efficiency: N/A
Efficacy: 114.7 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

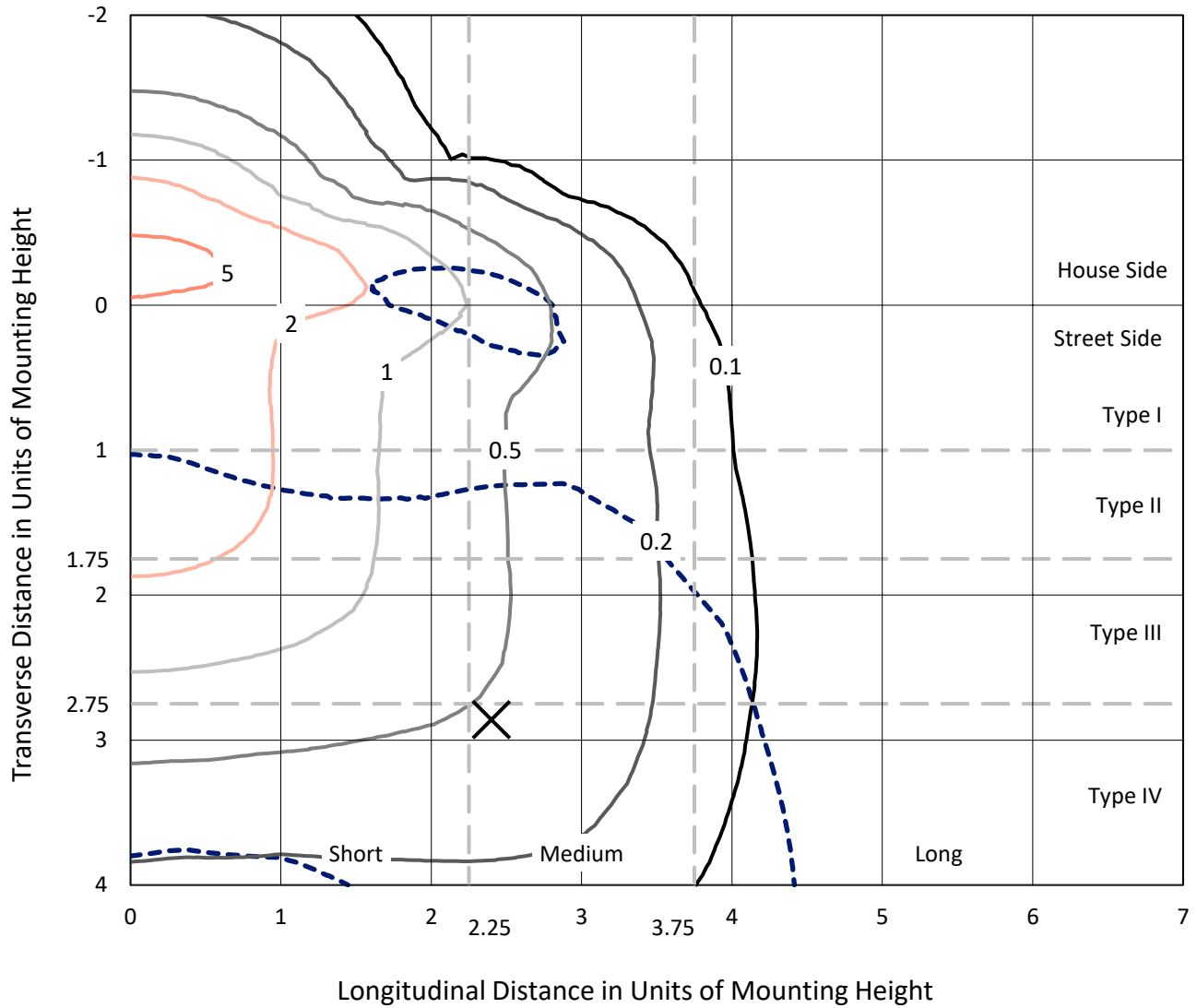
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

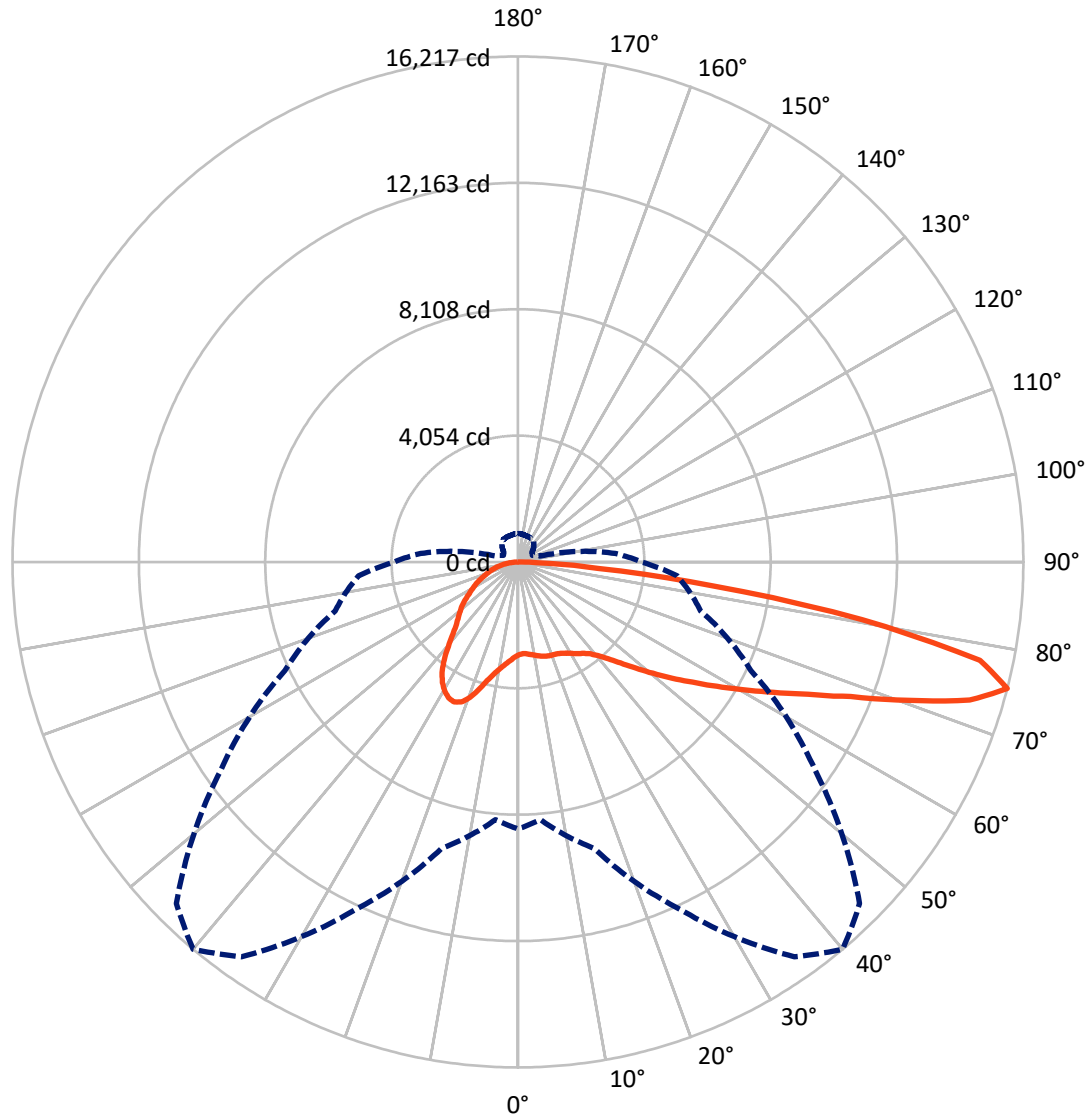
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	8072.7	0.0	8072.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17982.3	0.0	17982.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	26055.0	0.0	26055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	1.1
10°-20°	998.5	3.8
20°-30°	1823.2	7.0
30°-40°	2585.8	9.9
40°-50°	3491.6	13.4
50°-60°	4697.2	18.0
60°-70°	5961.8	22.9
70°-80°	5410.7	20.8
80°-90°	788.7	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°	26055.0	100.0
0°-180°	26055.0	100.0



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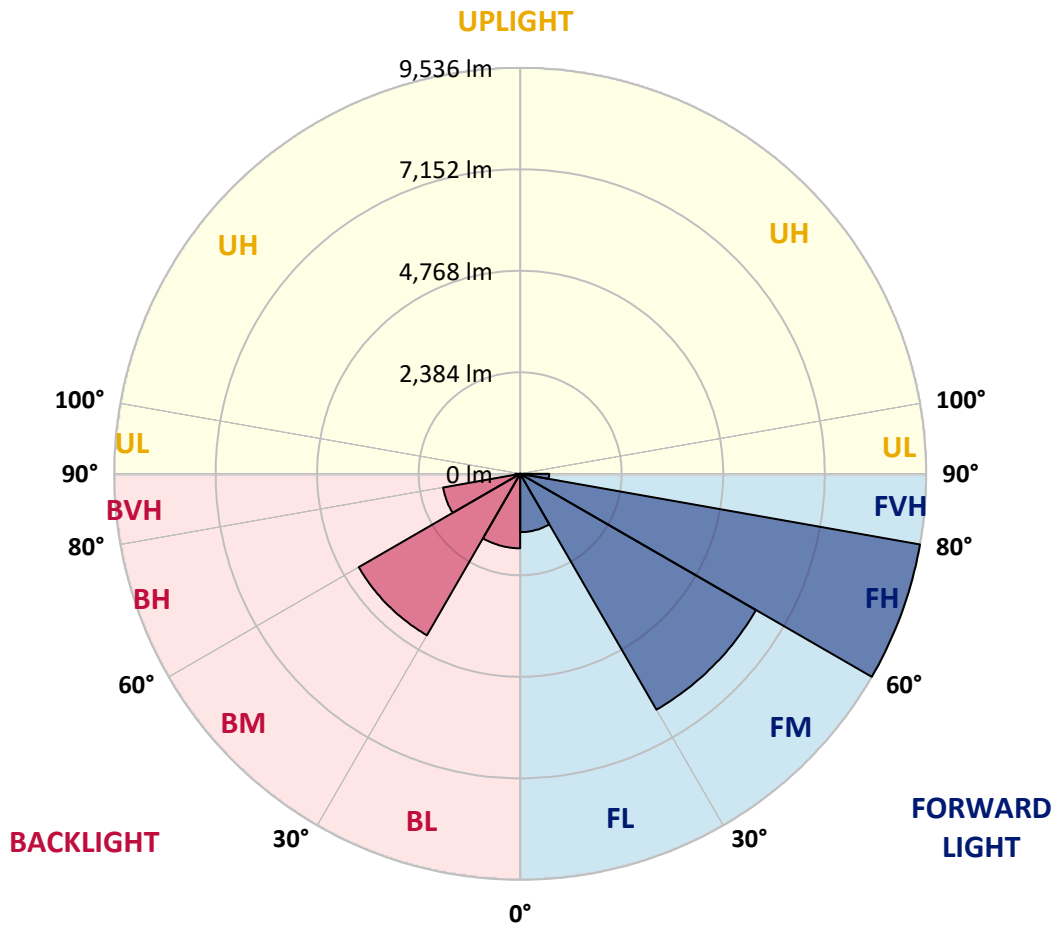
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.5	5.3			
FM (30°-60°)	6395.9	24.5			
FH (60°-80°)	9535.7	36.6			G4/12000
FVH (80°-90°)	680.1	2.6			G4/750
BL (0°-30°)	1748.6	6.7	B3/2500		
BM (30°-60°)	4378.7	16.8	B3/5000		
BH (60°-80°)	1836.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	108.6	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°	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4
2.5°	2933.8	2950.4	2946.3	2940.7	2940.7	2942.1	2940.7	2950.4	2960.1	2969.8
5°	2964.2	2980.8	2972.5	2965.6	2960.1	2958.7	2954.5	2953.2	2958.7	2971.1
7.5°	3023.6	3040.2	3027.8	3015.4	3004.3	2998.8	2993.2	2985.0	2980.8	2987.7
10°	3090.0	3106.6	3091.4	3069.2	3051.3	3044.4	3038.8	3030.6	3025.0	3029.2
12.5°	3156.3	3172.9	3152.2	3121.8	3098.3	3094.1	3087.2	3084.5	3083.1	3081.7
15°	3218.5	3232.3	3206.1	3170.1	3145.3	3138.3	3131.4	3135.6	3142.5	3150.8
17.5°	3266.9	3280.7	3242.0	3195.0	3171.5	3168.7	3164.6	3178.4	3197.8	3218.5
20°	3311.1	3324.9	3275.2	3211.6	3183.9	3183.9	3185.3	3214.4	3242.0	3272.4
22.5°	3373.3	3384.3	3323.5	3236.5	3196.4	3199.1	3210.2	3239.2	3273.8	3315.2
25°	3465.9	3474.2	3399.5	3283.4	3237.8	3246.1	3255.8	3269.6	3302.8	3351.2
27.5°	3615.1	3622.0	3523.9	3366.4	3297.3	3311.1	3324.9	3315.2	3330.4	3371.9
30°	3825.2	3829.3	3704.9	3496.3	3398.1	3405.1	3407.8	3367.7	3338.7	3371.9
32.5°	4073.9	4072.5	3924.7	3653.8	3512.8	3505.9	3482.4	3403.7	3336.0	3365.0
35°	4459.5	4444.3	4253.6	3874.9	3642.7	3599.9	3544.6	3443.7	3349.8	3358.1
37.5°	5097.9	5050.9	4787.0	4237.0	3836.2	3727.0	3645.5	3508.7	3380.2	3355.3
40°	5817.9	5758.5	5468.3	4733.1	4126.4	3950.9	3819.6	3601.3	3429.9	3367.7
42.5°	6671.9	6587.6	6275.3	5317.6	4494.0	4239.7	4042.1	3718.8	3503.2	3407.8
45°	7720.8	7608.9	7166.6	5976.8	4957.0	4618.4	4354.4	3897.0	3615.1	3485.2
47.5°	8780.7	8808.4	8179.6	6731.3	5512.5	5085.5	4745.5	4165.1	3778.2	3609.6
50°	9907.0	9926.3	9187.0	7567.4	6142.6	5613.4	5185.0	4465.0	4004.8	3786.5
52.5°	10785.9	10788.7	10101.9	8442.2	6799.1	6193.8	5659.0	4807.7	4267.4	4021.4
55°	11335.9	11329.0	10743.1	9269.9	7553.6	6803.2	6184.1	5197.4	4588.0	4297.8
57.5°	11735.3	11714.6	11185.3	9981.6	8357.9	7523.2	6778.3	5639.6	4966.6	4626.7
60°	11887.3	11874.9	11485.2	10596.6	9203.6	8319.2	7463.8	6134.4	5396.4	5015.0
62.5°	11945.3	11968.8	11779.5	11192.2	10108.8	9200.8	8216.9	6725.8	5880.1	5454.4
65°	12149.9	12192.7	12154.0	11971.6	11131.4	10233.1	9216.0	7429.2	6408.0	5925.7
67.5°	12554.8	12597.6	12614.2	12904.4	12380.6	11519.7	10462.5	8305.4	7025.7	6414.9
70°	12545.1	12532.7	12825.6	13646.5	13945.0	13301.0	12142.9	9383.3	7762.3	6821.2
72.5°	11418.8	11319.3	12011.7	13638.2	15246.7	15161.1	14195.1	10773.5	8397.9	6870.9
75°	8566.5	8301.2	9524.2	12290.8	15463.7	16216.9	15499.6	11635.8	8247.3	6070.8
77.5°	3663.5	3396.8	4838.1	9098.6	13839.9	15159.7	14302.9	10151.6	6583.5	4014.5
80°	959.1	957.7	1462.1	4125.0	9412.3	11195.0	9821.3	6555.8	3761.6	1434.4
82.5°	396.6	386.9	537.6	1604.4	4599.0	6282.2	5126.9	2924.1	1358.4	388.3
85°	147.9	146.5	261.2	554.2	1622.4	2591.1	1875.3	747.6	338.6	189.3
87.5°	41.5	40.1	56.7	192.1	395.2	599.8	320.6	123.0	95.4	74.6
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°
2979.4	0°	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4	2979.4
2985.0	2.5°	2989.1	2996.0	3008.4	3018.1	3030.6	3044.4	3063.7	3076.2	3088.6	3096.9
2991.9	5°	3001.5	3016.7	3048.5	3080.3	3117.6	3152.2	3192.2	3221.3	3244.8	3251.7
3016.7	7.5°	3029.2	3054.0	3107.9	3161.8	3221.3	3277.9	3336.0	3385.7	3425.8	3441.0
3061.0	10°	3077.5	3110.7	3186.7	3262.7	3341.5	3428.5	3503.2	3575.0	3631.7	3655.2
3113.5	12.5°	3138.3	3179.8	3279.3	3384.3	3493.5	3613.7	3710.5	3798.9	3869.4	3901.2
3186.7	15°	3217.1	3271.0	3398.1	3539.1	3699.4	3866.6	3989.6	4087.7	4166.5	4205.2
3262.7	17.5°	3302.8	3374.7	3535.0	3747.8	3977.2	4196.9	4340.6	4412.5	4494.0	4531.3
3333.2	20°	3385.7	3474.2	3703.6	4013.1	4318.5	4552.1	4668.1	4687.5	4693.0	4697.2
3399.5	22.5°	3471.4	3590.2	3915.0	4347.5	4675.0	4836.7	4853.3	4770.4	4654.3	4600.4
3464.5	25°	3565.4	3722.9	4191.4	4716.5	4981.8	5001.2	4874.0	4672.3	4452.6	4351.7
3517.0	27.5°	3656.6	3876.3	4523.0	5068.9	5202.9	5033.0	4759.3	4473.3	4208.0	4101.5
3554.3	30°	3747.8	4051.8	4889.2	5377.1	5303.8	4954.2	4578.3	4259.1	3992.4	3880.4
3587.5	32.5°	3840.4	4256.3	5310.7	5599.5	5285.9	4787.0	4353.1	4018.6	3783.7	3666.2
3616.5	35°	3945.4	4507.8	5710.1	5721.2	5165.6	4541.0	4055.9	3731.2	3526.7	3432.7
3651.0	37.5°	4082.2	4827.1	6062.5	5751.6	4955.6	4180.3	3687.0	3391.2	3222.6	3179.8
3702.2	40°	4252.2	5211.2	6332.0	5703.2	4644.6	3742.2	3283.4	3047.1	2951.8	2961.5
3771.3	42.5°	4473.3	5641.0	6521.3	5578.8	4212.1	3290.4	2929.7	2824.6	2870.3	2908.9
3874.9	45°	4760.7	6087.4	6638.8	5367.4	3722.9	2907.6	2721.0	2745.9	2780.4	2784.6
4042.1	47.5°	5128.3	6539.3	6716.1	5048.2	3224.0	2638.1	2588.3	2593.9	2587.0	2557.9
4292.2	50°	5587.1	6978.7	6785.2	4625.3	2799.8	2469.5	2403.2	2383.8	2288.5	2194.5
4625.3	52.5°	6109.5	7382.2	6814.3	4100.2	2469.5	2328.5	2220.7	2099.1	1920.9	1891.9
5044.0	55°	6689.9	7755.3	6739.6	3454.8	2191.7	2147.5	1984.4	1838.0	1818.6	1793.7
5595.4	57.5°	7383.6	8157.5	6587.6	2734.8	1907.1	1936.1	1777.2	1793.7	1759.2	1720.5
6304.3	60°	8142.3	8573.4	6320.9	2078.4	1612.7	1672.1	1723.3	1721.9	1712.2	1680.4
7051.9	62.5°	8825.0	8847.1	5795.8	1592.0	1354.3	1467.6	1607.2	1605.8	1597.5	1579.5
7832.7	65°	9231.2	8805.6	4919.6	1253.4	1141.5	1299.0	1449.6	1460.7	1462.1	1460.7
8420.1	67.5°	9159.4	8320.6	3717.4	997.7	966.0	1127.6	1293.5	1308.7	1319.7	1322.5
8494.7	70°	8346.8	7255.1	2423.9	796.0	809.8	977.0	1145.6	1160.8	1170.5	1181.5
7371.2	72.5°	6506.1	5334.2	1387.4	644.0	673.0	847.1	999.1	1017.1	1022.6	1043.4
5129.7	75°	3964.7	3137.0	749.0	507.2	552.8	724.1	854.0	874.8	884.4	909.3
2519.2	77.5°	1884.9	1358.4	427.0	395.2	445.0	591.5	721.4	744.9	718.6	732.4
695.1	80°	637.1	504.4	269.5	301.3	340.0	461.6	577.6	601.1	545.9	543.1
230.8	82.5°	222.5	204.5	171.4	200.4	219.7	330.3	436.7	467.1	406.3	404.9
103.6	85°	87.1	82.9	95.4	109.2	131.3	203.1	287.4	302.6	250.1	201.8
30.4	87.5°	18.0	19.3	23.5	24.9	40.1	70.5	103.6	127.1	100.9	85.7
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>
2979.4
3091.4
3254.4
3442.4
3656.6
3901.2
4202.4
4529.9
4708.2
4615.6
4366.9
4114.0
3892.9
3681.4
3453.4
3210.2
2994.6
2944.9
2812.2
2580.0
2206.9
1901.5
1797.9
1713.6
1669.4
1572.6
1460.7
1325.3
1187.1
1051.6
<i>912.1</i>
721.4
537.6
385.6
199.0
78.8
0.0

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