

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: P638572

Luminaire Tested: **EPH-VN-06-E-735-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-735-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51900.1 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

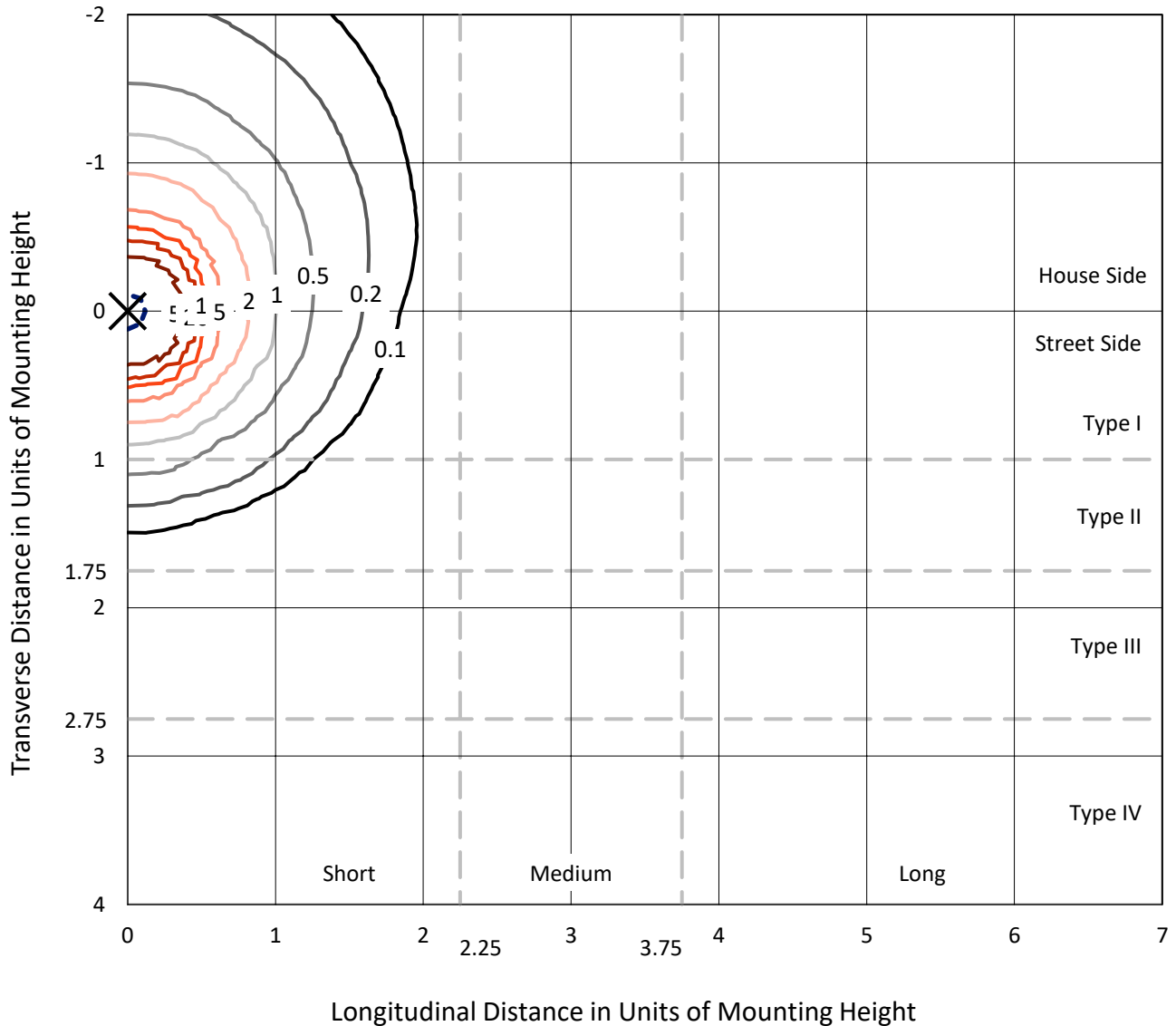
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

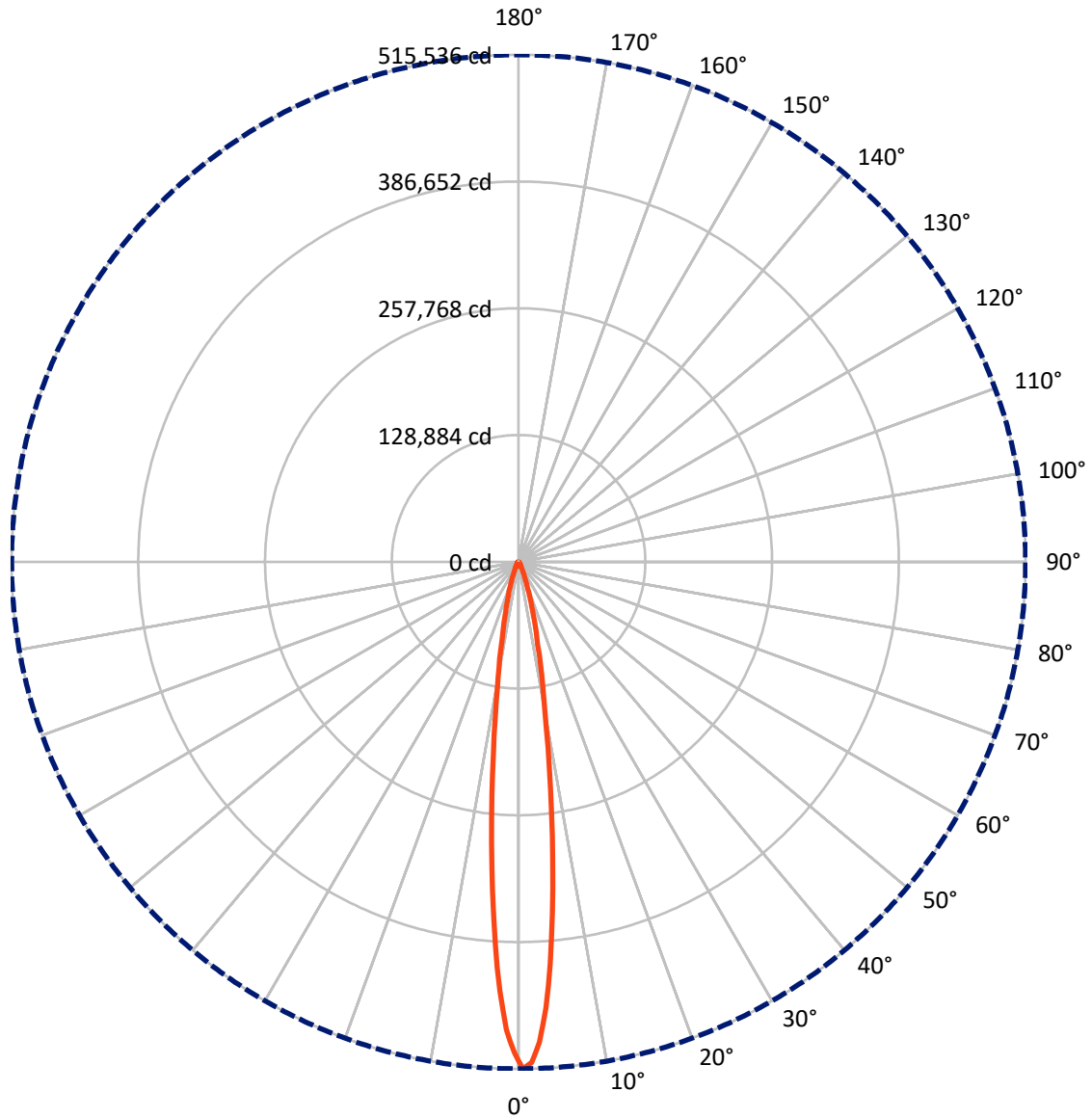
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1288.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26582.3	0.0	26582.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	25317.8	0.0	25317.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	51900.1	0.0	51900.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26200.7	50.5
10°-20°	16773.6	32.3
20°-30°	5041.8	9.7
30°-40°	1641.6	3.2
40°-50°	955.1	1.8
50°-60°	634.4	1.2
60°-70°	381.9	0.7
70°-80°	196.3	0.4
80°-90°	74.6	0.1
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°	51900.1	100.0
0°-180°	51900.1	100.0

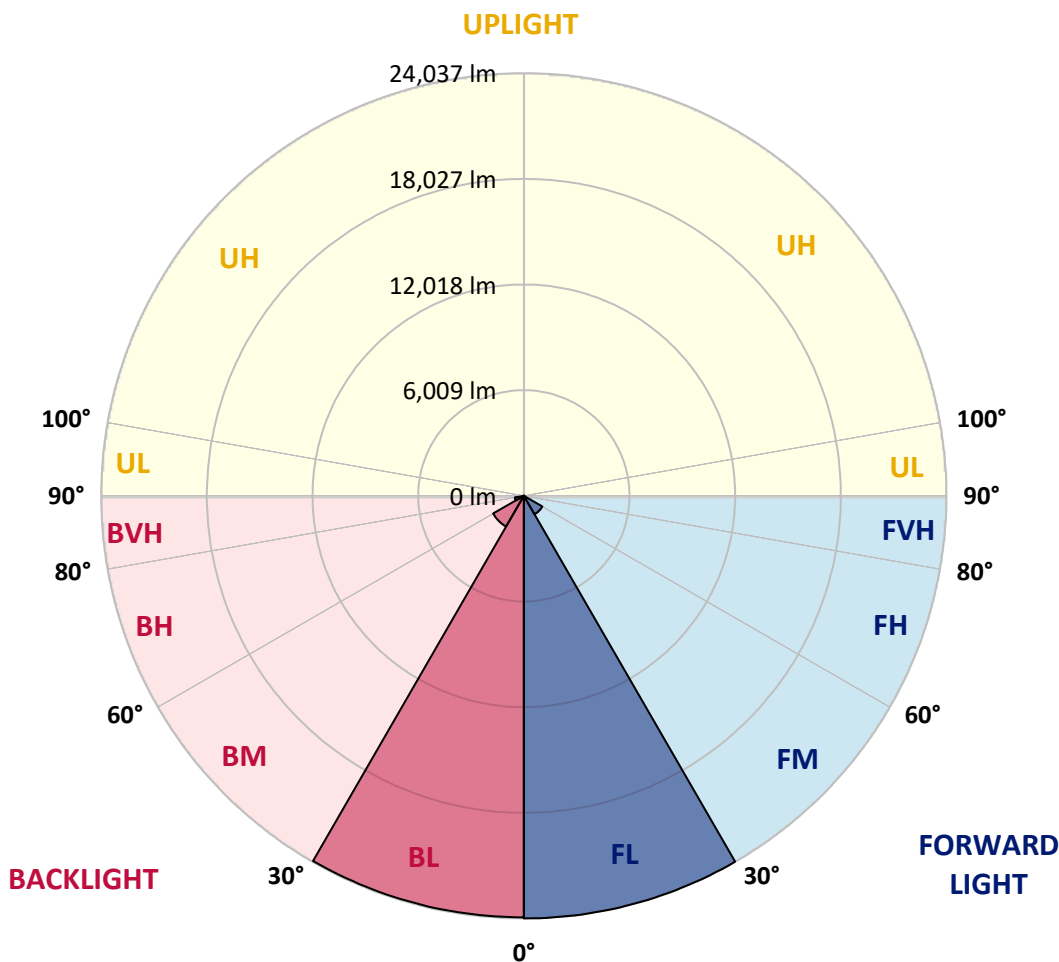


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24036.5	46.3			
FM (30°-60°)	1212.9	2.3			
FH (60°-80°)	57.1	0.1			G0/660
FVH (80°-90°)	11.3	0.0			G1/100
BL (0°-30°)	23979.6	46.2	B5		
BM (30°-60°)	2018.3	3.9	B2/2500		
BH (60°-80°)	521.1	1.0	B2/1000		G0/660
BVH (80°-90°)	63.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1
1°	509363.3	507808.8	503795.3	506649.9	509159.8	508430.6	508379.7	508108.4	507729.6	510703.0
2°	489002.1	487995.9	482060.5	484508.1	488075.0	485474.8	487102.7	485672.6	485700.9	489250.8
3°	454678.6	455226.9	445758.6	450207.3	455164.7	448861.9	450817.8	454492.1	450642.5	449483.7
4°	410067.1	405307.5	400135.3	404657.5	405940.6	402272.0	405878.4	410378.0	405030.5	405267.9
5°	359135.9	355619.9	349498.0	352290.4	349107.9	350266.7	355670.8	357524.9	353794.0	349096.6
6°	306768.9	304270.3	296616.5	300641.3	299510.7	298855.0	305677.9	300025.1	302060.1	299216.8
7°	255170.6	250501.4	246742.3	250597.5	250846.2	248873.4	257731.3	256702.5	252999.9	252140.7
8°	211412.7	206754.8	203572.3	206443.9	208320.6	205222.9	209389.0	212124.9	209230.7	209490.8
9°	170515.1	169695.4	165269.3	169022.7	171063.4	167745.2	172357.9	173347.1	170639.4	171956.5
10°	140007.2	139051.9	135518.9	137039.5	140419.9	136462.9	140889.0	141211.2	139051.9	139668.0
12.5°	86520.9	86136.5	86040.4	86260.9	86215.7	86916.6	88047.2	86758.3	86588.8	84457.7
15°	55922.6	56493.5	55905.7	57036.2	57200.1	57861.5	57171.9	56131.8	54147.7	53164.1
17.5°	34900.1	35629.3	36635.4	38291.7	39948.0	40140.1	39224.4	38003.4	37042.4	35991.0
20°	20078.6	20434.7	20282.1	22266.2	26550.9	27715.4	26534.0	25250.8	24092.0	23029.3
22.5°	12475.6	12345.6	12583.0	13250.0	14646.3	18247.1	17280.4	15997.3	15155.0	14278.8
25°	7648.2	7789.5	7699.0	8066.5	8693.9	10220.2	10440.6	9886.7	9457.0	9004.8
27.5°	4923.5	4923.5	4963.1	5166.6	5596.2	5545.3	6721.1	6291.5	6059.7	5839.3
30°	3419.9	3431.2	3431.2	3549.9	3646.0	3476.4	3781.7	4335.7	4228.3	4058.7
32.5°	2538.1	2572.0	2600.3	2662.4	2583.3	2402.4	2475.9	3120.3	3058.1	2996.0
35°	1933.2	1961.5	2029.3	2063.3	1950.2	1837.1	1769.3	2295.0	2323.3	2306.3
37.5°	1407.5	1424.5	1548.9	1678.9	1548.9	1447.1	1407.5	1763.7	1899.3	1882.4
40°	1079.7	1085.3	1107.9	1254.9	1254.9	1175.8	1187.1	1317.1	1554.5	1554.5
42.5°	927.1	927.1	949.7	927.1	932.7	1017.5	1045.8	1062.7	1317.1	1317.1
45°	802.7	802.7	814.0	757.5	700.9	876.2	898.8	904.4	1107.9	1136.2
47.5°	672.7	672.7	695.3	621.8	593.5	695.3	757.5	774.4	955.3	977.9
50°	497.4	503.1	570.9	508.7	525.7	537.0	655.7	667.0	808.3	859.2
52.5°	333.5	333.5	344.8	395.7	457.9	440.9	531.4	570.9	644.4	712.2
55°	271.3	271.3	265.7	254.4	339.2	367.4	390.0	474.8	525.7	610.5
57.5°	186.5	197.8	180.9	209.2	220.5	277.0	293.9	373.1	401.3	514.4
60°	22.6	28.3	39.6	152.6	147.0	186.5	220.5	293.9	327.9	395.7
62.5°	5.7	5.7	11.3	28.3	101.7	124.4	175.2	203.5	237.4	305.2
65°	0.0	0.0	5.7	11.3	22.6	67.8	90.4	118.7	169.6	214.8
67.5°	0.0	0.0	5.7	11.3	11.3	28.3	45.2	73.5	90.4	158.3
70°	0.0	0.0	5.7	11.3	11.3	22.6	28.3	33.9	62.2	84.8
72.5°	0.0	0.0	5.7	11.3	17.0	22.6	28.3	28.3	28.3	56.5
75°	0.0	0.0	5.7	11.3	17.0	22.6	28.3	28.3	22.6	22.6
77.5°	0.0	0.0	5.7	11.3	22.6	28.3	33.9	28.3	17.0	17.0
80°	0.0	0.0	5.7	17.0	28.3	39.6	45.2	33.9	17.0	11.3
82.5°	0.0	0.0	11.3	22.6	33.9	45.2	62.2	50.9	22.6	11.3
85°	0.0	0.0	5.7	17.0	33.9	45.2	90.4	62.2	28.3	5.7
87.5°	0.0	0.0	0.0	5.7	5.7	11.3	33.9	22.6	11.3	5.7
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):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
515536.1	0°	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1	515536.1
507271.7	1°	510816.0	511172.1	510007.7	511810.9	511177.8	507469.6	506242.9	504790.2
487164.9	2°	485672.6	487487.1	487577.6	489578.7	489550.4	485226.0	483886.3	486356.6
451835.3	3°	450467.3	452581.4	450676.5	454232.0	453163.7	447917.9	446555.6	449359.4
407144.7	4°	405929.3	405528.0	404872.3	402848.6	405341.4	401763.2	399066.9	402871.2
355325.9	5°	354613.7	353720.6	352443.0	351843.9	353698.0	351408.6	345863.2	351419.9
304360.8	6°	304733.9	300890.0	300703.5	300369.9	300556.5	294146.3	294530.7	298668.5
249184.3	7°	251818.5	252525.1	251083.7	253395.6	251632.0	247290.7	245617.5	249975.7
210632.6	8°	209162.9	208269.8	207167.5	210621.3	207563.2	204714.2	202764.0	206206.5
172171.3	9°	171849.1	170305.9	169186.7	169011.4	169486.3	164138.8	165224.1	167830.0
140007.2	10°	140058.1	137525.7	138141.8	138305.7	137785.7	134281.0	134314.9	135213.7
85870.9	12.5°	85565.6	84322.0	84632.9	84802.5	85859.6	84627.3	82886.2	81631.3
54142.0	15°	53780.2	52887.1	54712.9	55939.6	55690.9	54594.2	53774.6	52638.4
35991.0	17.5°	35657.5	36827.6	36833.3	37952.5	38065.6	36969.0	36335.8	35312.7
23408.0	20°	23323.2	23809.4	24821.2	25612.6	26070.5	25233.9	24476.4	23775.4
14595.4	22.5°	14595.4	15443.3	16076.4	17105.2	17523.5	16913.0	16376.0	15805.1
9112.2	25°	8959.6	9564.4	10090.2	10983.3	11554.2	11260.3	10768.5	10367.1
5884.5	27.5°	5975.0	6229.3	6489.4	7105.5	7699.0	7535.1	7337.3	7094.2
4149.1	30°	4211.3	4233.9	4510.9	4855.7	5251.4	5353.2	5262.7	5138.3
3046.8	32.5°	3103.4	3193.8	3323.8	3538.6	3804.3	4047.4	4002.1	3945.6
2328.9	35°	2396.8	2532.4	2639.8	2803.8	2945.1	3176.8	3216.4	3199.5
1916.3	37.5°	1955.9	2074.6	2182.0	2278.1	2396.8	2555.0	2679.4	2685.1
1582.8	40°	1622.3	1729.7	1871.1	1944.5	2029.3	2148.0	2300.7	2312.0
1339.7	42.5°	1368.0	1469.7	1611.0	1701.5	1763.7	1876.7	2029.3	2051.9
1147.5	45°	1175.8	1238.0	1384.9	1492.3	1554.5	1628.0	1791.9	1814.5
989.2	47.5°	1023.1	1085.3	1175.8	1328.4	1384.9	1452.8	1582.8	1622.3
876.2	50°	898.8	961.0	1040.1	1175.8	1260.6	1317.1	1424.5	1481.0
763.1	52.5°	797.0	859.2	944.0	1051.4	1147.5	1198.4	1300.1	1373.6
621.8	55°	667.0	774.4	836.6	932.7	1062.7	1107.9	1187.1	1283.2
542.7	57.5°	582.2	672.7	763.1	842.3	972.3	1028.8	1107.9	1198.4
429.6	60°	491.8	576.6	684.0	751.8	876.2	949.7	1034.5	1119.2
327.9	62.5°	390.0	503.1	576.6	672.7	791.4	887.5	955.3	1040.1
254.4	65°	288.3	412.7	497.4	599.2	712.2	814.0	870.5	961.0
180.9	67.5°	209.2	322.2	424.0	520.1	627.5	729.2	785.7	864.9
113.1	70°	163.9	237.4	350.5	435.3	548.3	633.1	695.3	746.2
73.5	72.5°	96.1	180.9	282.6	378.7	480.5	537.0	582.2	627.5
33.9	75°	62.2	141.3	231.8	316.6	390.0	440.9	480.5	520.1
17.0	77.5°	39.6	101.7	186.5	265.7	299.6	361.8	395.7	418.3
11.3	80°	22.6	79.1	163.9	214.8	243.1	282.6	316.6	344.8
11.3	82.5°	17.0	67.8	135.7	180.9	180.9	226.1	243.1	243.1
5.7	85°	11.3	56.5	107.4	169.6	135.7	169.6	158.3	158.3
5.7	87.5°	11.3	39.6	50.9	73.5	62.2	73.5	73.5	84.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
515536.1
499035.7
475893.4
436906.4
389101.1
336779.3
286673.3
238121.9
196376.4
159690.1
129097.4
80868.2
52056.1
35058.3
23532.4
15499.8
10135.4
6952.9
5053.6
3900.4
3142.9
2645.5
2295.0
2035.0
1808.9
1628.0
1486.7
1373.6
1288.8
1204.0
1141.9
1079.7
977.9
870.5
763.1
638.8
520.1
407.0
310.9
226.1
152.6
84.8
0.0

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