

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: EPHESUS

Report Number: P574764

Luminaire Tested: **EPH-VN-04-730-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574764
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

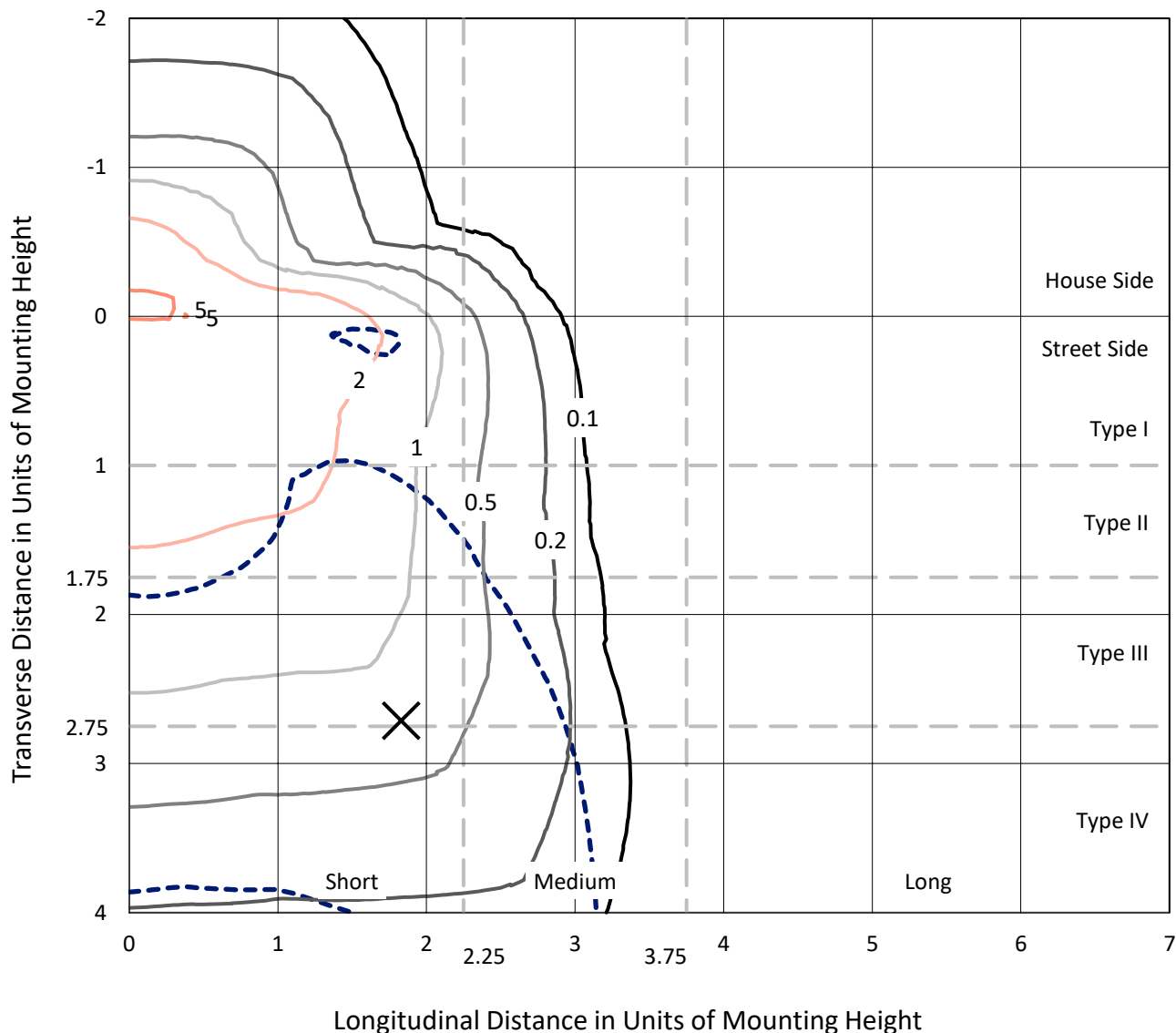
Lumens per Lamp: N/A
Luminaire Lumens: 32627.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8
Input Voltage (V): 120
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

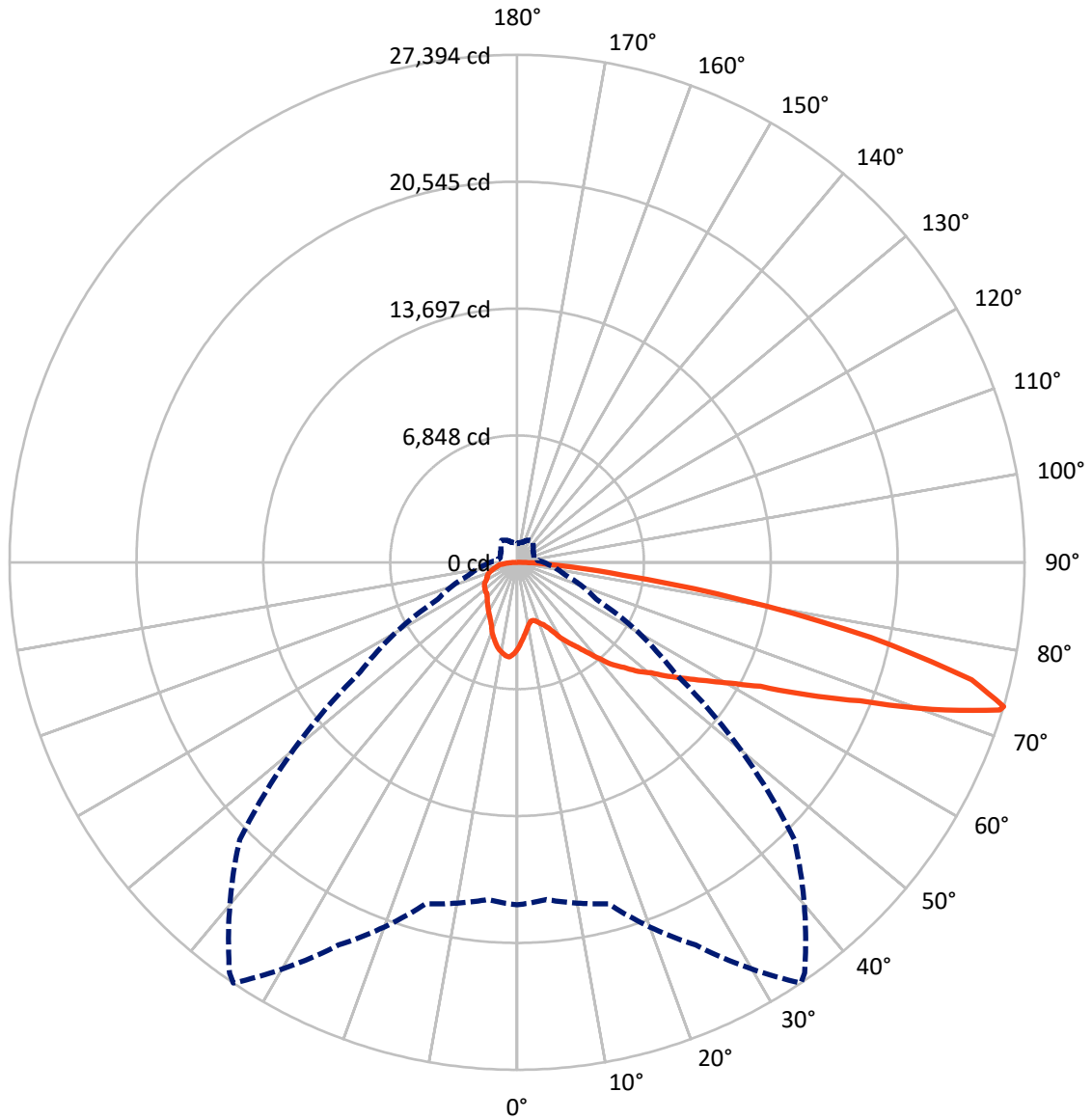
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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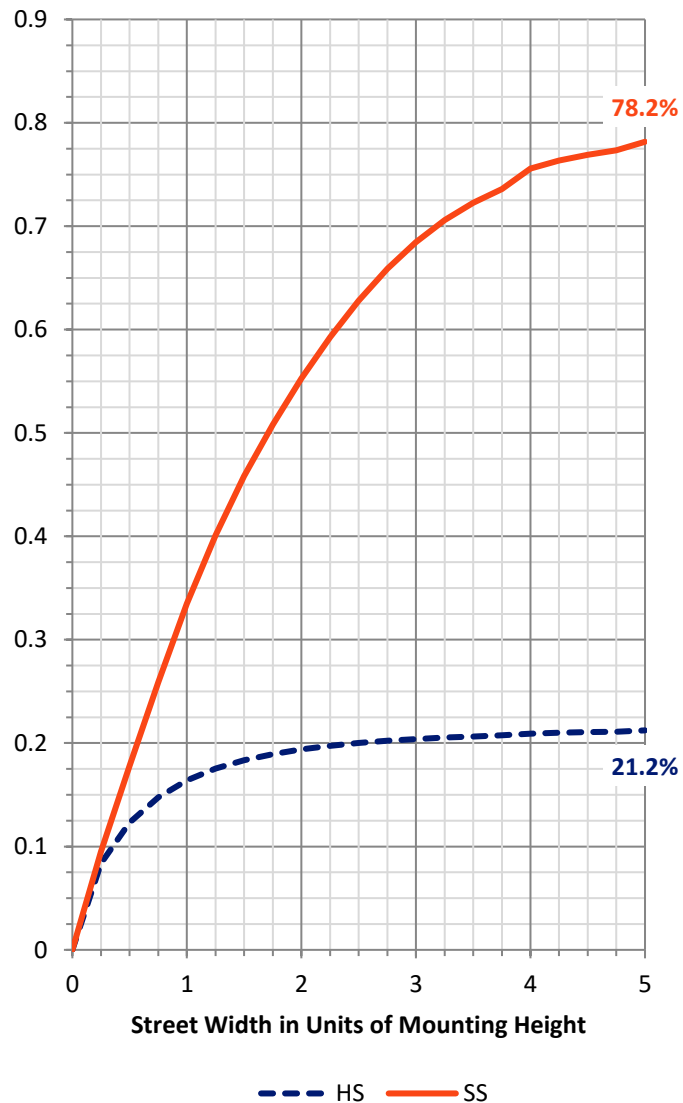
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7048.0	0.0	7048.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25579.9	0.0	25579.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	32627.9	0.0	32627.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	1.3
10°-20°	1208.2	3.7
20°-30°	1988.6	6.1
30°-40°	2973.9	9.1
40°-50°	4408.7	13.5
50°-60°	6353.4	19.5
60°-70°	8107.8	24.8
70°-80°	6309.2	19.3
80°-90°	846.4	2.6
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°	32627.9	100.0
0°-180°	32627.9	100.0

Coefficient of Utilization

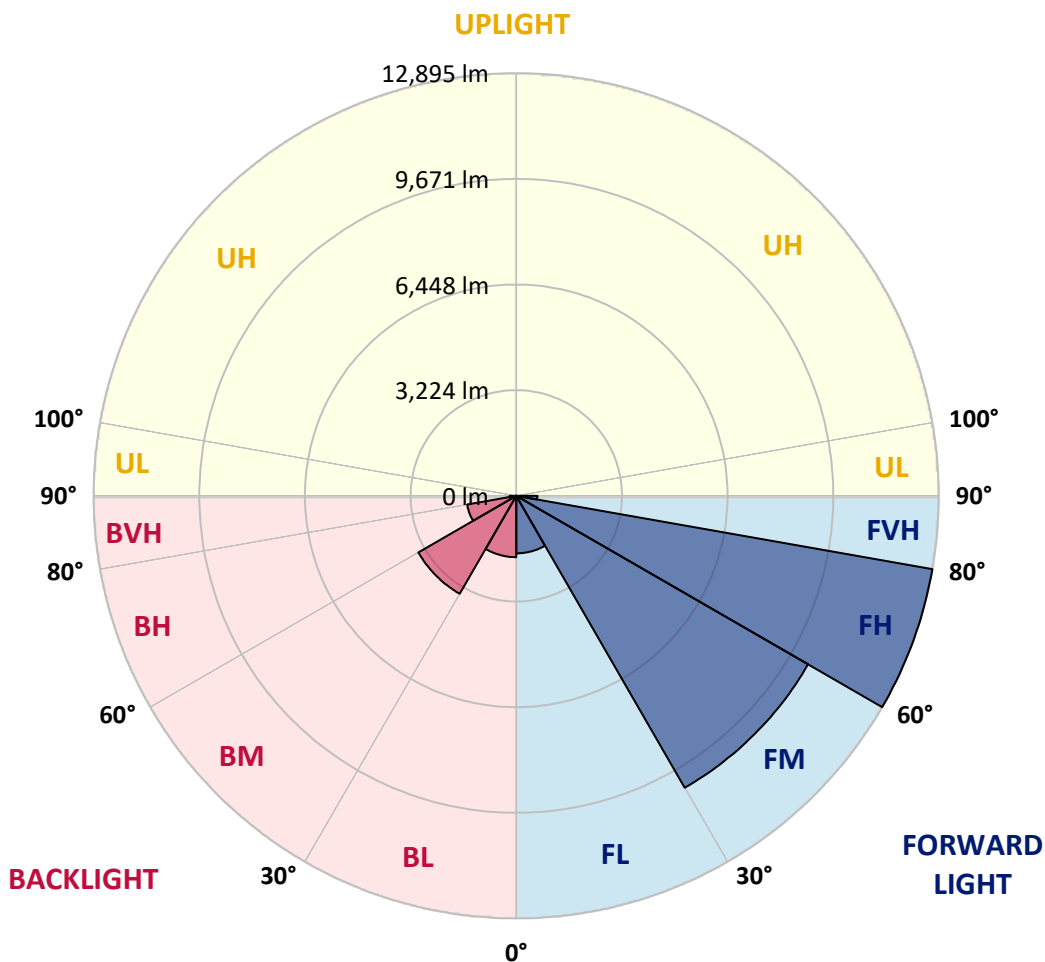


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.9	5.4			
FM (30°-60°)	10284.5	31.5			
FH (60°-80°)	12895.1	39.5			G5
FVH (80°-90°)	644.3	2.0			G4/750
BL (0°-30°)	1872.6	5.7	B3/2500		
BM (30°-60°)	3451.5	10.6	B3/5000		
BH (60°-80°)	1521.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	202.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7
2.5°	4191.3	4205.1	4250.0	4260.3	4308.6	4281.0	4339.7	4443.2	4501.8	4588.0
5°	3860.2	3801.5	3829.1	3936.1	3991.2	4005.0	4067.1	4243.1	4353.5	4481.1
7.5°	3470.3	3460.0	3515.2	3584.2	3694.6	3704.9	3842.9	3998.1	4225.8	4508.7
10°	3204.7	3249.6	3280.6	3353.1	3429.0	3429.0	3604.9	3874.0	4132.7	4405.2
12.5°	3190.9	3163.3	3170.2	3208.2	3263.4	3332.4	3497.9	3739.4	4067.1	4384.5
15°	3235.8	3246.1	3184.0	3232.3	3253.0	3277.2	3460.0	3732.5	4025.7	4456.9
17.5°	3473.8	3415.2	3318.6	3273.7	3346.2	3346.2	3470.3	3684.2	4032.6	4494.9
20°	3660.1	3660.1	3501.4	3453.1	3504.8	3494.5	3580.7	3739.4	4067.1	4570.8
22.5°	3974.0	4018.8	3756.7	3656.6	3653.2	3680.8	3756.7	3891.2	4163.7	4677.7
25°	4425.9	4436.3	4132.7	4029.2	3918.8	3963.6	3977.4	4112.0	4250.0	4801.9
27.5°	4929.6	4922.7	4643.2	4384.5	4312.1	4322.4	4246.5	4336.2	4377.6	4839.9
30°	5488.4	5426.3	5215.9	4850.2	4791.6	4726.0	4560.4	4557.0	4643.2	5053.7
32.5°	5854.1	5774.7	5629.8	5367.7	5205.5	5212.4	4950.2	4946.8	4870.9	5288.3
35°	6212.8	6092.1	6054.1	5785.1	5622.9	5640.2	5429.8	5402.2	5264.2	5643.6
37.5°	6644.0	6537.1	6595.7	6392.2	6192.1	6109.3	6012.7	5978.2	5798.9	6143.8
40°	7120.1	7085.6	7047.6	6947.6	6826.9	6833.8	6730.3	6695.8	6430.1	6747.5
42.5°	7761.7	7630.6	7434.0	7499.5	7561.6	7627.2	7592.7	7503.0	7227.0	7361.6
45°	8358.5	8186.0	7823.8	7844.5	8099.8	8151.5	8568.9	8558.6	8003.2	8141.2
47.5°	8762.1	8682.8	8465.4	8441.3	8807.0	8803.5	9555.5	9555.5	8820.8	8917.3
50°	9362.4	9155.4	9062.2	9183.0	9369.3	9496.9	10562.8	10628.4	9624.5	9728.0
52.5°	10066.1	9807.4	9572.8	9883.2	10214.4	10297.2	11559.8	11532.2	10242.0	10669.8
55°	10649.1	10518.0	10355.9	10535.2	11076.8	11180.3	12560.2	12304.9	10859.5	11449.4
57.5°	11328.7	11408.0	11442.5	11397.6	12042.7	12204.9	13702.0	12970.7	11390.7	11973.7
60°	12353.2	12401.5	12446.3	12553.3	13236.3	13464.0	14605.8	13805.5	11725.4	12277.3
62.5°	13912.4	13726.2	13826.2	14195.3	14743.8	15002.5	15937.4	14391.9	11980.6	12460.1
65°	15695.9	15444.1	15340.6	15816.6	17237.9	17030.9	17600.1	14830.0	11611.5	11777.1
67.5°	17503.5	17531.1	17265.5	18221.1	19963.1	19963.1	19145.6	15040.5	10611.1	9545.2
70°	18938.6	19024.8	19169.7	21022.2	23781.9	24199.3	21060.1	14178.1	8572.4	6354.3
72.5°	18917.9	18659.2	19400.8	22812.5	27252.2	26903.8	21460.3	11211.4	5350.4	3111.6
73°	18493.6	18276.3	19086.9	22795.3	27393.7	27066.0	21167.1	10335.2	4719.1	2697.6
75°	15102.6	14709.3	16089.2	20646.2	25344.6	25596.4	17983.0	6740.6	2587.2	1662.7
77.5°	6885.5	7058.0	8855.3	13850.3	19531.9	19828.6	11822.0	2915.0	1417.8	1166.0
80°	2211.2	2321.6	3446.2	6885.5	12242.8	12777.5	5464.2	1324.7	1010.7	893.5
82.5°	845.2	841.7	1445.4	2863.2	5802.3	6143.8	1997.3	807.2	752.0	658.9
85°	296.7	310.5	545.0	1131.5	2283.7	2390.6	693.4	448.5	520.9	441.6
87.5°	103.5	106.9	193.2	410.5	786.5	831.4	193.2	179.4	258.7	255.3
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°
4677.7	0°	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7	4677.7
4691.5	2.5°	4726.0	4757.1	4767.4	4891.6	4891.6	4891.6	4939.9	4939.9	4926.1	4891.6
4674.3	5°	4746.7	4801.9	4908.9	5015.8	5043.4	5067.5	5133.1	5077.9	5098.6	5064.1
4736.4	7.5°	4805.4	4881.3	5081.3	5146.9	5102.0	5153.8	5084.8	5046.8	5008.9	5022.7
4750.2	10°	4905.4	5002.0	5095.1	5215.9	5129.6	5077.9	4936.5	4902.0	4781.2	4739.8
4808.8	12.5°	5029.6	5146.9	5305.6	5260.7	5095.1	4946.8	4795.0	4650.1	4577.7	4474.2
4908.9	15°	5153.8	5288.3	5312.5	5236.6	5029.6	4843.3	4567.3	4363.8	4291.4	4198.2
5053.7	17.5°	5288.3	5416.0	5374.6	5177.9	4898.5	4615.6	4301.7	4101.6	3949.9	3891.2
5215.9	20°	5488.4	5550.5	5484.9	5081.3	4739.8	4367.3	4063.7	3836.0	3684.2	3660.1
5371.1	22.5°	5643.6	5743.7	5450.4	4939.9	4508.7	4043.0	3694.6	3608.3	3563.5	3525.5
5547.0	25°	5843.7	5840.3	5388.4	4808.8	4112.0	3656.6	3446.2	3439.3	3418.6	3404.8
5798.9	27.5°	6033.4	5954.1	5315.9	4484.5	3701.5	3363.4	3249.6	3325.5	3356.5	3335.8
6147.3	30°	6333.6	6202.5	5212.4	4139.6	3339.3	3066.7	3087.4	3190.9	3242.7	3273.7
6450.8	32.5°	6650.9	6450.8	4998.5	3780.8	3018.4	2880.5	2928.8	3035.7	3097.8	3132.3
6951.0	35°	7109.7	6644.0	4781.2	3311.7	2787.3	2766.6	2794.2	2852.9	2942.6	2966.7
7634.1	37.5°	7675.5	6937.2	4488.0	2935.7	2607.9	2632.1	2659.7	2680.4	2683.8	2728.7
8289.5	40°	8241.2	7185.6	4060.2	2576.9	2421.7	2552.7	2538.9	2501.0	2470.0	2428.6
9020.8	42.5°	8738.0	7403.0	3584.2	2273.3	2256.1	2470.0	2425.1	2328.5	2256.1	2225.0
9852.2	45°	9296.8	7710.0	3104.7	2083.6	2128.4	2369.9	2356.1	2207.8	2114.6	2004.2
10745.7	47.5°	10021.2	8030.8	2645.9	1887.0	2007.7	2332.0	2338.9	2149.1	2014.6	1866.3
11915.1	50°	10949.2	8493.0	2297.5	1804.2	1935.3	2276.8	2287.1	2069.8	1893.9	1742.1
13284.6	52.5°	11839.2	8965.6	2007.7	1676.5	1887.0	2211.2	2235.4	1997.3	1793.8	1604.1
13943.5	55°	12287.7	8793.2	1759.3	1583.4	1776.6	2104.3	2194.0	1945.6	1642.0	1510.9
14329.8	57.5°	12387.7	8368.9	1562.7	1486.8	1683.4	1990.4	2125.0	1790.4	1573.0	1462.7
14360.9	60°	12060.0	7627.2	1407.5	1383.3	1566.1	1873.2	1966.3	1707.6	1504.0	1414.4
13346.7	62.5°	11252.8	6857.9	1300.5	1335.0	1466.1	1745.5	1866.3	1648.9	1438.5	1376.4
11318.3	65°	9227.8	5640.2	1214.3	1241.9	1362.6	1621.3	1804.2	1583.4	1379.9	1321.2
7937.6	67.5°	6392.2	3887.8	1145.3	1197.0	1279.8	1531.6	1742.1	1510.9	1304.0	1283.3
4339.7	70°	3273.7	2073.2	1055.6	1097.0	1190.1	1417.8	1631.7	1435.1	1224.6	1221.2
1990.4	72.5°	1659.3	1214.3	952.1	1014.2	1079.7	1269.5	1493.7	1335.0	1124.6	1086.6
1769.7	73°	1435.1	1124.6	934.9	990.0	1052.1	1228.1	1452.3	1310.9	1110.8	1055.6
1245.3	75°	1045.2	886.6	838.3	893.5	941.8	1107.3	1314.3	1200.5	1021.1	962.5
917.6	77.5°	783.1	683.0	696.8	758.9	800.3	955.6	1169.4	1086.6	924.5	845.2
686.5	80°	576.1	520.9	576.1	634.7	665.8	841.7	1065.9	941.8	779.6	689.9
486.4	82.5°	410.5	379.5	445.0	483.0	496.7	696.8	959.0	752.0	589.9	472.6
279.4	85°	234.6	231.1	300.1	296.7	307.0	407.1	631.3	500.2	379.5	289.8
141.4	87.5°	103.5	113.8	151.8	120.7	127.6	193.2	269.1	186.3	155.2	86.2
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



180°
4677.7
4974.4
5095.1
4974.4
4777.8
4501.8
4246.5
3891.2
3622.1
3477.2
3470.3
3363.4
3232.3
3170.2
2977.0
2711.4
2418.2
2173.3
1990.4
1845.6
1728.3
1614.4
1507.5
1448.9
1393.7
1331.6
1317.8
1255.7
1186.7
1031.4
1003.8
914.2
824.5
672.7
434.7
282.9
65.5
0.0

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