

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: P952427

Luminaire Tested: **GALN-SB6B-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36611 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

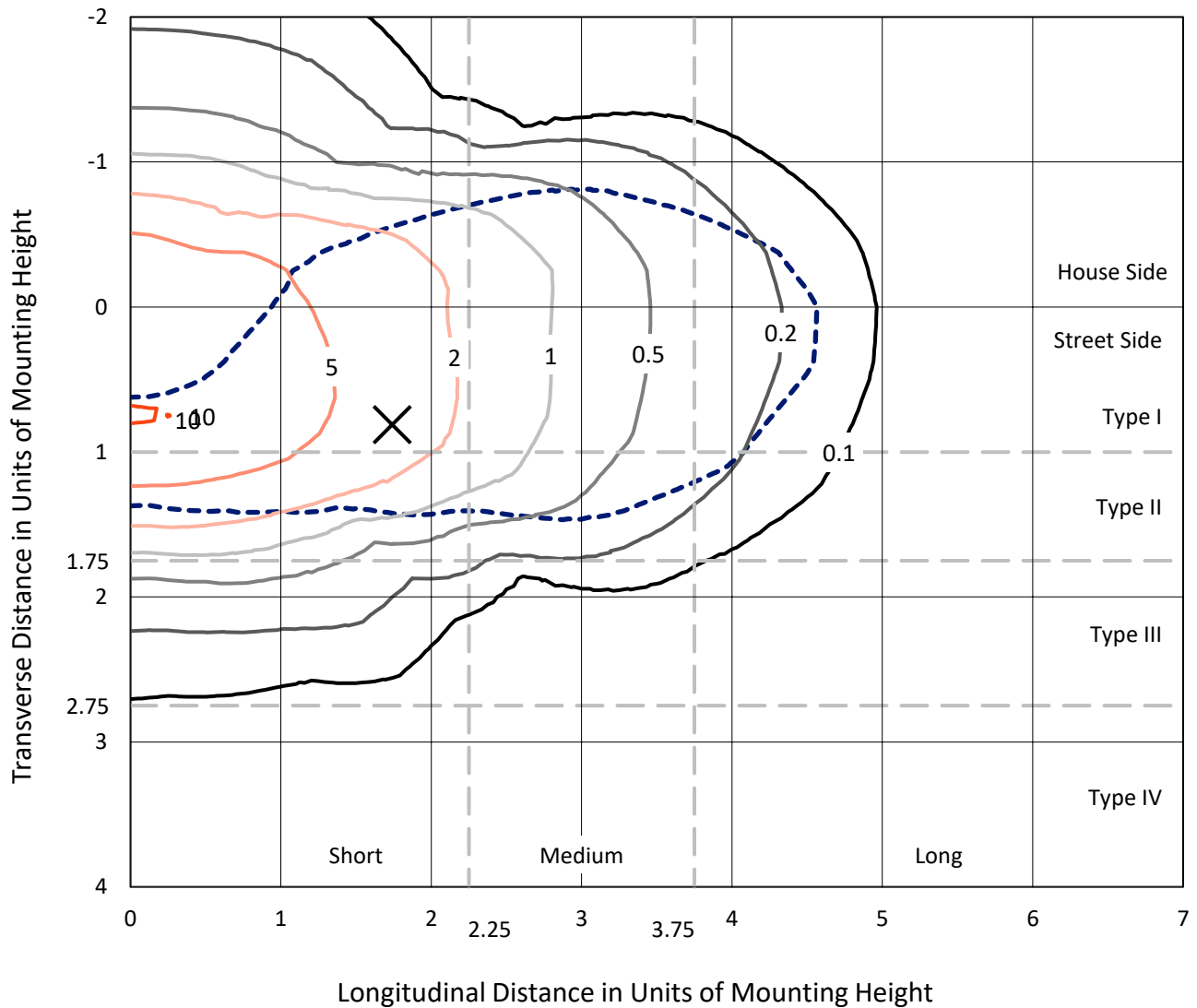
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

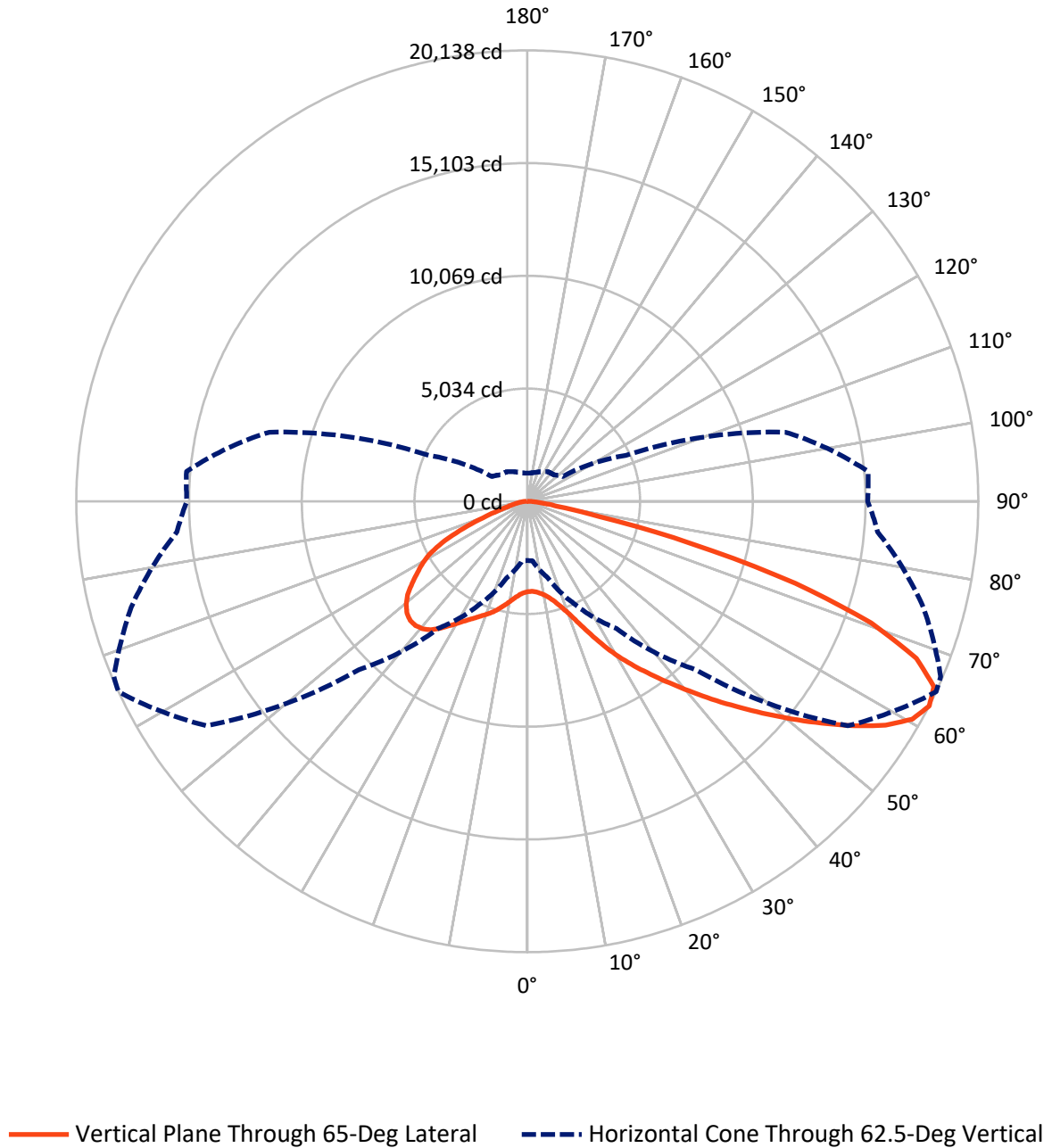
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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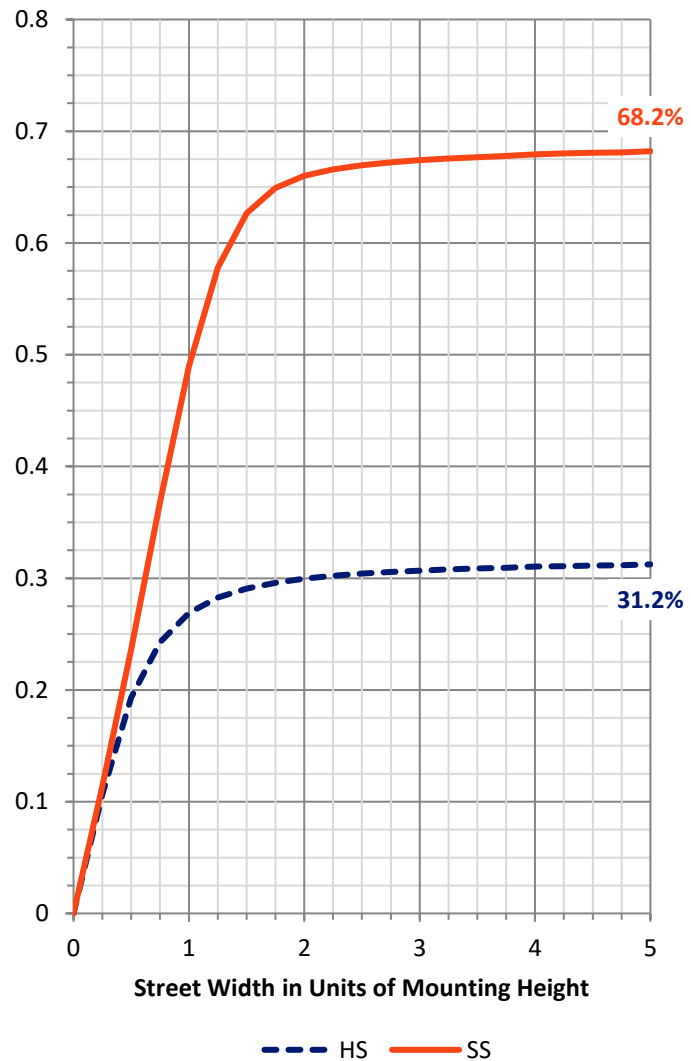
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11552.8	0.0	11552.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25058.2	0.0	25058.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	36611.0	0.0	36611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.2	1.1
10°-20°	1364.0	3.7
20°-30°	2765.6	7.6
30°-40°	4785.8	13.1
40°-50°	7242.4	19.8
50°-60°	8491.3	23.2
60°-70°	7118.9	19.4
70°-80°	3930.2	10.7
80°-90°	510.5	1.4
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°	36611.0	100.0
0°-180°	36611.0	100.0



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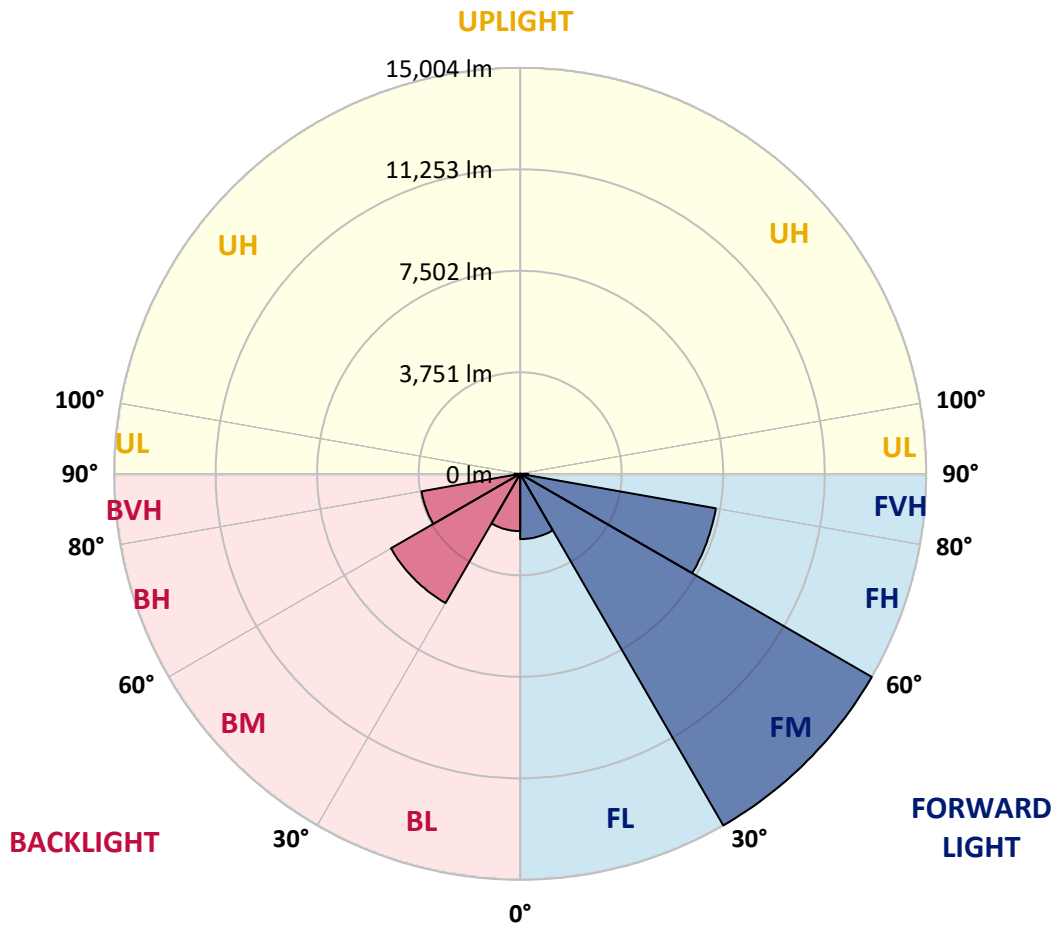
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.2	6.6			
FM (30°-60°)	15004.4	41.0			
FH (60°-80°)	7343.1	20.1			G3/7500
FVH (80°-90°)	297.5	0.8			G3/500
BL (0°-30°)	2118.7	5.8	B3/2500		
BM (30°-60°)	5515.2	15.1	B4/8500		
BH (60°-80°)	3706.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	213.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4
2.5°	4007.8	3996.4	4005.9	4005.9	4009.7	4007.8	4021.1	4024.9	4030.6	4042.0
5°	3967.9	3966.0	3983.1	3998.3	4013.5	4026.8	4043.9	4068.6	4072.4	4085.7
7.5°	3954.6	3943.2	3969.8	3988.8	4024.9	4057.2	4102.8	4144.5	4161.6	4167.3
10°	4057.2	4038.2	4062.9	4074.3	4104.7	4136.9	4190.1	4256.6	4275.6	4298.4
12.5°	4231.9	4211.0	4247.1	4264.2	4292.7	4321.2	4357.3	4421.9	4431.4	4473.1
15°	4471.2	4446.5	4469.3	4490.2	4537.7	4564.3	4600.4	4663.1	4663.1	4695.4
17.5°	4796.0	4763.8	4780.8	4788.4	4818.8	4858.7	4919.5	4974.6	5003.1	4991.7
20°	5280.4	5240.5	5240.5	5202.5	5191.1	5223.4	5303.2	5379.2	5409.6	5350.7
22.5°	6007.9	5950.9	5918.6	5789.4	5738.2	5742.0	5821.7	5914.8	5939.5	5835.0
25°	6932.9	6843.6	6799.9	6610.0	6494.1	6393.5	6456.1	6575.8	6610.0	6480.8
27.5°	7857.9	7863.6	7821.8	7593.9	7402.0	7217.8	7185.5	7310.9	7347.0	7200.7
30°	9155.2	9020.4	8940.6	8667.1	8393.5	8135.2	8002.3	8053.6	8063.0	7888.3
32.5°	10274.0	10239.8	10068.8	9829.5	9478.1	9073.5	8851.3	8769.6	8754.4	8505.6
35°	11548.5	11529.5	11349.0	11064.1	10684.3	10122.0	9721.2	9487.6	9468.6	9119.1
37.5°	12843.9	12843.9	12667.2	12355.7	11962.6	11259.8	10650.1	10279.7	10218.9	9763.0
40°	13877.2	13814.5	13846.8	13715.7	13265.6	12519.1	11681.4	11143.9	11062.2	10515.2
42.5°	14464.1	14443.2	14636.9	14783.2	14599.0	14002.5	12817.3	12080.3	11966.4	11343.4
45°	14595.2	14572.4	14918.1	15453.7	15712.0	15467.0	14051.9	13066.1	12927.5	12209.5
47.5°	14293.2	14247.6	14754.7	15600.0	16428.1	16859.3	15389.1	14135.5	13934.2	13052.8
50°	13385.2	13341.5	14108.9	15231.5	16669.3	17805.2	16840.3	15269.5	14961.8	13957.0
52.5°	11411.7	11432.6	12635.0	14177.3	16352.1	18394.0	18090.1	16464.2	16093.8	14882.0
55°	8889.3	8934.9	10412.6	12110.7	15083.3	18304.7	18942.9	17695.0	17326.5	15751.9
57.5°	6365.0	6566.3	7951.0	9632.0	12646.4	16889.7	19129.1	18865.1	18508.0	16701.6
60°	4125.5	4161.6	5586.2	7280.5	9630.1	14374.8	18751.1	19752.1	19472.9	17670.3
62.5°	2644.0	2668.7	3536.7	5092.4	6931.0	10634.9	17478.5	20137.7	20052.2	18310.4
65°	1943.1	1924.1	2376.2	3365.8	4668.8	6558.7	15007.3	19951.5	20120.6	18711.2
67.5°	1622.1	1595.5	1817.7	2330.6	3439.9	3724.8	11104.0	18741.6	19360.8	18665.6
70°	1477.8	1455.0	1589.8	1730.4	2683.9	2493.9	5597.6	16293.2	17246.8	18147.1
72.5°	1251.7	1211.8	1396.1	1536.6	2087.5	1912.7	2313.5	12515.3	13677.7	16485.1
75°	970.6	944.0	1101.7	1352.4	1568.9	1492.9	1462.6	7599.6	8868.4	12748.9
77.5°	769.3	733.2	877.5	1054.2	1411.3	1126.4	1065.6	3272.7	4530.1	8139.0
80°	579.3	547.0	666.7	833.8	1084.6	849.0	689.5	1335.3	1707.6	4123.6
82.5°	412.2	383.7	465.4	611.6	729.4	761.7	423.6	748.4	841.4	1589.8
85°	264.0	246.9	311.5	383.7	463.5	490.1	258.3	391.3	429.3	655.3
87.5°	144.4	117.8	167.1	178.5	214.6	195.6	123.5	142.5	153.9	237.4
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°
4034.4	0°	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4	4034.4
4042.0	2.5°	4049.6	4055.3	4074.3	4080.0	4093.3	4110.4	4121.7	4133.1	4133.1	4144.5
4102.8	5°	4104.7	4117.9	4157.8	4178.7	4212.9	4247.1	4268.0	4292.7	4307.9	4315.5
4199.6	7.5°	4211.0	4231.9	4288.9	4325.0	4383.9	4431.4	4463.6	4497.8	4505.4	4526.3
4334.5	10°	4355.4	4380.1	4444.6	4513.0	4583.3	4642.2	4672.6	4697.3	4706.8	4710.6
4507.3	12.5°	4520.6	4556.7	4640.3	4723.9	4797.9	4849.2	4856.8	4851.1	4824.5	4801.7
4720.1	15°	4723.9	4756.2	4849.2	4940.4	5012.6	5022.1	4974.6	4944.2	4911.9	4906.2
4957.5	17.5°	4967.0	4984.1	5069.6	5158.8	5164.5	5132.2	5062.0	5033.5	5003.1	4982.2
5267.1	20°	5250.0	5244.3	5305.1	5343.1	5303.2	5204.4	5098.1	5050.6	5020.2	4995.5
5647.0	22.5°	5588.1	5544.4	5536.8	5527.3	5421.0	5213.9	5069.6	5008.8	4961.3	4927.1
6176.9	25°	6080.1	5912.9	5797.0	5732.5	5493.1	5162.6	4978.4	4843.5	4754.3	4695.4
6824.6	27.5°	6695.5	6414.3	6121.8	5964.2	5493.1	5058.2	4758.1	4539.6	4393.4	4332.6
7451.4	30°	7282.4	6988.0	6556.8	6243.4	5479.8	4887.2	4402.9	4099.0	3928.0	3867.2
7987.1	32.5°	7783.8	7462.8	7018.4	6549.2	5447.5	4609.9	3962.2	3626.0	3460.7	3388.6
8517.0	35°	8249.2	7907.3	7481.8	6885.4	5362.1	4203.4	3477.8	3221.4	3037.2	2921.3
9056.4	37.5°	8725.9	8319.5	7920.6	7189.3	5208.2	3728.6	3105.6	2887.1	2670.6	2514.8
9630.1	40°	9244.5	8758.2	8389.7	7369.8	4955.6	3276.5	2816.8	2617.4	2387.6	2222.3
10291.1	42.5°	9850.4	9284.4	8912.1	7462.8	4609.9	2955.5	2628.8	2433.2	2216.6	2081.8
10999.6	45°	10482.9	9863.7	9388.8	7460.9	4224.3	2805.4	2568.0	2374.3	2135.0	1994.4
11727.0	47.5°	11145.8	10469.6	9801.0	7339.4	3890.0	2826.3	2533.8	2247.0	1983.0	1846.2
12462.1	50°	11810.6	11132.5	10199.9	7111.4	3747.6	2780.8	2406.6	2068.5	1757.0	1633.5
13151.6	52.5°	12469.7	11837.2	10543.7	6786.6	3603.2	2611.7	2243.2	1836.7	1663.9	1578.4
13863.9	55°	13132.6	12534.3	10917.9	6313.7	3242.3	2414.2	1969.7	1749.4	1589.8	1511.9
14561.0	57.5°	13797.4	13339.6	11273.1	5840.7	2788.4	2171.0	1819.6	1643.0	1515.7	1449.3
15144.1	60°	14488.8	14260.9	11639.7	5405.8	2340.1	1859.5	1709.5	1557.5	1428.4	1354.3
15704.4	62.5°	15201.1	15275.2	11926.5	4845.4	1927.9	1669.6	1610.7	1455.0	1329.6	1259.3
16167.9	65°	15919.1	16253.4	12114.5	4068.6	1563.2	1489.1	1504.3	1342.9	1215.6	1154.8
16507.9	67.5°	16460.4	16958.0	12061.3	3079.0	1282.1	1318.2	1371.4	1225.1	1105.5	1058.0
16452.8	70°	16521.2	16874.5	11537.1	2108.4	1073.2	1151.1	1223.2	1109.3	985.8	951.6
15677.8	72.5°	15712.0	15734.8	10076.4	1377.1	907.9	1010.5	1067.5	991.5	871.8	837.6
13715.7	75°	13590.4	13012.9	7398.3	907.9	759.8	868.0	921.2	868.0	752.2	759.8
10262.6	77.5°	10296.8	9216.0	4492.1	645.8	634.4	729.4	801.6	763.6	664.8	746.5
5160.7	80°	5305.1	4986.0	2003.9	482.5	501.4	583.1	659.1	609.7	526.1	501.4
1152.9	82.5°	1215.6	1413.2	790.2	345.7	362.8	419.8	503.3	457.8	378.0	319.1
480.6	85°	425.5	465.4	349.5	216.5	212.7	262.1	341.9	305.8	256.4	205.1
203.2	87.5°	134.9	176.6	131.1	87.4	91.2	117.8	157.7	144.4	119.7	77.9
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>
4034.4
4144.5
4319.3
4518.7
4701.1
4801.7
4906.2
4984.1
4997.4
4938.5
4718.2
4363.0
3903.3
3424.7
2959.3
2556.6
2254.6
2108.4
2017.2
1865.2
1641.1
1578.4
1504.3
1437.9
1348.6
1257.4
1152.9
1059.9
953.5
835.7
733.2
657.2
457.8
315.3
216.5
81.7
0.0

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