

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: P942847

Luminaire Tested: **GALN-SB7A-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942847
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-SB7A-750-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33773 lumens
Efficiency: N/A
Efficacy: 169.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

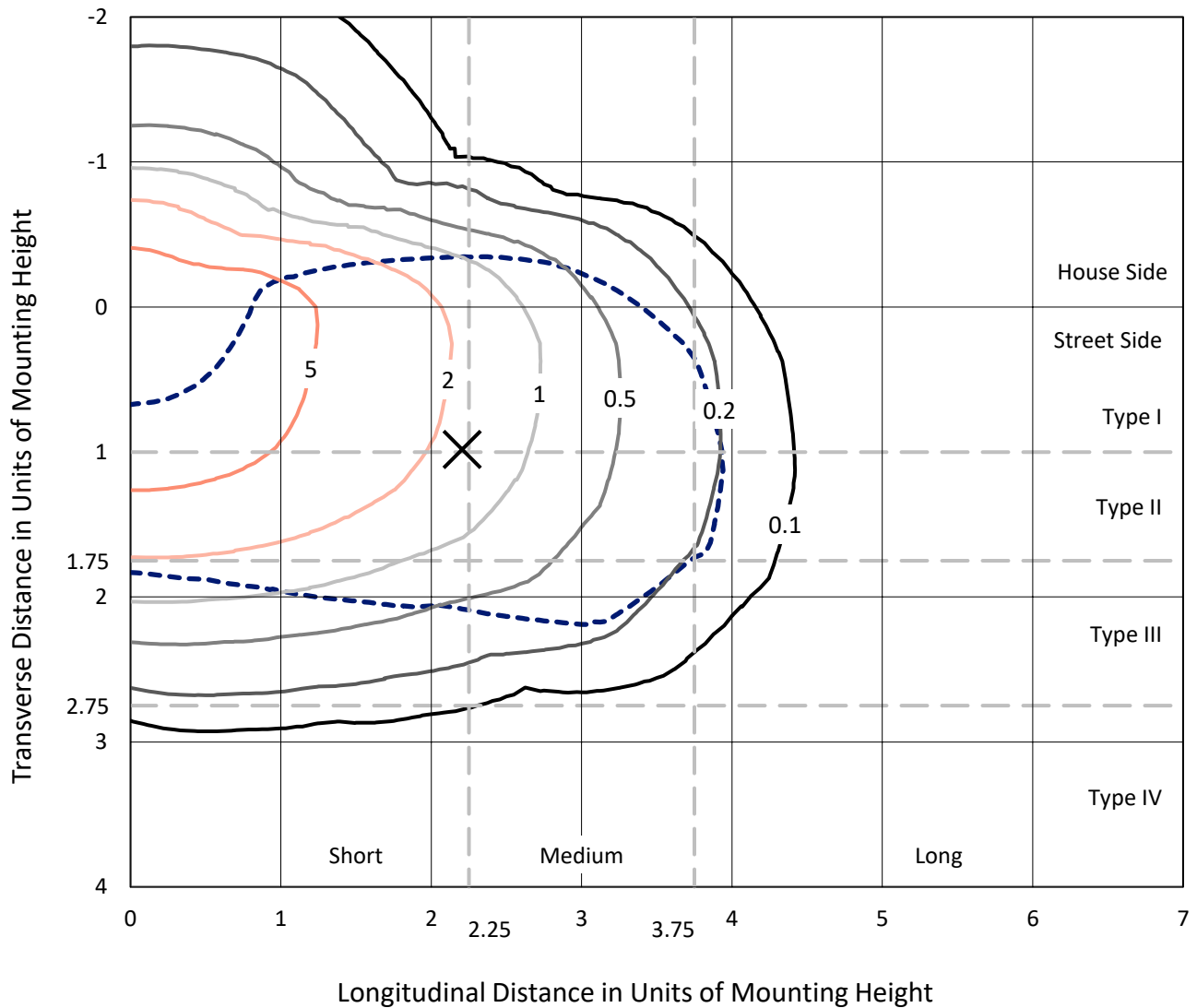
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

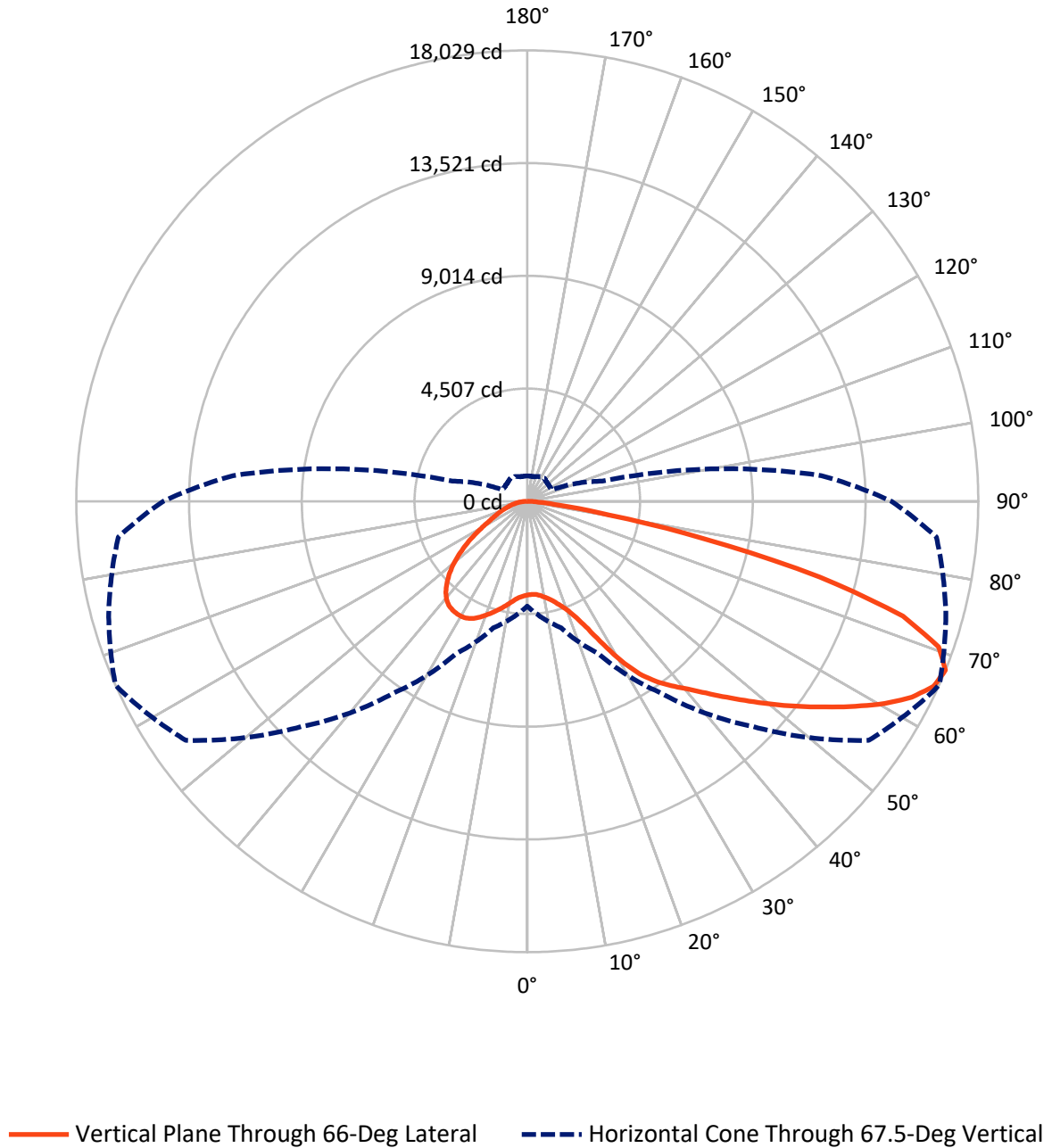
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8397.6	0.0	8397.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	25375.4	0.0	25375.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	33773.0	0.0	33773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	1.1
10°-20°	1227.0	3.6
20°-30°	2365.0	7.0
30°-40°	4146.7	12.3
40°-50°	6164.8	18.3
50°-60°	7814.5	23.1
60°-70°	7646.3	22.6
70°-80°	3647.4	10.8
80°-90°	389.8	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°	33773.0	100.0
0°-180°	33773.0	100.0

Coefficient of Utilization



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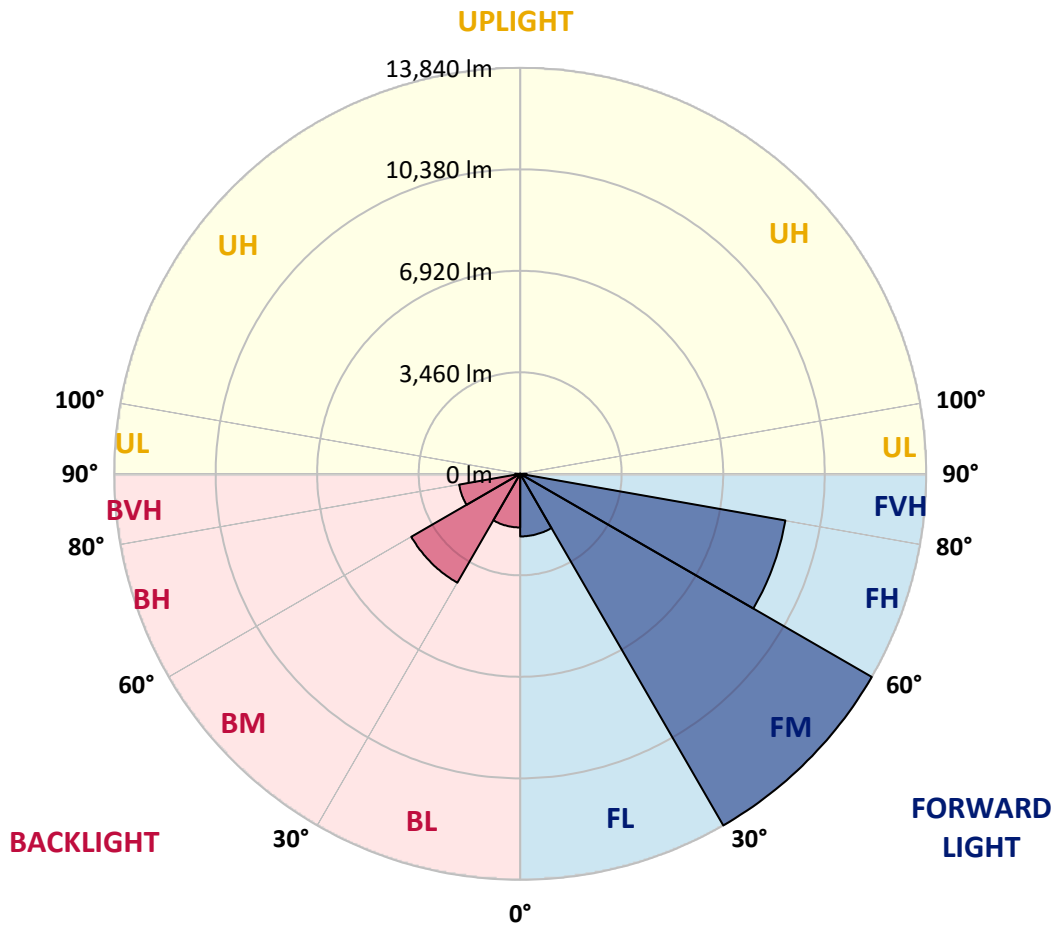
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.1	6.3			
FM (30°-60°)	13839.9	41.0			
FH (60°-80°)	9180.4	27.2			G4/12000
FVH (80°-90°)	221.0	0.7			G2/225
BL (0°-30°)	1829.3	5.4	B3/2500		
BM (30°-60°)	4286.2	12.7	B3/5000		
BH (60°-80°)	2113.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	168.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9
2.5°	3706.8	3728.1	3722.8	3713.9	3712.2	3715.7	3721.0	3726.4	3724.6	3733.5
5°	3696.2	3717.5	3715.7	3715.7	3722.8	3737.0	3745.9	3754.7	3745.9	3756.5
7.5°	3703.3	3719.3	3726.4	3733.5	3751.2	3777.8	3799.1	3818.6	3808.0	3820.4
10°	3793.8	3806.2	3813.3	3813.3	3825.7	3855.9	3877.2	3912.7	3903.8	3923.3
12.5°	3958.8	3971.2	3971.2	3964.1	3973.0	3992.5	3999.6	4038.7	4022.7	4054.6
15°	4161.1	4185.9	4166.4	4154.0	4157.5	4177.1	4175.3	4205.5	4189.5	4216.1
17.5°	4384.7	4416.6	4384.7	4382.9	4375.8	4397.1	4398.9	4425.5	4397.1	4416.6
20°	4649.1	4693.4	4666.8	4675.7	4659.7	4668.6	4677.5	4716.5	4672.1	4686.3
22.5°	5021.7	5074.9	5046.5	5080.3	5069.6	5062.5	5060.7	5129.9	5060.7	5066.1
25°	5564.7	5628.6	5578.9	5625.0	5625.0	5648.1	5674.7	5763.4	5648.1	5614.4
27.5°	6366.7	6430.6	6333.0	6361.4	6352.5	6409.3	6380.9	6601.0	6476.8	6421.7
30°	7332.0	7445.6	7261.1	7254.0	7245.1	7335.6	7376.4	7521.9	7395.9	7340.9
32.5°	8375.4	8494.3	8274.3	8210.4	8176.7	8231.7	8198.0	8315.1	8228.1	8143.0
35°	9479.1	9596.2	9386.9	9262.6	9127.8	9012.5	8891.8	8922.0	8840.3	8710.8
37.5°	10522.5	10737.2	10515.4	10382.3	10133.9	9908.6	9571.4	9431.2	9354.9	9236.0
40°	11585.4	11707.8	11539.3	11425.7	11156.0	10802.9	10263.4	9967.1	9864.2	9748.8
42.5°	12367.9	12485.1	12394.6	12316.5	12105.3	11695.4	10998.1	10627.2	10478.1	10348.6
45°	12989.0	13076.0	13019.2	13047.6	12957.1	12559.6	11759.3	11335.2	11180.8	11022.9
47.5°	13239.2	13331.5	13422.0	13590.5	13744.9	13452.1	12577.3	12101.8	11938.5	11777.1
50°	13210.8	13304.9	13567.5	13925.9	14405.0	14307.4	13439.7	12918.0	12767.2	12582.7
52.5°	12983.7	13090.1	13427.3	14023.5	14786.5	14948.0	14318.1	13760.9	13618.9	13398.9
55°	12387.5	12451.3	12957.1	13801.7	14877.0	15395.2	15178.7	14658.8	14516.8	14209.8
57.5°	11282.0	11374.2	12110.6	13203.7	14649.9	15698.6	15934.6	15602.8	15466.1	15024.3
60°	9839.3	9986.6	10829.5	12199.4	14071.4	15696.8	16621.3	16530.8	16417.2	15826.4
62.5°	8206.8	8377.2	9188.1	10779.8	13060.0	15251.4	17050.7	17308.0	17249.5	16566.3
65°	6302.9	6420.0	7227.4	8943.2	11486.0	14295.0	17100.4	17838.6	17849.2	17128.8
67.5°	4196.6	4533.7	5234.6	6711.0	9378.0	12731.7	16663.9	17925.5	18028.5	17322.2
70°	2047.7	2491.3	3178.0	4361.6	6711.0	10334.4	15522.9	17212.2	17441.1	16757.9
72.5°	850.0	993.7	1368.1	2152.4	3852.3	6973.6	13230.3	15278.0	15702.1	14848.6
75°	573.1	621.1	782.5	1103.7	1754.9	3438.9	9541.2	11392.0	12075.2	11214.5
77.5°	441.8	472.0	569.6	771.9	1043.4	1300.7	5106.9	6865.4	7218.5	6682.6
80°	347.8	370.9	425.9	562.5	739.9	695.6	1740.7	3110.6	3314.7	2780.6
82.5°	301.7	310.5	305.2	381.5	491.5	406.3	571.4	1148.1	1267.0	919.2
85°	218.3	243.1	253.7	236.0	260.8	205.8	234.2	406.3	447.2	399.3
87.5°	88.7	131.3	161.5	152.6	95.8	58.6	72.8	118.9	136.6	149.1
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°
3745.9	0°	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9	3745.9
3747.6	2.5°	3749.4	3761.8	3770.7	3781.4	3788.5	3799.1	3820.4	3832.8	3834.6	3843.5
3776.0	5°	3783.1	3800.9	3820.4	3848.8	3880.7	3907.3	3948.2	3976.6	3987.2	3996.1
3845.2	7.5°	3855.9	3880.7	3916.2	3965.9	4012.0	4047.5	4097.2	4130.9	4164.6	4177.1
3955.3	10°	3964.1	3999.6	4051.1	4118.5	4168.2	4214.3	4265.8	4294.2	4327.9	4342.1
4086.6	12.5°	4099.0	4136.3	4203.7	4297.7	4343.9	4375.8	4393.5	4386.4	4393.5	4406.0
4244.5	15°	4253.4	4294.2	4370.5	4471.6	4503.6	4475.2	4436.1	4400.6	4395.3	4398.9
4436.1	17.5°	4436.1	4466.3	4555.0	4640.2	4617.1	4500.0	4414.8	4358.1	4329.7	4320.8
4681.0	20°	4691.7	4691.7	4764.4	4817.6	4663.3	4464.5	4331.4	4239.2	4180.6	4155.8
5014.6	22.5°	5002.2	4973.8	5019.9	4982.7	4654.4	4365.2	4180.6	4020.9	3932.2	3896.7
5481.3	25°	5396.1	5362.4	5350.0	5119.3	4590.5	4207.2	3907.3	3713.9	3635.9	3616.3
6153.8	27.5°	5990.6	5905.4	5743.9	5193.8	4473.4	3958.8	3587.9	3408.7	3364.4	3366.1
7018.0	30°	6782.0	6611.6	6215.9	5206.2	4281.8	3607.5	3261.4	3133.7	3112.4	3121.3
7743.7	32.5°	7514.8	7353.3	6698.6	5149.5	3987.2	3263.2	2968.7	2883.5	2851.5	2862.2
8297.3	35°	8089.7	8045.4	7145.7	5069.6	3625.2	2940.3	2706.0	2633.3	2571.2	2557.0
8819.0	37.5°	8632.7	8615.0	7481.1	4957.8	3266.8	2711.4	2494.9	2399.1	2308.6	2258.9
9395.7	40°	9228.9	9211.2	7701.1	4785.7	2949.1	2512.6	2305.0	2179.0	2067.2	1976.7
10048.7	42.5°	9899.7	9795.0	7805.8	4539.1	2679.4	2344.1	2150.6	1980.3	1833.0	1749.6
10786.9	45°	10632.5	10396.5	7804.0	4225.0	2452.3	2189.7	1985.6	1744.3	1607.7	1529.6
11544.6	47.5°	11409.7	10971.4	7708.2	3877.2	2232.3	2019.3	1730.1	1545.5	1455.1	1407.1
12367.9	50°	12211.8	11509.1	7545.0	3477.9	2006.9	1825.9	1570.4	1444.4	1375.2	1330.8
13184.2	52.5°	12965.9	11997.1	7348.0	3025.4	1778.0	1637.8	1499.4	1401.8	1329.1	1279.4
13975.6	55°	13666.8	12417.6	7069.4	2562.3	1591.7	1511.8	1465.7	1384.1	1300.7	1242.1
14779.4	57.5°	14289.7	12690.9	6588.5	2127.6	1458.6	1424.9	1430.2	1353.9	1258.1	1208.4
15570.8	60°	14807.8	12891.4	5877.0	1724.8	1350.4	1339.7	1375.2	1297.1	1185.3	1128.6
16239.8	62.5°	15118.3	12887.9	5004.0	1412.5	1258.1	1261.6	1302.4	1226.1	1112.6	1059.3
16589.4	65°	15091.7	12572.0	4045.8	1208.4	1169.4	1172.9	1226.1	1148.1	1052.3	1020.3
16413.7	67.5°	14557.6	11801.9	3103.5	1075.3	1071.8	1087.7	1149.8	1094.8	1015.0	1011.4
15366.8	70°	13111.4	10203.1	2235.8	968.9	970.6	993.7	1075.3	1061.1	995.5	1002.6
12919.8	72.5°	10513.6	7779.2	1501.2	857.1	858.8	896.1	1004.3	1034.5	975.9	1070.0
9166.8	75°	7002.0	4851.4	965.3	738.2	739.9	787.9	942.2	983.0	922.7	1066.4
4769.7	77.5°	3364.4	2180.8	699.1	621.1	621.1	665.4	814.5	880.1	786.1	828.7
1533.1	80°	1162.3	819.8	550.1	500.4	489.7	519.9	686.7	763.0	677.8	624.6
500.4	82.5°	457.8	425.9	441.8	388.6	353.1	372.6	534.1	629.9	498.6	450.7
282.1	85°	262.6	276.8	312.3	257.3	204.1	228.9	392.2	452.5	376.2	331.8
92.3	87.5°	71.0	97.6	143.7	133.1	92.3	97.6	186.3	250.2	216.5	166.8
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>
3745.9
3841.7
3994.3
4178.8
4349.2
4409.5
4411.3
4333.2
4150.4
3891.4
3619.9
3371.5
3151.4
2876.4
2567.6
2260.7
1985.6
1754.9
1526.0
1396.5
1314.9
1258.1
1219.0
1176.5
1103.7
1043.4
1018.5
1016.8
1000.8
1084.2
1075.3
759.5
585.6
448.9
338.9
172.1
0.0

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