

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: P944697

Luminaire Tested: **GALN-SB9D-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-735-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

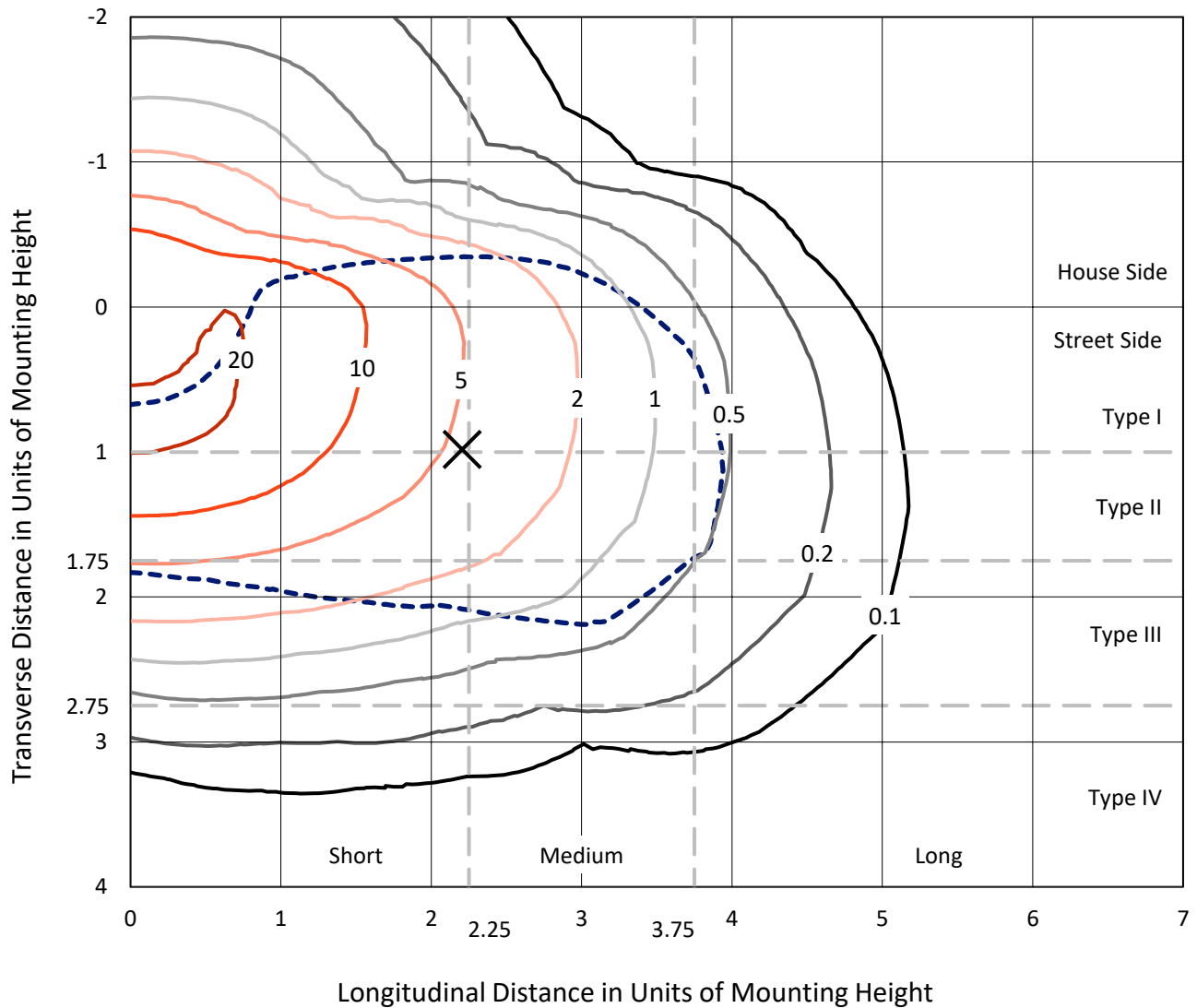
Lumens per Lamp: N/A  
Luminaire Lumens: 92750 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

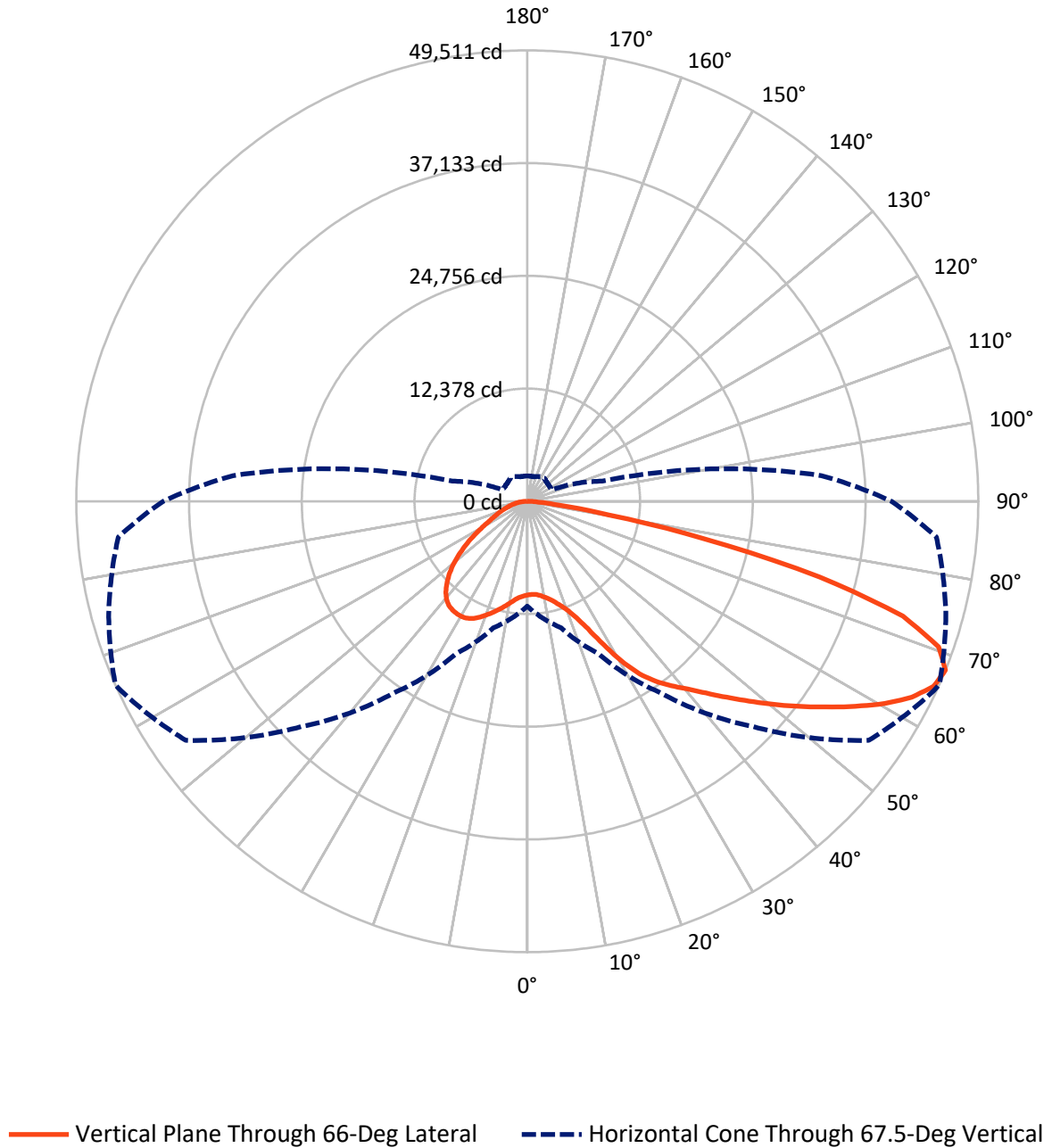
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23062.0	0.0	23062.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	69688.0	0.0	69688.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	92750.0	0.0	92750.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1019.9	1.1
10°-20°	3369.7	3.6
20°-30°	6495.0	7.0
30°-40°	11388.1	12.3
40°-50°	16930.3	18.3
50°-60°	21460.9	23.1
60°-70°	20998.9	22.6
70°-80°	10016.7	10.8
80°-90°	1070.5	1.2
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°	92750.0	100.0
0°-180°	92750.0	100.0

**Coefficient of Utilization**



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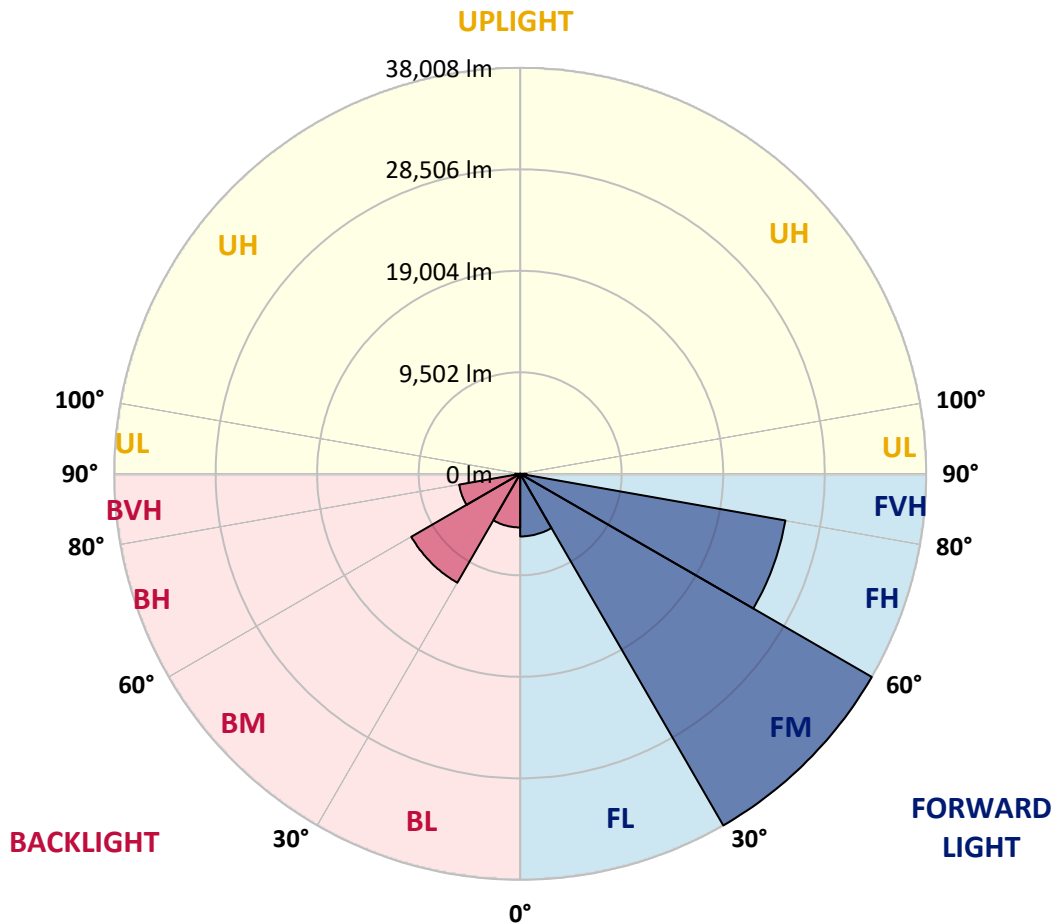
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5860.9	6.3			
FM (30°-60°)	38008.2	41.0			
FH (60°-80°)	25212.0	27.2			G5
FVH (80°-90°)	606.9	0.7			G4/750
BL (0°-30°)	5023.7	5.4	B5		
BM (30°-60°)	11771.1	12.7	B5		
BH (60°-80°)	5803.6	6.3	B5		G5
BVH (80°-90°)	463.6	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2
2.5°	10180.0	10238.5	10223.8	10199.5	10194.6	10204.4	10219.0	10233.6	10228.7	10253.1
5°	10150.8	10209.2	10204.4	10204.4	10223.8	10262.8	10287.2	10311.6	10287.2	10316.4
7.5°	10170.2	10214.1	10233.6	10253.1	10301.8	10374.9	10433.4	10487.0	10457.8	10491.9
10°	10418.8	10452.9	10472.4	10472.4	10506.5	10589.3	10647.8	10745.3	10720.9	10774.5
12.5°	10872.0	10906.1	10906.1	10886.6	10911.0	10964.6	10984.1	11091.3	11047.4	11135.1
15°	11427.5	11495.7	11442.1	11408.0	11417.8	11471.4	11466.5	11549.3	11505.5	11578.6
17.5°	12041.5	12129.2	12041.5	12036.7	12017.2	12075.6	12080.5	12153.6	12075.6	12129.2
20°	12767.6	12889.5	12816.4	12840.7	12796.9	12821.2	12845.6	12952.8	12831.0	12870.0
22.5°	13791.0	13937.2	13859.2	13951.8	13922.6	13903.1	13898.2	14088.3	13898.2	13912.8
25°	15282.2	15457.6	15321.2	15447.9	15447.9	15511.2	15584.3	15828.0	15511.2	15418.6
27.5°	17484.8	17660.3	17392.2	17470.2	17445.8	17601.8	17523.8	18128.1	17787.0	17635.9
30°	20135.8	20447.7	19940.9	19921.4	19897.0	20145.6	20257.6	20657.2	20311.3	20160.2
32.5°	23001.2	23327.7	22723.5	22548.0	22455.4	22606.5	22513.9	22835.5	22596.8	22362.8
35°	26032.3	26353.9	25778.9	25437.8	25067.4	24750.7	24419.3	24502.2	24278.0	23922.2
37.5°	28897.7	29487.4	28878.2	28512.7	27830.5	27211.6	26285.7	25900.7	25691.2	25364.7
40°	31816.7	32153.0	31690.0	31378.2	30637.4	29667.7	28186.2	27372.4	27089.8	26773.0
42.5°	33965.8	34287.4	34038.9	33824.5	33244.6	32118.9	30203.7	29185.2	28775.9	28420.2
45°	35671.4	35910.2	35754.2	35832.2	35583.7	34492.1	32294.3	31129.6	30705.7	30272.0
47.5°	36358.5	36611.9	36860.4	37323.4	37747.4	36943.3	34540.8	33234.8	32786.5	32343.0
50°	36280.5	36538.8	37260.0	38244.4	39560.2	39292.1	36909.2	35476.5	35062.2	34555.4
52.5°	35656.8	35949.2	36875.1	38512.4	40607.9	41051.3	39321.4	37791.2	37401.4	36797.1
55°	34019.4	34194.8	35583.7	37903.3	40856.4	42279.4	41684.8	40257.0	39867.2	39024.1
57.5°	30983.4	31236.8	33259.2	36261.0	40232.7	43112.7	43760.8	42849.5	42474.3	41260.9
60°	27021.6	27426.0	29740.8	33502.8	38644.0	43107.8	45646.7	45398.2	45086.3	43463.5
62.5°	22538.3	23006.1	25233.1	29604.3	35866.3	41884.6	46826.0	47532.6	47371.8	45495.6
65°	17309.4	17631.0	19848.3	24560.6	31543.8	39258.0	46962.5	48989.7	49018.9	47040.4
67.5°	11525.0	12450.9	14375.8	18430.2	25754.6	34964.8	45763.7	49228.5	49511.1	47571.6
70°	5623.6	6841.9	8727.8	11978.2	18430.2	28381.2	42630.2	47269.5	47898.1	46021.9
72.5°	2334.2	2729.0	3757.2	5911.1	10579.6	19151.4	36334.1	41957.7	43122.4	40778.4
75°	1574.0	1705.6	2149.1	3031.1	4819.5	9444.1	26202.9	31285.6	33161.7	30798.3
77.5°	1213.4	1296.3	1564.3	2119.8	2865.4	3572.0	14024.9	18854.2	19823.9	18352.2
80°	955.1	1018.5	1169.6	1544.8	2032.1	1910.3	4780.6	8542.6	9103.0	7636.2
82.5°	828.4	852.8	838.2	1047.7	1349.9	1115.9	1569.2	3152.9	3479.4	2524.3
85°	599.4	667.6	696.9	648.1	716.4	565.3	643.3	1115.9	1228.0	1096.5
87.5°	243.7	360.6	443.5	419.1	263.1	160.8	199.8	326.5	375.2	409.3
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°
10287.2	0°	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2	10287.2
10292.1	2.5°	10296.9	10331.1	10355.4	10384.7	10404.2	10433.4	10491.9	10526.0	10530.9	10555.2
10370.0	5°	10389.5	10438.3	10491.9	10569.8	10657.6	10730.7	10842.7	10920.7	10949.9	10974.3
10560.1	7.5°	10589.3	10657.6	10755.0	10891.5	11018.2	11115.6	11252.1	11344.7	11437.3	11471.4
10862.2	10°	10886.6	10984.1	11125.4	11310.6	11447.0	11573.7	11715.0	11793.0	11885.6	11924.6
11222.8	12.5°	11257.0	11359.3	11544.5	11802.7	11929.4	12017.2	12065.9	12046.4	12065.9	12100.0
11656.6	15°	11680.9	11793.0	12002.5	12280.3	12368.0	12290.1	12182.9	12085.4	12070.8	12080.5
12182.9	17.5°	12182.9	12265.7	12509.4	12743.3	12679.9	12358.3	12124.4	11968.4	11890.5	11866.1
12855.3	20°	12884.6	12884.6	13084.4	13230.6	12806.6	12260.8	11895.3	11641.9	11481.1	11412.9
13771.5	22.5°	13737.4	13659.4	13786.1	13683.8	12782.2	11987.9	11481.1	11042.5	10798.9	10701.4
15053.1	25°	14819.2	14726.6	14692.5	14059.0	12606.8	11554.2	10730.7	10199.5	9985.1	9931.5
16900.1	27.5°	16451.7	16217.8	15774.4	14263.7	12285.2	10872.0	9853.5	9361.3	9239.5	9244.3
19273.3	30°	18625.1	18157.3	17070.6	14297.8	11758.9	9907.1	8956.8	8606.0	8547.5	8571.9
21266.4	32.5°	20637.8	20194.3	18396.1	14141.9	10949.9	8961.7	8152.8	7918.9	7831.1	7860.4
22786.8	35°	22216.6	22094.8	19624.1	13922.6	9955.8	8074.8	7431.5	7231.7	7061.2	7022.2
24219.5	37.5°	23707.8	23659.1	20545.2	13615.6	8971.5	7446.2	6851.6	6588.5	6340.0	6203.5
25803.3	40°	25345.2	25296.5	21149.4	13142.9	8099.2	6900.4	6330.2	5984.2	5677.2	5428.7
27596.6	42.5°	27187.3	26899.7	21436.9	12465.5	7358.4	6437.4	5906.2	5438.4	5034.0	4804.9
29623.8	45°	29199.9	28551.7	21432.1	11602.9	6734.7	6013.5	5453.0	4790.3	4415.1	4200.6
31704.7	47.5°	31334.3	30130.6	21168.9	10647.8	6130.4	5545.6	4751.3	4244.5	3996.0	3864.4
33965.8	50°	33537.0	31607.2	20720.6	9551.4	5511.5	5014.5	4312.7	3966.7	3776.7	3654.9
36207.4	52.5°	35608.0	32947.3	20179.7	8308.7	4882.9	4497.9	4117.8	3849.8	3650.0	3513.5
38380.9	55°	37532.9	34102.2	19414.6	7036.8	4371.2	4151.9	4025.2	3801.1	3572.0	3411.2
40588.4	57.5°	39243.4	34852.7	18094.0	5842.9	4005.7	3913.1	3927.8	3718.2	3455.1	3318.6
42761.8	60°	40666.4	35403.4	16139.8	4736.7	3708.5	3679.2	3776.7	3562.3	3255.3	3099.3
44599.0	62.5°	41519.2	35393.6	13742.3	3879.0	3455.1	3464.8	3576.9	3367.3	3055.5	2909.3
45559.0	65°	41446.1	34526.2	11110.8	3318.6	3211.4	3221.1	3367.3	3152.9	2889.8	2802.1
45076.6	67.5°	39979.2	32411.3	8523.1	2953.1	2943.4	2987.2	3157.8	3006.7	2787.4	2777.7
42201.4	70°	36007.6	28020.6	6140.2	2660.7	2665.6	2729.0	2953.1	2914.1	2733.8	2753.3
35481.3	72.5°	28873.4	21363.9	4122.7	2353.7	2358.6	2460.9	2758.2	2841.0	2680.2	2938.5
25174.6	75°	19229.4	13323.2	2651.0	2027.2	2032.1	2163.7	2587.6	2699.7	2534.0	2928.8
13099.0	77.5°	9239.5	5989.1	1920.0	1705.6	1705.6	1827.4	2236.8	2417.1	2158.8	2275.8
4210.4	80°	3191.9	2251.4	1510.7	1374.2	1345.0	1427.8	1885.9	2095.5	1861.5	1715.3
1374.2	82.5°	1257.3	1169.6	1213.4	1067.2	969.8	1023.4	1466.8	1730.0	1369.4	1237.8
774.8	85°	721.2	760.2	857.7	706.6	560.4	628.6	1077.0	1242.7	1033.1	911.3
253.4	87.5°	194.9	268.0	394.7	365.5	253.4	268.0	511.7	687.1	594.5	458.1
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>
10287.2
10550.4
10969.4
11476.2
11944.1
12109.8
12114.6
11900.2
11398.3
10686.8
9941.2
9259.0
8654.7
7899.4
7051.4
6208.4
5453.0
4819.5
4190.9
3835.2
3611.0
3455.1
3347.8
3230.9
3031.1
2865.4
2797.2
2792.3
2748.5
2977.5
2953.1
2085.7
1608.1
1232.9
930.8
472.7
0.0

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