

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: P955861

Luminaire Tested: **GALN-SB8C-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955861
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-SB8C-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 43617 lumens
Efficiency: N/A
Efficacy: 109.1 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

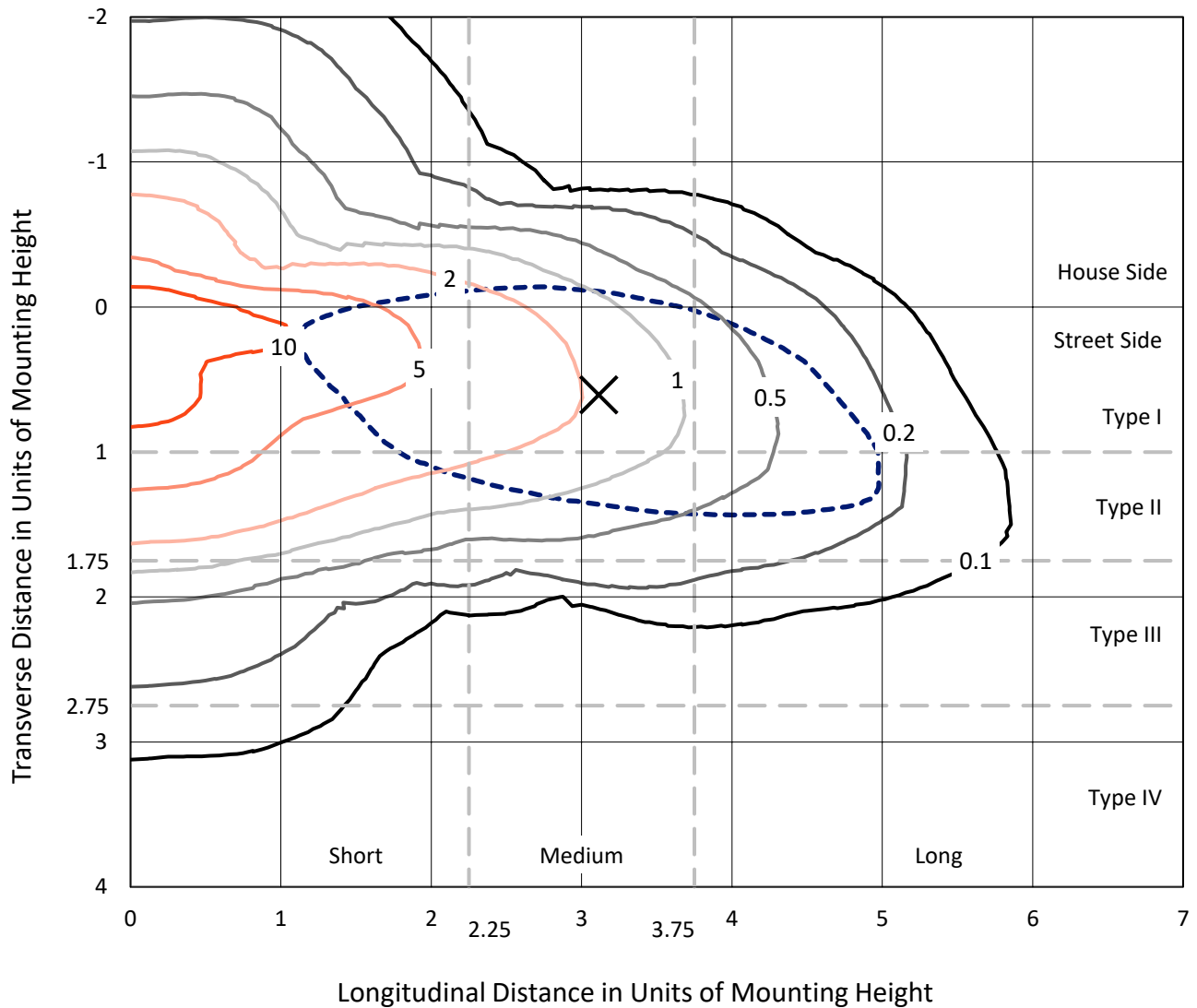
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

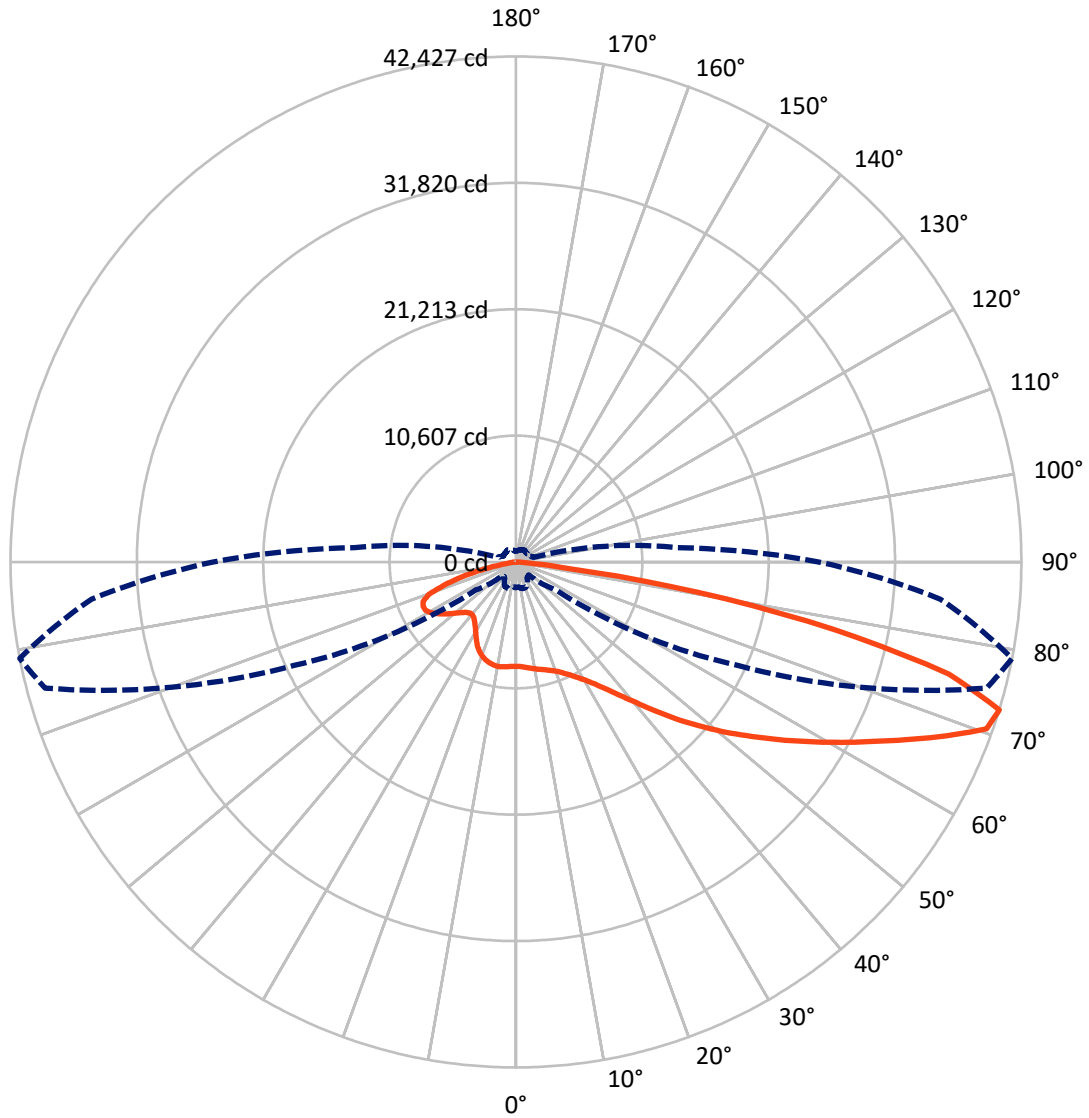
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	9598.1	0.0	9598.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	34018.9	0.0	34018.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	43617.0	0.0	43617.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.8	1.8
10°-20°	2077.9	4.8
20°-30°	3352.9	7.7
30°-40°	5032.2	11.5
40°-50°	7138.5	16.4
50°-60°	9015.0	20.7
60°-70°	9155.9	21.0
70°-80°	6240.2	14.3
80°-90°	809.6	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°	43617.0	100.0
0°-180°	43617.0	100.0

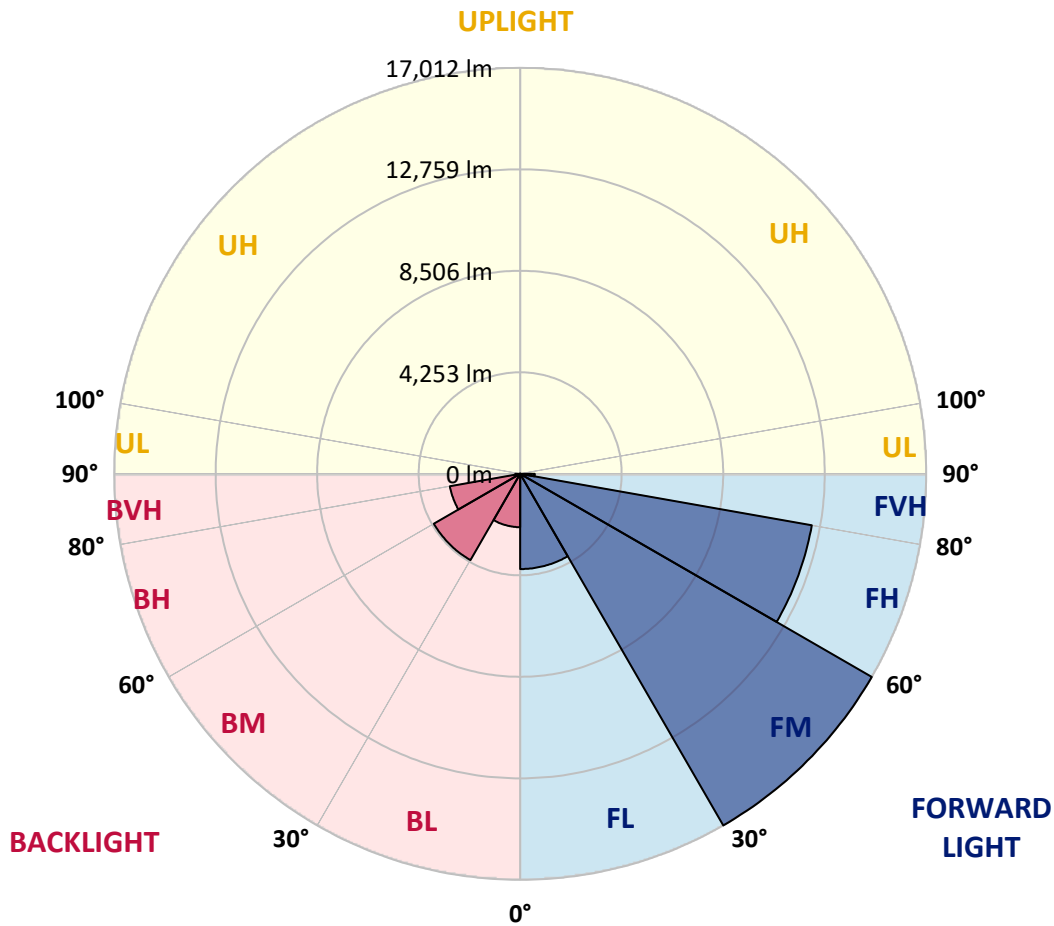


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3989.9	9.1			
FM (30°-60°)	17011.5	39.0			
FH (60°-80°)	12407.6	28.4			G5
FVH (80°-90°)	609.9	1.4			G4/750
BL (0°-30°)	2235.7	5.1	B3/2500		
BM (30°-60°)	4174.2	9.6	B3/5000		
BH (60°-80°)	2988.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	199.7	0.5			G2/225
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°	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7
2.5°	8760.3	8718.8	8744.2	8734.9	8746.5	8760.3	8764.9	8771.8	8794.9	8792.6
5°	8741.9	8700.3	8734.9	8723.4	8753.4	8785.7	8813.4	8838.8	8875.7	8891.8
7.5°	8702.6	8674.9	8709.6	8744.2	8799.5	8848.0	8887.2	8944.9	8998.0	9007.2
10°	8474.2	8453.5	8534.2	8624.2	8776.5	8908.0	8993.3	9060.2	9117.9	9127.2
12.5°	8236.6	8211.2	8301.2	8423.5	8670.3	8908.0	9087.9	9175.6	9226.4	9256.4
15°	8197.4	8176.6	8227.4	8333.5	8538.8	8845.7	9152.5	9314.0	9357.9	9392.5
17.5°	8386.6	8347.3	8368.1	8405.0	8525.0	8788.0	9203.3	9470.9	9537.8	9574.7
20°	8824.9	8769.5	8737.2	8663.4	8642.6	8797.2	9198.7	9660.1	9747.8	9793.9
22.5°	9408.6	9371.7	9302.5	9115.6	8912.6	8910.3	9286.3	9902.4	10066.2	10110.0
25°	10114.6	10059.2	9971.6	9717.8	9327.9	9134.1	9434.0	10211.5	10486.1	10497.6
27.5°	10926.7	10843.7	10723.7	10389.2	9863.1	9484.8	9660.1	10566.8	10968.3	10963.7
30°	11782.7	11699.6	11572.7	11166.7	10504.5	9957.7	9973.9	10949.8	11540.4	11515.1
32.5°	12407.9	12345.6	12320.3	12006.5	11242.8	10516.1	10333.8	11374.3	12246.4	12223.4
35°	12887.8	12807.1	12837.1	12677.9	12048.0	11141.3	10774.5	11879.6	13104.7	13102.4
37.5°	13363.1	13291.6	13317.0	13210.8	12793.2	11935.0	11312.0	12497.9	14168.3	14219.1
40°	13796.9	13720.7	13822.2	13723.0	13372.3	12779.4	11923.4	13197.0	15400.3	15497.2
42.5°	14057.6	13997.6	14166.0	14168.3	13875.3	13492.3	12594.8	13967.6	16826.2	17043.0
45°	14147.5	14126.8	14380.6	14433.6	14320.6	13905.3	13199.3	14807.4	18362.7	18750.3
47.5°	14050.6	14011.4	14362.1	14558.2	14648.2	14099.1	13700.0	15716.4	19931.6	20499.2
50°	13561.5	13485.4	14006.8	14419.8	14740.5	14226.0	14205.2	16766.2	21715.1	22335.7
52.5°	12682.5	12624.8	13217.8	13935.3	14537.5	14288.3	14772.8	17912.8	23408.5	24211.4
55°	11558.9	11482.8	12135.7	13072.4	14032.2	14267.5	15340.4	19195.6	25406.5	26221.0
57.5°	9777.8	9625.5	10451.5	11558.9	13208.5	14242.1	15931.0	20471.5	27436.8	28412.8
60°	7179.9	6953.8	7966.6	9279.4	11598.1	13995.3	16662.4	21901.9	29873.2	30752.2
62.5°	4180.6	4049.1	4711.2	5936.3	8741.9	12541.8	17073.0	23565.4	32268.0	33190.9
65°	3246.2	3209.3	3266.9	3361.5	4865.8	9390.2	15806.4	25187.3	35313.5	35959.5
67.5°	2969.3	2941.6	2967.0	2789.4	2468.7	5230.3	12504.8	25598.0	38575.8	38968.0
70°	2639.4	2607.1	2690.2	2537.9	1942.6	2378.7	8079.7	24107.6	41171.4	41907.4
72.5°	2150.3	2113.4	2307.2	2238.0	1635.8	1527.3	4058.3	20566.1	40899.1	42426.5
75°	1651.9	1631.2	1861.9	1919.6	1333.5	1202.0	1947.2	15287.3	35991.8	37530.7
77.5°	1282.8	1266.6	1384.3	1594.3	1075.1	932.1	1197.4	9697.0	27123.1	27393.0
80°	962.1	915.9	1024.4	1234.3	837.5	680.6	812.1	5654.9	17144.6	15541.1
82.5°	602.2	579.1	669.1	823.7	590.6	468.4	528.3	3123.9	6870.7	4046.8
85°	343.8	334.5	364.5	470.7	320.7	269.9	302.2	1379.7	1255.1	862.9
87.5°	138.4	133.8	166.1	210.0	117.7	99.2	106.1	332.2	276.9	256.1
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°
8755.7	0°	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7	8755.7
8790.3	2.5°	8781.1	8781.1	8748.8	8698.0	8640.3	8603.4	8543.4	8527.3	8465.0	8446.5
8868.7	5°	8887.2	8868.7	8769.5	8626.5	8430.4	8250.4	8052.0	7927.4	7752.1	7689.8
9023.3	7.5°	9021.0	8970.3	8799.5	8485.8	8075.1	7671.3	7251.4	6933.0	6628.5	6520.1
9150.2	10°	9143.3	9071.8	8781.1	8232.0	7521.4	6822.3	6153.2	5684.9	5329.6	5184.2
9291.0	12.5°	9265.6	9134.1	8658.8	7809.8	6734.6	5786.4	5073.5	4708.9	4489.7	4314.4
9406.3	15°	9380.9	9196.4	8469.6	7244.5	5871.7	4909.7	4383.6	4092.9	3917.6	3802.2
9574.7	17.5°	9514.8	9249.4	8185.8	6527.0	5050.4	4302.9	3873.7	3698.4	3663.8	3649.9
9805.5	20°	9701.6	9297.9	7812.1	5724.1	4445.9	3818.4	3596.9	3580.7	3578.4	3571.5
10082.3	22.5°	9902.4	9355.6	7318.3	4995.0	3931.4	3516.1	3476.9	3444.6	3423.8	3421.5
10416.9	25°	10140.0	9374.0	6700.0	4397.5	3493.1	3373.1	3326.9	3278.5	3264.6	3264.6
10797.5	27.5°	10370.7	9311.7	5980.2	3878.3	3246.2	3241.6	3181.6	3165.4	3163.1	3170.0
11231.3	30°	10601.4	9194.1	5265.0	3398.5	3103.1	3103.1	3082.4	3093.9	3103.1	3126.2
11826.5	32.5°	10912.9	9069.5	4667.4	3043.2	2978.6	2955.5	2976.2	2999.3	3008.5	3038.5
12608.7	35°	11369.7	8981.8	4192.1	2849.4	2849.4	2819.4	2830.9	2826.3	2805.5	2791.7
13554.6	37.5°	11974.2	8977.2	3799.9	2759.4	2740.9	2736.3	2738.6	2708.6	2627.9	2531.0
14699.0	40°	12701.0	9101.8	3497.7	2697.1	2683.2	2710.9	2697.1	2616.3	2394.8	2226.4
16106.3	42.5°	13676.9	9457.1	3303.9	2620.9	2662.5	2697.1	2641.7	2362.5	2212.6	2099.5
17709.8	45°	14825.9	10033.9	3204.7	2540.2	2623.2	2664.8	2397.1	2274.9	2154.9	2018.8
19458.6	47.5°	16127.1	10760.6	3181.6	2464.1	2535.6	2561.0	2293.3	2238.0	2101.8	1954.2
21216.7	50°	17543.7	11621.2	3243.9	2374.1	2408.7	2321.0	2258.7	2208.0	2067.2	1921.9
23018.6	52.5°	19008.7	12569.4	3368.5	2251.8	2281.8	2184.9	2244.9	2201.0	2046.5	1850.3
24880.5	55°	20448.4	13524.6	3488.4	2108.8	2152.6	2062.6	2205.7	2173.4	1951.9	1730.4
26867.0	57.5°	21911.2	14475.2	3606.1	1981.9	2028.0	1944.9	2143.4	2099.5	1845.7	1619.6
29035.7	60°	23431.6	15398.0	3661.5	1859.6	1891.9	1836.5	2048.8	1972.6	1725.8	1506.6
31167.5	62.5°	24855.1	16166.3	3571.5	1737.3	1758.1	1735.0	1924.2	1822.7	1605.8	1379.7
33389.3	65°	26283.2	16623.1	3294.6	1617.3	1621.9	1610.4	1748.8	1661.2	1465.1	1268.9
35334.3	67.5°	27577.6	16879.2	2854.0	1488.1	1476.6	1472.0	1585.0	1485.8	1328.9	1158.2
36813.2	70°	27852.1	16228.6	2180.3	1335.8	1335.8	1324.3	1405.1	1303.5	1179.0	1040.5
35754.2	72.5°	25438.8	13651.5	1548.1	1162.8	1181.3	1158.2	1225.1	1139.7	1026.7	934.4
30814.5	75°	20513.0	10010.8	1125.9	985.2	1017.5	978.2	1040.5	980.5	883.6	881.3
21235.2	77.5°	14094.5	6190.1	816.7	812.1	835.2	784.4	856.0	823.7	736.0	696.8
9242.5	80°	6014.8	2468.7	595.2	627.5	627.5	581.4	664.5	673.7	597.6	579.1
1783.4	82.5°	1197.4	701.4	417.6	431.4	406.1	392.2	470.7	521.4	719.8	800.6
537.6	85°	359.9	258.4	251.5	235.3	207.6	210.0	276.9	523.7	646.0	369.1
177.7	87.5°	99.2	64.6	66.9	53.1	43.8	57.7	94.6	396.8	216.9	92.3
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>
8755.7
8476.5
7735.9
6533.9
5216.5
4372.1
3823.0
3659.2
3594.6
3446.9
3278.5
3188.5
3142.4
3063.9
2824.0
2533.3
2221.8
2094.9
2009.5
1942.6
1905.7
1836.5
1718.8
1615.0
1499.7
1377.4
1255.1
1144.4
1035.9
906.7
793.7
652.9
579.1
802.9
318.4
78.4
0.0

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