

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: P638619

Luminaire Tested: **EPH-VN-04-E-730-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638619  
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-730-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30716.7 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

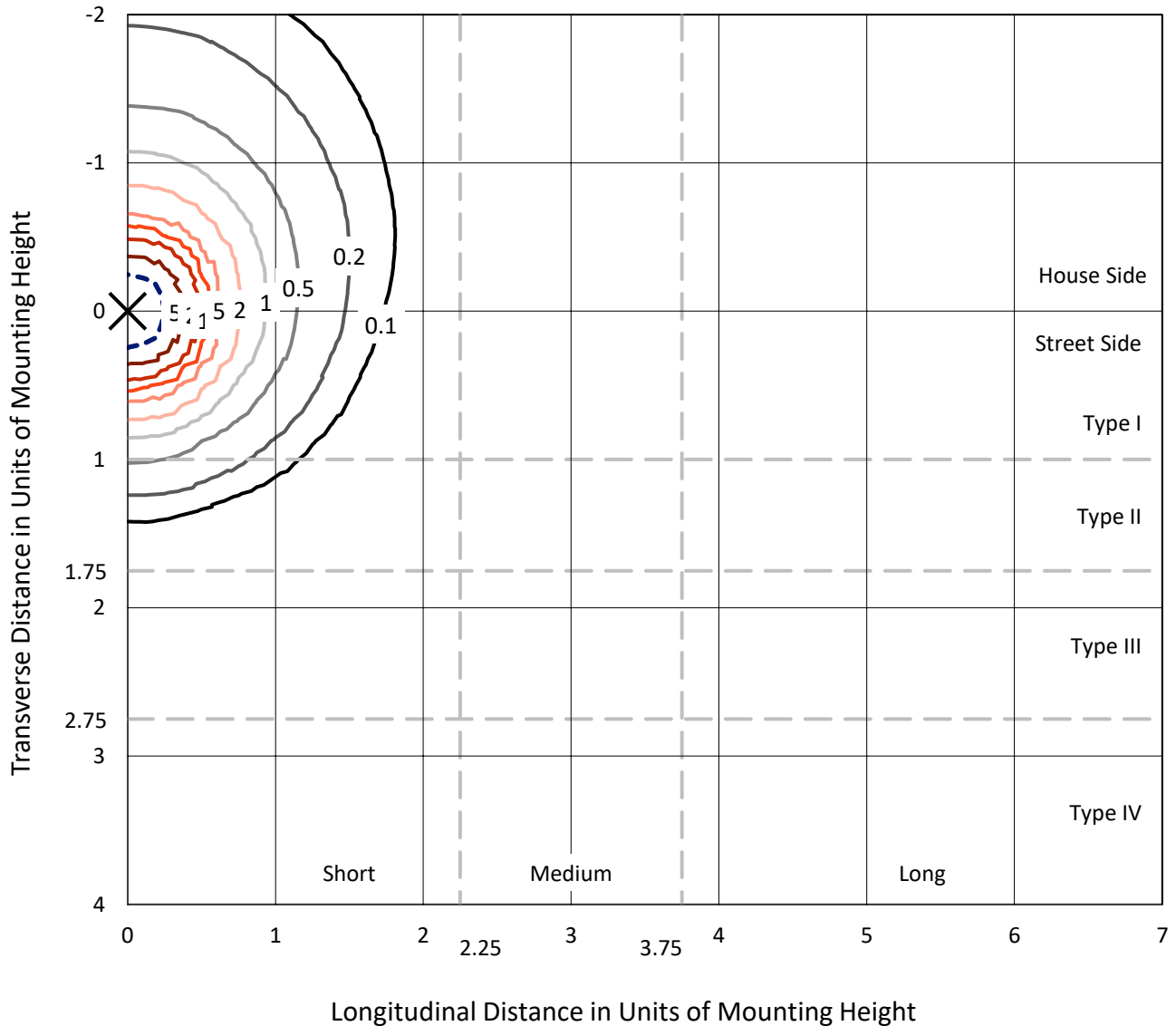
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

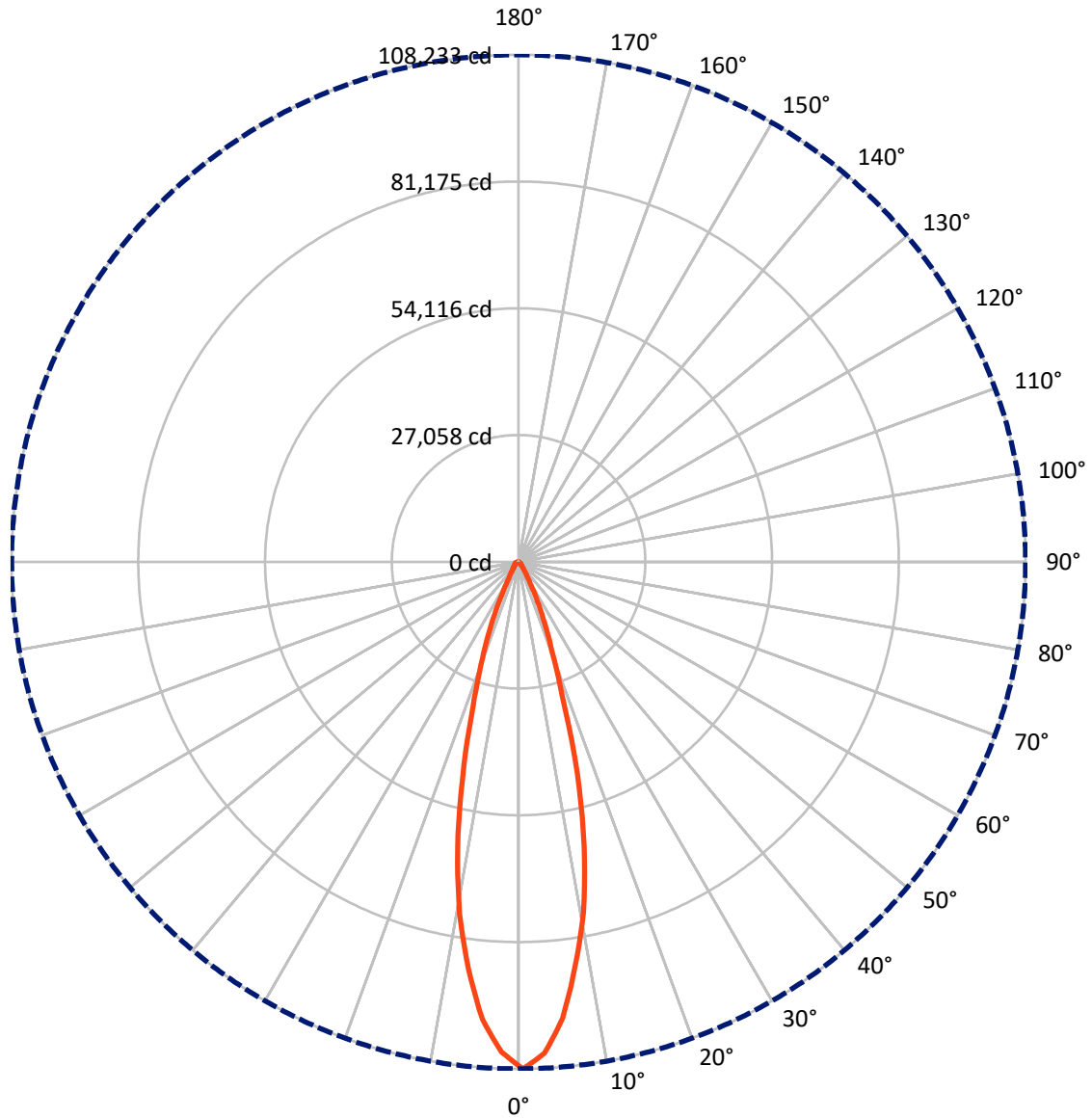
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 270.6 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
<b>House Side</b>	Lumens	16195.9	0.0	16195.9
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	14520.8	0.0	14520.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	30716.7	0.0	30716.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8735.3	28.4
10°-20°	13229.6	43.1
20°-30°	5583.0	18.2
30°-40°	1456.1	4.7
40°-50°	736.5	2.4
50°-60°	481.4	1.6
60°-70°	288.4	0.9
70°-80°	151.7	0.5
80°-90°	54.8	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°	30716.7	100.0
0°-180°	30716.7	100.0

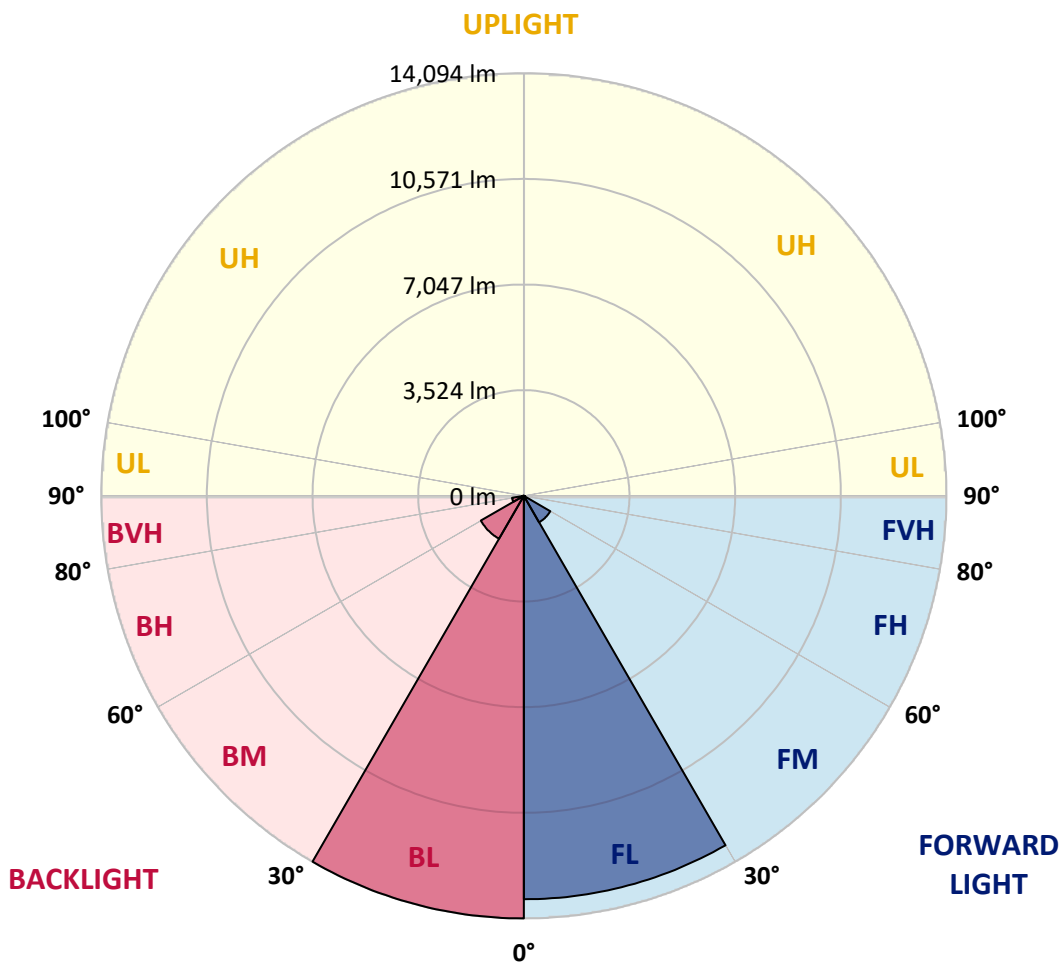


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13453.8	43.8			
FM (30°-60°)	1018.9	3.3			
FH (60°-80°)	41.5	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14094.2	45.9	B5		
BM (30°-60°)	1655.1	5.4	B2/2500		
BH (60°-80°)	398.6	1.3	B1/500		G0/660
BVH (80°-90°)	48.1	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°	108232.7	108232.7	108232.7	108232.7	108232.7	108232.7	108232.7	108232.7	108232.7	108232.7
2.5°	105079.8	105138.4	104921.1	105390.3	105024.6	106004.3	105517.9	106276.8	106021.5	106445.8
5°	97904.8	97808.2	97746.1	98473.9	98263.5	99315.6	98643.0	98422.2	99105.2	98981.0
7.5°	87069.8	87325.0	87180.2	87369.9	87476.8	88677.3	89056.7	88760.0	88770.4	88942.9
10°	75962.3	75586.3	75051.6	75406.9	76158.9	76683.2	76472.8	76907.4	76810.8	77221.3
12.5°	62295.2	62591.9	62291.7	61974.4	63288.7	63143.8	63509.4	63747.5	63150.7	64478.8
15°	46924.1	47079.3	47444.9	47420.8	48431.5	48635.0	48586.7	48838.6	48372.9	48593.6
17.5°	30145.5	30669.8	31653.0	33315.6	35185.3	35402.6	35347.4	35140.4	34916.2	34667.9
20°	20248.8	20193.6	20548.9	21035.3	24905.7	25930.2	25899.1	25250.6	24312.3	24133.0
22.5°	14184.5	14288.0	14239.7	14722.6	15522.9	18348.1	17999.7	17340.8	17033.8	16833.7
25°	9331.0	9293.1	9534.5	9679.4	10365.9	10710.8	11931.9	11687.0	11214.4	11266.2
27.5°	5688.3	5736.6	5826.3	5950.5	6436.8	6326.5	7023.3	7116.4	6964.6	6802.5
30°	3490.9	3525.4	3597.9	3687.6	3856.6	3735.8	3929.0	4263.6	4208.4	4094.6
32.5°	2369.8	2373.3	2425.0	2459.5	2438.8	2325.0	2387.1	2704.4	2711.3	2701.0
35°	1704.1	1704.1	1752.4	1780.0	1721.3	1628.2	1638.5	1835.2	1921.4	1938.6
37.5°	1176.3	1179.7	1262.5	1345.3	1279.8	1255.6	1214.2	1345.3	1483.3	1504.0
40°	893.4	890.0	931.4	993.5	1000.4	955.5	969.3	1052.1	1193.5	1210.8
42.5°	724.4	727.9	748.5	741.7	745.1	803.7	824.4	862.4	993.5	1024.5
45°	610.6	614.0	624.4	589.9	576.1	665.8	693.4	714.1	824.4	862.4
47.5°	503.6	510.5	520.9	482.9	476.0	534.7	583.0	603.7	700.3	741.7
50°	362.2	369.1	407.0	386.3	407.0	420.8	486.4	517.4	583.0	638.2
52.5°	262.2	269.1	279.4	282.9	334.6	341.5	389.8	438.1	469.1	531.2
55°	207.0	213.9	207.0	200.1	244.9	282.9	300.1	351.9	376.0	448.4
57.5°	117.3	124.2	134.5	155.2	162.1	217.3	234.6	279.4	300.1	369.1
60°	20.7	24.1	37.9	93.1	113.8	138.0	175.9	213.9	241.5	289.8
62.5°	3.4	3.4	6.9	20.7	65.5	96.6	127.6	151.8	175.9	220.8
65°	0.0	0.0	3.4	6.9	17.2	55.2	69.0	89.7	120.7	158.7
67.5°	0.0	0.0	3.4	6.9	10.3	20.7	31.0	55.2	69.0	106.9
70°	0.0	0.0	3.4	6.9	10.3	13.8	17.2	24.1	41.4	65.5
72.5°	0.0	0.0	3.4	6.9	10.3	13.8	17.2	20.7	20.7	41.4
75°	0.0	0.0	3.4	6.9	10.3	17.2	20.7	20.7	17.2	17.2
77.5°	0.0	0.0	3.4	6.9	13.8	20.7	24.1	20.7	13.8	13.8
80°	0.0	0.0	6.9	10.3	17.2	24.1	31.0	24.1	13.8	6.9
82.5°	0.0	0.0	6.9	13.8	17.2	27.6	37.9	31.0	13.8	6.9
85°	0.0	0.0	3.4	10.3	20.7	27.6	37.9	27.6	13.8	3.4
87.5°	0.0	0.0	3.4	3.4	6.9	10.3	20.7	17.2	6.9	3.4
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°
<b>108232.7</b>	0°	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>	<b>108232.7</b>
105642.1	2.5°	106249.2	106801.1	106915.0	106763.2	106984.0	106587.3	106283.7	105497.2	105024.6
98943.1	5°	99581.2	99498.5	100074.5	100264.3	100240.1	99936.5	99512.3	99036.2	98574.0
88608.3	7.5°	89160.2	89267.1	89791.5	90126.1	89957.0	89577.6	89284.4	88925.6	88615.2
77369.7	10°	78076.8	77342.1	77994.0	77994.0	78445.9	77373.1	77473.2	76569.4	76610.8
64454.6	12.5°	64675.4	64941.0	65047.9	65354.9	64827.2	64258.0	63561.2	63423.2	62992.0
48172.8	15°	48866.1	49625.0	48973.1	50087.3	49549.2	48955.8	48848.9	47779.5	48117.6
34940.4	17.5°	34767.9	35606.1	35868.3	36506.5	36016.6	35664.8	35219.8	34895.5	34871.4
24460.7	20°	24653.8	25495.5	25688.7	26454.5	26399.3	26288.9	25912.9	25502.4	25057.4
16650.9	22.5°	16902.7	17589.2	18230.8	19262.2	19245.0	18920.7	18882.8	18303.2	18313.6
11248.9	25°	11366.2	11866.4	12018.2	13073.7	13191.0	13156.5	12959.9	12421.8	12625.3
6871.5	27.5°	6878.4	7316.5	7830.4	8203.0	8554.9	8499.7	8303.0	8002.9	7871.8
4129.1	30°	4239.5	4436.1	4625.8	5074.3	5284.7	5395.1	5301.9	5022.5	5043.2
2718.2	32.5°	2776.9	2942.5	3080.4	3363.3	3473.7	3677.2	3639.3	3580.6	3511.6
1955.9	35°	2024.9	2145.6	2238.7	2369.8	2511.3	2683.7	2711.3	2687.2	2659.6
1510.9	37.5°	1545.4	1669.6	1776.5	1831.7	1942.1	2076.6	2152.5	2149.1	2128.4
1231.5	40°	1255.6	1348.8	1445.4	1517.8	1593.7	1693.7	1786.9	1797.2	1797.2
1034.9	42.5°	1048.7	1128.0	1224.6	1300.5	1355.7	1448.8	1545.4	1552.3	1545.4
876.2	45°	896.9	965.9	1059.0	1148.7	1193.5	1262.5	1355.7	1376.4	1362.6
752.0	47.5°	779.6	841.7	921.0	1017.6	1065.9	1128.0	1214.2	1238.4	1234.9
648.5	50°	669.2	741.7	821.0	900.3	962.4	1021.1	1103.9	1131.4	1121.1
551.9	52.5°	589.9	655.4	724.4	810.6	883.1	934.8	1000.4	1048.7	1034.9
465.7	55°	493.3	572.6	645.1	717.5	807.2	862.4	924.5	983.1	969.3
393.2	57.5°	427.7	493.3	576.1	641.6	731.3	796.8	858.9	921.0	917.6
320.8	60°	358.8	427.7	507.1	576.1	658.9	731.3	793.4	862.4	869.3
241.5	62.5°	282.9	365.7	434.6	514.0	596.8	676.1	731.3	800.3	810.6
182.8	65°	213.9	300.1	376.0	451.9	534.7	620.9	669.2	727.9	738.2
134.5	67.5°	158.7	231.1	320.8	389.8	476.0	558.8	603.7	652.0	669.2
82.8	70°	120.7	175.9	269.1	334.6	424.3	489.8	538.1	579.5	593.3
55.2	72.5°	75.9	138.0	217.3	286.3	365.7	424.3	458.8	482.9	503.6
31.0	75°	51.7	106.9	175.9	244.9	303.6	348.4	379.4	400.1	417.4
13.8	77.5°	31.0	82.8	144.9	203.5	241.5	276.0	307.0	320.8	331.2
10.3	80°	17.2	62.1	120.7	165.6	189.7	213.9	238.0	255.3	262.2
6.9	82.5°	10.3	48.3	96.6	127.6	138.0	162.1	186.3	196.6	196.6
3.4	85°	6.9	34.5	65.5	93.1	100.0	117.3	124.2	131.1	138.0
3.4	87.5°	6.9	20.7	41.4	51.7	55.2	62.1	65.5	72.4	79.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
108232.7  
104676.2  
98056.5  
87563.1  
76207.2  
62598.8  
47779.5  
34229.8  
24864.3  
18113.5  
12304.5  
7758.0  
4953.5  
3487.5  
2649.2  
2118.0  
1776.5  
1538.5  
1362.6  
1228.0  
1114.2  
1031.4  
976.2  
921.0  
872.7  
817.5  
748.5  
676.1  
600.2  
500.2  
413.9  
327.7  
255.3  
193.2  
134.5  
75.9  
0.0

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