

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: P944812

Luminaire Tested: **GALN-SB9D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944812
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-SB9D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66578 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

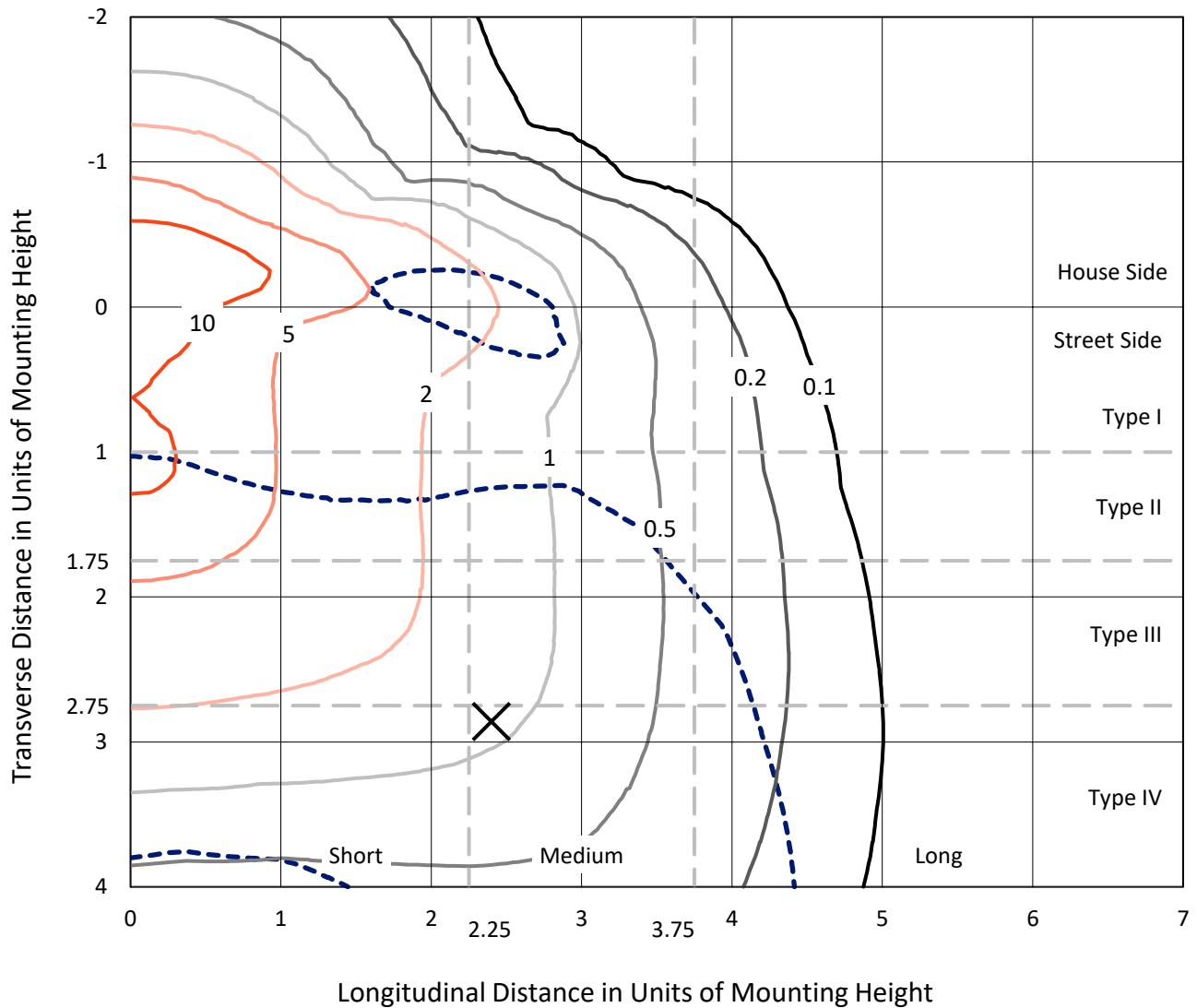
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

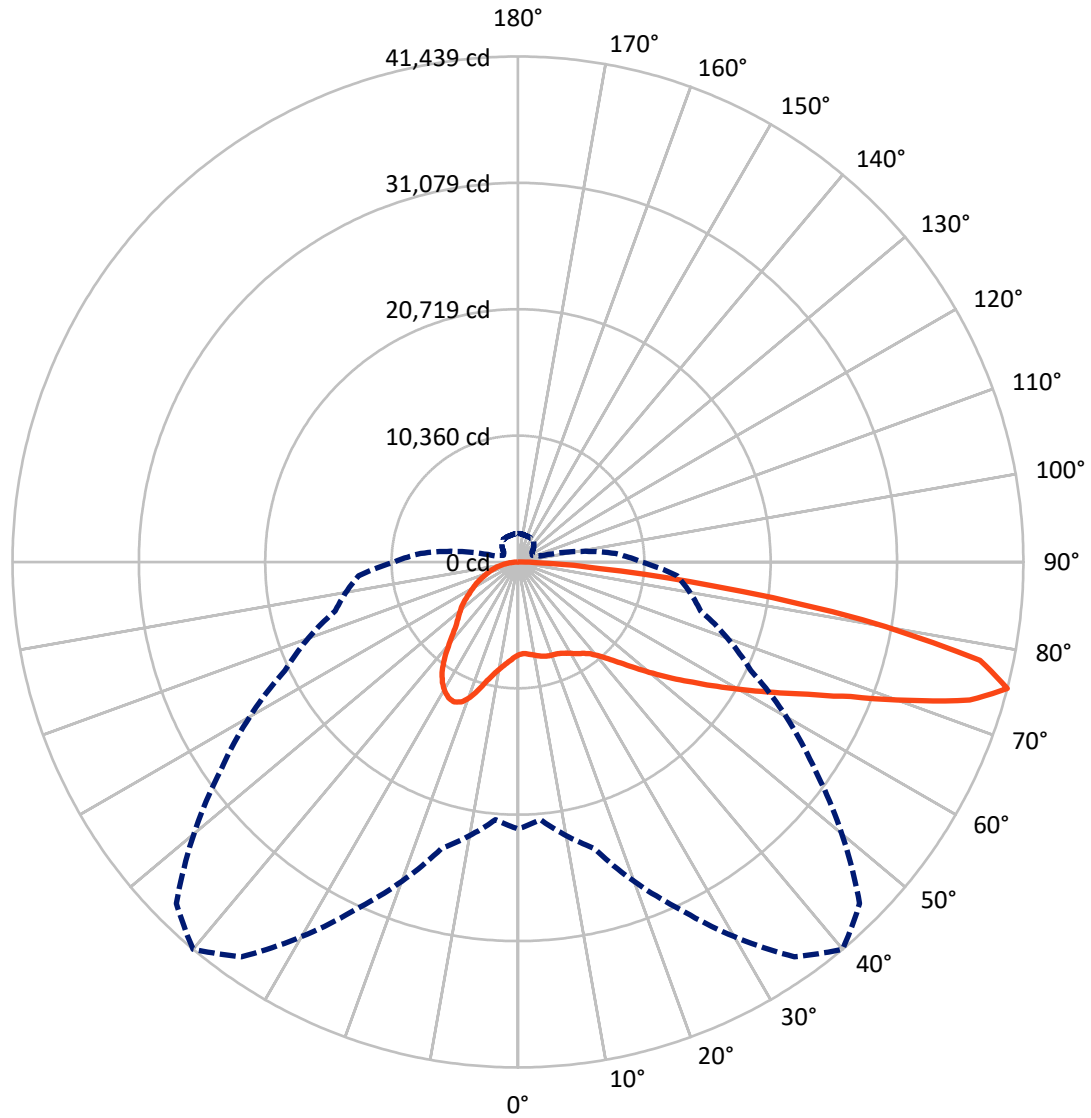
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	20628.1	0.0	20628.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	45949.9	0.0	45949.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	66578.0	0.0	66578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.0	1.1
10°-20°	2551.5	3.8
20°-30°	4658.8	7.0
30°-40°	6607.5	9.9
40°-50°	8922.1	13.4
50°-60°	12002.7	18.0
60°-70°	15234.1	22.9
70°-80°	13825.9	20.8
80°-90°	2015.4	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°	66578.0	100.0
0°-180°	66578.0	100.0

Coefficient of Utilization

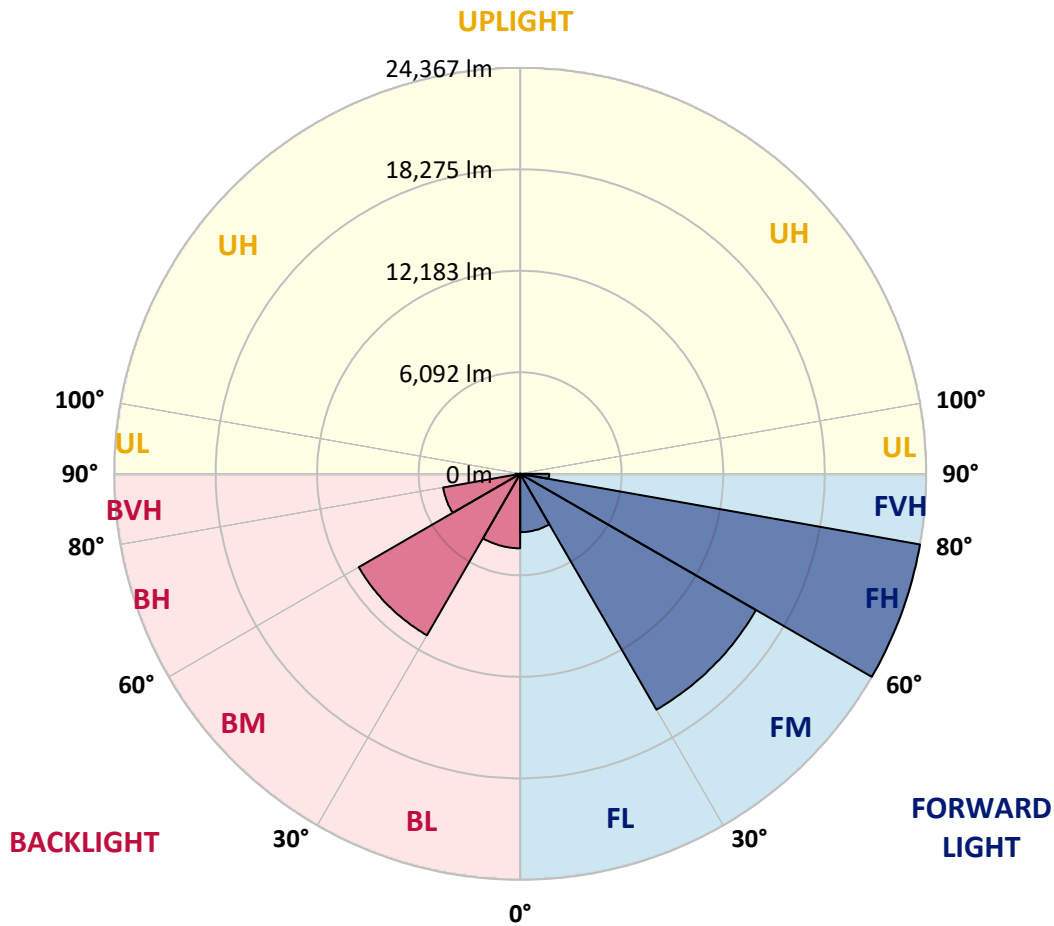


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3502.1	5.3			
FM (30°-60°)	16343.4	24.5			
FH (60°-80°)	24366.5	36.6			G5
FVH (80°-90°)	1737.9	2.6			G5
BL (0°-30°)	4468.2	6.7	B4/5000		
BM (30°-60°)	11188.9	16.8	B5		
BH (60°-80°)	4693.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	277.5	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3
2.5°	7496.8	7539.1	7528.5	7514.4	7514.4	7517.9	7514.4	7539.1	7563.8	7588.6
5°	7574.4	7616.8	7595.6	7578.0	7563.8	7560.3	7549.7	7546.2	7560.3	7592.1
7.5°	7726.3	7768.7	7736.9	7705.1	7676.8	7662.7	7648.6	7627.4	7616.8	7634.5
10°	7895.8	7938.2	7899.3	7842.8	7796.9	7779.2	7765.1	7743.9	7729.8	7740.4
12.5°	8065.3	8107.7	8054.7	7977.0	7917.0	7906.4	7888.7	7881.7	7878.1	7874.6
15°	8224.2	8259.5	8192.4	8100.6	8037.0	8019.4	8001.7	8012.3	8030.0	8051.2
17.5°	8347.8	8383.1	8284.2	8164.2	8104.1	8097.1	8086.5	8121.8	8171.2	8224.2
20°	8460.8	8496.1	8369.0	8206.5	8135.9	8135.9	8139.4	8213.6	8284.2	8361.9
22.5°	8619.7	8647.9	8492.6	8270.1	8167.7	8174.7	8203.0	8277.1	8365.4	8471.4
25°	8856.3	8877.5	8686.8	8390.1	8273.6	8294.8	8319.5	8354.8	8439.6	8563.2
27.5°	9237.6	9255.3	9004.6	8602.0	8425.5	8460.8	8496.1	8471.4	8510.2	8616.1
30°	9774.4	9785.0	9467.2	8934.0	8683.2	8700.9	8708.0	8605.6	8531.4	8616.1
32.5°	10410.0	10406.5	10028.6	9336.5	8976.3	8958.7	8898.6	8697.4	8524.3	8598.5
35°	11395.2	11356.4	10869.1	9901.5	9308.3	9198.8	9057.5	8799.8	8559.6	8580.8
37.5°	13026.6	12906.6	12232.1	10826.7	9802.6	9523.7	9315.3	8965.7	8637.3	8573.8
40°	14866.4	14714.5	13973.0	12094.4	10544.2	10095.7	9760.3	9202.3	8764.5	8605.6
42.5°	17048.7	16833.3	16035.2	13588.1	11483.5	10833.7	10328.8	9502.5	8951.6	8708.0
45°	19728.9	19442.8	18312.8	15272.5	12666.4	11801.3	11126.8	9958.0	9237.6	8905.7
47.5°	22437.3	22507.9	20901.2	17200.5	14086.0	12994.8	12126.2	10643.1	9654.3	9223.5
50°	25315.2	25364.7	23475.5	19336.9	15696.2	14343.8	13249.1	11409.3	10233.4	9675.5
52.5°	27561.1	27568.1	25813.1	21572.1	17373.5	15826.9	14460.3	12285.1	10904.4	10275.8
55°	28966.5	28948.8	27451.6	23687.3	19301.6	17384.1	15802.2	13280.9	11723.6	10982.1
57.5°	29987.0	29934.0	28581.6	25505.9	21356.7	19223.9	17320.6	14410.9	12691.2	11822.5
60°	30375.4	30343.7	29347.9	27077.3	23517.8	21257.9	19072.1	15675.0	13789.4	12814.8
62.5°	30523.8	30583.8	30100.0	28599.2	25830.8	23510.8	20996.6	17186.4	15025.3	13937.7
65°	31046.4	31155.8	31057.0	30590.8	28443.9	26148.6	23549.6	18983.8	16374.2	15141.8
67.5°	32081.0	32190.5	32232.9	32974.4	31636.1	29436.1	26734.8	21222.6	17952.7	16391.9
70°	32056.3	32024.5	32773.1	34870.7	35633.4	33987.9	31028.7	23976.9	19834.8	17430.0
72.5°	29178.4	28924.1	30693.3	34849.5	38959.8	38740.9	36272.6	27529.3	21459.1	17557.2
75°	21890.0	21212.0	24337.1	31406.6	39514.2	41438.7	39606.0	29732.8	21074.2	15512.6
77.5°	9361.2	8679.7	12362.8	23249.5	35365.0	38737.3	36548.0	25940.2	16822.7	10258.2
80°	2450.7	2447.1	3736.0	10540.7	24051.1	28606.3	25096.3	16752.0	9611.9	3665.4
82.5°	1013.5	988.7	1373.6	4099.7	11751.9	16052.9	13100.8	7472.0	3471.2	992.3
85°	377.8	374.3	667.4	1416.0	4145.6	6621.0	4791.8	1910.4	865.1	483.8
87.5°	105.9	102.4	144.8	490.8	1009.9	1532.5	819.2	314.3	243.7	190.7
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°
7613.3	0°	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3	7613.3
7627.4	2.5°	7638.0	7655.7	7687.4	7712.2	7743.9	7779.2	7828.7	7860.5	7892.2	7913.4
7645.1	5°	7669.8	7708.6	7789.8	7871.1	7966.4	8054.7	8157.1	8231.2	8291.3	8308.9
7708.6	7.5°	7740.4	7804.0	7941.7	8079.4	8231.2	8376.0	8524.3	8651.5	8753.9	8792.7
7821.6	10°	7864.0	7948.7	8143.0	8337.2	8538.5	8760.9	8951.6	9135.2	9280.0	9340.0
7955.8	12.5°	8019.4	8125.3	8379.6	8647.9	8926.9	9234.1	9481.3	9707.3	9887.4	9968.6
8143.0	15°	8220.7	8358.4	8683.2	9043.4	9453.0	9880.3	10194.6	10445.3	10646.6	10745.5
8337.2	17.5°	8439.6	8623.2	9032.8	9576.6	10162.8	10724.3	11091.5	11275.1	11483.5	11578.8
8517.3	20°	8651.5	8877.5	9463.6	10254.6	11035.0	11631.8	11928.4	11977.9	11992.0	12002.6
8686.8	22.5°	8870.4	9174.1	10003.9	11109.2	11946.1	12359.2	12401.6	12189.7	11893.1	11755.4
8852.7	25°	9110.5	9513.1	10710.2	12052.0	12730.0	12779.4	12454.6	11939.0	11377.6	11119.8
8986.9	27.5°	9343.6	9905.0	11557.6	12952.5	13295.0	12860.7	12161.5	11430.5	10752.5	10480.6
9082.3	30°	9576.6	10353.5	12493.4	13739.9	13552.8	12659.4	11698.9	10883.2	10201.7	9915.6
9167.0	32.5°	9813.2	10876.1	13570.4	14308.5	13506.9	12232.1	11123.3	10268.8	9668.4	9368.3
9241.2	35°	10081.6	11518.8	14590.9	14619.2	13199.7	11603.5	10364.1	9534.3	9011.6	8771.5
9329.4	37.5°	10431.2	12334.5	15491.4	14696.9	12662.9	10681.9	9421.3	8665.6	8234.8	8125.3
9460.1	40°	10865.5	13316.2	16180.0	14573.3	11868.4	9562.5	8390.1	7786.3	7542.7	7567.4
9636.7	42.5°	11430.5	14414.4	16663.8	14255.5	10763.1	8407.8	7486.2	7217.8	7334.3	7433.2
9901.5	45°	12165.0	15555.0	16963.9	13715.2	9513.1	7429.7	6952.9	7016.5	7104.8	7115.4
10328.8	47.5°	13104.3	16709.7	17161.7	12899.5	8238.3	6741.1	6614.0	6628.1	6610.4	6536.3
10967.9	50°	14276.7	17832.6	17338.2	11819.0	7154.2	6310.3	6140.8	6091.3	5847.7	5607.6
11819.0	52.5°	15611.5	18863.7	17412.4	10477.1	6310.3	5950.1	5674.7	5363.9	4908.4	4834.2
12888.9	55°	17094.6	19817.1	17221.7	8828.0	5600.5	5487.5	5070.8	4696.5	4647.1	4583.5
14297.9	57.5°	18867.2	20844.7	16833.3	6988.3	4873.1	4947.2	4541.1	4583.5	4495.2	4396.4
16109.4	60°	20805.9	21907.6	16151.7	5310.9	4120.9	4272.8	4403.4	4399.9	4375.2	4293.9
18019.8	62.5°	22550.3	22606.8	14809.9	4068.0	3460.6	3750.1	4106.8	4103.3	4082.1	4036.2
20014.9	65°	23588.5	22500.9	12571.1	3202.8	2916.8	3319.3	3704.2	3732.5	3736.0	3732.5
21515.6	67.5°	23404.8	21261.4	9498.9	2549.5	2468.3	2881.5	3305.2	3344.1	3372.3	3379.4
21706.3	70°	21328.5	18538.8	6193.7	2034.0	2069.3	2496.6	2927.4	2966.2	2990.9	3019.2
18835.5	72.5°	16624.9	13630.5	3545.3	1645.5	1719.7	2164.6	2553.1	2599.0	2613.1	2666.1
13107.8	75°	10131.0	8015.8	1913.9	1296.0	1412.5	1850.4	2182.3	2235.3	2260.0	2323.5
6437.4	77.5°	4816.6	3471.2	1091.1	1009.9	1137.0	1511.4	1843.3	1903.3	1836.2	1871.5
1776.2	80°	1627.9	1288.9	688.6	769.8	868.7	1179.4	1476.0	1536.1	1394.8	1387.8
589.7	82.5°	568.5	522.6	437.9	512.0	561.5	844.0	1115.9	1193.5	1038.2	1034.6
264.8	85°	222.5	211.9	243.7	279.0	335.5	519.1	734.5	773.3	639.1	515.6
77.7	87.5°	45.9	49.4	60.0	63.6	102.4	180.1	264.8	324.9	257.8	218.9
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>
7613.3
7899.3
8316.0
8796.2
9343.6
9968.6
10738.4
11575.3
12030.8
11794.2
11158.6
10512.4
9947.4
9407.1
8824.5
8203.0
7652.1
7525.0
7186.0
6592.8
5639.3
4858.9
4594.1
4378.7
4265.7
4018.5
3732.5
3386.4
3033.3
2687.2
2330.6
1843.3
1373.6
985.2
508.5
201.3
0.0

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