

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: P957205

Luminaire Tested: **GALN-SB9C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64853 lumens
Efficiency: N/A
Efficacy: 144.2 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

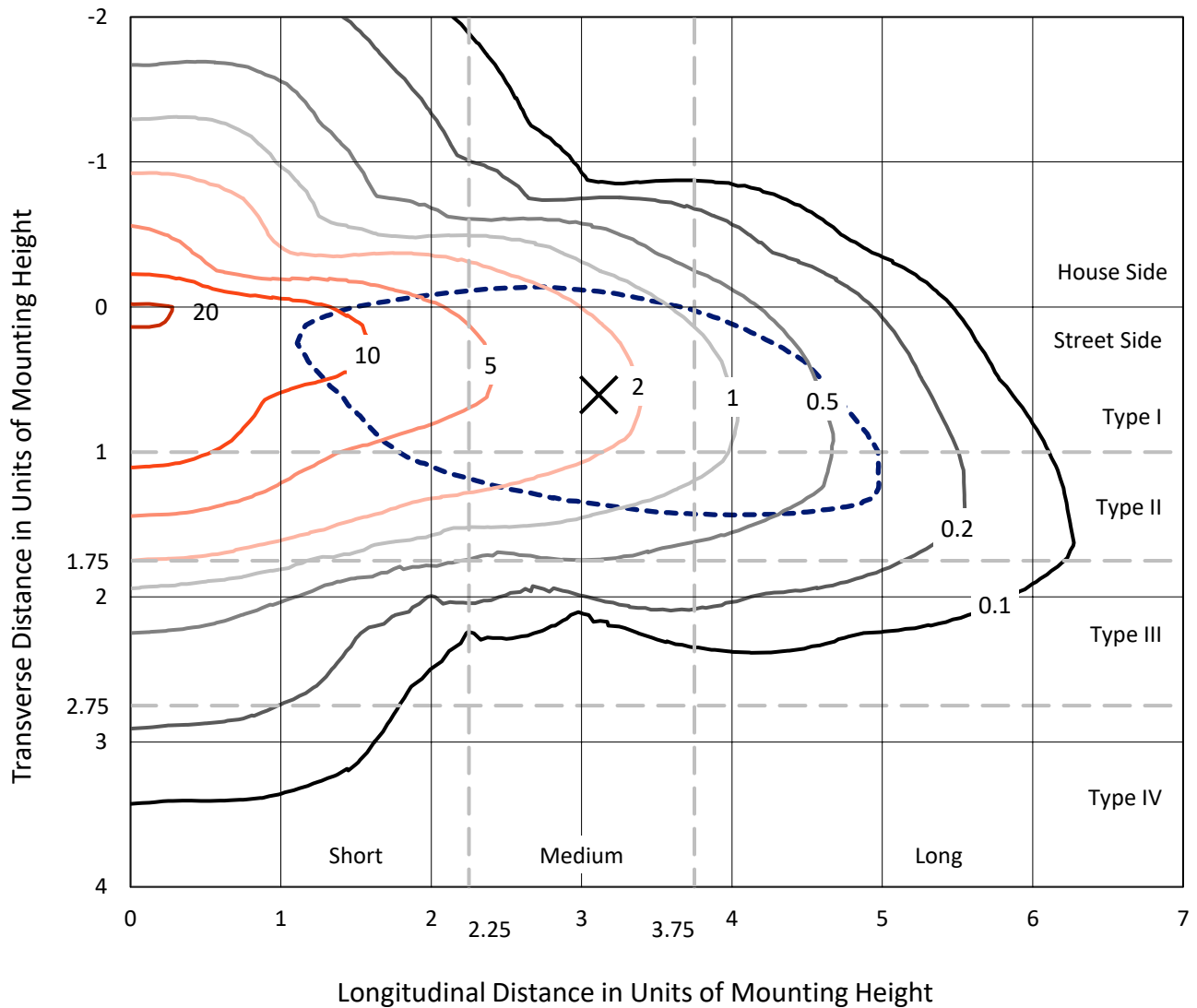
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

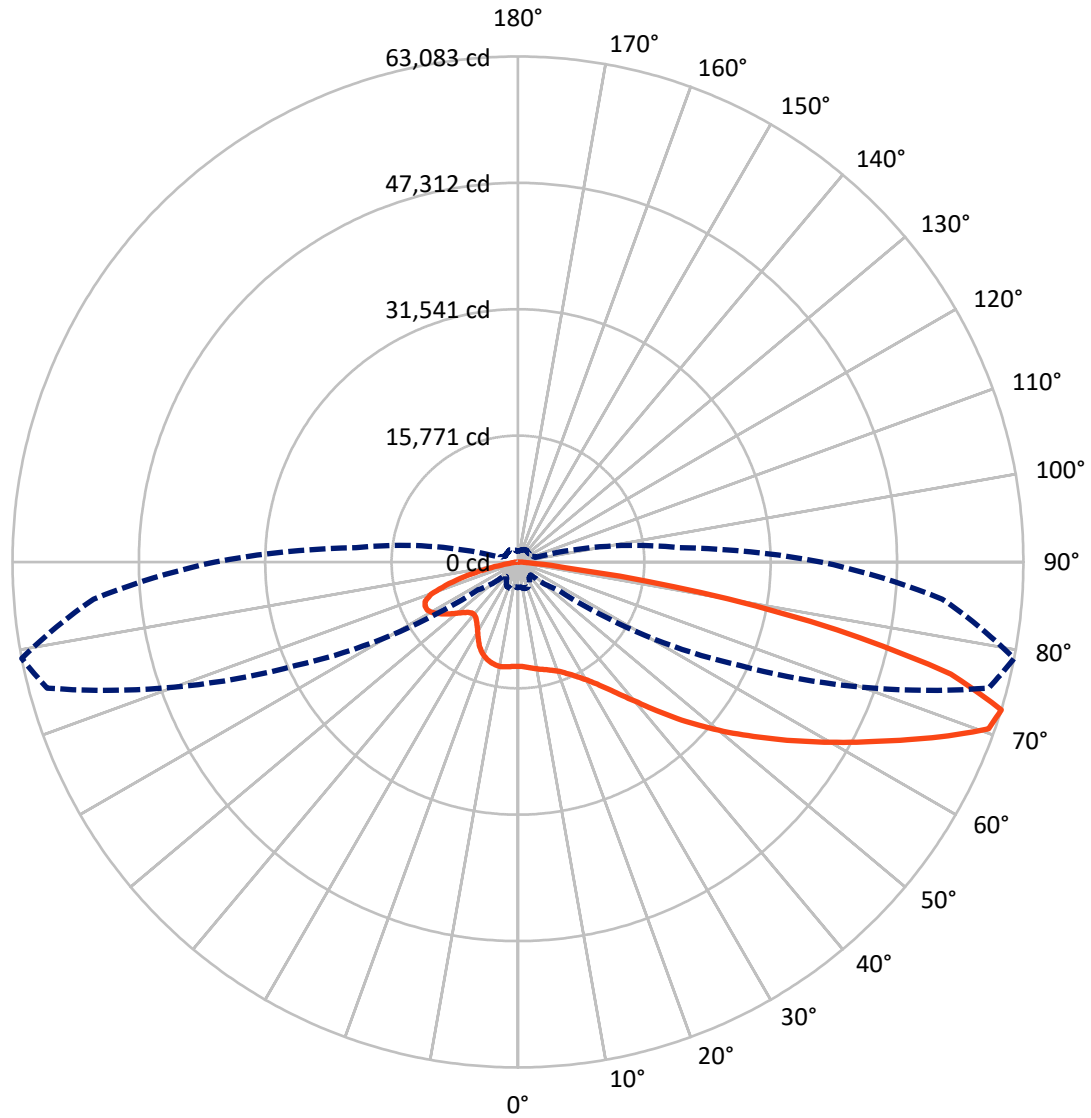
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14271.2	0.0	14271.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	50581.8	0.0	50581.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	64853.0	0.0	64853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.7	1.8
10°-20°	3089.6	4.8
20°-30°	4985.3	7.7
30°-40°	7482.3	11.5
40°-50°	10614.0	16.4
50°-60°	13404.1	20.7
60°-70°	13613.7	21.0
70°-80°	9278.4	14.3
80°-90°	1203.8	1.9
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°	64853.0	100.0
0°-180°	64853.0	100.0

Coefficient of Utilization

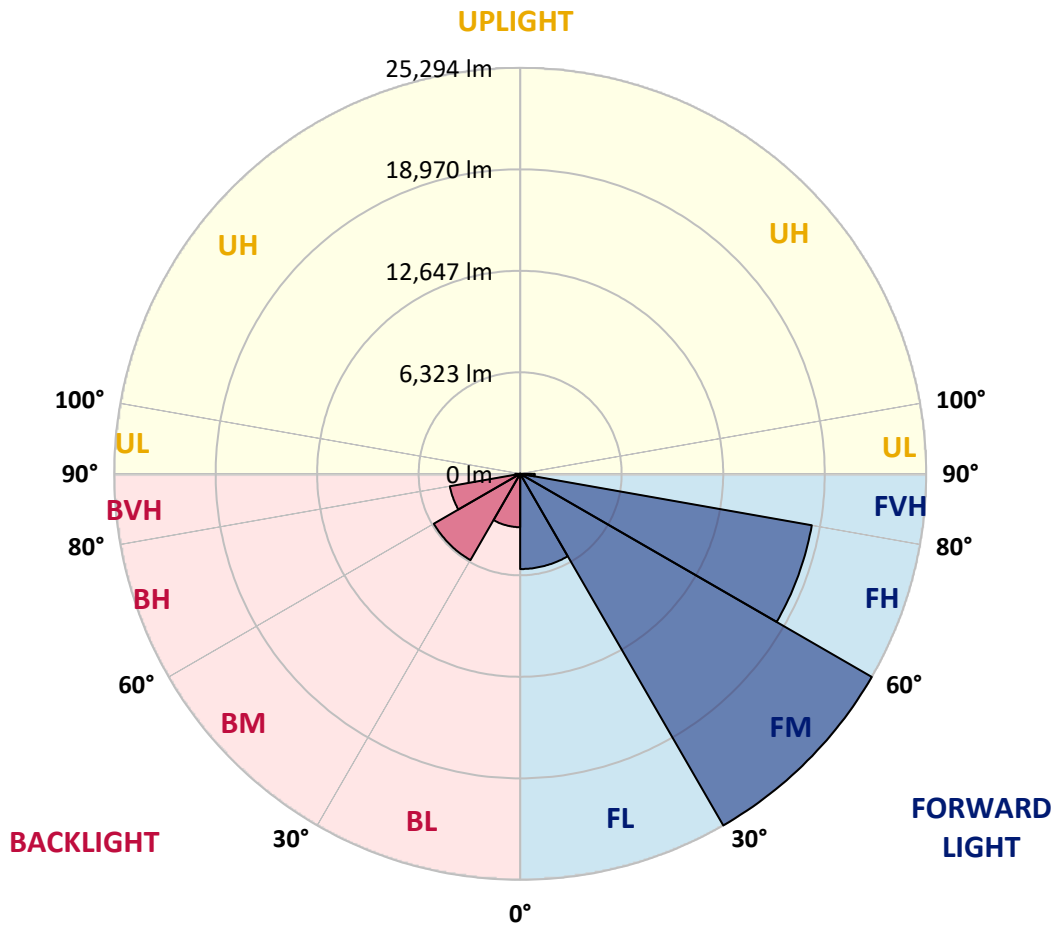


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5932.5	9.1			
FM (30°-60°)	25294.0	39.0			
FH (60°-80°)	18448.5	28.4			G5
FVH (80°-90°)	906.8	1.4			G5
BL (0°-30°)	3324.2	5.1	B4/5000		
BM (30°-60°)	6206.5	9.6	B4/8500		
BH (60°-80°)	4443.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	297.0	0.5			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°	79°
0°	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6
2.5°	13025.5	12963.7	13001.5	12987.7	13004.9	13025.5	13032.3	13042.6	13076.9	13073.5
5°	12998.0	12936.3	12987.7	12970.6	13015.2	13063.2	13104.4	13142.1	13197.0	13221.0
7.5°	12939.7	12898.6	12950.0	13001.5	13083.8	13155.8	13214.2	13299.9	13378.8	13392.5
10°	12600.1	12569.2	12689.3	12823.1	13049.5	13245.0	13372.0	13471.4	13557.2	13570.9
12.5°	12246.8	12209.0	12342.8	12524.6	12891.7	13245.0	13512.6	13643.0	13718.4	13763.0
15°	12188.5	12157.6	12233.0	12390.8	12696.2	13152.4	13608.7	13848.8	13914.0	13965.4
17.5°	12469.7	12411.4	12442.3	12497.2	12675.6	13066.6	13684.1	14082.1	14181.6	14236.4
20°	13121.5	13039.2	12991.2	12881.4	12850.5	13080.4	13677.3	14363.4	14493.7	14562.3
22.5°	13989.4	13934.6	13831.6	13553.8	13251.9	13248.5	13807.6	14723.6	14967.1	15032.3
25°	15039.2	14956.8	14826.5	14449.1	13869.4	13581.2	14027.2	15183.2	15591.5	15608.6
27.5°	16246.7	16123.2	15944.8	15447.4	14665.2	14102.7	14363.4	15711.5	16308.4	16301.6
30°	17519.4	17395.9	17207.2	16603.5	15618.9	14805.9	14829.9	16281.0	17159.2	17121.5
32.5°	18449.1	18356.4	18318.7	17852.2	16716.7	15636.1	15365.1	16912.2	18208.9	18174.6
35°	19162.6	19042.5	19087.1	18850.4	17913.9	16565.7	16020.3	17663.5	19485.1	19481.6
37.5°	19869.3	19762.9	19800.7	19642.9	19021.9	17745.8	16819.6	18582.8	21066.5	21142.0
40°	20514.2	20401.0	20551.9	20404.4	19883.0	19001.4	17728.7	19622.3	22898.4	23042.4
42.5°	20901.8	20812.6	21063.1	21066.5	20630.8	20061.4	18726.9	20768.0	25018.4	25340.9
45°	21035.6	21004.8	21382.1	21461.0	21292.9	20675.4	19625.7	22016.7	27303.1	27879.4
47.5°	20891.5	20833.2	21354.7	21646.2	21780.0	20963.6	20370.1	23368.3	29635.8	30479.7
50°	20164.3	20051.1	20826.4	21440.4	21917.3	21152.3	21121.4	24929.2	32287.6	33210.4
52.5°	18857.3	18771.5	19653.1	20720.0	21615.4	21244.9	21965.3	26634.1	34805.5	35999.3
55°	17186.6	17073.4	18044.3	19437.0	20864.1	21214.0	22809.2	28541.5	37776.3	38987.3
57.5°	14538.3	14311.9	15540.0	17186.6	19639.4	21176.3	23687.4	30438.5	40795.1	42246.2
60°	10675.6	10339.4	11845.4	13797.3	17245.0	20809.2	24774.8	32565.4	44417.7	45724.7
62.5°	6216.0	6020.5	7005.0	8826.6	12998.0	18648.0	25385.5	35038.8	47978.5	49350.7
65°	4826.7	4771.8	4857.5	4998.2	7234.9	13962.0	23502.1	37450.4	52506.7	53467.3
67.5°	4415.0	4373.8	4411.6	4147.4	3670.6	7776.9	18593.1	38061.0	57357.4	57940.6
70°	3924.5	3876.4	3999.9	3773.5	2888.5	3536.8	12013.5	35845.0	61216.7	62311.0
72.5°	3197.2	3142.3	3430.5	3327.6	2432.2	2271.0	6034.2	30579.2	60811.9	63082.9
75°	2456.2	2425.3	2768.4	2854.1	1982.8	1787.3	2895.3	22730.3	53515.3	55803.4
77.5°	1907.3	1883.3	2058.3	2370.5	1598.6	1385.9	1780.4	14418.3	40328.6	40729.9
80°	1430.5	1361.9	1523.1	1835.3	1245.3	1012.0	1207.5	8408.1	25491.8	23107.6
82.5°	895.4	861.0	994.8	1224.7	878.2	696.4	785.6	4644.9	10215.9	6017.0
85°	511.1	497.4	542.0	699.8	476.8	401.4	449.4	2051.4	1866.2	1283.0
87.5°	205.8	199.0	247.0	312.2	175.0	147.5	157.8	494.0	411.7	380.8
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°
13018.6	0°	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6	13018.6
13070.1	2.5°	13056.4	13056.4	13008.3	12932.9	12847.1	12792.2	12703.0	12679.0	12586.4	12558.9
13186.7	5°	13214.2	13186.7	13039.2	12826.5	12534.9	12267.4	11972.3	11787.1	11526.4	11433.7
13416.6	7.5°	13413.1	13337.7	13083.8	12617.3	12006.6	11406.3	10782.0	10308.6	9855.7	9694.5
13605.2	10°	13594.9	13488.6	13056.4	12239.9	11183.3	10143.9	9149.1	8452.7	7924.4	7708.3
13814.5	12.5°	13776.8	13581.2	12874.5	11612.1	10013.5	8603.6	7543.6	7001.6	6675.7	6415.0
13986.0	15°	13948.3	13673.8	12593.2	10771.7	8730.5	7300.0	6517.9	6085.6	5824.9	5653.4
14236.4	17.5°	14147.2	13752.7	12171.3	9704.8	7509.3	6397.8	5759.8	5499.0	5447.6	5427.0
14579.5	20°	14425.1	13824.8	11615.6	8511.0	6610.5	5677.4	5348.1	5324.1	5320.7	5310.4
14991.1	22.5°	14723.6	13910.5	10881.4	7427.0	5845.5	5228.0	5169.7	5121.7	5090.8	5087.4
15488.6	25°	15076.9	13938.0	9962.1	6538.5	5193.7	5015.3	4946.7	4874.7	4854.1	4854.1
16054.6	27.5°	15420.0	13845.4	8891.8	5766.6	4826.7	4819.8	4730.6	4706.6	4703.2	4713.5
16699.5	30°	15763.0	13670.4	7828.3	5053.1	4614.0	4614.0	4583.1	4600.3	4614.0	4648.3
17584.6	32.5°	16226.1	13485.2	6939.8	4524.8	4428.7	4394.4	4425.3	4459.6	4473.3	4517.9
18747.5	35°	16905.3	13354.8	6233.2	4236.6	4236.6	4192.0	4209.2	4202.3	4171.4	4150.9
20154.0	37.5°	17804.1	13347.9	5650.0	4102.8	4075.4	4068.5	4072.0	4027.4	3907.3	3763.2
21855.5	40°	18884.7	13533.2	5200.6	4010.2	3989.6	4030.8	4010.2	3890.1	3560.8	3310.4
23948.1	42.5°	20335.8	14061.5	4912.4	3897.0	3958.8	4010.2	3927.9	3512.8	3289.8	3121.7
26332.3	45°	22044.2	14919.1	4764.9	3776.9	3900.4	3962.2	3564.3	3382.4	3204.1	3001.7
28932.6	47.5°	23979.0	15999.7	4730.6	3663.7	3770.1	3807.8	3409.9	3327.6	3125.2	2905.6
31546.6	50°	26085.3	17279.3	4823.2	3530.0	3581.4	3451.1	3358.4	3283.0	3073.7	2857.6
34225.8	52.5°	28263.6	18689.2	5008.5	3348.1	3392.7	3248.7	3337.8	3272.7	3042.8	2751.2
36994.2	55°	30404.2	20109.4	5186.9	3135.4	3200.6	3066.8	3279.5	3231.5	2902.2	2572.9
39947.8	57.5°	32579.1	21522.8	5361.8	2946.8	3015.4	2891.9	3186.9	3121.7	2744.4	2408.2
43172.4	60°	34839.8	22894.9	5444.2	2765.0	2813.0	2730.7	3046.3	2933.0	2566.0	2240.1
46342.2	62.5°	36956.4	24037.3	5310.4	2583.1	2614.0	2579.7	2861.0	2710.1	2387.6	2051.4
49645.7	65°	39079.9	24716.5	4898.7	2404.8	2411.6	2394.5	2600.3	2469.9	2178.3	1886.8
52537.6	67.5°	41004.4	25097.3	4243.5	2212.7	2195.5	2188.6	2356.7	2209.2	1975.9	1722.1
54736.5	70°	41412.6	24129.9	3241.8	1986.2	1986.2	1969.1	2089.2	1938.2	1753.0	1547.1
53162.0	72.5°	37824.3	20298.1	2301.8	1729.0	1756.4	1722.1	1821.6	1694.7	1526.6	1389.3
45817.3	75°	30500.3	14884.8	1674.1	1464.8	1512.8	1454.5	1547.1	1457.9	1313.9	1310.4
31574.0	77.5°	20956.7	9203.9	1214.4	1207.5	1241.8	1166.4	1272.7	1224.7	1094.3	1036.0
13742.5	80°	8943.2	3670.6	885.1	933.1	933.1	864.5	988.0	1001.7	888.5	861.0
2651.8	82.5°	1780.4	1042.9	620.9	641.5	603.8	583.2	699.8	775.3	1070.3	1190.4
799.3	85°	535.2	384.2	373.9	349.9	308.7	312.2	411.7	778.7	960.5	548.9
264.1	87.5°	147.5	96.1	99.5	78.9	65.2	85.8	140.6	590.0	322.5	137.2
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>
13018.6
12603.5
11502.4
9715.1
7756.3
6500.7
5684.3
5440.7
5344.7
5125.1
4874.7
4740.9
4672.3
4555.7
4198.9
3766.7
3303.5
3114.9
2987.9
2888.5
2833.6
2730.7
2555.7
2401.3
2229.8
2048.0
1866.2
1701.5
1540.3
1348.2
1180.1
970.8
861.0
1193.8
473.4
116.6
0.0

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