

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: P957612

Luminaire Tested: **GALN-SB9D-930-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-930-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65674 lumens
Efficiency: N/A
Efficacy: 99.8 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

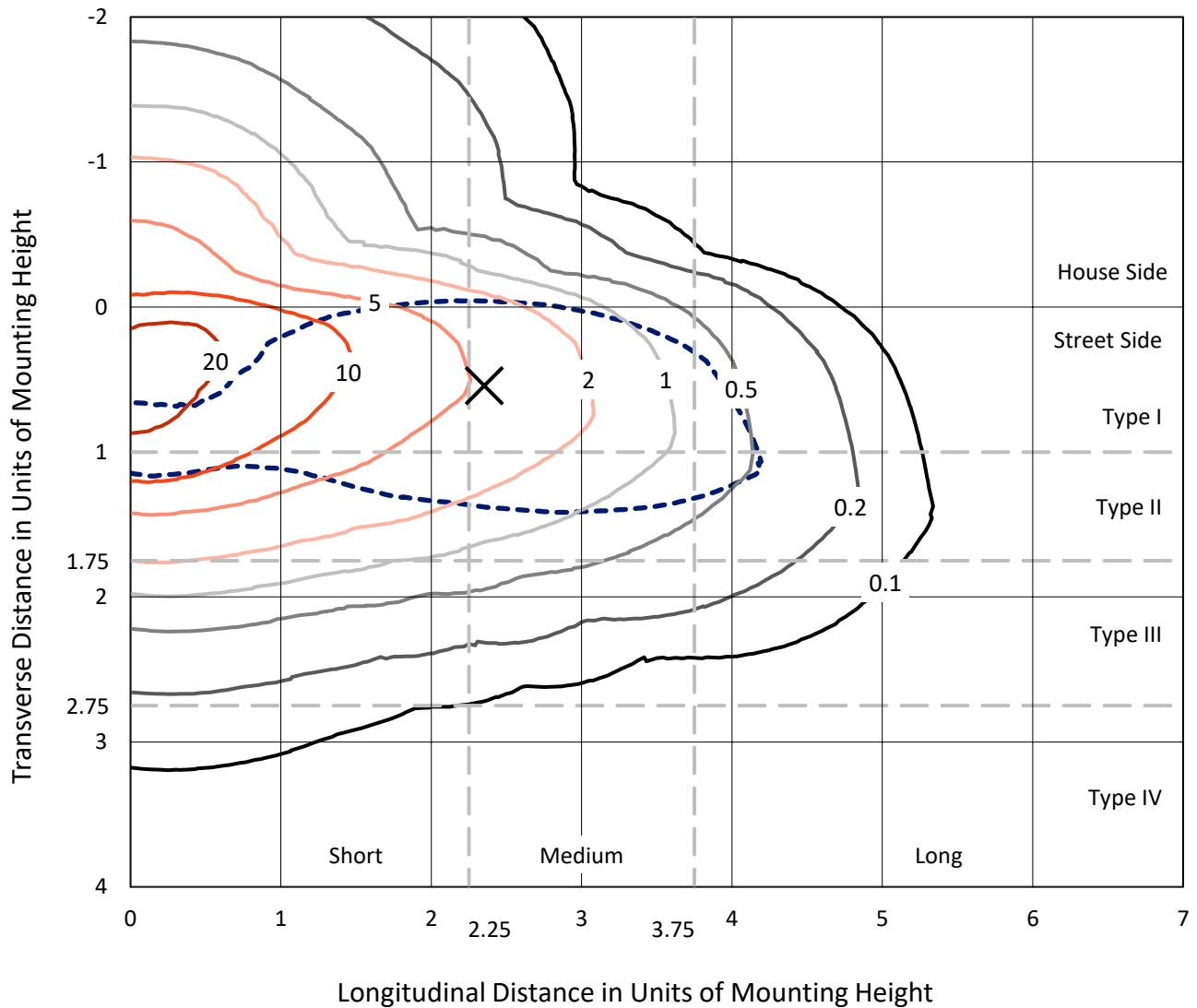
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

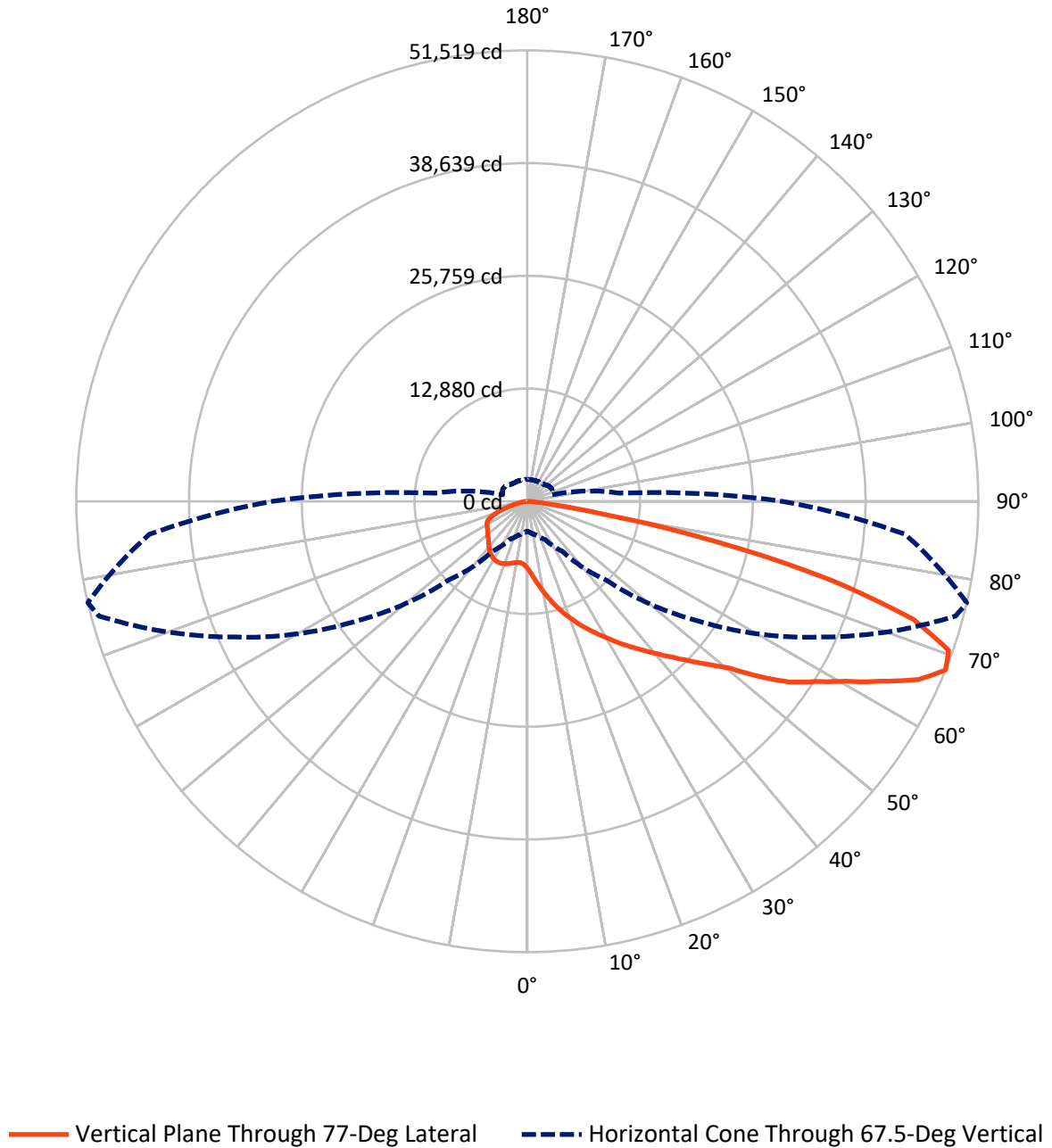
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12422.9	0.0	12422.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	53251.1	0.0	53251.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	65674.0	0.0	65674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.9	1.3
10°-20°	2967.3	4.5
20°-30°	5602.5	8.5
30°-40°	9025.5	13.7
40°-50°	12345.2	18.8
50°-60°	13925.5	21.2
60°-70°	12997.7	19.8
70°-80°	7124.9	10.8
80°-90°	859.4	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°	65674.0	100.0
0°-180°	65674.0	100.0

Coefficient of Utilization



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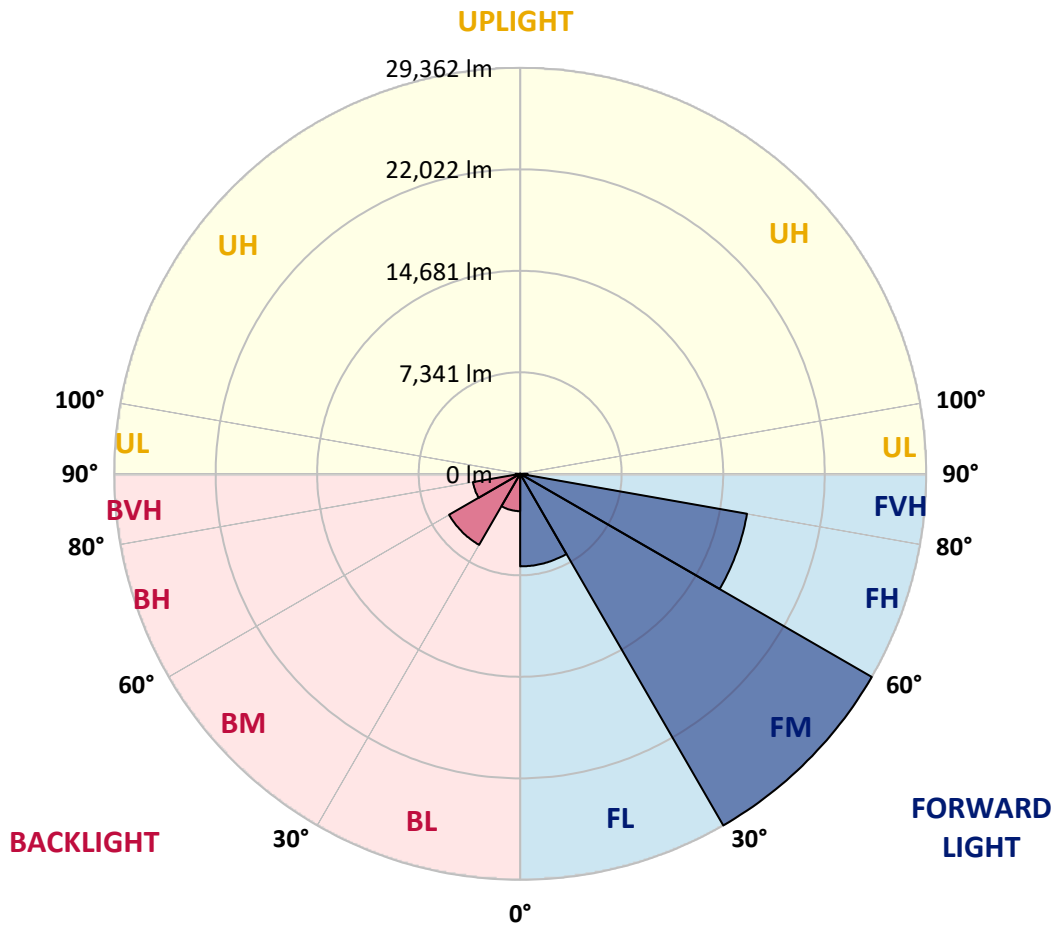
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6694.6	10.2			
FM (30°-60°)	29362.1	44.7			
FH (60°-80°)	16656.9	25.4			G5
FVH (80°-90°)	537.5	0.8			G4/750
BL (0°-30°)	2701.0	4.1	B4/5000		
BM (30°-60°)	5934.1	9.0	B4/8500		
BH (60°-80°)	3465.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	322.0	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°	77°
0°	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6
2.5°	9648.1	9715.9	9631.2	9631.2	9346.4	9197.2	8912.5	8695.5	8305.6	8237.8
5°	11404.2	11488.9	11370.3	11319.4	10983.8	10675.3	10197.3	9726.1	9031.1	8959.9
7.5°	12763.6	12872.0	12767.0	12712.7	12414.4	12068.6	11509.2	10851.6	9871.8	9732.9
10°	13872.1	13889.1	13855.2	13875.5	13641.6	13356.8	12783.9	12017.8	10793.9	10604.1
12.5°	14499.3	14577.2	14645.0	14767.1	14726.4	14550.1	14034.8	13119.5	11770.3	11526.2
15°	14794.2	14929.8	15082.4	15363.7	15590.9	15634.9	15241.7	14302.7	12763.6	12468.6
17.5°	14899.3	15028.1	15268.8	15675.6	16163.8	16492.6	16316.3	15451.9	13746.7	13407.7
20°	15431.5	15468.8	15614.6	16001.1	16529.9	17075.7	17207.9	16557.0	14719.6	14336.6
22.5°	16570.6	16496.0	16536.7	16713.0	17092.7	17621.5	17923.2	17533.4	15719.7	15279.0
25°	18452.1	18235.1	18018.2	17814.8	18008.0	18306.3	18648.7	18509.7	16767.2	16207.9
27.5°	20828.5	20564.1	20086.1	19418.2	19184.3	19289.4	19442.0	19414.9	17736.8	17170.6
30°	23167.7	22859.2	22289.6	21323.5	20706.5	20428.5	20313.2	20235.3	18791.1	18187.7
32.5°	25035.6	24791.5	24232.1	23150.7	22255.7	21781.1	21398.0	21120.1	19892.9	19289.4
35°	26669.6	26442.4	25801.7	24622.0	23649.0	23143.9	22642.2	22048.9	21038.7	20428.5
37.5°	28161.2	27934.1	27056.0	25828.8	24849.1	24499.9	24052.5	23045.6	22187.9	21611.6
40°	29103.6	29052.8	28232.4	26842.5	25825.5	25652.6	25503.4	24201.6	23462.6	22927.0
42.5°	29344.3	29456.2	28805.3	27662.9	26693.3	26554.3	26903.5	25510.2	24893.2	24381.3
45°	28764.6	29086.7	28659.5	27883.2	27310.3	27235.7	28144.3	26940.8	26476.3	26008.5
47.5°	27296.7	27842.5	27666.3	27557.8	27476.4	27798.5	29235.9	28459.5	28269.7	27862.9
50°	24333.8	25367.8	25676.3	26361.1	27147.6	28235.8	30229.1	30117.3	30364.7	29954.5
52.5°	19211.5	20635.3	22425.2	24140.6	26137.3	28090.0	31320.7	32497.1	33541.2	33317.5
55°	15858.7	16499.4	17875.8	21021.7	24177.9	27476.4	31812.3	34419.3	36694.0	36494.0
57.5°	13282.2	13855.2	14702.7	17330.0	21215.0	26083.1	32117.4	35592.2	38853.4	38833.1
60°	10519.3	11126.2	11994.0	13855.2	17753.7	23676.2	32049.6	36927.9	41609.6	41779.1
62.5°	7400.5	8068.3	9031.1	10766.8	14217.9	20557.3	30666.5	37894.1	44853.8	45314.9
65°	4864.7	5305.4	6030.9	7529.3	10593.9	16546.9	28025.6	38019.5	48325.3	49105.0
67.5°	3410.4	3579.9	4007.0	4820.7	6983.5	12689.0	23818.5	36721.1	50640.7	51518.7
70°	2661.2	2745.9	2962.9	3288.4	4386.7	8532.8	18252.1	33344.6	50145.7	51061.0
72.5°	2298.5	2379.8	2461.2	2501.9	2942.6	5268.1	12363.5	27879.8	45484.4	46104.8
75°	2084.9	2105.2	2173.0	2159.5	2244.2	3417.2	7136.1	20313.2	35887.1	35673.6
77.5°	1752.7	1779.8	1891.7	1874.7	1993.4	2335.7	3705.3	13109.4	23266.0	21815.0
80°	1484.8	1498.4	1620.4	1600.1	1732.3	1691.6	1891.7	6681.8	9868.5	8359.9
82.5°	515.3	637.3	1237.4	1274.7	1322.1	1023.8	1091.6	2725.6	3013.8	2308.6
85°	250.9	267.8	630.6	895.0	891.6	515.3	532.2	972.9	949.2	745.8
87.5°	40.7	50.9	74.6	349.2	278.0	135.6	183.1	189.8	196.6	169.5
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°
7705.6	0°	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6	7705.6
7980.2	2.5°	7790.4	7620.8	7264.9	6936.1	6678.4	6430.9	6291.9	6173.3	6105.5	6091.9
8353.1	5°	8000.5	7651.4	7003.9	6458.1	6102.1	5837.7	5698.7	5610.5	5566.5	5539.4
8854.8	7.5°	8302.3	7790.4	6868.3	6247.9	5875.0	5685.1	5613.9	5600.4	5597.0	5600.4
9461.7	10°	8719.2	8017.5	6854.7	6197.0	5885.1	5780.0	5776.7	5780.0	5793.6	5797.0
10122.7	12.5°	9170.1	8251.4	6908.9	6241.1	6014.0	5956.3	5946.2	5942.8	5952.9	5959.7
10790.6	15°	9661.7	8559.9	7000.5	6336.0	6156.3	6095.3	6085.2	6064.8	6061.4	6058.0
11492.3	17.5°	10166.8	8865.0	7102.2	6437.7	6247.9	6163.1	6125.8	6078.4	6041.1	6030.9
12217.8	20°	10678.7	9166.7	7173.4	6488.6	6254.7	6136.0	6061.4	5980.1	5915.7	5878.4
12950.0	22.5°	11224.5	9482.0	7217.4	6475.0	6193.6	6030.9	5895.3	5800.4	5702.1	5637.7
13689.1	25°	11756.7	9756.6	7214.0	6403.8	6075.0	5868.2	5695.3	5573.3	5437.7	5369.9
14451.8	27.5°	12268.6	10004.1	7129.3	6278.4	5905.5	5675.0	5468.2	5322.4	5190.2	5125.8
15221.4	30°	12797.5	10210.9	6997.1	6095.3	5705.5	5451.2	5224.1	5098.6	4980.0	4919.0
16035.0	32.5°	13322.9	10400.7	6810.6	5868.2	5474.9	5230.9	5007.1	4891.9	4820.7	4820.7
16909.6	35°	13878.9	10532.9	6563.2	5603.8	5230.9	4996.9	4820.7	4752.9	4746.1	4705.4
17835.1	37.5°	14465.4	10617.7	6261.4	5332.6	4990.2	4769.8	4715.6	4634.2	4566.4	4478.3
18852.1	40°	15082.4	10702.4	5898.7	5051.2	4735.9	4613.9	4590.1	4481.7	4288.4	4071.5
20004.7	42.5°	15831.6	10760.0	5522.4	4769.8	4468.1	4427.4	4461.3	4274.9	3966.4	3803.6
21394.7	45°	16699.4	10855.0	5176.6	4491.8	4193.5	4193.5	4335.9	4091.8	3837.5	3735.8
22981.2	47.5°	17824.9	11075.3	4854.6	4186.7	3939.2	4007.0	4057.9	3871.4	3729.1	3603.6
24913.5	50°	19452.1	11604.2	4522.3	3878.2	3746.0	3881.6	3810.4	3701.9	3535.8	3434.1
27984.9	52.5°	21472.6	11916.1	4227.4	3600.2	3579.9	3715.5	3613.8	3512.1	3386.7	3251.1
30313.9	55°	22849.0	11973.7	3979.9	3396.8	3468.0	3454.5	3417.2	3325.6	3257.8	3078.2
32612.4	57.5°	24388.1	12088.9	3776.5	3274.8	3396.8	3247.7	3234.1	3156.1	3068.0	2946.0
35415.9	60°	26228.9	12268.6	3600.2	3227.3	3335.8	3112.1	3044.3	3013.8	2925.6	2864.6
38789.0	62.5°	28235.8	12431.3	3420.6	3234.1	3264.6	2979.9	2878.2	2868.0	2813.7	2793.4
41955.4	65°	29605.4	11987.2	3196.8	3227.3	3152.8	2844.3	2715.4	2712.0	2668.0	2661.2
43328.3	67.5°	29127.4	10580.4	2895.1	3132.4	3037.5	2708.7	2566.3	2552.7	2495.1	2498.5
41894.3	70°	26734.0	8573.5	2478.1	2898.5	2895.1	2586.6	2410.3	2366.3	2288.3	2301.8
36426.2	72.5°	22245.6	6353.0	1918.8	2508.6	2668.0	2474.7	2230.7	2159.5	2061.2	2074.7
26889.9	75°	16065.5	4318.9	1396.7	1908.6	2322.2	2342.5	2054.4	1932.3	1813.7	1834.0
14967.1	77.5°	8220.9	2447.6	1027.2	1315.3	1823.9	2129.0	1895.0	1732.3	1705.2	1895.0
4315.5	80°	2681.5	1227.2	711.9	922.1	1196.7	1742.5	1661.1	1474.7	1467.9	1512.0
905.1	82.5°	800.1	518.7	457.7	606.8	661.1	1335.7	1434.0	1115.3	959.4	1010.2
301.7	85°	274.6	250.9	261.0	301.7	315.3	783.1	1003.5	739.0	698.4	769.5
67.8	87.5°	64.4	88.1	74.6	67.8	67.8	189.8	389.9	308.5	427.1	284.8
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>
7705.6
6091.9
5536.0
5610.5
5800.4
5963.1
6054.6
6041.1
5891.9
5641.1
5369.9
5122.4
4915.6
4824.1
4695.2
4464.7
4040.9
3807.0
3752.8
3600.2
3424.0
3223.9
3081.6
2905.3
2881.5
2793.4
2657.8
2498.5
2315.4
2071.3
1840.8
1867.9
1298.4
1044.1
759.4
274.6
0.0

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