

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: P638626

Luminaire Tested: **EPH-VN-06-E-735-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638626
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-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50334.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

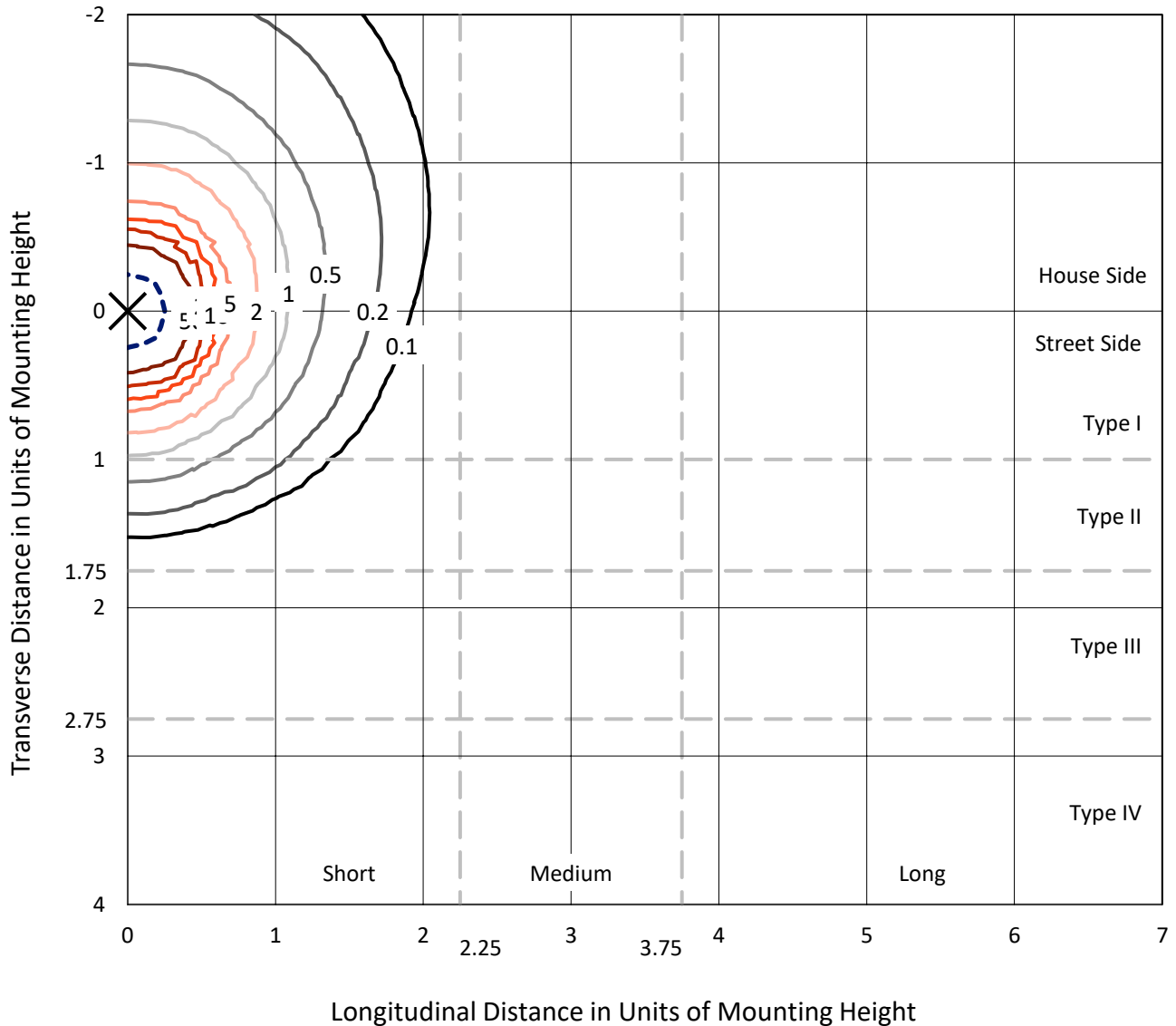
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

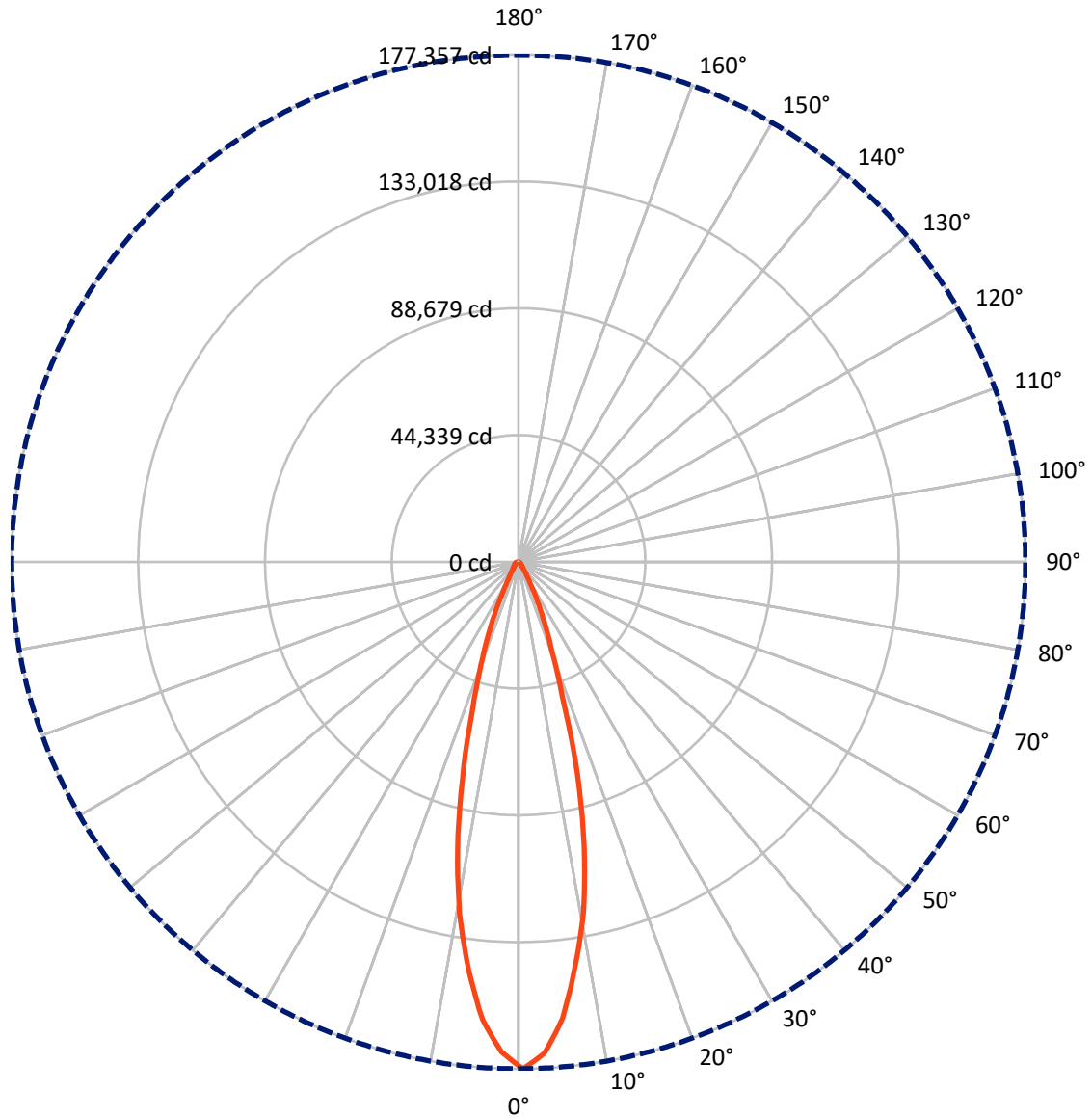
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 443.4 fc
 Type V - Short - N/A

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CATALOG NUMBER: EPH-VN-06-E-735-U-44-VI

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	26539.7	0.0	26539.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	23794.8	0.0	23794.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	50334.5	0.0	50334.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14314.3	28.4
10°-20°	21678.9	43.1
20°-30°	9148.6	18.2
30°-40°	2386.0	4.7
40°-50°	1206.8	2.4
50°-60°	788.8	1.6
60°-70°	472.6	0.9
70°-80°	248.6	0.5
80°-90°	89.8	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°	50334.5	100.0
0°-180°	50334.5	100.0

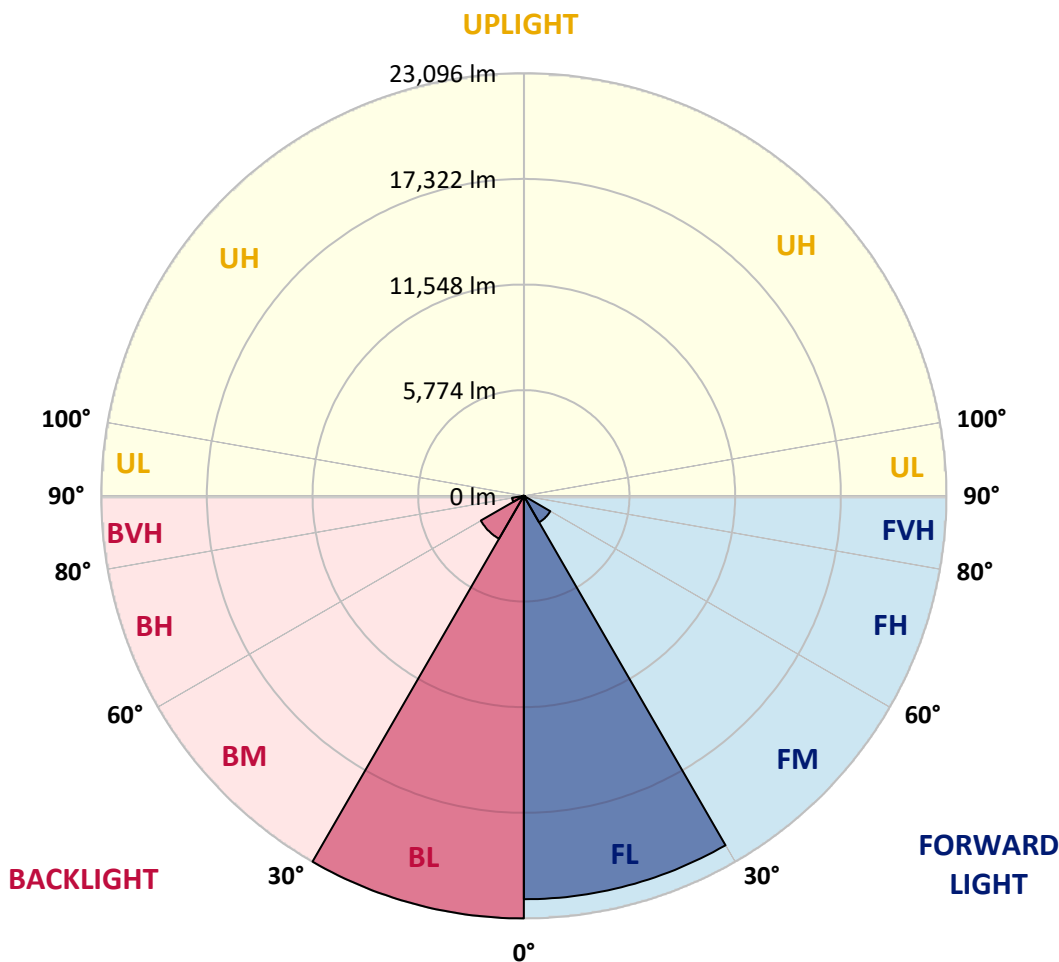


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22046.2	43.8			
FM (30°-60°)	1669.6	3.3			
FH (60°-80°)	68.0	0.1			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	23095.6	45.9	B5		
BM (30°-60°)	2712.1	5.4	B3/5000		
BH (60°-80°)	653.2	1.3	B2/1000		G0/660
BVH (80°-90°)	78.9	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0
2.5°	172190.5	172286.6	171930.5	172699.3	172100.1	173705.4	172908.4	174152.0	173733.7	174429.0
5°	160433.0	160274.8	160173.0	161365.7	161020.9	162745.0	161642.7	161280.9	162400.2	162196.7
7.5°	142678.1	143096.4	142859.0	143169.9	143345.1	145312.2	145934.0	145447.9	145464.9	145747.5
10°	124476.6	123860.5	122984.3	123566.6	124798.8	125658.0	125313.2	126025.5	125867.2	126539.8
12.5°	102080.9	102567.0	102075.3	101555.2	103708.9	103471.5	104070.6	104460.7	103482.8	105659.0
15°	76892.8	77147.1	77746.3	77706.7	79363.0	79696.5	79617.3	80030.0	79266.9	79628.6
17.5°	49398.4	50257.6	51868.6	54593.1	57656.9	58013.0	57922.5	57583.4	57216.0	56809.0
20°	33181.0	33090.5	33672.7	34469.8	40812.0	42490.8	42440.0	41377.3	39839.8	39545.8
22.5°	23243.6	23413.2	23334.1	24125.4	25436.8	30066.4	29495.4	28415.8	27912.7	27584.9
25°	15290.4	15228.2	15623.9	15861.3	16986.2	17551.4	19552.5	19151.1	18376.7	18461.5
27.5°	9321.2	9400.3	9547.3	9750.8	10547.8	10366.9	11508.8	11661.4	11412.7	11147.0
30°	5720.5	5777.0	5895.7	6042.7	6319.6	6121.8	6438.3	6986.7	6896.2	6709.7
32.5°	3883.4	3889.0	3973.8	4030.3	3996.4	3809.9	3911.6	4431.7	4443.0	4426.0
35°	2792.4	2792.4	2871.5	2916.8	2820.7	2668.0	2685.0	3007.2	3148.5	3176.8
37.5°	1927.5	1933.2	2068.9	2204.5	2097.1	2057.6	1989.7	2204.5	2430.6	2464.5
40°	1464.0	1458.4	1526.2	1628.0	1639.3	1565.8	1588.4	1724.1	1955.8	1984.1
42.5°	1187.1	1192.7	1226.6	1215.3	1221.0	1317.1	1351.0	1413.2	1628.0	1678.8
45°	1000.5	1006.2	1023.1	966.6	944.0	1091.0	1136.2	1170.1	1351.0	1413.2
47.5°	825.3	836.6	853.5	791.4	780.1	876.2	955.3	989.2	1147.5	1215.3
50°	593.5	604.8	667.0	633.1	667.0	689.6	797.0	847.9	955.3	1045.7
52.5°	429.6	440.9	457.9	463.5	548.3	559.6	638.7	717.9	768.8	870.5
55°	339.2	350.5	339.2	327.9	401.3	463.5	491.8	576.6	616.1	734.8
57.5°	192.2	203.5	220.5	254.4	265.7	356.1	384.4	457.9	491.8	604.8
60°	33.9	39.6	62.2	152.6	186.5	226.1	288.3	350.5	395.7	474.8
62.5°	5.7	5.7	11.3	33.9	107.4	158.3	209.1	248.7	288.3	361.8
65°	0.0	0.0	5.7	11.3	28.3	90.4	113.1	147.0	197.8	260.0
67.5°	0.0	0.0	5.7	11.3	17.0	33.9	50.9	90.4	113.1	175.2
70°	0.0	0.0	5.7	11.3	17.0	22.6	28.3	39.6	67.8	107.4
72.5°	0.0	0.0	5.7	11.3	17.0	22.6	28.3	33.9	33.9	67.8
75°	0.0	0.0	5.7	11.3	17.0	28.3	33.9	33.9	28.3	28.3
77.5°	0.0	0.0	5.7	11.3	22.6	33.9	39.6	33.9	22.6	22.6
80°	0.0	0.0	11.3	17.0	28.3	39.6	50.9	39.6	22.6	11.3
82.5°	0.0	0.0	11.3	22.6	28.3	45.2	62.2	50.9	22.6	11.3
85°	0.0	0.0	5.7	17.0	33.9	45.2	62.2	45.2	22.6	5.7
87.5°	0.0	0.0	5.7	5.7	11.3	17.0	33.9	28.3	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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CATALOG NUMBER: EPH-VN-06-E-735-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
177357.0	0°	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0	177357.0
173111.9	2.5°	174106.8	175011.2	175197.7	174949.0	175310.8	174660.7	174163.3	172874.5	172100.1
162134.5	5°	163180.2	163044.6	163988.5	164299.4	164259.9	163762.4	163067.2	162287.1	161529.6
145199.2	7.5°	146103.6	146278.8	147138.0	147686.3	147409.4	146787.6	146307.1	145719.2	145210.5
126782.9	10°	127941.7	126737.7	127806.0	127806.0	128546.5	126788.6	126952.5	125471.5	125539.3
105619.5	12.5°	105981.2	106416.5	106591.7	107094.8	106229.9	105297.3	104155.4	103929.3	103222.7
78939.0	15°	80075.2	81318.8	80250.4	82076.2	81194.4	80222.2	80046.9	78294.6	78848.6
57255.5	17.5°	56972.9	58346.5	58776.1	59821.8	59019.1	58442.6	57713.4	57182.0	57142.5
40082.8	20°	40399.4	41778.6	42095.2	43350.0	43259.6	43078.7	42462.6	41789.9	41060.7
27285.3	22.5°	27697.9	28822.8	29874.2	31564.3	31536.0	31004.7	30942.5	29992.9	30009.8
18433.2	25°	18625.4	19445.1	19693.8	21423.5	21615.7	21559.1	21236.9	20355.1	20688.6
11260.0	27.5°	11271.4	11989.2	12831.5	13442.0	14018.5	13928.1	13605.9	13114.1	12899.3
6766.2	30°	6947.1	7269.3	7580.2	8315.0	8659.8	8840.7	8688.1	8230.2	8264.1
4454.3	32.5°	4550.4	4821.7	5047.8	5511.3	5692.2	6025.7	5963.5	5867.4	5754.4
3205.0	35°	3318.1	3515.9	3668.6	3883.4	4115.1	4397.7	4443.0	4403.4	4358.2
2475.9	37.5°	2532.4	2735.9	2911.1	3001.5	3182.4	3402.9	3527.2	3521.6	3487.7
2018.0	40°	2057.6	2210.2	2368.5	2487.2	2611.5	2775.4	2928.1	2945.0	2945.0
1695.8	42.5°	1718.4	1848.4	2006.7	2131.0	2221.5	2374.1	2532.4	2543.7	2532.4
1435.8	45°	1469.7	1582.7	1735.4	1882.3	1955.8	2068.9	2221.5	2255.4	2232.8
1232.3	47.5°	1277.5	1379.2	1509.3	1667.5	1746.7	1848.4	1989.7	2029.3	2023.6
1062.7	50°	1096.6	1215.3	1345.3	1475.3	1577.1	1673.2	1808.8	1854.1	1837.1
904.4	52.5°	966.6	1074.0	1187.1	1328.4	1447.1	1531.9	1639.3	1718.4	1695.8
763.1	55°	808.3	938.3	1057.0	1175.7	1322.7	1413.2	1514.9	1611.0	1588.4
644.4	57.5°	700.9	808.3	944.0	1051.4	1198.4	1305.8	1407.5	1509.3	1503.6
525.7	60°	587.9	700.9	830.9	944.0	1079.7	1198.4	1300.1	1413.2	1424.5
395.7	62.5°	463.5	599.2	712.2	842.2	977.9	1107.9	1198.4	1311.4	1328.4
299.6	65°	350.5	491.8	616.1	740.5	876.2	1017.5	1096.6	1192.7	1209.7
220.5	67.5°	260.0	378.7	525.7	638.7	780.1	915.7	989.2	1068.3	1096.6
135.7	70°	197.8	288.3	440.9	548.3	695.3	802.7	881.8	949.6	972.3
90.4	72.5°	124.4	226.1	356.1	469.2	599.2	695.3	751.8	791.4	825.3
50.9	75°	84.8	175.2	288.3	401.3	497.4	570.9	621.8	655.7	684.0
22.6	77.5°	50.9	135.7	237.4	333.5	395.7	452.2	503.1	525.7	542.7
17.0	80°	28.3	101.7	197.8	271.3	310.9	350.5	390.0	418.3	429.6
11.3	82.5°	17.0	79.1	158.3	209.1	226.1	265.7	305.2	322.2	322.2
5.7	85°	11.3	56.5	107.4	152.6	163.9	192.2	203.5	214.8	226.1
5.7	87.5°	11.3	33.9	67.8	84.8	90.4	101.7	107.4	118.7	130.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
177357.0
171529.2
160681.8
143486.4
124878.0
102578.3
78294.6
56091.1
40744.2
29682.0
20162.9
12712.8
8117.2
5714.8
4341.2
3470.7
2911.1
2521.1
2232.8
2012.3
1825.8
1690.1
1599.7
1509.3
1430.1
1339.7
1226.6
1107.9
983.6
819.6
678.3
537.0
418.3
316.5
220.5
124.4
0.0

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