

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: P943637

Luminaire Tested: **GALN-SB8A-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25250 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

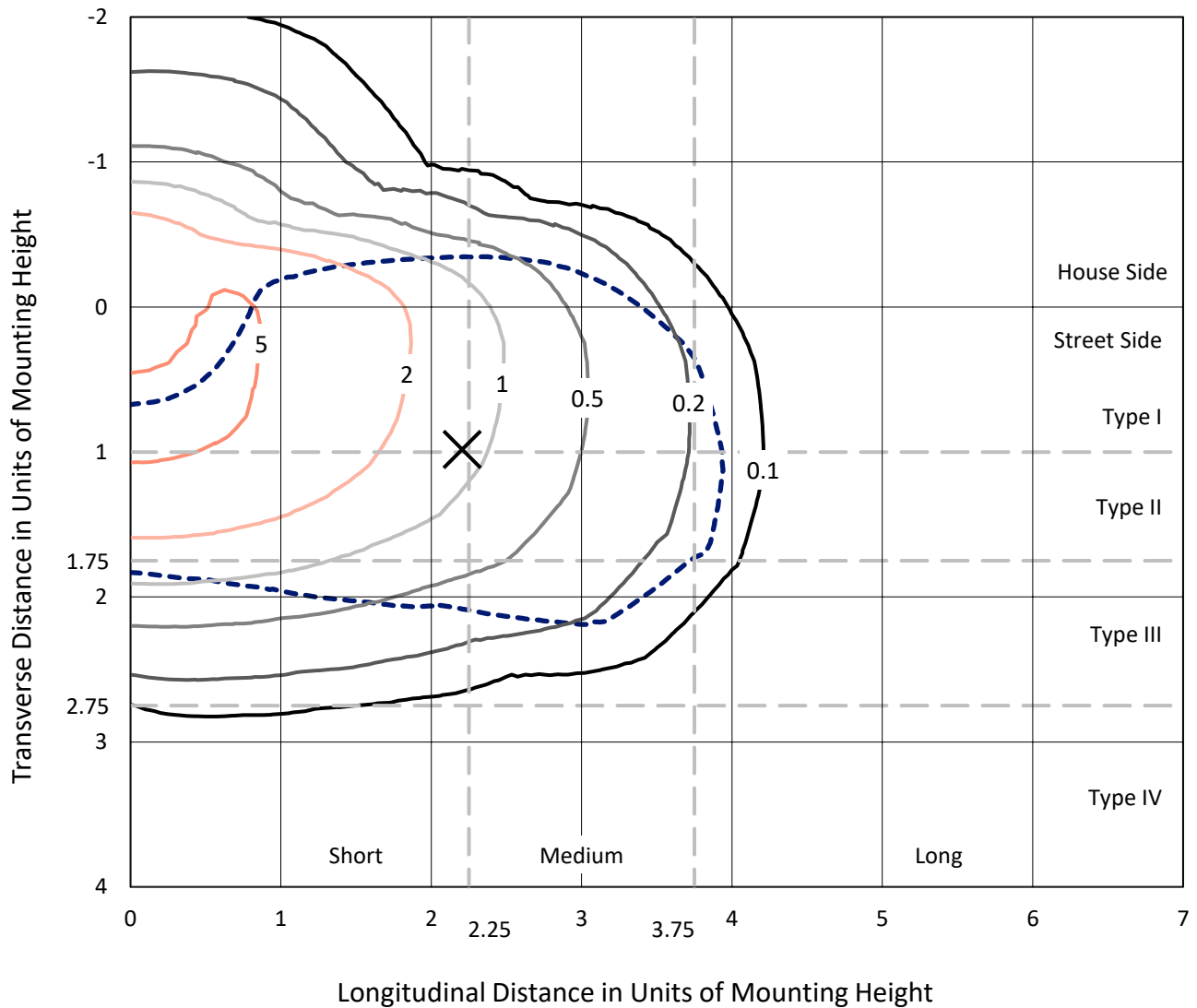
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943637
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Iso-Footcandle Lines of Horizontal Illumination

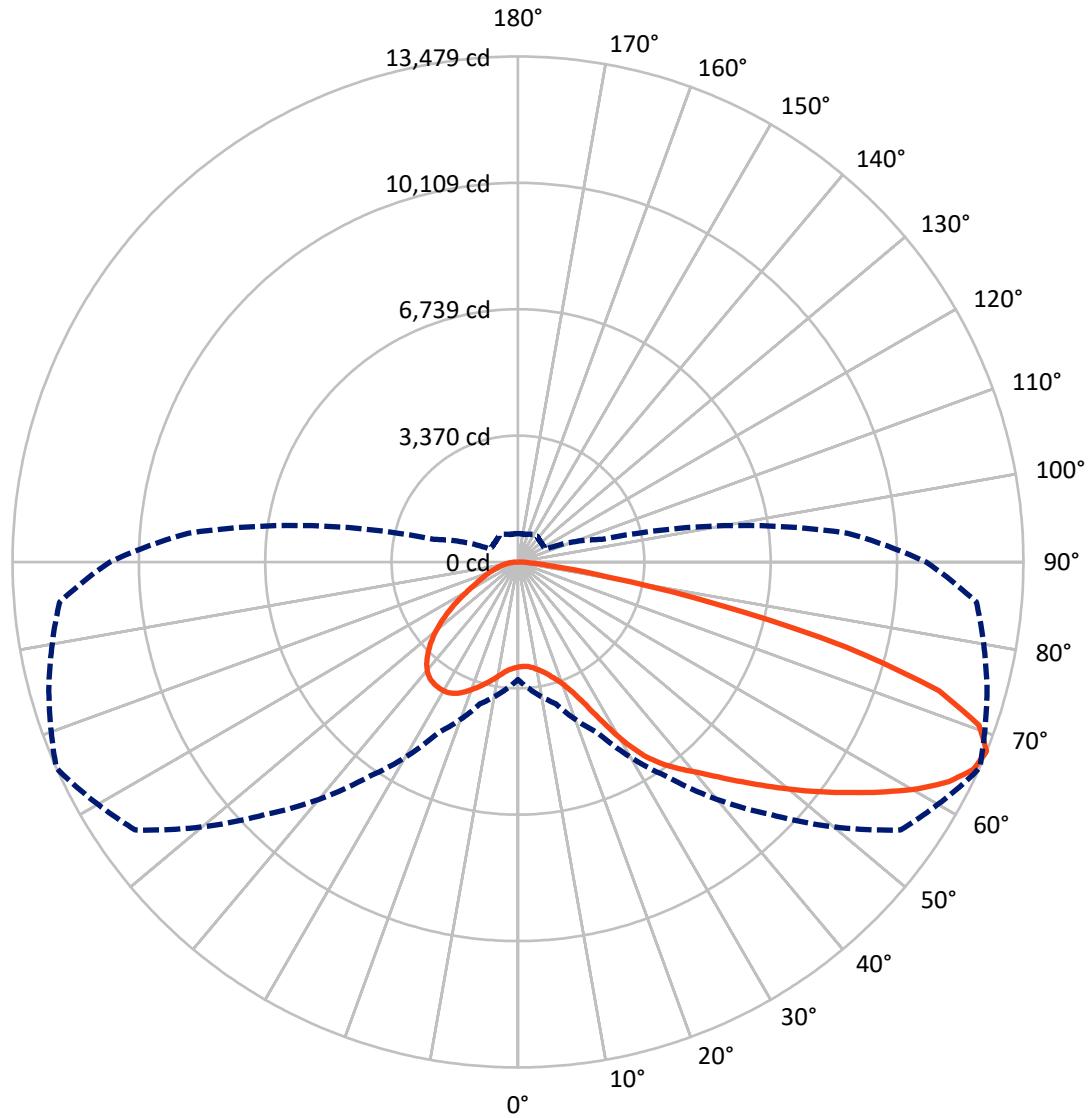
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P943637
CATALOG NUMBER: GALN-SB8A-950-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6278.3	0.0	6278.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18971.7	0.0	18971.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	25250.0	0.0	25250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.1
10°-20°	917.4	3.6
20°-30°	1768.2	7.0
30°-40°	3100.3	12.3
40°-50°	4609.1	18.3
50°-60°	5842.4	23.1
60°-70°	5716.7	22.6
70°-80°	2726.9	10.8
80°-90°	291.4	1.2
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°	25250.0	100.0
0°-180°	25250.0	100.0

Coefficient of Utilization



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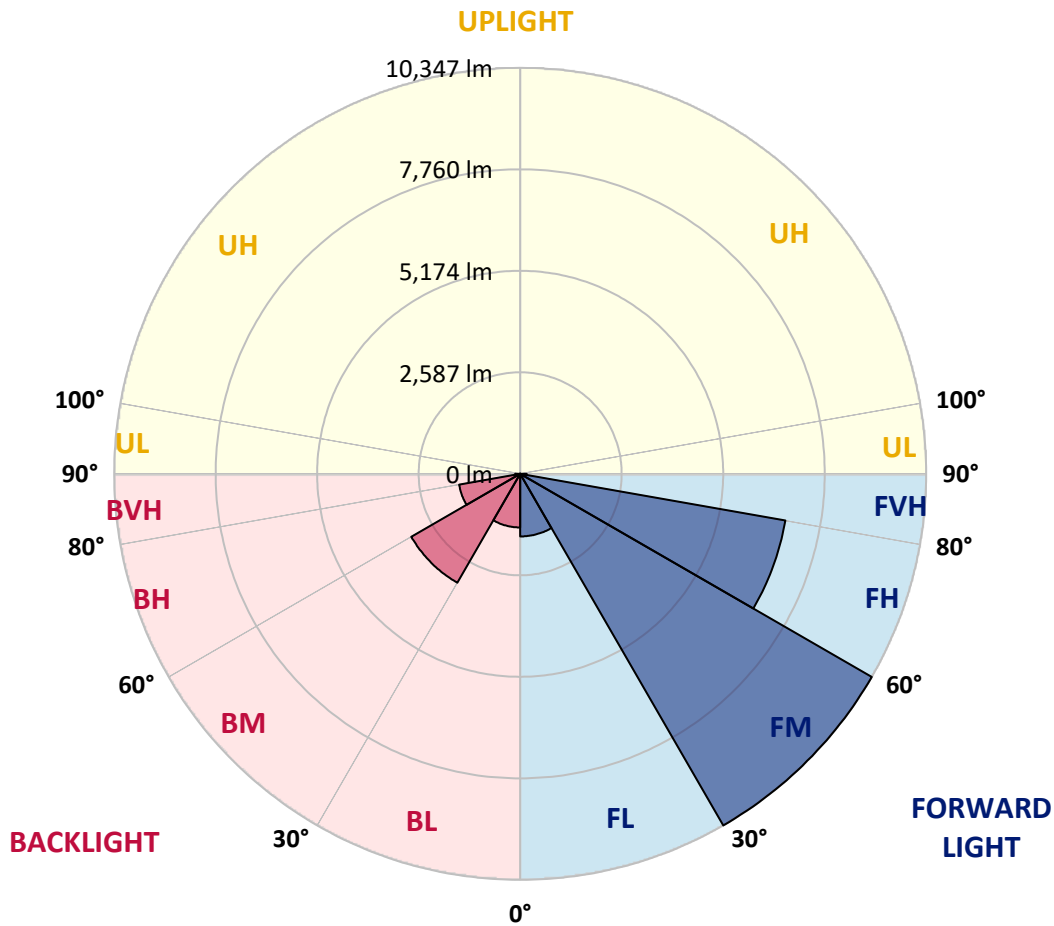
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.5	6.3			
FM (30°-60°)	10347.2	41.0			
FH (60°-80°)	6863.6	27.2			G3/7500
FVH (80°-90°)	165.2	0.7			G2/225
BL (0°-30°)	1367.7	5.4	B3/2500		
BM (30°-60°)	3204.5	12.7	B3/5000		
BH (60°-80°)	1580.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	126.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P943637

CATALOG NUMBER: GALN-SB8A-950-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6
2.5°	2771.4	2787.3	2783.3	2776.7	2775.4	2778.0	2782.0	2786.0	2784.6	2791.3
5°	2763.4	2779.3	2778.0	2778.0	2783.3	2793.9	2800.6	2807.2	2800.6	2808.5
7.5°	2768.7	2780.7	2786.0	2791.3	2804.5	2824.4	2840.4	2855.0	2847.0	2856.3
10°	2836.4	2845.7	2851.0	2851.0	2860.3	2882.8	2898.7	2925.3	2918.6	2933.2
12.5°	2959.8	2969.0	2969.0	2963.7	2970.4	2985.0	2990.3	3019.5	3007.5	3031.4
15°	3111.0	3129.6	3115.0	3105.7	3108.3	3122.9	3121.6	3144.2	3132.2	3152.1
17.5°	3278.2	3302.0	3278.2	3276.8	3271.5	3287.4	3288.8	3308.7	3287.4	3302.0
20°	3475.8	3509.0	3489.1	3495.7	3483.8	3490.4	3497.1	3526.2	3493.1	3503.7
22.5°	3754.4	3794.2	3773.0	3798.2	3790.2	3784.9	3783.6	3835.3	3783.6	3787.6
25°	4160.4	4208.1	4171.0	4205.5	4205.5	4222.7	4242.6	4309.0	4222.7	4197.5
27.5°	4760.0	4807.8	4734.8	4756.0	4749.4	4791.9	4770.6	4935.1	4842.3	4801.1
30°	5481.7	5566.6	5428.7	5423.3	5416.7	5484.4	5514.9	5623.7	5529.5	5488.4
32.5°	6261.8	6350.7	6186.2	6138.4	6113.2	6154.3	6129.1	6216.7	6151.7	6088.0
35°	7087.0	7174.5	7018.0	6925.1	6824.3	6738.1	6647.8	6670.4	6609.4	6512.5
37.5°	7867.0	8027.6	7861.7	7762.2	7576.5	7408.0	7156.0	7051.1	6994.1	6905.2
40°	8661.7	8753.2	8627.2	8542.3	8340.7	8076.6	7673.3	7451.8	7374.8	7288.6
42.5°	9246.8	9334.3	9266.7	9208.3	9050.4	8744.0	8222.6	7945.3	7833.9	7737.0
45°	9711.1	9776.1	9733.6	9754.9	9687.2	9390.0	8791.7	8474.6	8359.2	8241.2
47.5°	9898.1	9967.1	10034.8	10160.8	10276.2	10057.3	9403.3	9047.8	8925.7	8805.0
50°	9876.9	9947.2	10143.6	10411.6	10769.7	10696.8	10048.0	9658.0	9545.2	9407.3
52.5°	9707.1	9786.7	10038.8	10484.5	11055.0	11175.7	10704.7	10288.2	10182.0	10017.5
55°	9261.3	9309.1	9687.2	10318.7	11122.6	11510.0	11348.2	10959.5	10853.3	10623.8
57.5°	8434.8	8503.8	9054.4	9871.6	10952.8	11736.9	11913.3	11665.2	11563.1	11232.7
60°	7356.3	7466.4	8096.5	9120.7	10520.3	11735.5	12426.7	12359.1	12274.2	11832.4
62.5°	6135.8	6263.1	6869.4	8059.4	9764.1	11402.6	12747.8	12940.1	12896.4	12385.6
65°	4712.3	4799.8	5403.4	6686.3	8587.4	10687.5	12784.9	13336.8	13344.8	12806.2
67.5°	3137.5	3389.6	3913.6	5017.4	7011.3	9518.7	12458.6	13401.8	13478.8	12950.8
70°	1531.0	1862.6	2376.0	3260.9	5017.4	7726.4	11605.5	12868.5	13039.6	12528.9
72.5°	635.5	742.9	1022.8	1609.2	2880.2	5213.7	9891.5	11422.5	11739.5	11101.4
75°	428.5	464.3	585.1	825.2	1312.1	2571.0	7133.4	8517.1	9027.9	8384.4
77.5°	330.3	352.9	425.9	577.1	780.1	972.4	3818.1	5132.8	5396.8	4996.2
80°	260.0	277.3	318.4	420.5	553.2	520.0	1301.4	2325.6	2478.2	2078.9
82.5°	225.5	232.2	228.2	285.2	367.5	303.8	427.2	858.3	947.2	687.2
85°	163.2	181.8	189.7	176.4	195.0	153.9	175.1	303.8	334.3	298.5
87.5°	66.3	98.2	120.7	114.1	71.6	43.8	54.4	88.9	102.2	111.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943637
 CATALOG NUMBER: GALN-SB8A-950-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2800.6	0°	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6	2800.6
2801.9	2.5°	2803.2	2812.5	2819.1	2827.1	2832.4	2840.4	2856.3	2865.6	2866.9	2873.5
2823.1	5°	2828.4	2841.7	2856.3	2877.5	2901.4	2921.3	2951.8	2973.0	2981.0	2987.6
2874.9	7.5°	2882.8	2901.4	2927.9	2965.1	2999.6	3026.1	3063.2	3088.4	3113.6	3122.9
2957.1	10°	2963.7	2990.3	3028.7	3079.2	3116.3	3150.8	3189.3	3210.5	3235.7	3246.3
3055.3	12.5°	3064.6	3092.4	3142.8	3213.1	3247.6	3271.5	3284.8	3279.5	3284.8	3294.1
3173.3	15°	3180.0	3210.5	3267.5	3343.2	3367.0	3345.8	3316.6	3290.1	3286.1	3288.8
3316.6	17.5°	3316.6	3339.2	3405.5	3469.2	3451.9	3364.4	3300.7	3258.3	3237.0	3230.4
3499.7	20°	3507.7	3507.7	3562.1	3601.9	3486.4	3337.9	3238.4	3169.4	3125.6	3107.0
3749.1	22.5°	3739.8	3718.6	3753.1	3725.2	3479.8	3263.6	3125.6	3006.2	2939.9	2913.3
4098.0	25°	4034.3	4009.1	3999.9	3827.4	3432.0	3145.5	2921.3	2776.7	2718.3	2703.7
4600.8	27.5°	4478.8	4415.1	4294.4	3883.1	3344.5	2959.8	2682.5	2548.5	2515.3	2516.7
5246.9	30°	5070.5	4943.1	4647.3	3892.4	3201.2	2697.1	2438.4	2342.9	2326.9	2333.6
5789.5	32.5°	5618.4	5497.6	5008.1	3849.9	2981.0	2439.7	2219.5	2155.8	2131.9	2139.9
6203.4	35°	6048.2	6015.0	5342.4	3790.2	2710.3	2198.3	2023.1	1968.7	1922.3	1911.7
6593.5	37.5°	6454.2	6440.9	5593.2	3706.7	2442.4	2027.1	1865.3	1793.6	1726.0	1688.8
7024.6	40°	6899.9	6886.6	5757.7	3578.0	2204.9	1878.5	1723.3	1629.1	1545.5	1477.9
7512.8	42.5°	7401.4	7323.1	5835.9	3393.6	2003.2	1752.5	1607.9	1480.5	1370.4	1308.1
8064.7	45°	7949.3	7772.8	5834.6	3158.8	1833.4	1637.1	1484.5	1304.1	1201.9	1143.6
8631.2	47.5°	8530.4	8202.7	5763.0	2898.7	1668.9	1509.7	1293.5	1155.5	1087.9	1052.0
9246.8	50°	9130.0	8604.7	5640.9	2600.2	1500.4	1365.1	1174.1	1079.9	1028.2	995.0
9857.0	52.5°	9693.8	8969.5	5493.7	2261.9	1329.3	1224.5	1121.0	1048.1	993.7	956.5
10448.7	55°	10217.9	9283.9	5285.4	1915.7	1190.0	1130.3	1095.8	1034.8	972.4	928.7
11049.7	57.5°	10683.5	9488.2	4925.9	1590.7	1090.5	1065.3	1069.3	1012.2	940.6	903.4
11641.4	60°	11070.9	9638.1	4393.9	1289.5	1009.6	1001.6	1028.2	969.8	886.2	843.7
12141.5	62.5°	11303.1	9635.5	3741.2	1056.0	940.6	943.2	973.8	916.7	831.8	792.0
12402.9	65°	11283.2	9399.3	3024.8	903.4	874.3	876.9	916.7	858.3	786.7	762.8
12271.5	67.5°	10883.8	8823.6	2320.3	804.0	801.3	813.2	859.7	818.5	758.8	756.2
11488.8	70°	9802.6	7628.2	1671.6	724.4	725.7	742.9	804.0	793.3	744.3	749.6
9659.3	72.5°	7860.4	5816.0	1122.3	640.8	642.1	670.0	750.9	773.4	729.7	800.0
6853.5	75°	5235.0	3627.1	721.7	551.9	553.2	589.0	704.5	735.0	689.9	797.3
3566.0	77.5°	2515.3	1630.5	522.7	464.3	464.3	497.5	608.9	658.0	587.7	619.5
1146.2	80°	869.0	612.9	411.3	374.1	366.2	388.7	513.4	570.5	506.8	467.0
374.1	82.5°	342.3	318.4	330.3	290.5	264.0	278.6	399.3	471.0	372.8	337.0
210.9	85°	196.3	207.0	233.5	192.4	152.6	171.1	293.2	338.3	281.2	248.1
69.0	87.5°	53.1	73.0	107.5	99.5	69.0	73.0	139.3	187.1	161.9	124.7
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>
2800.6
2872.2
2986.3
3124.3
3251.6
3296.7
3298.1
3239.7
3103.0
2909.3
2706.4
2520.6
2356.1
2150.5
1919.7
1690.2
1484.5
1312.1
1140.9
1044.1
983.0
940.6
911.4
879.6
825.2
780.1
761.5
760.2
748.2
810.6
804.0
567.8
437.8
335.6
253.4
128.7
0.0

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