

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: P638607

Luminaire Tested: **EPH-VN-04-E-940-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638607
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-940-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25133.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

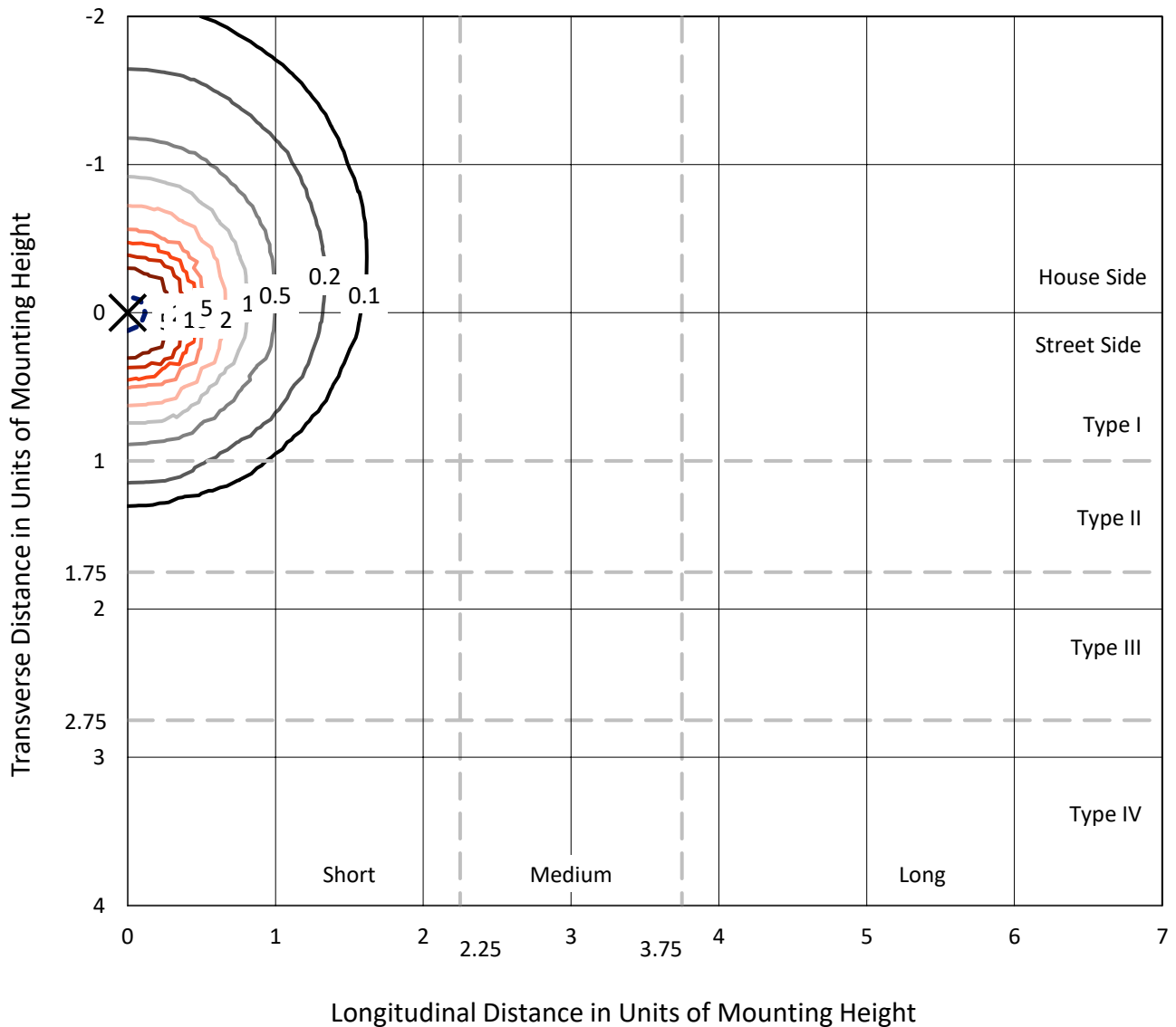
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

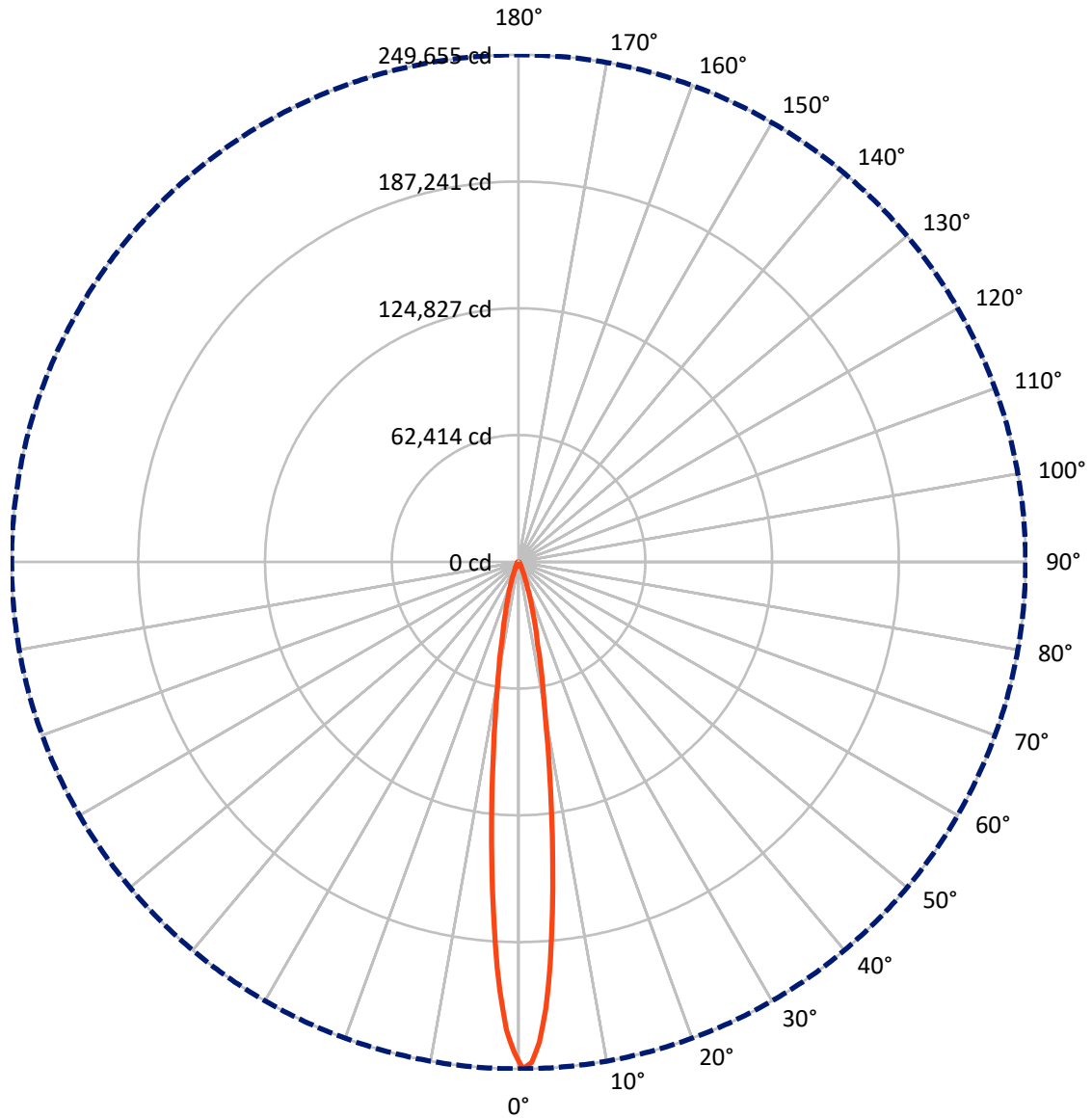
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 624.1 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	12872.8	0.0	12872.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12260.4	0.0	12260.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	25133.2	0.0	25133.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12688.0	50.5
10°-20°	8122.8	32.3
20°-30°	2441.6	9.7
30°-40°	795.0	3.2
40°-50°	462.5	1.8
50°-60°	307.2	1.2
60°-70°	184.9	0.7
70°-80°	95.1	0.4
80°-90°	36.1	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°	25133.2	100.0
0°-180°	25133.2	100.0

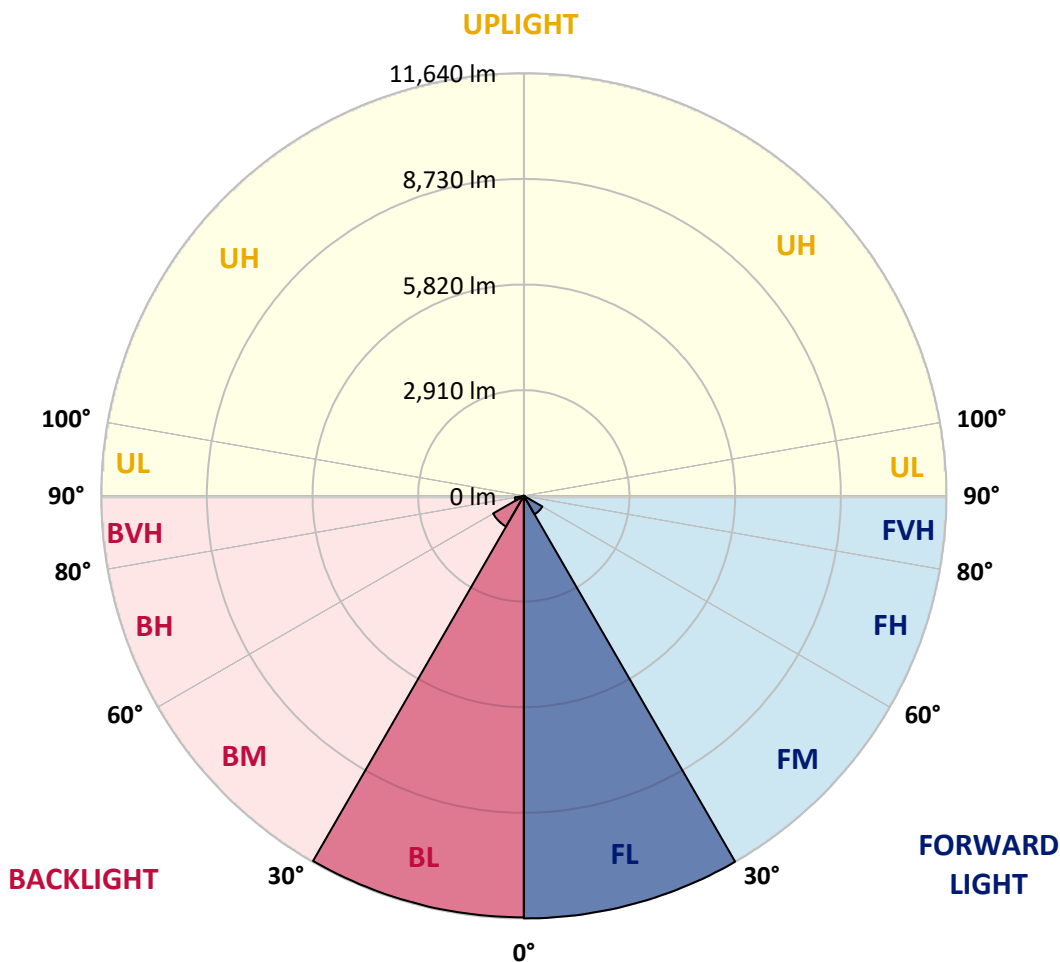


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11640.0	46.3			
FM (30°-60°)	587.4	2.3			
FH (60°-80°)	27.6	0.1			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	11612.4	46.2	B5		
BM (30°-60°)	977.4	3.9	B1/1000		
BH (60°-80°)	252.3	1.0	B1/500		G0/660
BVH (80°-90°)	30.7	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°	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5
1°	246665.3	245912.5	243968.9	245351.3	246566.7	246213.6	246188.9	246057.5	245874.1	247314.0
2°	236805.1	236317.8	233443.6	234628.9	236356.2	235097.0	235885.3	235192.8	235206.5	236925.6
3°	220183.6	220449.1	215863.9	218018.3	220419.0	217366.8	218313.9	220093.2	218229.0	217667.9
4°	198579.9	196275.0	193770.3	195960.2	196581.6	194805.0	196551.5	198730.5	196140.9	196255.9
5°	173915.9	172213.2	169248.6	170600.8	169059.7	169620.9	172237.8	173135.7	171329.0	169054.2
6°	148556.5	147346.6	143640.1	145589.1	145041.7	144724.1	148028.2	145290.8	146276.2	144899.3
7°	123569.4	121308.3	119487.9	121354.8	121475.3	120519.9	124809.5	124311.3	122518.2	122102.2
8°	102379.1	100123.5	98582.3	99972.9	100881.8	99381.7	101399.1	102724.0	101322.5	101448.4
9°	82574.0	82177.0	80033.6	81851.3	82839.5	81232.6	83466.4	83945.4	82634.2	83272.0
10°	67800.2	67337.5	65626.7	66363.0	68000.0	66083.8	68227.2	68383.2	67337.5	67635.9
12.5°	41898.8	41712.6	41666.1	41772.9	41751.0	42090.4	42637.9	42013.8	41931.6	40899.6
15°	27081.2	27357.7	27073.0	27620.5	27699.8	28020.1	27686.2	27182.5	26221.6	25745.3
17.5°	16900.8	17253.9	17741.2	18543.2	19345.3	19438.3	18994.9	18403.6	17938.2	17429.1
20°	9723.3	9895.7	9821.8	10782.7	12857.6	13421.5	12849.4	12228.0	11666.8	11152.2
22.5°	6041.5	5978.5	6093.5	6416.5	7092.6	8836.4	8368.3	7746.9	7339.0	6914.7
25°	3703.7	3772.2	3728.4	3906.3	4210.1	4949.2	5056.0	4787.7	4579.7	4360.7
27.5°	2384.3	2384.3	2403.4	2502.0	2710.0	2685.4	3254.8	3046.7	2934.5	2827.7
30°	1656.1	1661.6	1661.6	1719.1	1765.6	1683.5	1831.3	2099.6	2047.6	1965.5
32.5°	1229.1	1245.5	1259.2	1289.3	1251.0	1163.4	1199.0	1511.1	1480.9	1450.8
35°	936.2	949.9	982.7	999.2	944.4	889.7	856.8	1111.4	1125.1	1116.9
37.5°	681.6	689.8	750.1	813.0	750.1	700.8	681.6	854.1	919.8	911.6
40°	522.8	525.6	536.5	607.7	607.7	569.4	574.9	637.8	752.8	752.8
42.5°	448.9	448.9	459.9	448.9	451.7	492.7	506.4	514.6	637.8	637.8
45°	388.7	388.7	394.2	366.8	339.4	424.3	435.2	438.0	536.5	550.2
47.5°	325.8	325.8	336.7	301.1	287.4	336.7	366.8	375.0	462.6	473.6
50°	240.9	243.6	276.5	246.4	254.6	260.1	317.5	323.0	391.4	416.1
52.5°	161.5	161.5	167.0	191.6	221.7	213.5	257.3	276.5	312.1	344.9
55°	131.4	131.4	128.7	123.2	164.2	177.9	188.9	229.9	254.6	295.6
57.5°	90.3	95.8	87.6	101.3	106.8	134.1	142.3	180.7	194.4	249.1
60°	10.9	13.7	19.2	73.9	71.2	90.3	106.8	142.3	158.8	191.6
62.5°	2.7	2.7	5.5	13.7	49.3	60.2	84.9	98.5	115.0	147.8
65°	0.0	0.0	2.7	5.5	10.9	32.8	43.8	57.5	82.1	104.0
67.5°	0.0	0.0	2.7	5.5	5.5	13.7	21.9	35.6	43.8	76.6
70°	0.0	0.0	2.7	5.5	5.5	10.9	13.7	16.4	30.1	41.1
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	13.7	13.7	27.4
75°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	13.7	10.9	10.9
77.5°	0.0	0.0	2.7	5.5	10.9	13.7	16.4	13.7	8.2	8.2
80°	0.0	0.0	2.7	8.2	13.7	19.2	21.9	16.4	8.2	5.5
82.5°	0.0	0.0	5.5	10.9	16.4	21.9	30.1	24.6	10.9	5.5
85°	0.0	0.0	2.7	8.2	16.4	21.9	43.8	30.1	13.7	2.7
87.5°	0.0	0.0	0.0	2.7	2.7	5.5	16.4	10.9	5.5	2.7
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°
249654.5	0°	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5	249654.5
245652.4	1°	247368.8	247541.2	246977.3	247850.6	247544.0	245748.2	245154.2	244450.7
235915.4	2°	235192.8	236071.5	236115.3	237084.3	237070.6	234976.5	234327.7	235524.0
218806.6	3°	218144.2	219168.0	218245.5	219967.3	219449.9	216909.6	216249.9	217607.6
197164.7	4°	196576.1	196381.8	196064.2	195084.2	196291.4	194558.7	193252.9	195095.2
172070.8	5°	171725.9	171293.4	170674.8	170384.6	171282.5	170173.8	167488.4	170179.3
147390.4	6°	147571.0	145709.6	145619.2	145457.7	145548.1	142443.9	142630.0	144633.8
120670.5	7°	121946.1	122288.3	121590.3	122709.9	121855.8	119753.5	118943.2	121053.7
102001.4	8°	101289.6	100857.1	100323.3	101995.9	100514.9	99135.3	98190.9	99858.0
83376.0	9°	83220.0	82472.7	81930.7	81845.8	82075.8	79486.2	80011.7	81273.7
67800.2	10°	67824.8	66598.4	66896.8	66976.2	66724.4	65027.2	65043.6	65478.8
41584.0	12.5°	41436.2	40833.9	40984.5	41066.6	41578.5	40981.8	40138.6	39530.9
26218.9	15°	26043.7	25611.2	26495.4	27089.4	26969.0	26437.9	26041.0	25490.8
17429.1	17.5°	17267.6	17834.2	17837.0	18379.0	18433.7	17902.7	17596.1	17100.6
11335.6	20°	11294.6	11530.0	12020.0	12403.2	12624.9	12219.8	11853.0	11513.5
7068.0	22.5°	7068.0	7478.6	7785.2	8283.4	8486.0	8190.3	7930.3	7653.8
4412.7	25°	4338.8	4631.7	4886.3	5318.8	5595.3	5452.9	5214.8	5020.4
2849.6	27.5°	2893.4	3016.6	3142.5	3440.9	3728.4	3649.0	3553.2	3435.4
2009.3	30°	2039.4	2050.3	2184.5	2351.4	2543.1	2592.3	2548.5	2488.3
1475.5	32.5°	1502.8	1546.6	1609.6	1713.6	1842.3	1960.0	1938.1	1910.7
1127.8	35°	1160.7	1226.4	1278.4	1357.8	1426.2	1538.4	1557.6	1549.4
928.0	37.5°	947.1	1004.6	1056.6	1103.2	1160.7	1237.3	1297.5	1300.3
766.5	40°	785.6	837.6	906.1	941.7	982.7	1040.2	1114.1	1119.6
648.8	42.5°	662.5	711.7	780.2	824.0	854.1	908.8	982.7	993.7
555.7	45°	569.4	599.5	670.7	722.7	752.8	788.4	867.8	878.7
479.0	47.5°	495.5	525.6	569.4	643.3	670.7	703.5	766.5	785.6
424.3	50°	435.2	465.4	503.7	569.4	610.4	637.8	689.8	717.2
369.6	52.5°	386.0	416.1	457.1	509.2	555.7	580.3	629.6	665.2
301.1	55°	323.0	375.0	405.1	451.7	514.6	536.5	574.9	621.4
262.8	57.5°	282.0	325.8	369.6	407.9	470.8	498.2	536.5	580.3
208.0	60°	238.2	279.2	331.2	364.1	424.3	459.9	500.9	542.0
158.8	62.5°	188.9	243.6	279.2	325.8	383.2	429.8	462.6	503.7
123.2	65°	139.6	199.8	240.9	290.2	344.9	394.2	421.6	465.4
87.6	67.5°	101.3	156.0	205.3	251.8	303.9	353.1	380.5	418.8
54.7	70°	79.4	115.0	169.7	210.8	265.5	306.6	336.7	361.3
35.6	72.5°	46.5	87.6	136.9	183.4	232.7	260.1	282.0	303.9
16.4	75°	30.1	68.4	112.2	153.3	188.9	213.5	232.7	251.8
8.2	77.5°	19.2	49.3	90.3	128.7	145.1	175.2	191.6	202.6
5.5	80°	10.9	38.3	79.4	104.0	117.7	136.9	153.3	167.0
5.5	82.5°	8.2	32.8	65.7	87.6	87.6	109.5	117.7	117.7
2.7	85°	5.5	27.4	52.0	82.1	65.7	82.1	76.6	76.6
2.7	87.5°	5.5	19.2	24.6	35.6	30.1	35.6	35.6	41.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
249654.5
241664.0
230457.1
211577.1
188426.9
163089.4
138825.0
115313.4
95097.6
77331.8
62517.0
39161.4
25208.8
16977.4
11395.8
7506.0
4908.2
3367.0
2447.2
1888.8
1522.0
1281.1
1111.4
985.5
876.0
788.4
719.9
665.2
624.1
583.1
553.0
522.8
473.6
421.6
369.6
309.3
251.8
197.1
150.6
109.5
73.9
41.1
0.0

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