

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: P638577

Luminaire Tested: **EPH-VN-04-E-740-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638577  
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-740-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34781.7 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

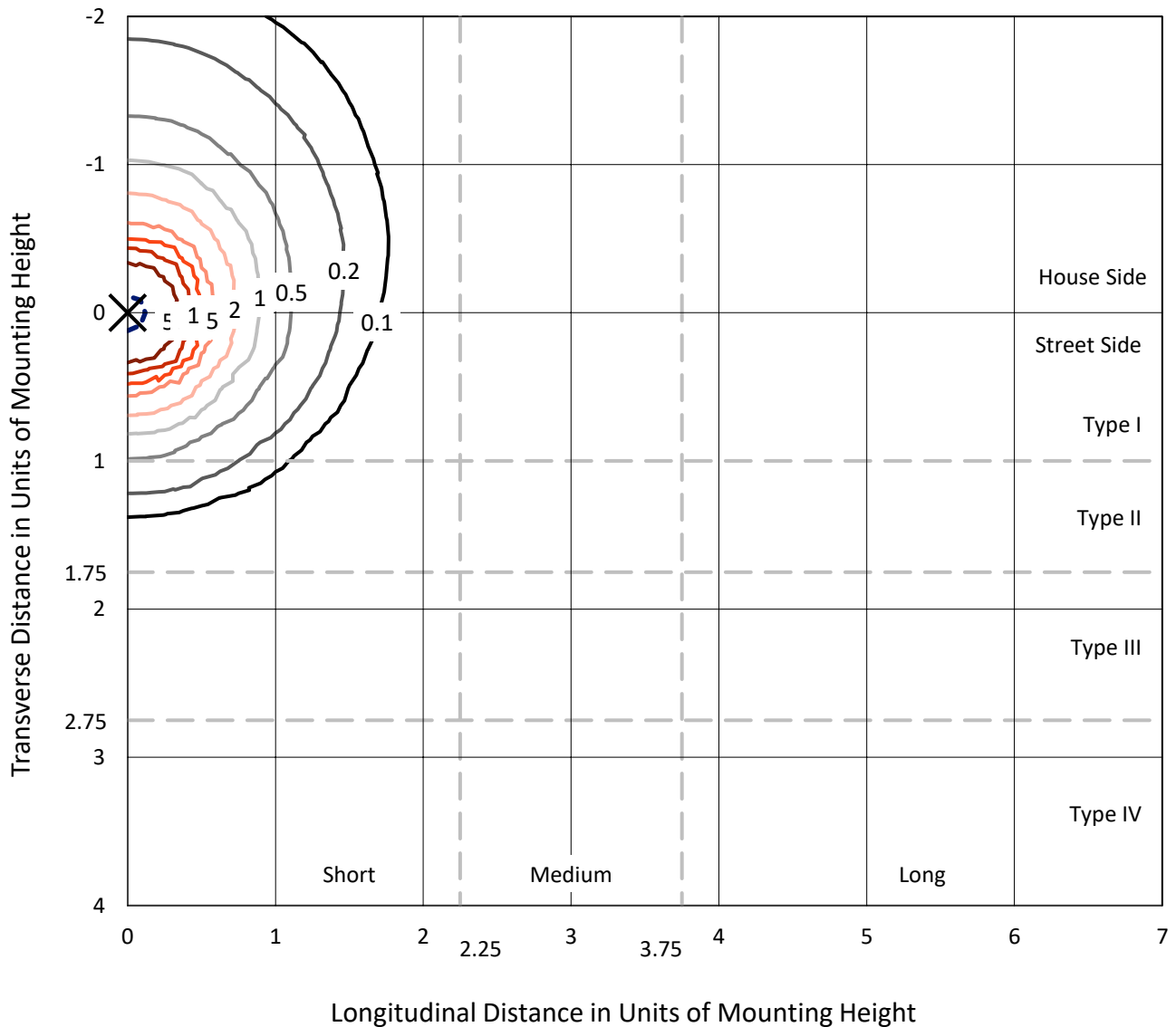
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

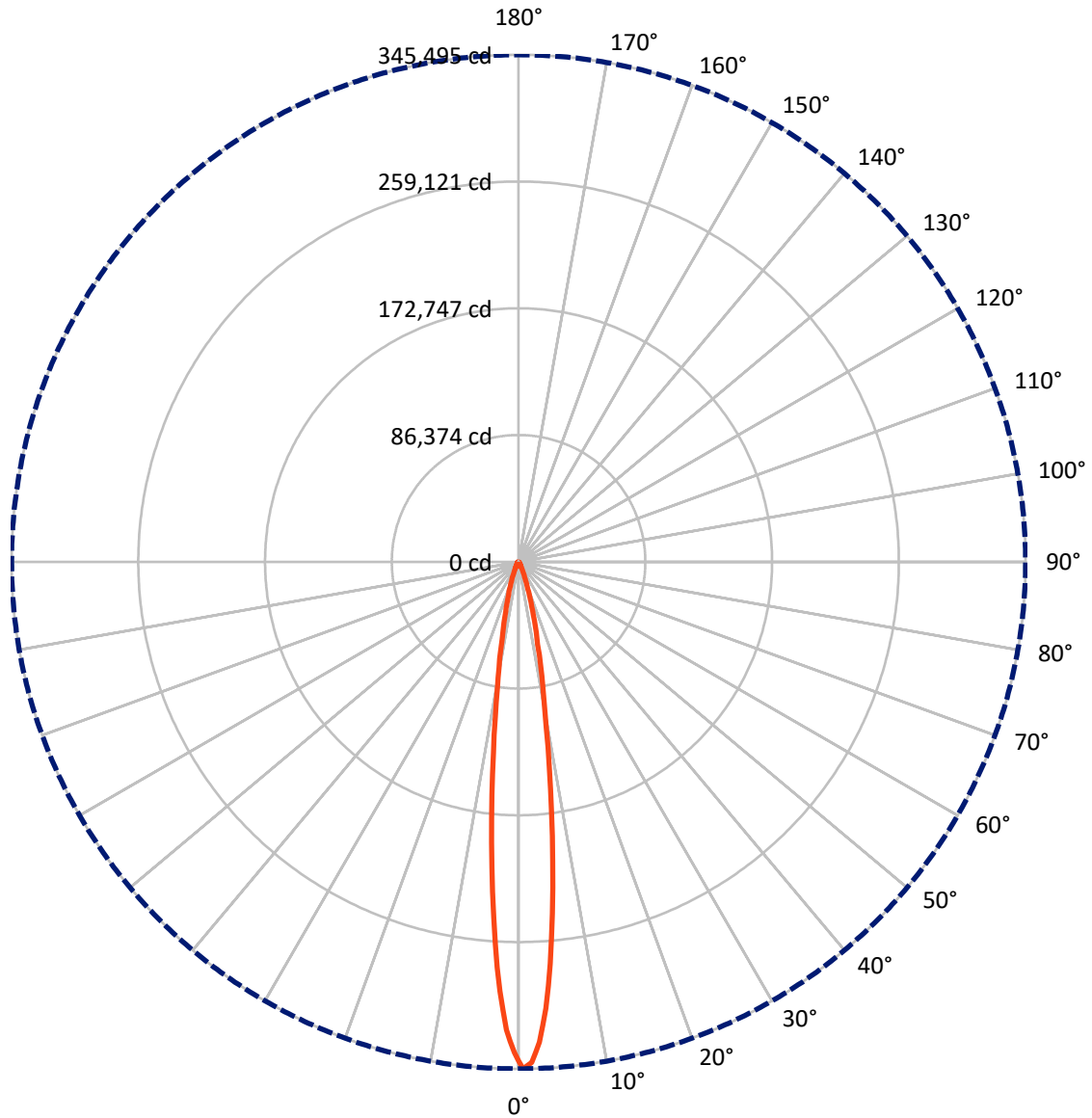
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 863.7 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	17814.5	0.0	17814.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	16967.1	0.0	16967.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	34781.7	0.0	34781.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17558.8	50.5
10°-20°	11241.1	32.3
20°-30°	3378.8	9.7
30°-40°	1100.2	3.2
40°-50°	640.1	1.8
50°-60°	425.2	1.2
60°-70°	255.9	0.7
70°-80°	131.6	0.4
80°-90°	50.0	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°	34781.7	100.0
0°-180°	34781.7	100.0

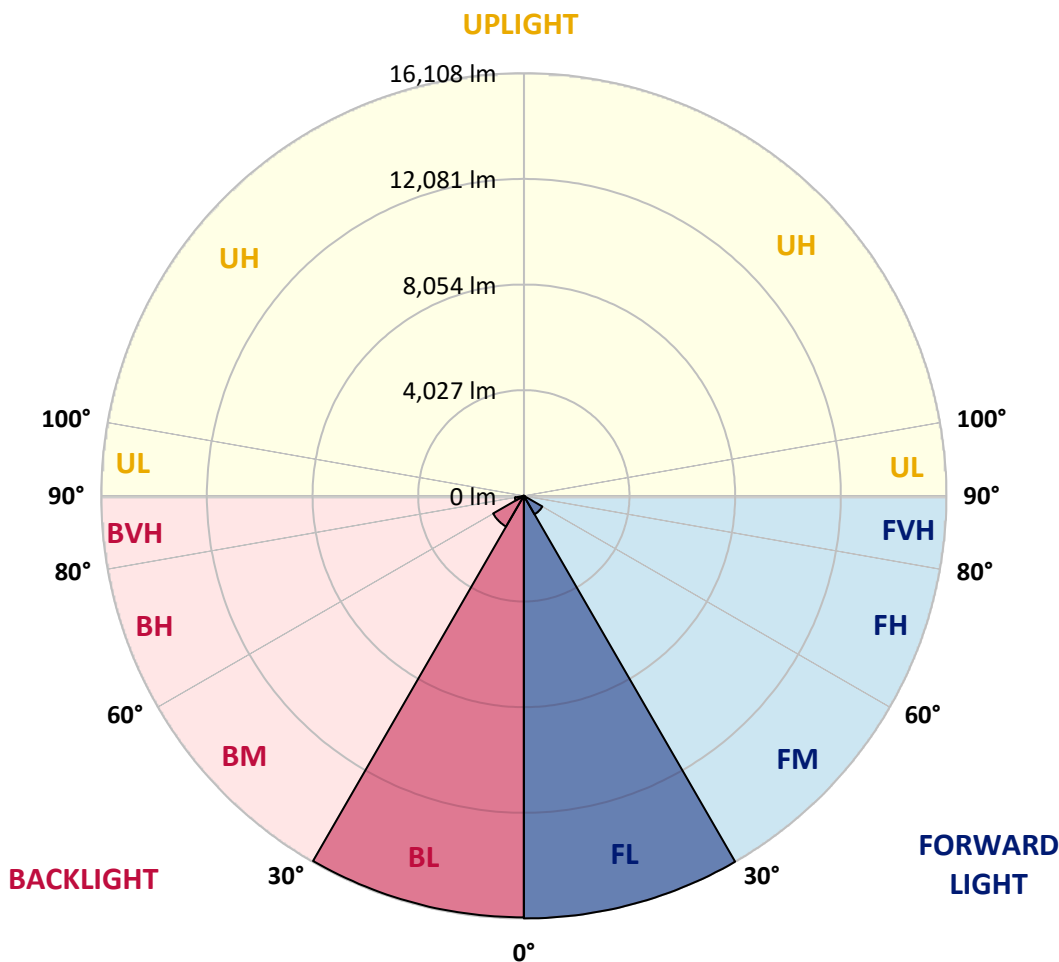


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16108.5	46.3			
FM (30°-60°)	812.9	2.3			
FH (60°-80°)	38.3	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	16070.3	46.2	B5		
BM (30°-60°)	1352.6	3.9	B2/2500		
BH (60°-80°)	349.2	1.0	B1/500		G0/660
BVH (80°-90°)	42.4	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°	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7
1°	341357.9	340316.2	337626.5	339539.6	341221.6	340732.9	340698.8	340517.0	340263.1	342255.8
2°	327712.6	327038.3	323060.6	324700.9	327091.3	325348.7	326439.7	325481.3	325500.2	327879.3
3°	304710.1	305077.6	298732.2	301713.6	305035.9	300812.0	302122.8	304585.1	302005.3	301228.7
4°	274813.1	271623.3	268157.1	271187.7	272047.6	269589.0	272005.9	275021.4	271437.7	271596.8
5°	240680.7	238324.4	234221.7	236093.1	233960.3	234736.9	238358.5	239601.0	237100.7	233952.7
6°	205586.1	203911.6	198782.3	201479.6	200721.9	200282.5	204854.9	201066.6	202430.4	200524.9
7°	171006.7	167877.5	165358.3	167941.9	168108.6	166786.5	172722.8	172033.3	169552.0	168976.1
8°	141681.6	138560.1	136427.3	138351.7	139609.4	137533.4	140325.4	142158.9	140219.3	140393.6
9°	114273.4	113724.1	110757.9	113273.3	114640.9	112417.2	115508.4	116171.3	114356.8	115239.4
10°	93828.1	93187.9	90820.2	91839.2	94104.6	91452.8	94419.0	94635.0	93187.9	93600.8
12.5°	57983.4	57725.8	57661.4	57809.1	57778.8	58248.6	59006.2	58142.5	58028.8	56600.7
15°	37477.4	37860.1	37466.1	38223.7	38333.6	38776.8	38314.6	37617.6	36287.9	35628.8
17.5°	23388.8	23877.5	24551.8	25661.8	26771.8	26900.6	26286.9	25468.6	24824.6	24120.0
20°	13456.0	13694.6	13592.3	14922.0	17793.5	18573.9	17782.2	16922.2	16145.6	15433.4
22.5°	8360.7	8273.6	8432.7	8879.7	9815.4	12228.6	11580.8	10720.8	10156.4	9569.2
25°	5125.5	5220.2	5159.6	5405.9	5826.4	6849.2	6996.9	6625.7	6337.8	6034.7
27.5°	3299.6	3299.6	3326.1	3462.5	3750.4	3716.3	4504.3	4216.4	4061.0	3913.3
30°	2291.9	2299.5	2299.5	2379.0	2443.4	2329.8	2534.4	2905.6	2833.6	2720.0
32.5°	1700.9	1723.7	1742.6	1784.3	1731.2	1610.0	1659.3	2091.1	2049.5	2007.8
35°	1295.6	1314.5	1360.0	1382.7	1307.0	1231.2	1185.7	1538.0	1557.0	1545.6
37.5°	943.3	954.6	1038.0	1125.1	1038.0	969.8	943.3	1181.9	1272.9	1261.5
40°	723.6	727.3	742.5	841.0	841.0	788.0	795.5	882.7	1041.8	1041.8
42.5°	621.3	621.3	636.4	621.3	625.1	681.9	700.8	712.2	882.7	882.7
45°	537.9	537.9	545.5	507.6	469.7	587.2	602.3	606.1	742.5	761.4
47.5°	450.8	450.8	466.0	416.7	397.8	466.0	507.6	519.0	640.2	655.4
50°	333.4	337.2	382.6	340.9	352.3	359.9	439.4	447.0	541.7	575.8
52.5°	223.5	223.5	231.1	265.2	306.9	295.5	356.1	382.6	431.9	477.3
55°	181.8	181.8	178.0	170.5	227.3	246.2	261.4	318.2	352.3	409.1
57.5°	125.0	132.6	121.2	140.2	147.7	185.6	197.0	250.0	269.0	344.7
60°	15.2	18.9	26.5	102.3	98.5	125.0	147.7	197.0	219.7	265.2
62.5°	3.8	3.8	7.6	18.9	68.2	83.3	117.4	136.4	159.1	204.6
65°	0.0	0.0	3.8	7.6	15.2	45.5	60.6	79.6	113.6	144.0
67.5°	0.0	0.0	3.8	7.6	7.6	18.9	30.3	49.2	60.6	106.1
70°	0.0	0.0	3.8	7.6	7.6	15.2	18.9	22.7	41.7	56.8
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	18.9	18.9	18.9	37.9
75°	0.0	0.0	3.8	7.6	11.4	15.2	18.9	18.9	15.2	15.2
77.5°	0.0	0.0	3.8	7.6	15.2	18.9	22.7	18.9	11.4	11.4
80°	0.0	0.0	3.8	11.4	18.9	26.5	30.3	22.7	11.4	7.6
82.5°	0.0	0.0	7.6	15.2	22.7	30.3	41.7	34.1	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.7	30.3	60.6	41.7	18.9	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	22.7	15.2	7.6	3.8
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°
345494.7	0°	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7	345494.7
339956.3	1°	342331.5	342570.2	341789.8	342998.3	342574.0	340088.9	339266.8	338293.2
326481.4	2°	325481.3	326697.3	326757.9	328099.0	328080.0	325182.0	324284.2	325939.7
302804.6	3°	301887.9	303304.7	302028.0	304410.9	303694.9	300179.4	299266.4	301145.4
272854.5	4°	272040.0	271771.1	271331.6	269975.4	271646.1	269248.1	267441.1	269990.6
238127.4	5°	237650.0	237051.5	236195.3	235793.8	237036.3	235502.1	231785.8	235509.7
203972.3	6°	204222.3	201646.3	201521.2	201297.7	201422.7	197126.8	197384.4	200157.5
166994.9	7°	168760.2	169233.7	168267.7	169817.1	168635.2	165725.8	164604.5	167525.2
141158.8	8°	140173.9	139575.3	138836.6	141151.2	139101.8	137192.5	135885.5	138192.6
115383.4	9°	115167.4	114133.2	113383.2	113265.7	113583.9	110000.2	110727.6	112474.0
93828.1	10°	93862.2	92165.0	92577.9	92687.8	92339.3	89990.5	90013.3	90615.6
57547.7	12.5°	57343.2	56509.7	56718.1	56831.7	57540.2	56714.3	55547.5	54706.5
36284.1	15°	36041.7	35443.1	36666.7	37488.8	37322.1	36587.2	36037.9	35276.4
24120.0	17.5°	23896.5	24680.6	24684.4	25434.5	25510.3	24775.3	24351.1	23665.4
15687.3	20°	15630.4	15956.2	16634.3	17164.7	17471.5	16910.9	16403.2	15933.5
9781.3	22.5°	9781.3	10349.6	10773.9	11463.3	11743.7	11334.5	10974.6	10592.0
6106.7	25°	6004.4	6409.8	6762.1	7360.6	7743.2	7546.2	7216.7	6947.7
3943.6	27.5°	4004.2	4174.7	4348.9	4761.9	5159.6	5049.8	4917.2	4754.3
2780.6	30°	2822.3	2837.4	3023.0	3254.1	3519.3	3587.5	3526.9	3443.5
2041.9	32.5°	2079.8	2140.4	2227.5	2371.5	2549.5	2712.4	2682.1	2644.2
1560.8	35°	1606.2	1697.1	1769.1	1879.0	1973.7	2129.0	2155.5	2144.2
1284.2	37.5°	1310.7	1390.3	1462.3	1526.7	1606.2	1712.3	1795.6	1799.4
1060.7	40°	1087.2	1159.2	1253.9	1303.2	1360.0	1439.5	1541.8	1549.4
897.8	42.5°	916.8	985.0	1079.7	1140.3	1181.9	1257.7	1360.0	1375.1
769.0	45°	788.0	829.6	928.1	1000.1	1041.8	1091.0	1200.9	1216.0
662.9	47.5°	685.7	727.3	788.0	890.2	928.1	973.6	1060.7	1087.2
587.2	50°	602.3	644.0	697.0	788.0	844.8	882.7	954.6	992.5
511.4	52.5°	534.1	575.8	632.6	704.6	769.0	803.1	871.3	920.6
416.7	55°	447.0	519.0	560.7	625.1	712.2	742.5	795.5	859.9
363.7	57.5°	390.2	450.8	511.4	564.5	651.6	689.5	742.5	803.1
287.9	60°	329.6	386.4	458.4	503.8	587.2	636.4	693.3	750.1
219.7	62.5°	261.4	337.2	386.4	450.8	530.4	594.8	640.2	697.0
170.5	65°	193.2	276.5	333.4	401.6	477.3	545.5	583.4	644.0
121.2	67.5°	140.2	215.9	284.1	348.5	420.5	488.7	526.6	579.6
75.8	70°	109.9	159.1	234.9	291.7	367.5	424.3	466.0	500.1
49.2	72.5°	64.4	121.2	189.4	253.8	322.0	359.9	390.2	420.5
22.7	75°	41.7	94.7	155.3	212.1	261.4	295.5	322.0	348.5
11.4	77.5°	26.5	68.2	125.0	178.0	200.8	242.4	265.2	280.3
7.6	80°	15.2	53.0	109.9	144.0	162.9	189.4	212.1	231.1
7.6	82.5°	11.4	45.5	90.9	121.2	121.2	151.5	162.9	162.9
3.8	85°	7.6	37.9	72.0	113.6	90.9	113.6	106.1	106.1
3.8	87.5°	7.6	26.5	34.1	49.2	41.7	49.2	49.2	56.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
345494.7  
334436.8  
318927.6  
292799.8  
260762.3  
225698.0  
192118.7  
159581.2  
131604.8  
107018.9  
86516.7  
54195.1  
34886.3  
23494.9  
15770.6  
10387.5  
6792.4  
4659.6  
3386.7  
2613.9  
2106.3  
1772.9  
1538.0  
1363.8  
1212.2  
1091.0  
996.3  
920.6  
863.7  
806.9  
765.2  
723.6  
655.4  
583.4  
511.4  
428.1  
348.5  
272.8  
208.4  
151.5  
102.3  
56.8  
0.0

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