

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: P638691

Luminaire Tested: **EPH-VN-04-E-750-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638691
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-750-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33605.5 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

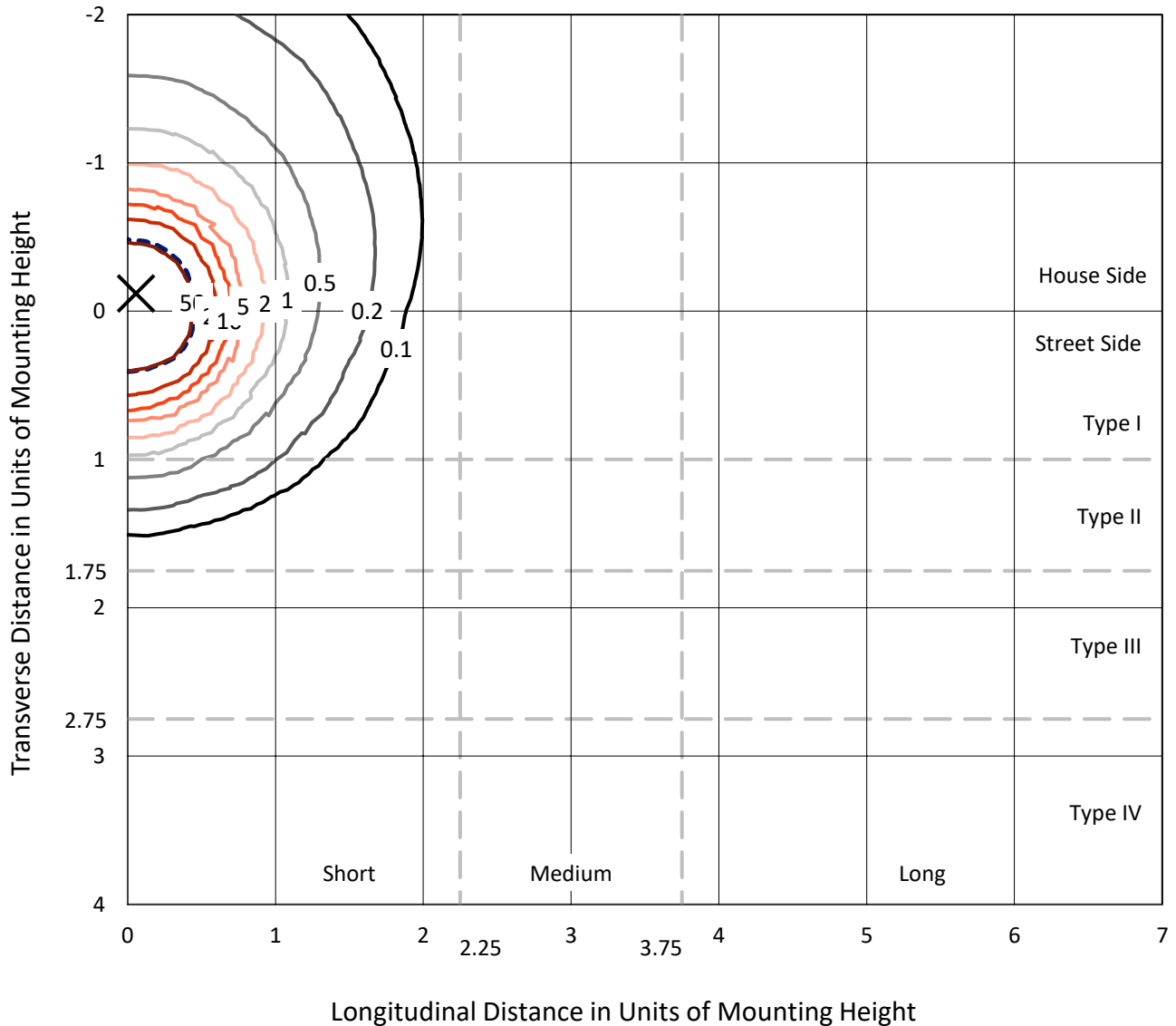
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638691
 CATALOG NUMBER: EPH-VN-04-E-750-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

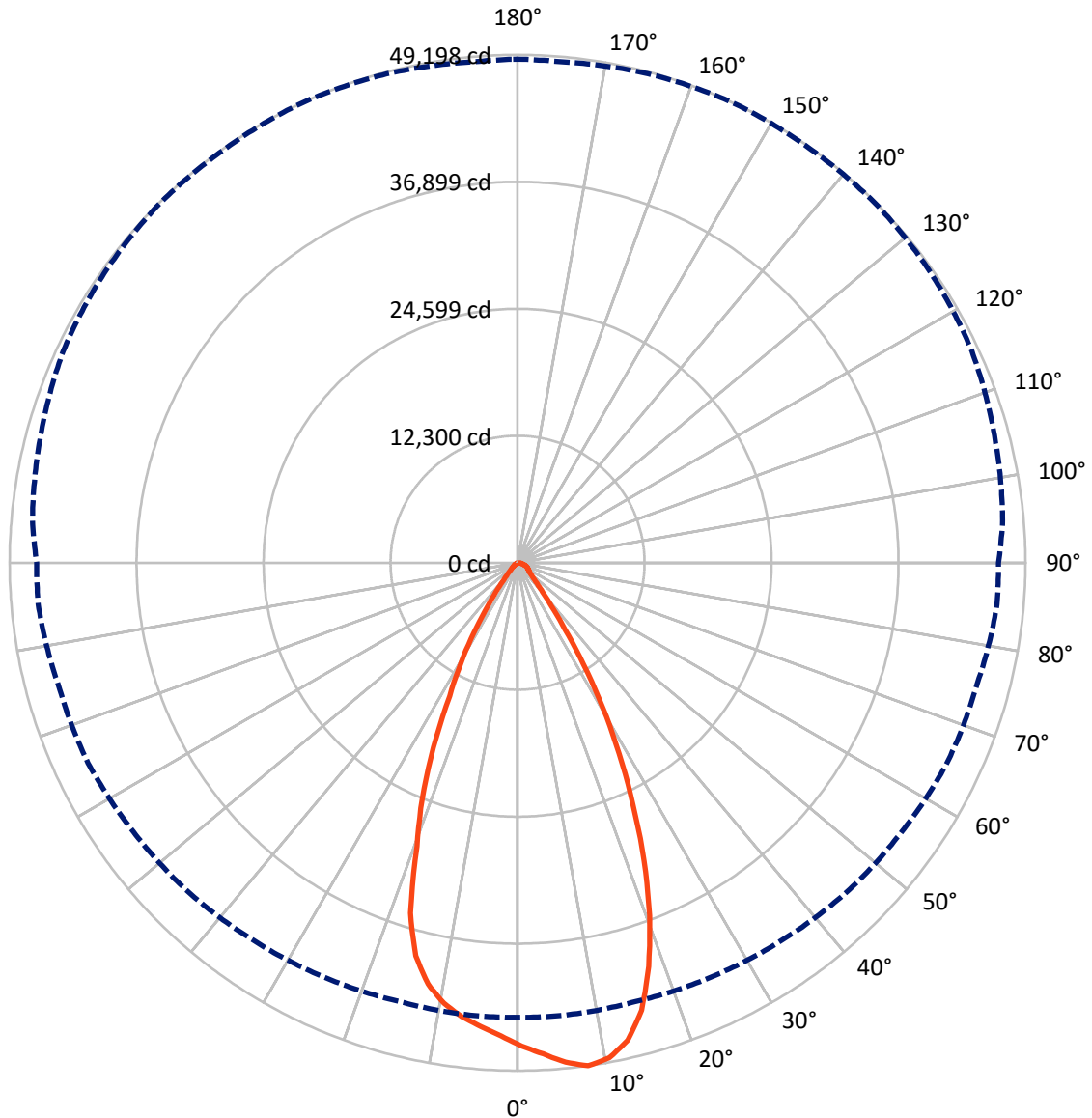
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 119 fc
 Type I - Short - N/A

REPORT NUMBER: P638691
CATALOG NUMBER: EPH-VN-04-E-750-U-55-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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 CATALOG NUMBER: EPH-VN-04-E-750-U-55-VI

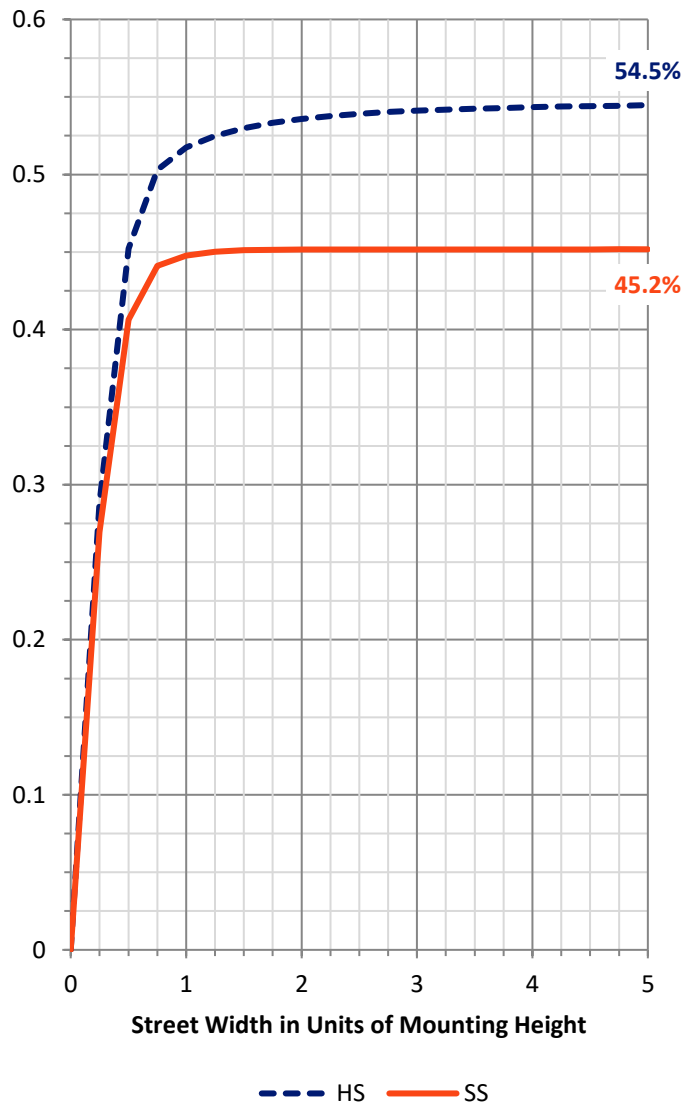
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18551.5	0.0	18551.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15054.1	0.0	15054.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	33605.5	0.0	33605.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4464.1	13.3
10°-20°	11575.5	34.4
20°-30°	10606.4	31.6
30°-40°	4285.0	12.8
40°-50°	1257.0	3.7
50°-60°	702.8	2.1
60°-70°	426.9	1.3
70°-80°	216.9	0.6
80°-90°	70.9	0.2
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°	33605.5	100.0
0°-180°	33605.5	100.0

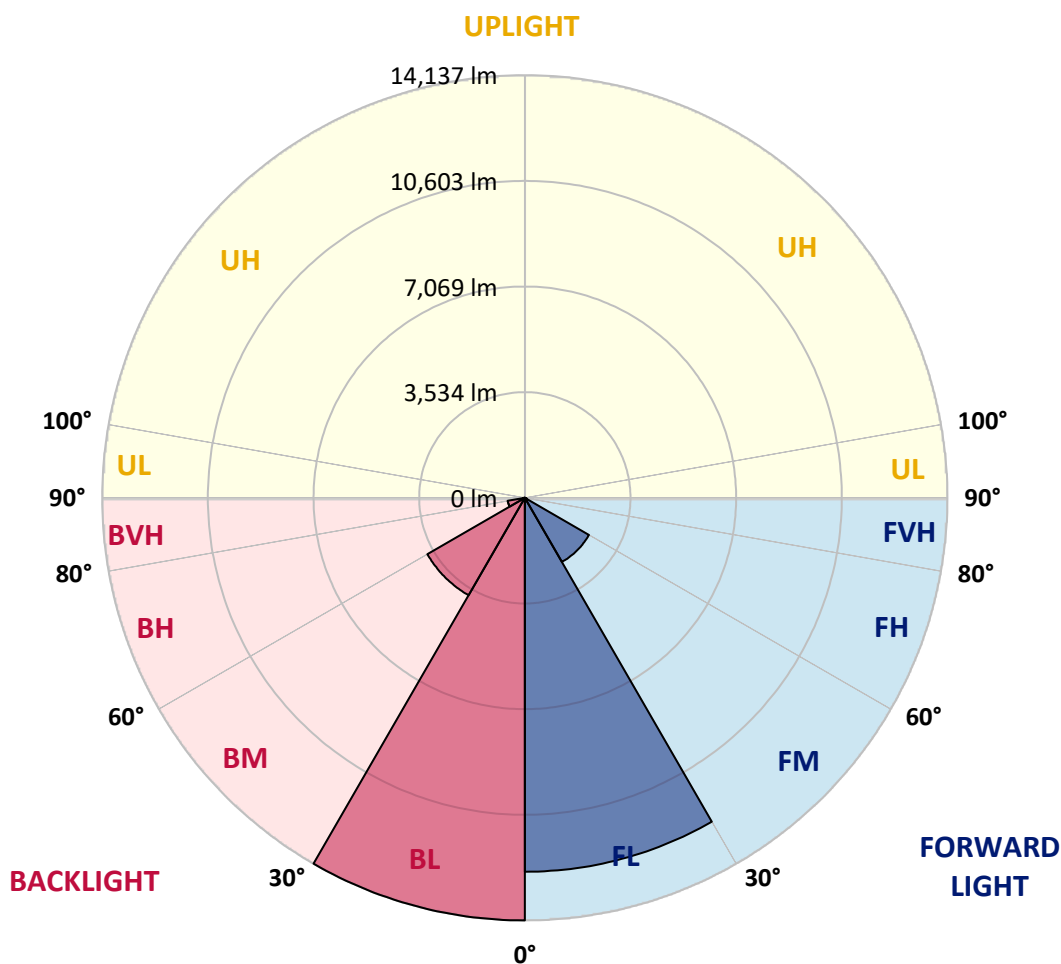


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 CATALOG NUMBER: EPH-VN-04-E-750-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12508.8	37.2			
FM (30°-60°)	2479.0	7.4			
FH (60°-80°)	60.1	0.2			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	14137.2	42.1	B5		
BM (30°-60°)	3765.8	11.2	B3/5000		
BH (60°-80°)	583.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	64.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type I Short





REPORT NUMBER: P638691
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1
2.5°	45799.8	45954.8	45644.8	45850.2	46009.0	46388.8	46419.8	46551.6	46598.1	46942.9
5°	44931.8	45051.9	44800.0	45075.1	45299.9	45637.0	45896.7	46260.9	46462.4	46869.3
7.5°	44028.9	44056.0	44005.6	44296.2	44633.4	45098.4	45420.0	45896.7	46020.7	46601.9
10°	42936.1	42738.5	42835.3	43261.6	43765.4	44478.4	44699.3	45175.9	45396.8	45989.7
12.5°	41192.3	41293.0	41172.9	41715.4	42133.9	42943.8	43176.3	43656.9	44079.2	44602.4
15°	38735.5	38677.4	38921.5	39343.9	39797.3	40440.5	40816.4	41339.5	41661.2	42203.7
17.5°	33213.5	33411.1	34418.6	35476.5	36406.5	37158.3	37607.8	38041.8	38274.3	38863.4
20°	28683.5	28435.5	28571.1	29167.9	31814.6	32965.5	33438.2	33542.8	33639.7	34104.7
22.5°	23618.7	23537.3	23990.7	24661.1	25288.9	27943.3	28586.6	28342.5	28544.0	28981.9
25°	17538.7	17949.5	18352.5	19639.0	20452.8	21754.8	22975.5	23084.0	23157.6	23432.7
27.5°	14275.9	14132.5	14124.7	14485.1	15686.4	16771.4	17810.0	18050.2	18007.6	18271.1
30°	11222.3	11175.8	11013.0	11098.3	10978.2	11943.1	12431.3	13419.5	13365.2	13373.0
32.5°	8095.1	7920.7	7854.8	7982.7	7858.7	7769.6	8195.8	9311.9	9292.5	9370.0
35°	4898.1	4874.9	4929.1	5041.5	4793.5	4785.7	4874.9	5925.0	6052.9	6176.9
37.5°	2704.8	2681.6	2724.2	3138.8	3057.5	2983.8	3007.1	3561.2	3929.3	4022.4
40°	1782.5	1778.7	1809.7	1883.3	2022.8	1995.7	2007.3	2255.3	2604.1	2685.4
42.5°	1193.5	1197.4	1216.8	1302.0	1321.4	1460.9	1437.7	1495.8	1821.3	1891.0
45°	953.3	949.4	961.0	922.3	945.5	1088.9	1104.4	1108.3	1387.3	1429.9
47.5°	751.8	751.8	763.4	713.0	701.4	790.5	871.9	883.5	1108.3	1166.4
50°	527.0	527.0	585.1	561.9	589.0	616.1	705.3	716.9	906.8	968.8
52.5°	387.5	395.3	403.0	406.9	496.0	492.1	569.6	623.9	685.9	794.4
55°	294.5	302.3	282.9	302.3	368.1	410.8	426.3	503.8	546.4	666.5
57.5°	193.8	213.1	197.6	232.5	248.0	317.8	341.0	414.6	441.8	546.4
60°	27.1	31.0	50.4	162.8	174.4	209.3	263.5	329.4	356.5	445.6
62.5°	3.9	3.9	11.6	27.1	116.3	139.5	197.6	228.6	263.5	333.3
65°	0.0	0.0	3.9	7.8	23.3	81.4	100.8	124.0	182.1	240.3
67.5°	0.0	0.0	3.9	7.8	11.6	27.1	42.6	81.4	104.6	166.6
70°	0.0	0.0	3.9	7.8	11.6	15.5	23.3	31.0	62.0	96.9
72.5°	0.0	0.0	3.9	7.8	11.6	15.5	19.4	23.3	27.1	62.0
75°	0.0	0.0	3.9	7.8	11.6	19.4	23.3	23.3	23.3	27.1
77.5°	0.0	0.0	3.9	7.8	15.5	23.3	27.1	23.3	19.4	19.4
80°	0.0	0.0	3.9	11.6	19.4	27.1	31.0	23.3	15.5	11.6
82.5°	0.0	0.0	3.9	11.6	19.4	27.1	31.0	27.1	15.5	11.6
85°	0.0	0.0	3.9	11.6	15.5	19.4	31.0	27.1	15.5	7.8
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	15.5	11.6	7.8	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638691

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
46815.1	0°	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1	46815.1
46935.2	2.5°	47283.9	47458.3	47764.5	47849.7	48113.2	47811.0	47644.3	47659.8	47299.4
46818.9	5°	47283.9	47683.1	48217.8	48473.6	48667.4	48651.9	48609.2	48500.7	48237.2
46586.4	7.5°	47159.9	47811.0	48547.2	48888.2	49120.7	49101.4	49198.2	49023.9	48702.2
46171.8	10°	46760.8	47326.6	48233.3	48512.4	48888.2	48896.0	48775.9	48810.7	48237.2
44656.6	12.5°	45505.3	45947.0	46741.4	47059.2	47516.5	47590.1	47458.3	47407.9	46865.4
42172.7	15°	43075.6	43331.3	44129.6	44447.4	44900.8	44838.8	44970.5	44916.3	44439.6
38816.9	17.5°	39522.1	39603.5	40440.5	40707.9	41134.2	41300.8	41103.2	41355.0	40944.3
34186.1	20°	34426.4	34864.3	35805.9	36216.7	36464.7	36763.1	36503.4	36786.3	36305.8
28567.2	22.5°	29257.0	29516.6	30369.1	30962.0	31423.2	31481.3	31384.4	31582.0	30934.9
23614.8	25°	23611.0	24041.1	24715.4	25490.4	25943.8	26222.8	25970.9	26098.8	25994.2
18313.7	27.5°	18623.7	19007.4	19515.0	20092.4	20774.4	21138.7	20937.2	21154.2	20642.6
13655.8	30°	13667.5	13861.2	14434.7	15047.0	15794.9	16236.7	16256.0	16476.9	16174.7
9567.6	32.5°	9637.4	9807.9	10160.5	10567.4	11280.4	11772.5	11695.0	11726.0	11540.0
6235.0	35°	6266.0	6494.7	6746.5	6940.3	7370.4	7913.0	7870.3	7831.6	7703.7
4099.9	37.5°	4189.0	4278.1	4417.6	4592.0	4871.0	5212.0	5324.4	5184.9	5130.6
2766.8	40°	2832.7	2987.7	3080.7	3212.5	3344.2	3631.0	3708.5	3681.3	3627.1
1937.5	42.5°	2011.2	2131.3	2247.6	2375.4	2445.2	2623.4	2774.6	2731.9	2708.7
1472.5	45°	1526.8	1635.3	1770.9	1867.8	1937.5	2042.2	2185.6	2201.1	2166.2
1181.9	47.5°	1224.5	1321.4	1429.9	1550.0	1631.4	1697.3	1821.3	1867.8	1844.5
995.9	50°	1038.5	1112.2	1216.8	1336.9	1426.0	1484.2	1592.7	1643.0	1627.5
833.1	52.5°	883.5	972.6	1069.5	1170.3	1278.8	1336.9	1437.7	1511.3	1499.7
689.8	55°	732.4	848.6	949.4	1050.2	1174.2	1232.3	1321.4	1418.3	1398.9
585.1	57.5°	639.4	736.3	840.9	937.8	1069.5	1147.0	1228.4	1329.2	1325.3
480.5	60°	534.8	631.6	747.9	829.3	968.8	1077.3	1150.9	1255.5	1263.3
364.3	62.5°	426.3	546.4	635.5	747.9	875.8	1003.7	1073.4	1178.0	1216.8
279.0	65°	317.8	449.5	550.3	662.6	782.8	926.1	988.1	1092.8	1131.5
201.5	67.5°	236.4	337.1	465.0	561.9	697.5	821.5	895.1	992.0	1019.2
120.1	70°	178.3	259.6	387.5	472.8	612.3	713.0	786.6	860.3	895.1
81.4	72.5°	104.6	193.8	306.1	406.9	527.0	612.3	666.5	724.6	747.9
38.8	75°	73.6	147.3	240.3	337.1	426.3	496.0	546.4	596.8	620.0
19.4	77.5°	38.8	108.5	189.9	271.3	333.3	391.4	441.8	480.5	496.0
15.5	80°	23.3	77.5	155.0	213.1	255.8	306.1	356.5	383.6	379.8
11.6	82.5°	15.5	62.0	112.4	155.0	186.0	224.8	259.6	279.0	279.0
7.8	85°	11.6	42.6	77.5	120.1	124.0	155.0	162.8	182.1	186.0
7.8	87.5°	7.8	27.1	42.6	69.8	65.9	81.4	85.3	96.9	104.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
46815.1
47008.8
48322.5
48775.9
48070.6
46741.4
44590.8
40843.5
36267.0
30845.8
25928.3
20774.4
16228.9
11644.7
7591.3
5119.0
3634.8
2689.3
2162.3
1832.9
1623.7
1491.9
1398.9
1321.4
1263.3
1212.9
1127.7
1019.2
887.4
740.1
612.3
492.1
375.9
275.1
182.1
100.8
0.0

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