

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: P944145

Luminaire Tested: **GALN-SB8D-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56718 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

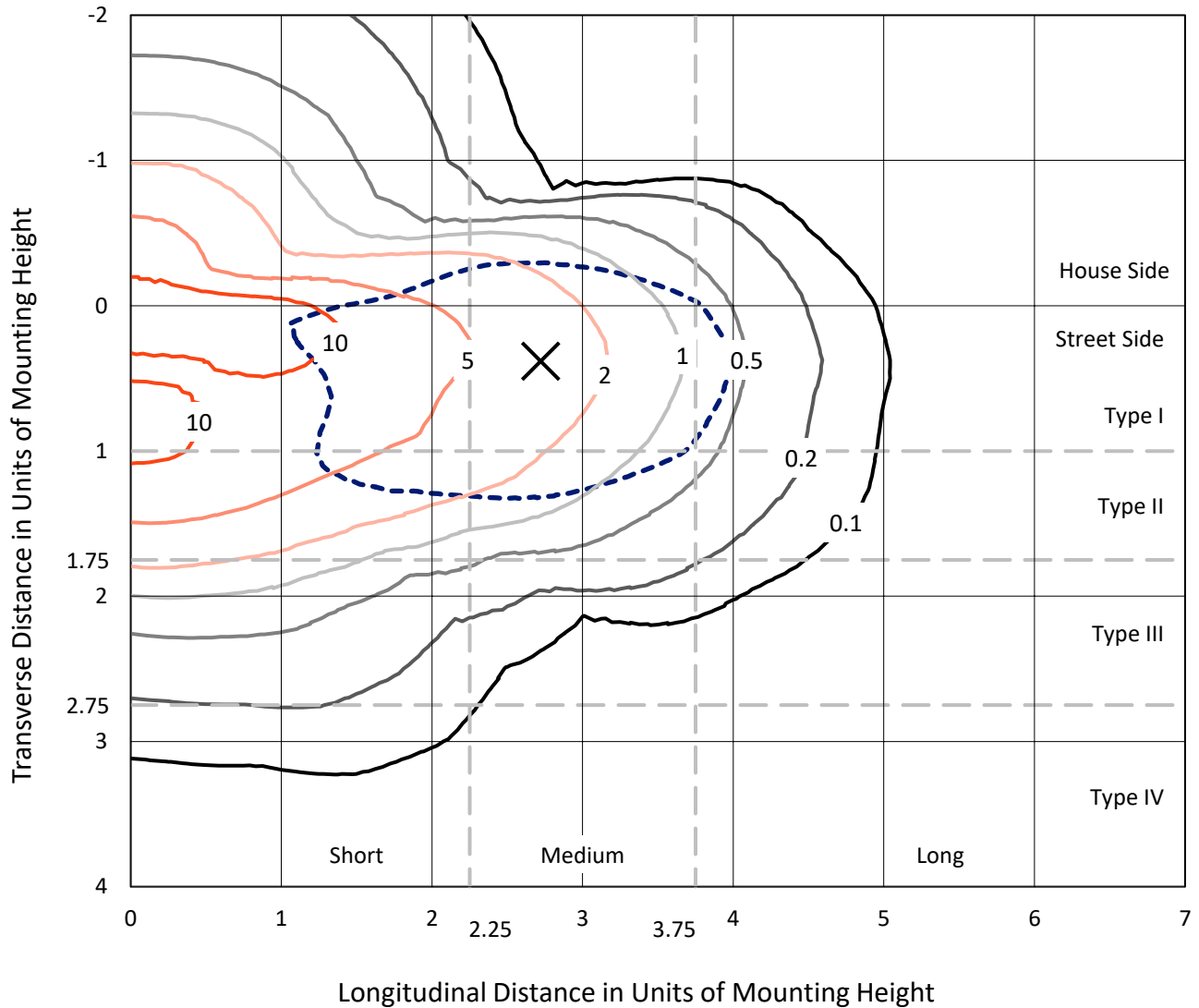
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

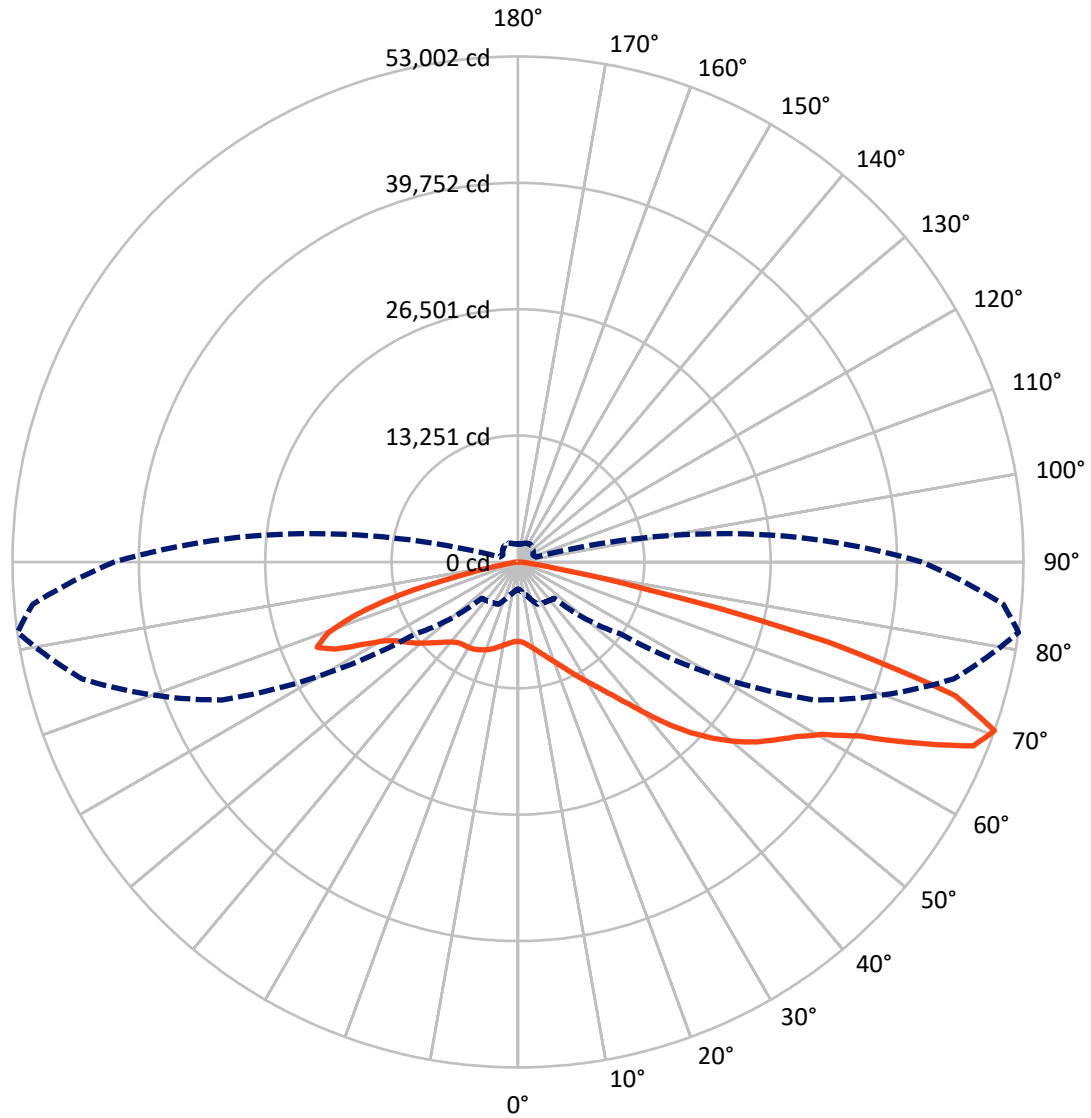
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13982.4	0.0	13982.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	42735.6	0.0	42735.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	56718.0	0.0	56718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.1	1.4
10°-20°	2255.7	4.0
20°-30°	3773.6	6.7
30°-40°	5895.4	10.4
40°-50°	9389.1	16.6
50°-60°	13066.1	23.0
60°-70°	13667.7	24.1
70°-80°	7143.5	12.6
80°-90°	741.8	1.3
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°	56718.0	100.0
0°-180°	56718.0	100.0

Coefficient of Utilization



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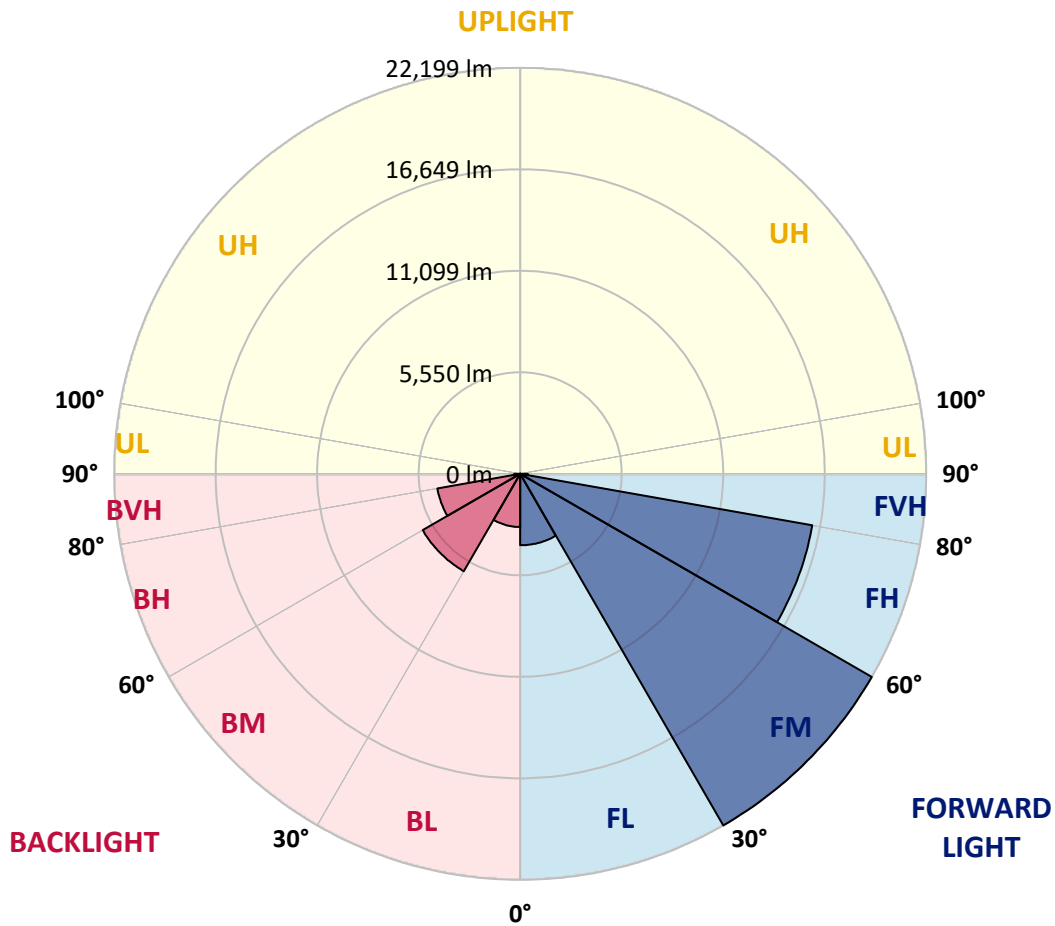
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3905.7	6.9			
FM (30°-60°)	22198.9	39.1			
FH (60°-80°)	16215.9	28.6			G5
FVH (80°-90°)	415.3	0.7			G3/500
BL (0°-30°)	2908.8	5.1	B4/5000		
BM (30°-60°)	6151.7	10.8	B4/8500		
BH (60°-80°)	4595.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	326.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6
2.5°	8514.2	8562.4	8547.3	8532.3	8532.3	8511.2	8508.2	8478.1	8454.0	8414.9
5°	8622.5	8673.7	8667.7	8679.7	8718.9	8727.9	8736.9	8718.9	8670.7	8622.5
7.5°	8526.2	8583.4	8601.5	8673.7	8794.1	8902.4	8983.7	9016.8	8971.7	8902.4
10°	8201.2	8264.4	8327.6	8499.2	8712.8	8968.7	9185.3	9314.8	9305.7	9239.5
12.5°	7542.1	7608.3	7743.7	8077.8	8469.1	8920.5	9323.8	9594.7	9688.0	9639.8
15°	7015.4	7072.6	7174.9	7518.0	8026.6	8712.8	9375.0	9901.6	10139.4	10112.3
17.5°	7000.4	7024.4	7087.6	7250.2	7641.4	8387.8	9320.8	10202.6	10657.0	10654.0
20°	7265.2	7274.2	7310.4	7343.5	7566.2	8141.0	9182.3	10452.4	11237.9	11237.9
22.5°	7632.4	7626.4	7662.5	7632.4	7740.7	8119.9	9095.1	10672.1	11885.0	11933.1
25°	8183.1	8153.0	8144.0	8074.8	8095.9	8315.6	9191.4	10921.9	12652.4	12751.7
27.5°	8917.5	8869.3	8836.2	8676.7	8622.5	8718.9	9486.3	11222.9	13507.2	13678.7
30°	9874.5	9787.3	9739.1	9462.2	9266.6	9281.7	9931.7	11623.1	14401.0	14677.9
32.5°	11180.7	11045.3	10915.9	10461.4	10103.3	9985.9	10506.6	12176.9	15370.1	15812.5
35°	12643.4	12535.0	12396.6	11695.4	11144.6	10873.7	11283.0	12950.4	16504.7	17206.0
37.5°	14051.9	13958.6	14024.8	13079.8	12369.5	11975.3	12300.3	13988.7	17904.2	18939.5
40°	15508.5	15436.3	15445.3	14542.5	13714.8	13272.4	13534.2	15291.9	19508.3	21001.1
42.5°	17091.6	17037.4	16856.9	16056.3	15126.3	14714.0	14954.8	16796.7	21229.8	23348.6
45°	18864.3	18831.2	18662.6	17744.7	16679.3	16215.8	16540.8	18458.0	22960.4	25557.7
47.5°	20396.2	20423.3	20402.2	19628.7	18524.2	17844.0	18232.3	20191.5	24570.5	27634.3
50°	21133.5	21275.0	21482.6	21241.9	20555.7	19863.5	19938.7	21864.9	26105.4	29581.5
52.5°	20748.3	21016.1	21582.0	21967.2	22232.0	22087.6	21885.9	23526.2	27550.0	31339.1
55°	19312.7	19688.9	20627.9	21557.9	22909.2	23959.6	24224.4	25368.1	28958.5	32886.1
57.5°	16697.3	17308.3	18151.0	20032.0	22307.3	24865.4	26951.1	27923.2	30451.3	34538.3
60°	12213.0	13031.6	14079.0	16877.9	20200.5	24380.9	29271.5	31847.8	32573.1	36678.2
62.5°	7816.0	8321.6	9284.7	11921.1	15740.3	21898.0	29981.8	36753.4	36169.6	40187.4
65°	5351.1	5676.1	6558.0	8038.7	10175.5	16300.1	28079.7	40431.2	41881.8	45749.2
67.5°	3888.4	4135.2	4887.6	6184.8	6630.2	9645.8	21789.6	40262.6	47434.6	51479.5
70°	2835.1	3009.6	3641.6	4887.6	5101.3	5366.1	13200.2	34225.3	47314.2	53002.3
72.5°	2100.7	2221.1	2645.5	3792.1	4129.2	3623.6	6533.9	24874.5	40656.9	47940.2
75°	1519.9	1610.1	1923.1	2901.3	3304.6	2759.8	3259.4	14536.4	28359.6	33722.7
77.5°	1161.7	1230.9	1435.6	2124.8	2645.5	2070.6	2022.5	6687.4	13447.0	13513.2
80°	933.0	978.1	1089.5	1495.8	2028.5	1550.0	1318.2	2699.6	4249.6	3596.5
82.5°	686.2	761.4	920.9	1050.4	1450.6	1068.4	803.6	1363.4	1616.2	1390.4
85°	391.3	442.4	556.8	752.4	927.0	653.1	460.5	604.9	752.4	617.0
87.5°	138.4	180.6	195.6	294.9	403.3	270.9	177.6	174.6	246.8	183.6
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°
8315.6	0°	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6
8405.9	2.5°	8375.8	8360.7	8300.5	8219.3	8135.0	8053.7	8026.6	7969.5	7930.3	7909.3
8601.5	5°	8544.3	8496.1	8354.7	8174.1	7984.5	7779.9	7635.4	7503.0	7406.7	7316.4
8869.3	7.5°	8785.1	8700.8	8457.0	8141.0	7803.9	7463.8	7211.0	7018.4	6889.0	6804.7
9182.3	10°	9065.0	8935.5	8562.4	8089.8	7569.2	7081.6	6783.7	6618.1	6536.9	6491.7
9540.5	12.5°	9387.0	9203.4	8670.7	7972.5	7211.0	6654.3	6449.6	6401.5	6404.5	6407.5
9991.9	15°	9784.3	9528.4	8758.0	7716.7	6744.5	6326.2	6290.1	6368.3	6449.6	6488.7
10503.6	17.5°	10232.7	9871.5	8773.0	7295.3	6287.1	6115.5	6229.9	6398.4	6521.8	6576.0
11075.4	20°	10714.2	10220.7	8664.7	6699.4	5910.9	5944.0	6148.6	6365.3	6500.8	6570.0
11728.5	22.5°	11265.0	10593.8	8405.9	6073.4	5603.9	5757.4	5998.2	6208.8	6350.3	6419.5
12495.9	25°	11894.0	11012.2	7999.6	5546.7	5339.1	5546.7	5787.5	5962.0	6076.4	6139.6
13353.7	27.5°	12592.2	11448.6	7457.8	5128.4	5107.3	5330.0	5528.7	5664.1	5724.3	5772.4
14265.6	30°	13293.5	11845.8	6801.7	4812.4	4905.7	5116.3	5257.8	5318.0	5336.0	5345.1
15282.8	32.5°	14051.9	12188.9	6112.5	4550.5	4713.1	4908.7	4993.0	5020.0	4935.8	4878.6
16516.8	35°	14969.8	12556.1	5438.4	4342.9	4523.5	4692.0	4719.1	4695.0	4595.7	4478.3
18063.7	37.5°	16104.5	13013.6	4899.7	4195.4	4345.9	4457.2	4424.1	4418.1	4427.1	4288.7
19923.7	40°	17494.9	13609.5	4505.4	4081.0	4201.4	4225.5	4132.2	4183.4	4228.5	4017.8
21964.2	42.5°	19038.8	14328.8	4255.6	4002.8	4081.0	4023.9	3879.4	3936.6	3930.6	3653.7
24013.7	45°	20612.9	15111.3	4168.3	3945.6	3969.7	3855.3	3695.8	3710.9	3584.5	3334.7
25979.0	47.5°	22177.9	15951.0	4222.5	3897.5	3831.2	3701.8	3578.4	3512.2	3325.6	3139.0
27863.0	50°	23712.8	16832.8	4421.1	3801.1	3641.6	3566.4	3476.1	3358.7	3160.1	3000.6
29644.7	52.5°	25136.3	17720.6	4643.8	3641.6	3403.9	3449.0	3391.8	3256.4	3060.8	2898.3
31330.1	55°	26484.6	18608.5	4731.1	3421.9	3181.2	3346.7	3313.6	3063.8	2829.0	2696.6
33093.7	57.5°	27953.3	19676.9	4634.8	3142.0	3000.6	3229.3	3102.9	2826.0	2690.6	2591.3
35390.1	60°	29987.8	21353.2	4427.1	2795.9	2829.0	3054.8	2838.1	2723.7	2576.2	2464.9
38833.1	62.5°	33367.6	24480.2	4093.1	2452.8	2627.4	2795.9	2711.7	2597.3	2446.8	2338.5
44719.9	65°	38363.6	28826.1	3464.1	2185.0	2401.7	2543.1	2576.2	2461.9	2305.4	2191.0
49878.4	67.5°	42577.0	31552.8	2621.4	1962.3	2169.9	2338.5	2431.8	2320.4	2154.9	2043.5
51085.2	70°	42345.3	29572.5	2001.4	1742.6	1965.3	2136.8	2257.2	2169.9	1992.4	1887.0
46402.3	72.5°	37611.2	24739.0	1619.2	1519.9	1757.6	1926.2	2070.6	2004.4	1823.8	1721.5
33993.6	75°	27631.3	17561.1	1294.1	1294.1	1498.8	1706.5	1866.0	1823.8	1658.3	1586.1
14271.6	77.5°	11647.2	7367.5	1014.2	1074.4	1246.0	1465.7	1664.3	1679.4	1534.9	1625.2
3774.1	80°	3096.9	2031.5	773.5	845.7	978.1	1209.9	1447.6	1441.6	1285.1	1200.8
1402.5	82.5°	1179.8	800.6	550.8	595.9	707.3	927.0	1146.7	1182.8	1026.3	887.8
550.8	85°	454.5	343.1	340.1	358.1	412.3	614.0	866.8	896.9	773.5	656.1
153.5	87.5°	117.4	102.3	126.4	120.4	189.6	328.0	496.6	514.6	472.5	273.9
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>
8315.6
7933.3
7352.5
6822.8
6503.8
6413.5
6485.7
6588.0
6588.0
6437.6
6157.7
5790.5
5366.1
4896.6
4484.3
4297.7
4023.9
3650.7
3343.7
3139.0
2988.5
2901.3
2684.6
2582.3
2458.9
2338.5
2197.0
2046.5
1896.1
1721.5
1565.0
1474.7
1116.6
887.8
677.2
391.3
0.0

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