

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: P638679

Luminaire Tested: **EPH-VN-04-E-735-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638679  
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-735-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32403.1 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

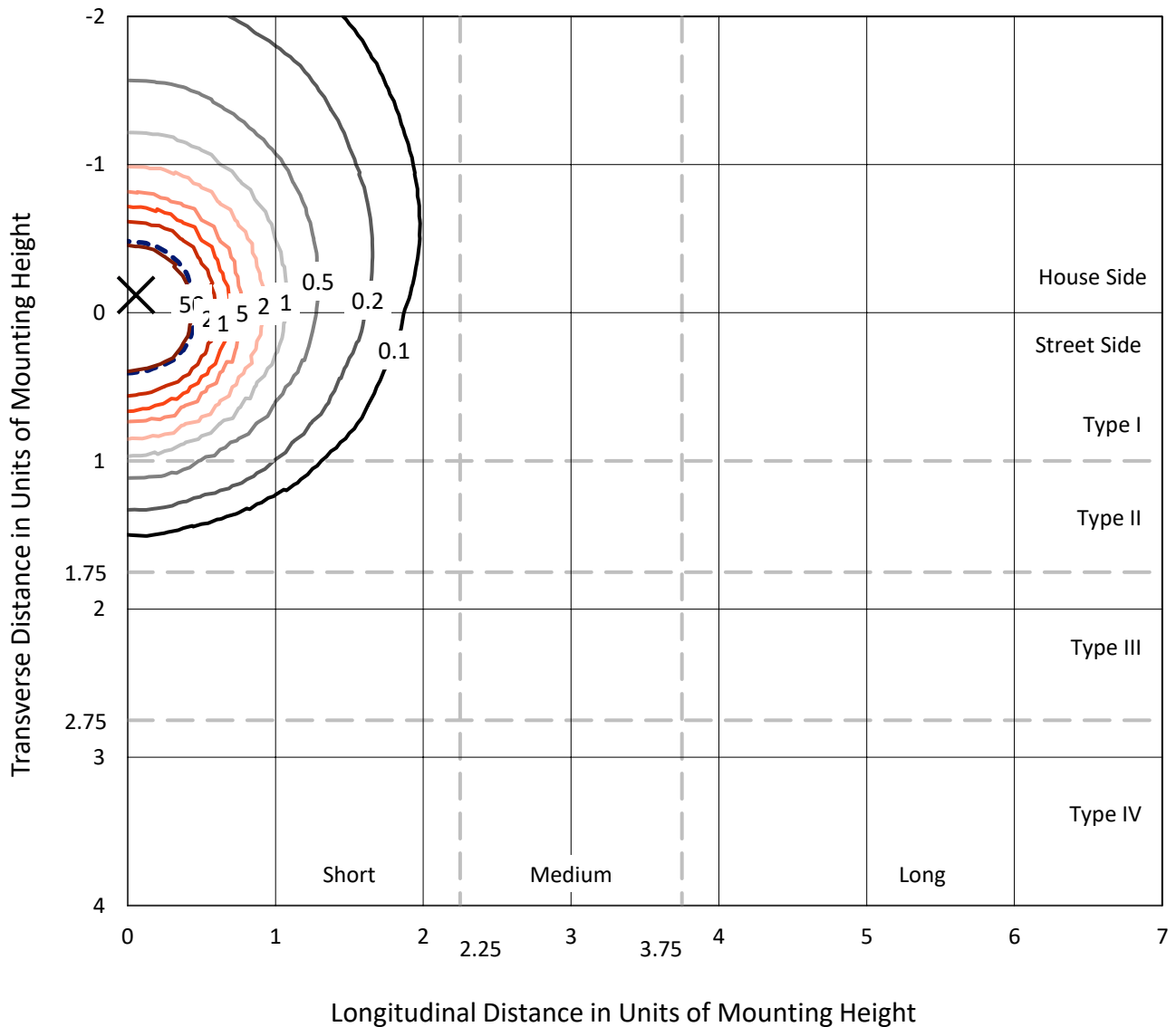
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

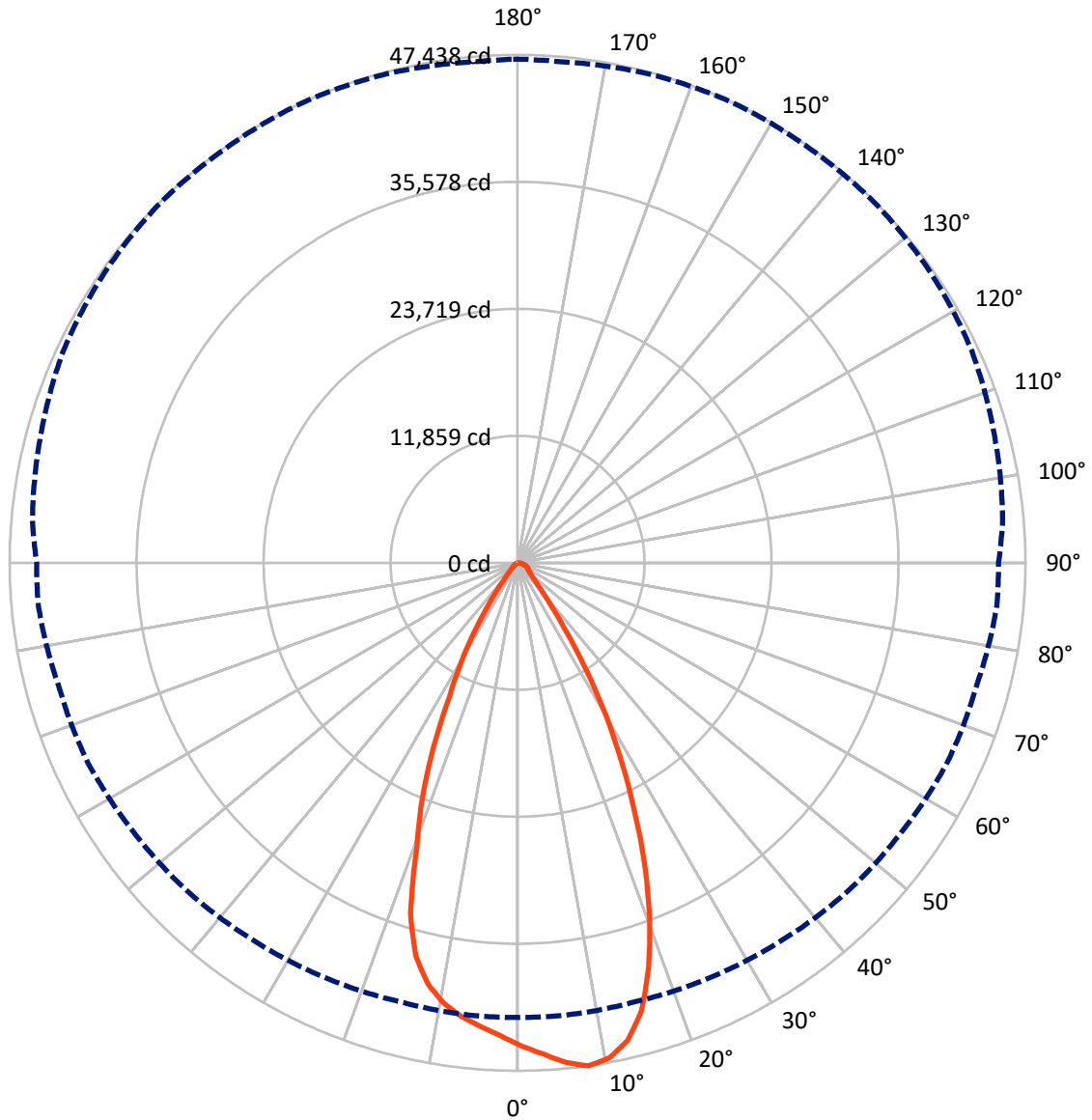
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 114.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17887.7	0.0	17887.7
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	14515.4	0.0	14515.4
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	32403.1	0.0	32403.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4304.4	13.3
10°-20°	11161.3	34.4
20°-30°	10226.9	31.6
30°-40°	4131.7	12.8
40°-50°	1212.0	3.7
50°-60°	677.7	2.1
60°-70°	411.6	1.3
70°-80°	209.1	0.6
80°-90°	68.4	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°	32403.1	100.0
0°-180°	32403.1	100.0



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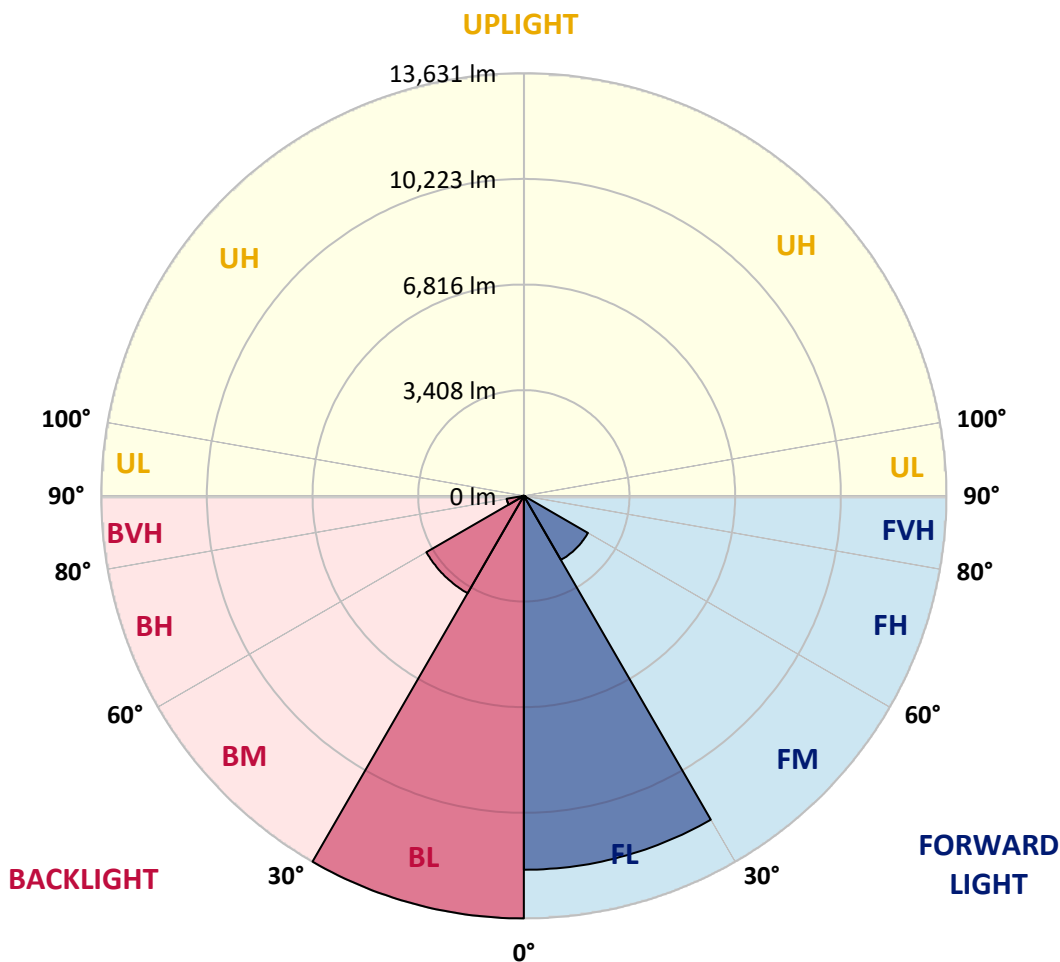
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12061.2	37.2			
FM (30°-60°)	2390.3	7.4			
FH (60°-80°)	57.9	0.2			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	13631.3	42.1	B5		
BM (30°-60°)	3631.0	11.2	B3/5000		
BH (60°-80°)	562.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	62.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0
2.5°	44161.0	44310.5	44011.6	44209.6	44362.8	44729.0	44758.9	44885.9	44930.7	45263.3
5°	43324.1	43439.9	43197.0	43462.3	43679.0	44004.1	44254.4	44605.7	44800.0	45192.3
7.5°	42453.5	42479.6	42431.1	42711.3	43036.4	43484.7	43794.9	44254.4	44374.0	44934.5
10°	41399.8	41209.2	41302.7	41713.7	42199.4	42886.9	43099.9	43559.5	43772.4	44344.1
12.5°	39718.4	39815.6	39699.7	40222.8	40626.4	41407.3	41631.5	42094.8	42502.1	43006.5
15°	37349.5	37293.5	37528.8	37936.1	38373.3	38993.5	39356.0	39860.4	40170.5	40693.6
17.5°	32025.1	32215.6	33187.1	34207.2	35103.9	35828.8	36262.2	36680.7	36904.9	37472.8
20°	27657.2	27418.0	27548.8	28124.2	30676.2	31785.9	32241.8	32342.7	32436.1	32884.4
22.5°	22773.6	22695.2	23132.3	23778.7	24384.0	26943.5	27563.8	27328.4	27522.7	27944.9
25°	16911.1	17307.2	17695.8	18936.3	19721.0	20976.4	22153.4	22258.0	22329.0	22594.3
27.5°	13765.1	13626.8	13619.3	13966.8	15125.1	16171.3	17172.7	17404.4	17363.3	17617.3
30°	10820.7	10775.9	10619.0	10701.2	10585.3	11515.7	11986.5	12939.3	12887.0	12894.5
32.5°	7805.4	7637.3	7573.8	7697.1	7577.5	7491.6	7902.6	8978.7	8960.0	9034.7
35°	4722.9	4700.4	4752.8	4861.1	4622.0	4614.5	4700.4	5713.0	5836.3	5955.9
37.5°	2608.0	2585.6	2626.7	3026.5	2948.1	2877.1	2899.5	3433.8	3788.8	3878.4
40°	1718.8	1715.0	1744.9	1815.9	1950.4	1924.3	1935.5	2174.6	2510.9	2589.4
42.5°	1150.8	1154.6	1173.2	1255.4	1274.1	1408.6	1386.2	1442.3	1756.1	1823.4
45°	919.2	915.4	926.6	889.3	911.7	1049.9	1064.9	1068.6	1337.6	1378.7
47.5°	724.9	724.9	736.1	687.5	676.3	762.2	840.7	851.9	1068.6	1124.7
50°	508.2	508.2	564.2	541.8	567.9	594.1	680.0	691.2	874.3	934.1
52.5°	373.6	381.1	388.6	392.3	478.3	474.5	549.3	601.6	661.4	766.0
55°	284.0	291.4	272.8	291.4	355.0	396.1	411.0	485.7	526.8	642.7
57.5°	186.8	205.5	190.6	224.2	239.1	306.4	328.8	399.8	426.0	526.8
60°	26.2	29.9	48.6	156.9	168.1	201.8	254.1	317.6	343.8	429.7
62.5°	3.7	3.7	11.2	26.2	112.1	134.5	190.6	220.5	254.1	321.3
65°	0.0	0.0	3.7	7.5	22.4	78.5	97.1	119.6	175.6	231.7
67.5°	0.0	0.0	3.7	7.5	11.2	26.2	41.1	78.5	100.9	160.7
70°	0.0	0.0	3.7	7.5	11.2	14.9	22.4	29.9	59.8	93.4
72.5°	0.0	0.0	3.7	7.5	11.2	14.9	18.7	22.4	26.2	59.8
75°	0.0	0.0	3.7	7.5	11.2	18.7	22.4	22.4	22.4	26.2
77.5°	0.0	0.0	3.7	7.5	14.9	22.4	26.2	22.4	18.7	18.7
80°	0.0	0.0	3.7	11.2	18.7	26.2	29.9	22.4	14.9	11.2
82.5°	0.0	0.0	3.7	11.2	18.7	26.2	29.9	26.2	14.9	11.2
85°	0.0	0.0	3.7	11.2	14.9	18.7	29.9	26.2	14.9	7.5
87.5°	0.0	0.0	0.0	3.7	3.7	7.5	14.9	11.2	7.5	3.7
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°
45140.0	0°	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0	45140.0
45255.8	2.5°	45592.1	45760.2	46055.4	46137.6	46391.7	46100.3	45939.6	45954.5	45607.0
45143.7	5°	45592.1	45977.0	46492.6	46739.2	46926.0	46911.1	46870.0	46765.3	46511.3
44919.5	7.5°	45472.5	46100.3	46810.2	47139.0	47363.2	47344.5	47437.9	47269.8	46959.6
44519.7	10°	45087.7	45633.2	46507.5	46776.5	47139.0	47146.5	47030.6	47064.3	46511.3
43058.8	12.5°	43877.1	44303.0	45069.0	45375.4	45816.3	45887.3	45760.2	45711.7	45188.6
40663.7	15°	41534.3	41780.9	42550.6	42857.0	43294.2	43234.4	43361.4	43309.1	42849.5
37428.0	17.5°	38108.0	38186.5	38993.5	39251.4	39662.4	39823.0	39632.5	39875.3	39479.3
32962.9	20°	33194.6	33616.8	34524.7	34920.8	35159.9	35447.6	35197.3	35470.1	35006.7
27545.1	22.5°	28210.2	28460.5	29282.5	29854.2	30298.8	30354.9	30261.5	30452.0	29828.0
22769.9	25°	22766.2	23180.9	23831.0	24578.3	25015.5	25284.5	25041.7	25165.0	25064.1
17658.4	27.5°	17957.4	18327.3	18816.7	19373.5	20031.1	20382.3	20188.0	20397.3	19904.0
13167.2	30°	13178.4	13365.3	13918.3	14508.6	15229.7	15655.7	15674.4	15887.4	15595.9
9225.3	32.5°	9292.5	9456.9	9797.0	10189.3	10876.8	11351.3	11276.6	11306.5	11127.1
6011.9	35°	6041.8	6262.3	6505.2	6692.0	7106.7	7629.8	7588.7	7551.4	7428.1
3953.2	37.5°	4039.1	4125.0	4259.5	4427.7	4696.7	5025.5	5133.9	4999.4	4947.1
2667.8	40°	2731.3	2880.8	2970.5	3097.5	3224.6	3501.0	3575.8	3549.6	3497.3
1868.2	42.5°	1939.2	2055.0	2167.1	2290.4	2357.7	2529.6	2675.3	2634.2	2611.8
1419.8	45°	1472.2	1576.8	1707.6	1801.0	1868.2	1969.1	2107.4	2122.3	2088.7
1139.6	47.5°	1180.7	1274.1	1378.7	1494.6	1573.0	1636.6	1756.1	1801.0	1778.5
960.3	50°	1001.4	1072.4	1173.2	1289.1	1375.0	1431.1	1535.7	1584.3	1569.3
803.3	52.5°	851.9	937.8	1031.3	1128.4	1233.0	1289.1	1386.2	1457.2	1446.0
665.1	55°	706.2	818.3	915.4	1012.6	1132.1	1188.2	1274.1	1367.5	1348.9
564.2	57.5°	616.5	709.9	810.8	904.2	1031.3	1106.0	1184.5	1281.6	1277.9
463.3	60°	515.6	609.0	721.1	799.6	934.1	1038.7	1109.7	1210.6	1218.1
351.2	62.5°	411.0	526.8	612.8	721.1	844.4	967.7	1035.0	1135.9	1173.2
269.0	65°	306.4	433.4	530.6	638.9	754.8	893.0	952.8	1053.7	1091.0
194.3	67.5°	227.9	325.1	448.4	541.8	672.6	792.1	863.1	956.5	982.7
115.8	70°	171.9	250.3	373.6	455.8	590.4	687.5	758.5	829.5	863.1
78.5	72.5°	100.9	186.8	295.2	392.3	508.2	590.4	642.7	698.7	721.1
37.4	75°	71.0	142.0	231.7	325.1	411.0	478.3	526.8	575.4	597.8
18.7	77.5°	37.4	104.6	183.1	261.6	321.3	377.4	426.0	463.3	478.3
14.9	80°	22.4	74.7	149.5	205.5	246.6	295.2	343.8	369.9	366.2
11.2	82.5°	14.9	59.8	108.4	149.5	179.3	216.7	250.3	269.0	269.0
7.5	85°	11.2	41.1	74.7	115.8	119.6	149.5	156.9	175.6	179.3
7.5	87.5°	7.5	26.2	41.1	67.3	63.5	78.5	82.2	93.4	100.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
45140.0
45326.8
46593.5
47030.6
46350.6
45069.0
42995.3
39382.1
34969.4
29742.1
25000.6
20031.1
15648.2
11228.0
7319.7
4935.8
3504.8
2593.1
2084.9
1767.3
1565.6
1438.5
1348.9
1274.1
1218.1
1169.5
1087.3
982.7
855.6
713.7
590.4
474.5
362.4
265.3
175.6
97.1
0.0

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