

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: P574698

Luminaire Tested: **EPH-VN-06-740-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574698
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

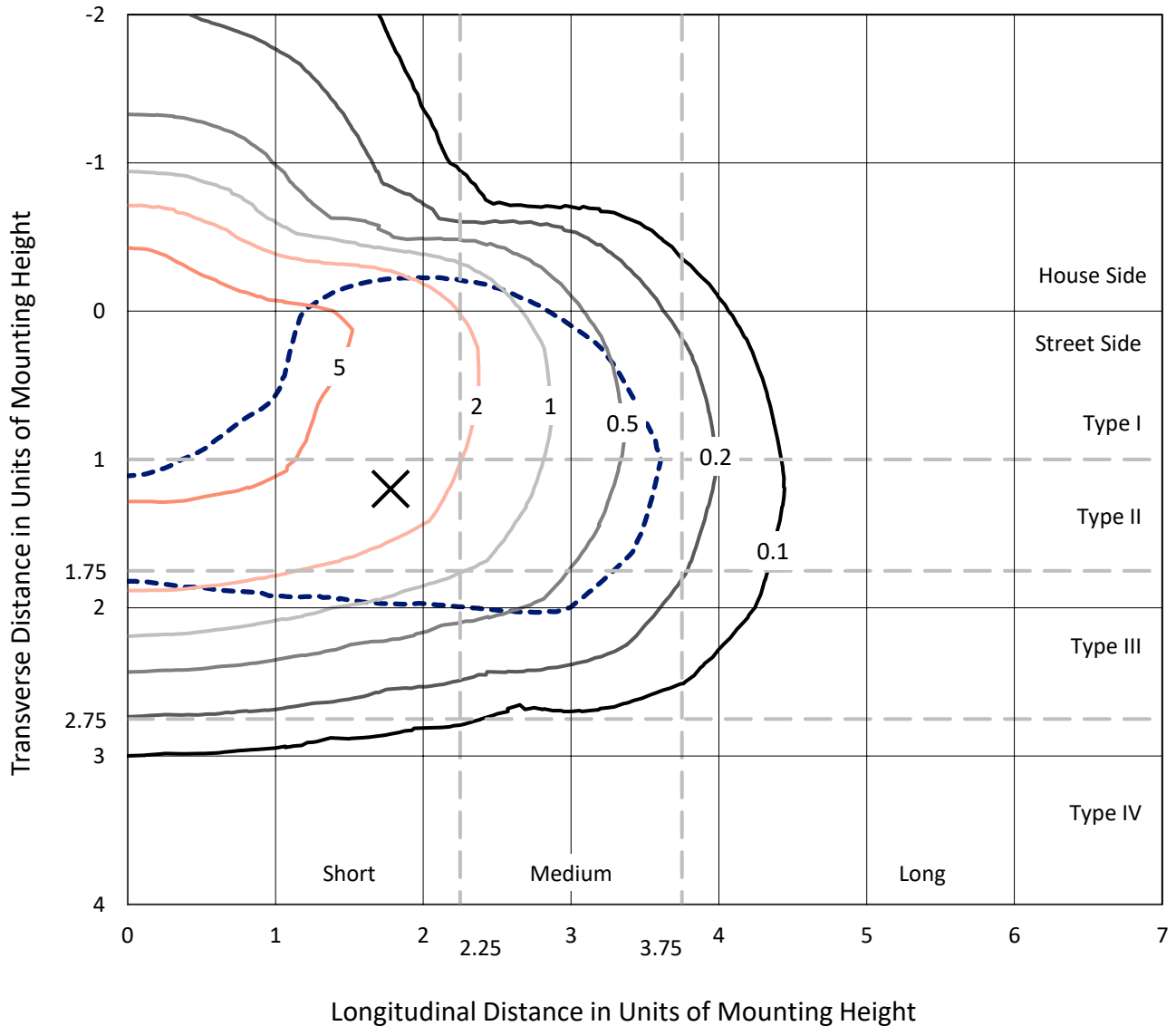
Lumens per Lamp: N/A
Luminaire Lumens: 53892.9 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

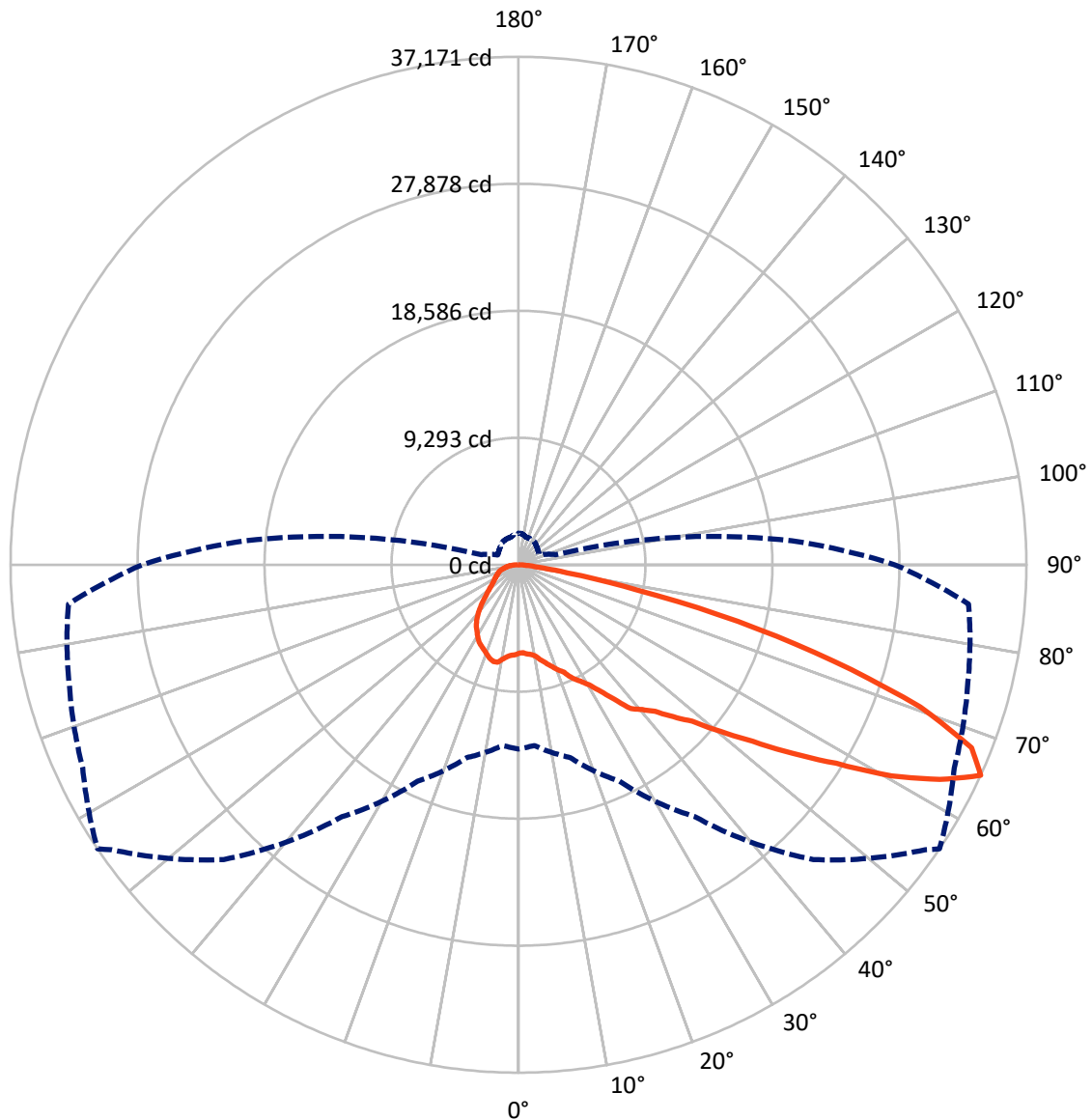
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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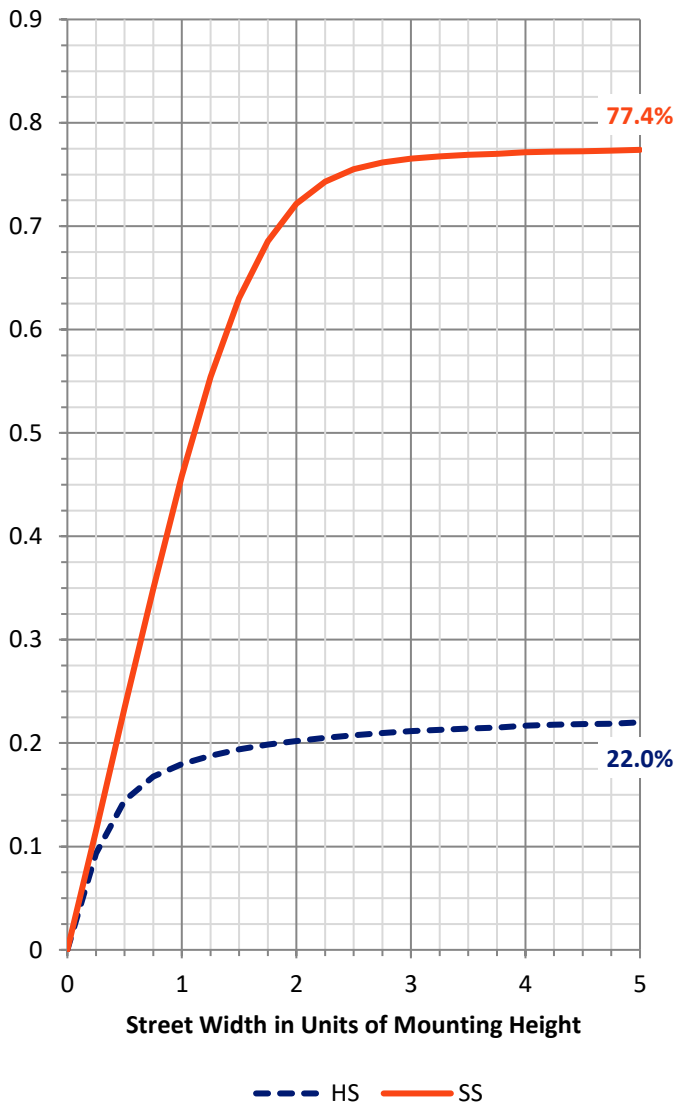
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12086.4	0.0	12086.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	41806.5	0.0	41806.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	53892.9	0.0	53892.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.0	1.2
10°-20°	2081.5	3.9
20°-30°	3706.2	6.9
30°-40°	5550.0	10.3
40°-50°	8223.0	15.3
50°-60°	12670.4	23.5
60°-70°	14344.5	26.6
70°-80°	5953.1	11.0
80°-90°	723.2	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°	53892.9	100.0
0°-180°	53892.9	100.0



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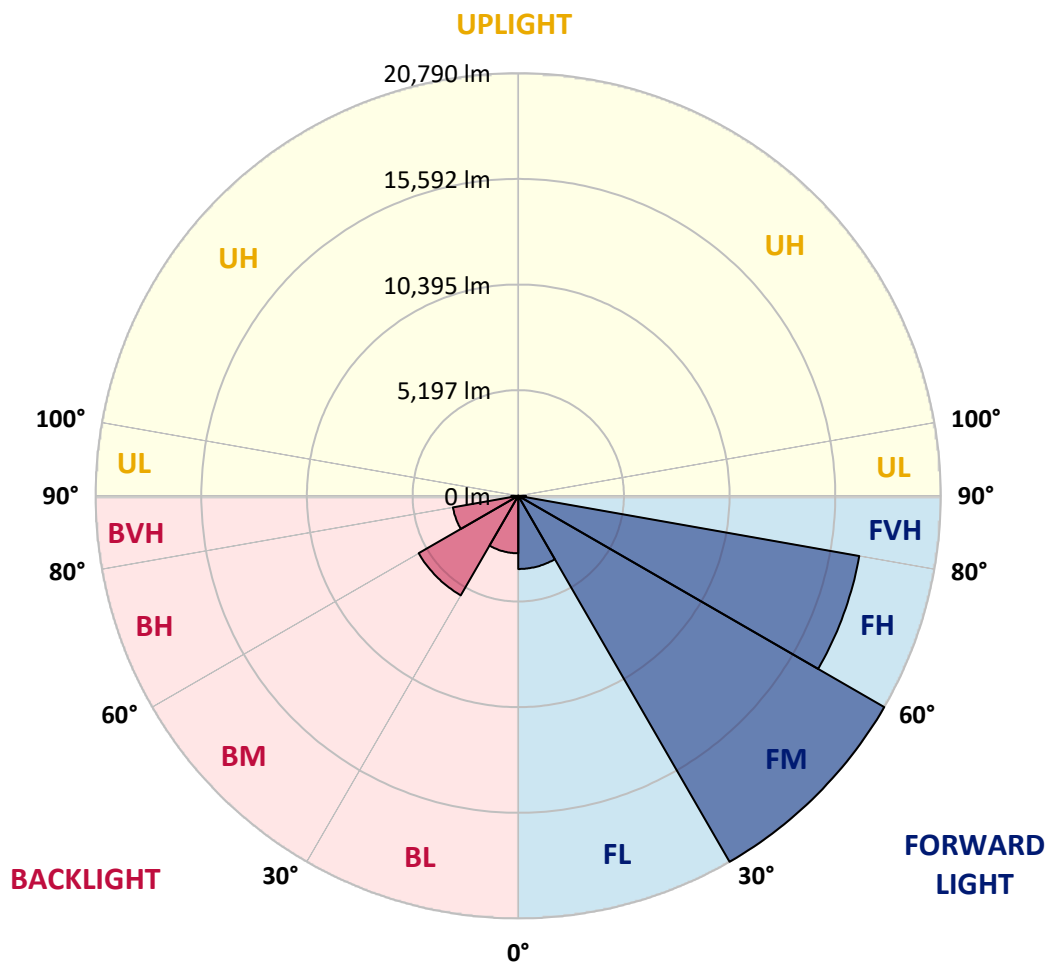
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3601.6	6.7			
FM (30°-60°)	20789.5	38.6			
FH (60°-80°)	17033.9	31.6			G5
FVH (80°-90°)	381.5	0.7			G3/500
BL (0°-30°)	2827.1	5.2	B4/5000		
BM (30°-60°)	5653.8	10.5	B4/8500		
BH (60°-80°)	3263.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	341.7	0.6			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7
2.5°	6299.5	6333.3	6310.8	6378.5	6434.9	6434.9	6480.0	6446.1	6491.2	6553.3
5°	6508.2	6372.8	6446.1	6480.0	6463.1	6491.2	6446.1	6558.9	6485.6	6604.0
7.5°	6558.9	6609.7	6671.7	6615.3	6666.1	6637.9	6643.5	6626.6	6587.1	6683.0
10°	6931.1	6857.8	6998.8	6914.2	6902.9	6891.7	6869.1	6784.5	6880.4	6886.0
12.5°	7359.8	7292.1	7286.4	7218.8	7309.0	7145.5	7179.3	7134.2	7151.1	7173.6
15°	7669.9	7641.7	7771.5	7692.5	7574.1	7500.7	7579.7	7455.6	7517.7	7506.4
17.5°	8284.7	8279.0	8183.1	8053.4	7985.8	7878.6	7861.7	7810.9	7856.0	7833.5
20°	8713.3	8775.3	8792.2	8640.0	8380.5	8262.1	8233.9	8194.4	8245.2	8228.3
22.5°	9367.5	9271.6	9344.9	9079.9	8984.0	8702.0	8600.5	8544.1	8786.6	8724.6
25°	9784.8	9886.3	9813.0	9722.8	9508.5	9158.8	9085.5	9209.6	9305.4	9237.8
27.5°	10726.6	10625.1	10557.4	10286.7	10145.7	9779.2	9694.6	9649.5	9672.0	9711.5
30°	11442.9	11499.3	11347.0	11155.2	10800.0	10427.7	10230.3	10190.9	10111.9	10044.2
32.5°	12463.7	12379.1	12288.8	12164.7	11860.2	11369.6	11177.8	11031.2	10794.3	10478.5
35°	12954.3	13196.8	13129.1	12796.4	12565.2	12379.1	12322.7	12097.1	11899.7	11403.4
37.5°	13772.1	13873.6	13777.7	13670.5	13563.4	13366.0	13298.3	13360.4	12971.2	12153.5
40°	14302.2	14516.5	14713.9	14415.0	14392.4	14431.9	14014.6	13941.2	13140.4	12711.8
42.5°	15385.0	15475.2	15514.7	15503.4	15633.1	15633.1	14837.9	14680.0	14110.4	13760.8
45°	16817.5	16890.8	17031.8	17133.3	16986.7	17060.0	15926.4	15864.4	15356.8	15289.1
47.5°	18058.2	18233.0	18548.8	18847.7	19039.5	18791.4	17550.6	17110.7	16981.0	17387.1
50°	19141.0	18932.3	19671.1	19975.7	20816.0	21227.7	19344.0	19169.2	18960.5	19738.8
52.5°	19248.2	19530.1	20573.5	21182.6	22913.9	23675.3	21543.5	21470.2	21216.4	22113.1
55°	20015.2	19981.3	21030.3	22350.0	24408.5	25688.7	24408.5	24363.3	23810.6	24662.2
57.5°	19885.4	20229.5	21058.5	22902.7	25756.3	27848.6	27730.2	27420.0	26647.4	27341.1
60°	19445.6	19535.8	20545.3	22885.7	26540.2	30065.0	31317.0	31379.1	29800.0	30352.7
62.5°	16952.8	17161.5	18441.7	21086.7	25981.9	31593.4	34819.3	34599.3	33336.0	32704.4
65°	13484.4	13275.8	14606.7	17466.0	22507.9	30510.6	36353.3	37171.0	35185.8	34029.7
67.5°	8267.7	8217.0	9497.2	12018.1	16840.0	25965.0	35129.4	35766.7	34672.6	33747.7
70°	4257.9	4128.2	4929.1	6705.6	10585.6	19050.8	30572.6	31198.6	32241.9	30268.1
72.5°	1985.2	1957.0	2385.6	3299.2	5391.5	11200.4	23675.3	24126.5	26325.9	25519.5
75°	1167.4	1184.3	1426.8	1725.7	2628.1	5278.7	15712.1	16586.2	18971.8	18390.9
77.5°	874.1	874.1	1015.1	1201.2	1534.0	2041.6	7754.5	8910.7	11093.2	9976.6
80°	642.9	654.2	778.3	902.3	1065.9	1054.6	3079.3	3609.4	5087.0	4348.2
82.5°	501.9	518.8	603.4	671.1	750.1	637.3	1263.3	1359.2	2092.3	1663.7
85°	349.7	360.9	473.7	456.8	456.8	355.3	524.5	552.7	829.0	789.6
87.5°	84.6	95.9	231.2	253.8	191.7	107.2	163.6	186.1	298.9	344.0
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°
6468.7	0°	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7	6468.7
6581.5	2.5°	6496.9	6519.4	6615.3	6564.6	6592.8	6474.3	6570.2	6491.2	6558.9	6525.1
6632.2	5°	6677.4	6626.6	6683.0	6643.5	6643.5	6688.6	6756.3	6705.6	6807.1	6762.0
6671.7	7.5°	6750.7	6756.3	6790.2	6795.8	6767.6	6908.6	6914.2	6897.3	6993.2	6970.6
6942.4	10°	6931.1	6936.8	6998.8	7032.7	7004.5	7055.2	6998.8	6953.7	6948.1	6925.5
7156.7	12.5°	7218.8	7275.2	7263.9	7292.1	7297.7	7083.4	6953.7	6733.8	6705.6	6733.8
7472.6	15°	7483.8	7461.3	7472.6	7528.9	7292.1	6948.1	6716.8	6530.7	6542.0	6547.6
7884.2	17.5°	7799.7	7816.6	7833.5	7574.1	7139.8	6733.8	6530.7	6530.7	6474.3	6496.9
8171.9	20°	8160.6	8092.9	7946.3	7579.7	6874.7	6485.6	6423.6	6423.6	6355.9	6310.8
8482.0	22.5°	8442.6	8307.2	8087.3	7404.9	6637.9	6389.7	6237.5	6130.3	6051.4	5961.1
8826.1	25°	8623.0	8549.7	8121.1	7224.4	6463.1	6136.0	5910.4	5746.8	5645.3	5526.9
9096.8	27.5°	8899.4	8758.4	8217.0	7015.7	6271.3	5882.2	5532.5	5278.7	5087.0	4962.9
9508.5	30°	9271.6	9068.6	8149.3	6716.8	5978.0	5442.3	5030.6	4703.5	4483.5	4382.0
9897.6	32.5°	9576.1	9311.1	8092.9	6446.1	5650.9	4996.7	4449.7	4117.0	3992.9	3863.2
10551.8	35°	10157.0	9632.5	8053.4	6293.9	5357.7	4551.2	3976.0	3688.3	3530.4	3338.7
10940.9	37.5°	10602.6	10190.9	7957.6	5978.0	4979.8	4117.0	3615.0	3355.6	3118.7	2915.7
11843.3	40°	11301.9	10969.1	7963.2	5532.5	4534.3	3744.7	3333.0	3062.3	2763.4	2588.6
13179.9	42.5°	12615.9	11736.1	7997.0	5177.2	4032.4	3440.2	3079.3	2757.8	2458.9	2312.3
14702.6	45°	14228.9	12790.8	7788.4	4855.7	3519.1	3152.6	2774.7	2453.3	2261.5	2154.4
16772.4	47.5°	16084.3	13822.8	7506.4	4252.3	3090.5	2848.0	2492.7	2306.6	2165.6	2103.6
19439.9	50°	18159.7	15300.4	7427.4	3699.6	2757.8	2588.6	2357.4	2216.4	2120.5	2047.2
22445.9	52.5°	20832.9	17020.5	7269.5	3130.0	2470.2	2379.9	2306.6	2210.7	2126.2	2064.1
25248.8	55°	23387.7	18926.7	7100.3	2661.9	2267.1	2278.4	2317.9	2233.3	2160.0	2064.1
28390.1	57.5°	26263.9	20872.4	6474.3	2317.9	2114.9	2227.7	2306.6	2210.7	2137.4	2064.1
31604.7	60°	28040.4	21966.5	5250.5	2019.0	1979.5	2131.8	2238.9	2137.4	2058.5	2086.7
33082.3	62.5°	28762.3	21391.2	3959.0	1832.9	1883.6	2002.1	2131.8	2092.3	2035.9	2143.1
33065.3	65°	27532.8	20065.9	2831.1	1675.0	1753.9	1872.4	2035.9	2081.0	2098.0	2306.6
30369.6	67.5°	24498.7	17471.7	2081.0	1545.3	1618.6	1793.4	2103.6	2176.9	2165.6	2425.1
25485.6	70°	19603.5	13664.9	1624.2	1438.1	1567.8	1855.4	2199.5	2199.5	2120.5	2425.1
19439.9	72.5°	14262.7	9632.5	1398.6	1314.0	1438.1	1703.2	2188.2	2182.5	2081.0	2216.4
12379.1	75°	8634.3	5605.8	1235.1	1190.0	1235.1	1460.7	2092.3	2058.5	1917.5	1906.2
5955.5	77.5°	4303.1	2819.8	1009.5	1054.6	1077.2	1223.8	1838.5	1889.3	1697.5	1652.4
2351.7	80°	1816.0	1229.4	840.3	908.0	908.0	1032.1	1528.3	1562.2	1409.9	1325.3
930.5	82.5°	829.0	705.0	716.2	789.6	738.8	800.8	1212.5	1252.0	1144.9	1003.9
394.8	85°	349.7	400.4	547.0	620.4	547.0	518.8	834.7	879.8	744.4	620.4
169.2	87.5°	157.9	219.9	344.0	451.2	276.3	242.5	445.5	462.5	372.2	276.3
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°
6468.7
6463.1
6699.9
6936.8
6925.5
6745.0
6626.6
6502.5
6243.1
5910.4
5549.4
5019.3
4438.4
3857.5
3321.8
2921.3
2605.5
2323.5
2176.9
2092.3
2058.5
2058.5
2058.5
2058.5
2064.1
2114.9
2306.6
2442.0
2374.3
2137.4
1883.6
1624.2
1297.1
981.3
626.0
259.4
0.0

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