

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: P638632

Luminaire Tested: **EPH-VN-06-E-740-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638632
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-740-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51033.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

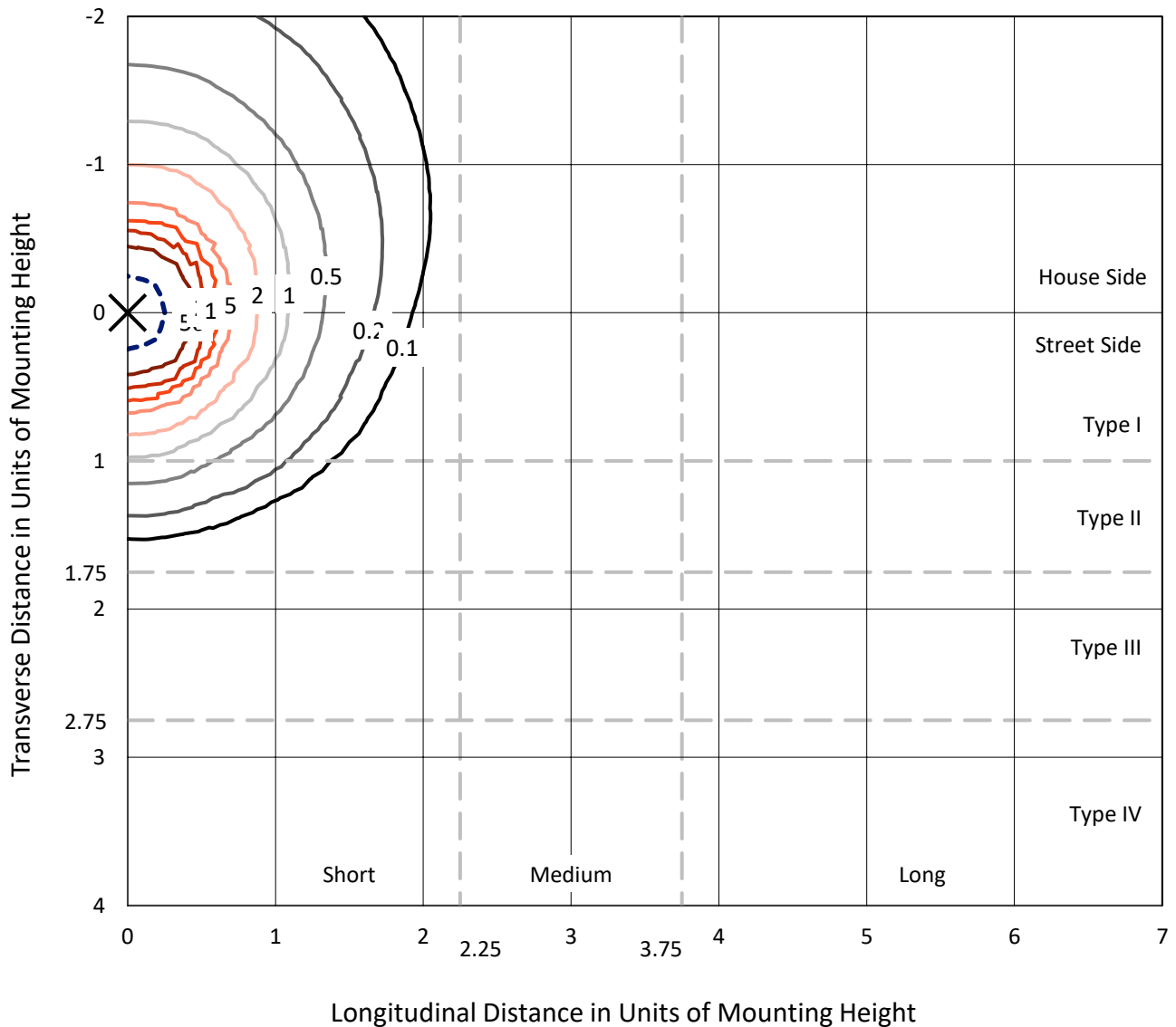
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

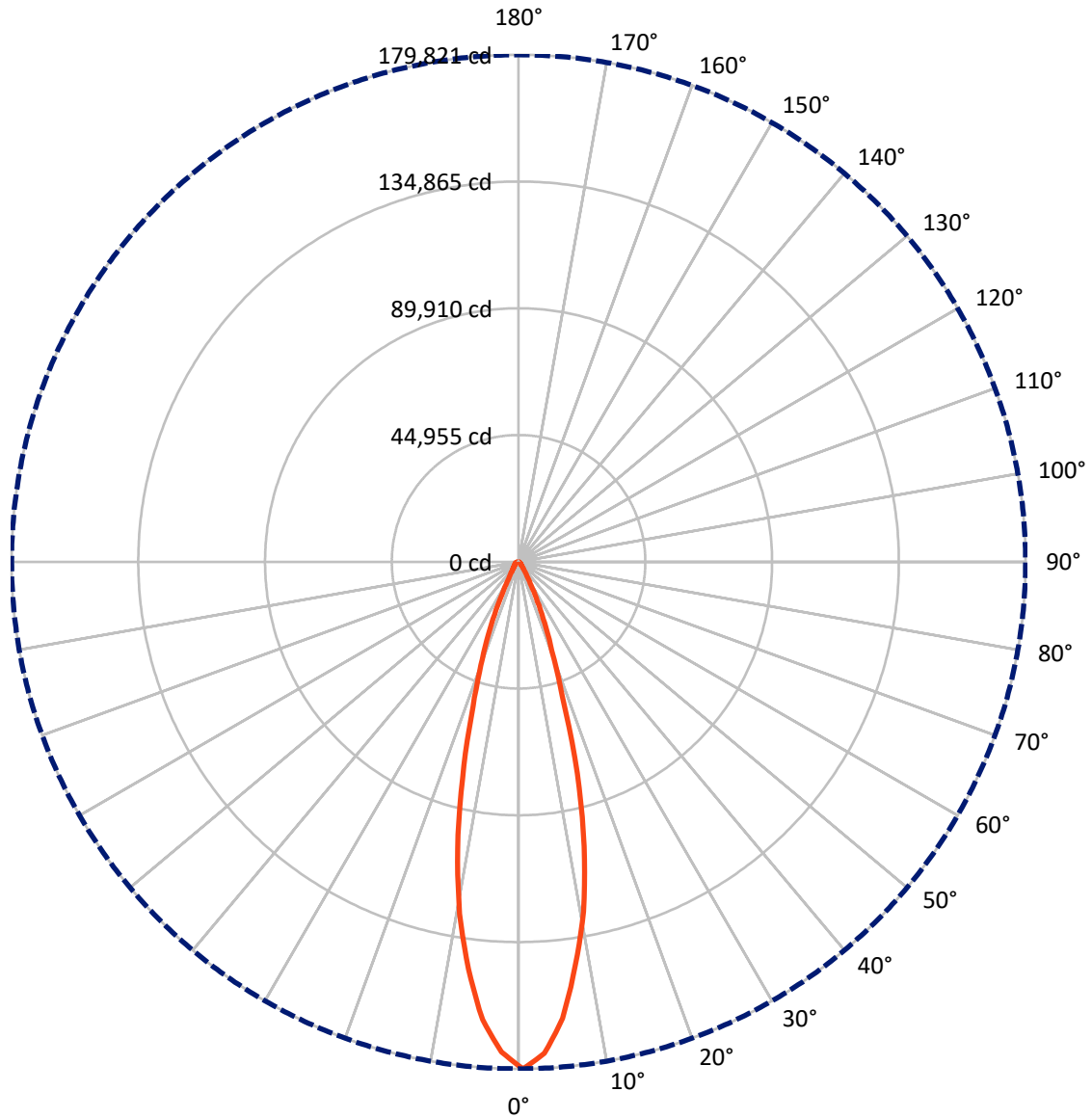
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 449.6 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	26908.4	0.0	26908.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	24125.3	0.0	24125.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	51033.6	0.0	51033.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14513.1	28.4
10°-20°	21980.0	43.1
20°-30°	9275.7	18.2
30°-40°	2419.2	4.7
40°-50°	1223.6	2.4
50°-60°	799.8	1.6
60°-70°	479.2	0.9
70°-80°	252.1	0.5
80°-90°	91.1	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°	51033.6	100.0
0°-180°	51033.6	100.0

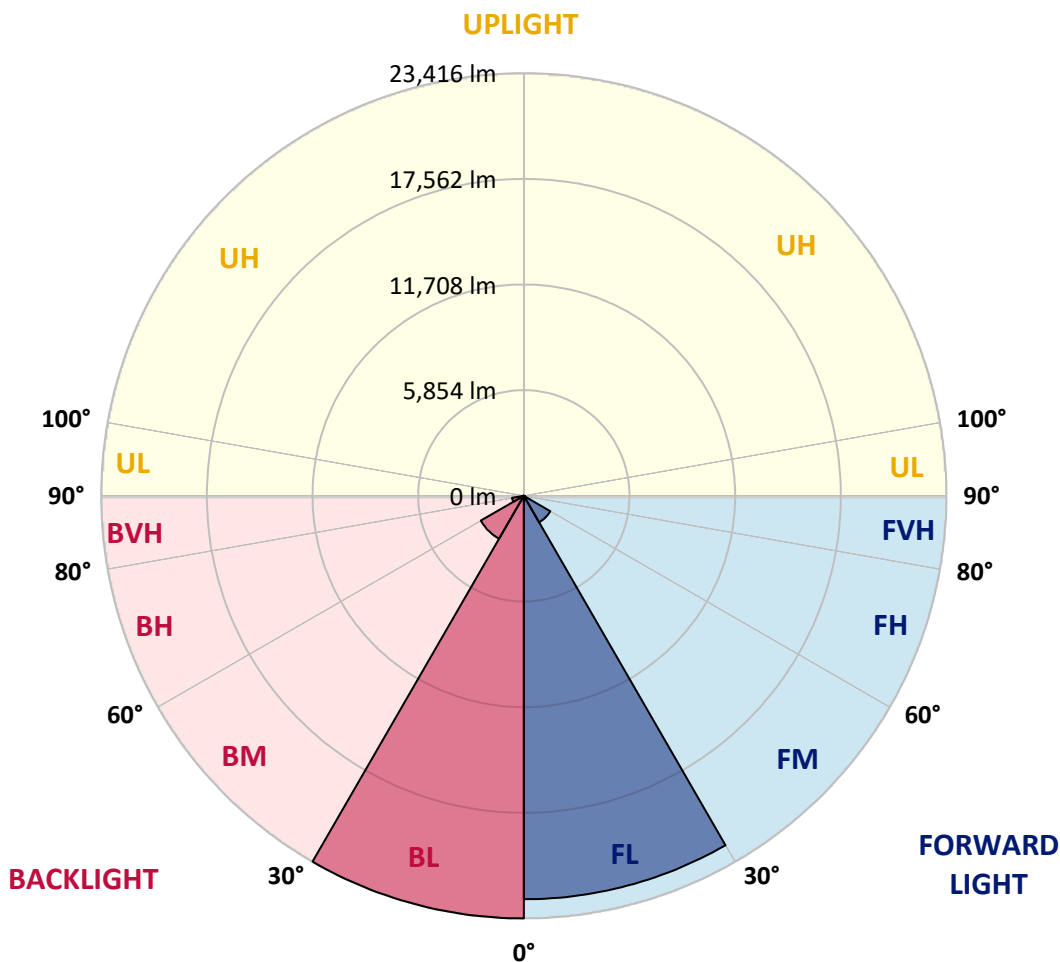


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22352.4	43.8			
FM (30°-60°)	1692.8	3.3			
FH (60°-80°)	69.0	0.1			G0/660
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	23416.4	45.9	B5		
BM (30°-60°)	2749.7	5.4	B3/5000		
BH (60°-80°)	662.2	1.3	B2/1000		G1/1800
BVH (80°-90°)	80.0	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°	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6
2.5°	174582.3	174679.7	174318.7	175098.1	174490.6	176118.2	175310.1	176571.0	176146.9	176851.8
5°	162661.5	162501.0	162397.9	163607.1	163257.5	165005.5	163888.0	163521.2	164655.9	164449.6
7.5°	144660.0	145084.1	144843.4	145158.6	145336.2	147330.7	147961.1	147468.2	147485.4	147772.0
10°	126205.7	125581.0	124692.6	125282.9	126532.3	127403.5	127053.9	127776.0	127615.5	128297.5
12.5°	103498.8	103991.7	103493.1	102965.8	105149.4	104908.7	105516.2	105911.7	104920.2	107126.7
15°	77960.8	78218.7	78826.2	78786.1	80465.3	80803.5	80723.2	81141.6	80367.9	80734.7
17.5°	50084.5	50955.7	52589.0	55351.4	58457.7	58818.8	58727.1	58383.2	58010.7	57598.1
20°	33641.9	33550.2	34140.5	34948.6	41378.9	43081.1	43029.5	41952.0	40393.1	40095.1
22.5°	23566.5	23738.4	23658.2	24460.5	25790.2	30484.0	29905.1	28810.5	28300.4	27968.0
25°	15502.8	15439.7	15840.9	16081.6	17222.1	17795.2	19824.0	19417.1	18632.0	18717.9
27.5°	9450.7	9530.9	9679.9	9886.2	10694.3	10510.9	11668.6	11823.4	11571.2	11301.8
30°	5799.9	5857.2	5977.6	6126.6	6407.4	6206.8	6527.8	7083.7	6992.0	6802.9
32.5°	3937.3	3943.0	4029.0	4086.3	4051.9	3862.8	3966.0	4493.2	4504.7	4487.5
35°	2831.2	2831.2	2911.4	2957.3	2859.8	2705.1	2722.3	3049.0	3192.3	3220.9
37.5°	1954.3	1960.1	2097.6	2235.1	2126.3	2086.1	2017.4	2235.1	2464.4	2498.8
40°	1484.4	1478.6	1547.4	1650.6	1662.0	1587.5	1610.5	1748.0	1983.0	2011.6
42.5°	1203.5	1209.3	1243.7	1232.2	1237.9	1335.4	1369.7	1432.8	1650.6	1702.2
45°	1014.4	1020.1	1037.3	980.0	957.1	1106.1	1152.0	1186.3	1369.7	1432.8
47.5°	836.7	848.2	865.4	802.4	790.9	888.3	968.6	1003.0	1163.4	1232.2
50°	601.8	613.2	676.3	641.9	676.3	699.2	808.1	859.7	968.6	1060.3
52.5°	435.6	447.0	464.2	470.0	555.9	567.4	647.6	727.9	779.4	882.6
55°	343.9	355.3	343.9	332.4	406.9	470.0	498.6	584.6	624.7	745.0
57.5°	194.9	206.3	223.5	257.9	269.4	361.1	389.7	464.2	498.6	613.2
60°	34.4	40.1	63.0	154.7	189.1	229.2	292.3	355.3	401.2	481.4
62.5°	5.7	5.7	11.5	34.4	108.9	160.5	212.1	252.2	292.3	366.8
65°	0.0	0.0	5.7	11.5	28.7	91.7	114.6	149.0	200.6	263.6
67.5°	0.0	0.0	5.7	11.5	17.2	34.4	51.6	91.7	114.6	177.7
70°	0.0	0.0	5.7	11.5	17.2	22.9	28.7	40.1	68.8	108.9
72.5°	0.0	0.0	5.7	11.5	17.2	22.9	28.7	34.4	34.4	68.8
75°	0.0	0.0	5.7	11.5	17.2	28.7	34.4	34.4	28.7	28.7
77.5°	0.0	0.0	5.7	11.5	22.9	34.4	40.1	34.4	22.9	22.9
80°	0.0	0.0	11.5	17.2	28.7	40.1	51.6	40.1	22.9	11.5
82.5°	0.0	0.0	11.5	22.9	28.7	45.8	63.0	51.6	22.9	11.5
85°	0.0	0.0	5.7	17.2	34.4	45.8	63.0	45.8	22.9	5.7
87.5°	0.0	0.0	5.7	5.7	11.5	17.2	34.4	28.7	11.5	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°
179820.6	0°	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6	179820.6
175516.5	2.5°	176525.2	177442.1	177631.3	177379.1	177745.9	177086.8	176582.5	175275.8	174490.6
164386.6	5°	165446.8	165309.3	166266.4	166581.6	166541.5	166037.1	165332.2	164541.3	163773.3
147216.0	7.5°	148133.0	148310.7	149181.8	149737.8	149456.9	148826.5	148339.4	147743.3	147227.5
128544.0	10°	129718.8	128498.1	129581.3	129581.3	130332.1	128549.7	128715.9	127214.3	127283.1
107086.5	12.5°	107453.3	107894.6	108072.3	108582.4	107705.5	106759.9	105602.2	105372.9	104656.5
80035.5	15°	81187.5	82448.3	81365.1	83216.3	82322.2	81336.5	81158.8	79382.2	79943.8
58050.8	17.5°	57764.3	59156.9	59592.5	60652.8	59838.9	59254.4	58515.0	57976.3	57936.2
40639.6	20°	40960.5	42358.9	42679.9	43952.2	43860.5	43677.1	43052.4	42370.4	41631.1
27664.3	22.5°	28082.6	29223.1	30289.1	32002.7	31974.1	31435.4	31372.3	30409.5	30426.7
18689.3	25°	18884.1	19715.2	19967.3	21721.1	21915.9	21858.6	21531.9	20637.9	20976.0
11416.5	27.5°	11427.9	12155.8	13009.7	13628.7	14213.3	14121.6	13794.9	13296.3	13078.5
6860.2	30°	7043.6	7370.3	7685.5	8430.5	8780.1	8963.5	8808.8	8344.6	8378.9
4516.1	32.5°	4613.6	4888.7	5117.9	5587.9	5771.3	6109.4	6046.4	5948.9	5834.3
3249.6	35°	3364.2	3564.8	3719.5	3937.3	4172.3	4458.8	4504.7	4464.6	4418.7
2510.2	37.5°	2567.6	2773.9	2951.5	3043.2	3226.6	3450.2	3576.2	3570.5	3536.1
2046.0	40°	2086.1	2240.9	2401.4	2521.7	2647.8	2814.0	2968.7	2985.9	2985.9
1719.3	42.5°	1742.3	1874.1	2034.6	2160.6	2252.3	2407.1	2567.6	2579.0	2567.6
1455.7	45°	1490.1	1604.7	1759.5	1908.5	1983.0	2097.6	2252.3	2286.7	2263.8
1249.4	47.5°	1295.2	1398.4	1530.2	1690.7	1770.9	1874.1	2017.4	2057.5	2051.8
1077.5	50°	1111.8	1232.2	1364.0	1495.8	1599.0	1696.4	1834.0	1879.8	1862.6
917.0	52.5°	980.0	1088.9	1203.5	1346.8	1467.2	1553.1	1662.0	1742.3	1719.3
773.7	55°	819.6	951.4	1071.7	1192.1	1341.1	1432.8	1535.9	1633.4	1610.5
653.4	57.5°	710.7	819.6	957.1	1066.0	1215.0	1323.9	1427.1	1530.2	1524.5
533.0	60°	596.0	710.7	842.5	957.1	1094.6	1215.0	1318.2	1432.8	1444.2
401.2	62.5°	470.0	607.5	722.1	853.9	991.5	1123.3	1215.0	1329.6	1346.8
303.8	65°	355.3	498.6	624.7	750.8	888.3	1031.6	1111.8	1209.3	1226.5
223.5	67.5°	263.6	384.0	533.0	647.6	790.9	928.4	1003.0	1083.2	1111.8
137.5	70°	200.6	292.3	447.0	555.9	704.9	813.8	894.1	962.8	985.8
91.7	72.5°	126.1	229.2	361.1	475.7	607.5	704.9	762.2	802.4	836.7
51.6	75°	86.0	177.7	292.3	406.9	504.3	578.8	630.4	664.8	693.5
22.9	77.5°	51.6	137.5	240.7	338.1	401.2	458.5	510.1	533.0	550.2
17.2	80°	28.7	103.2	200.6	275.1	315.2	355.3	395.4	424.1	435.6
11.5	82.5°	17.2	80.2	160.5	212.1	229.2	269.4	309.5	326.7	326.7
5.7	85°	11.5	57.3	108.9	154.7	166.2	194.9	206.3	217.8	229.2
5.7	87.5°	11.5	34.4	68.8	86.0	91.7	103.2	108.9	120.4	131.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
179820.6
173911.7
162913.7
145479.5
126612.6
104003.2
79382.2
56870.2
41310.1
30094.3
20443.0
12889.4
8229.9
5794.2
4401.5
3518.9
2951.5
2556.1
2263.8
2040.3
1851.2
1713.6
1621.9
1530.2
1450.0
1358.3
1243.7
1123.3
997.2
831.0
687.7
544.5
424.1
320.9
223.5
126.1
0.0

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