

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: P638672

Luminaire Tested: **EPH-VN-03-E-730-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638672
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-730-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23072.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

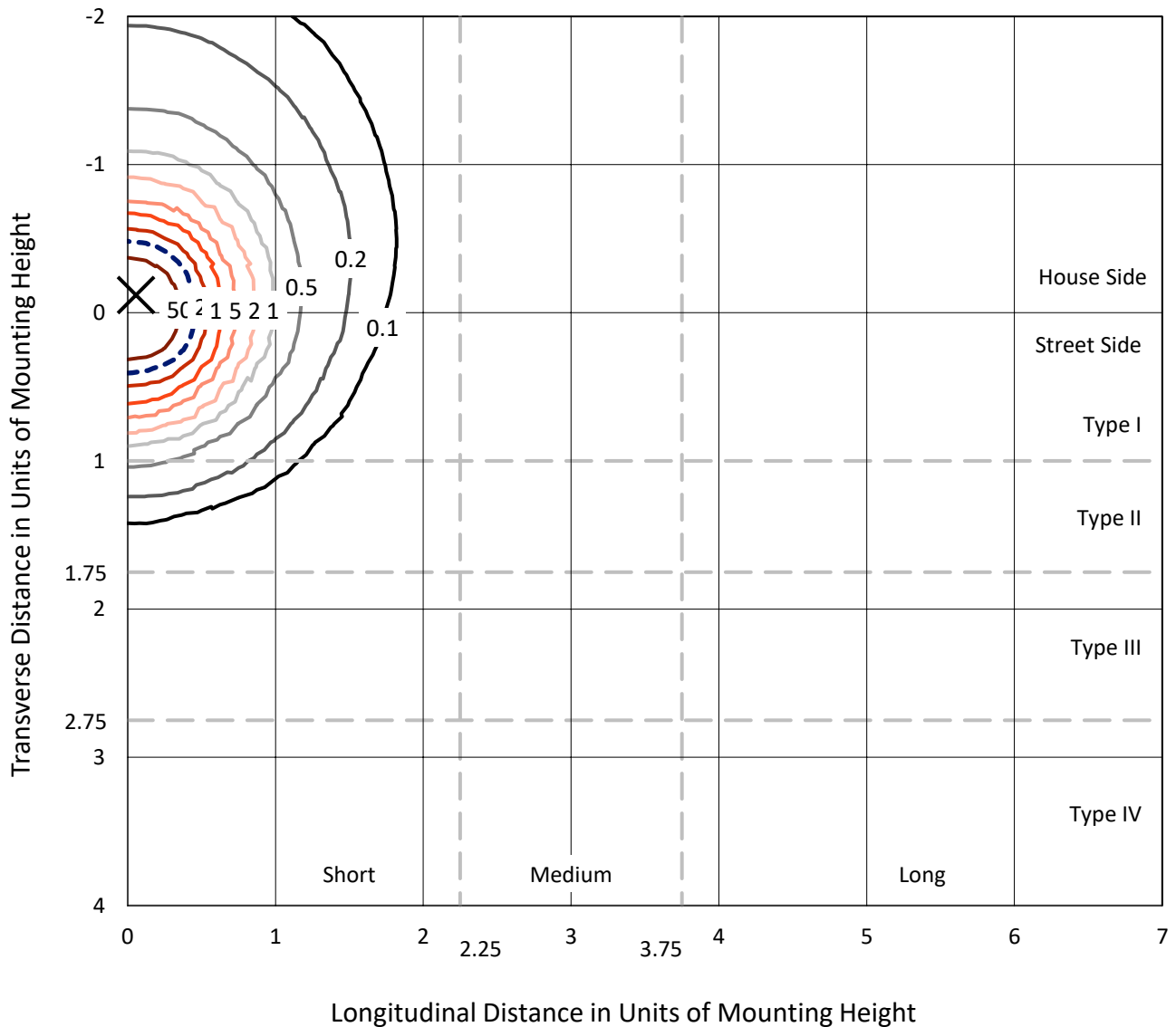
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

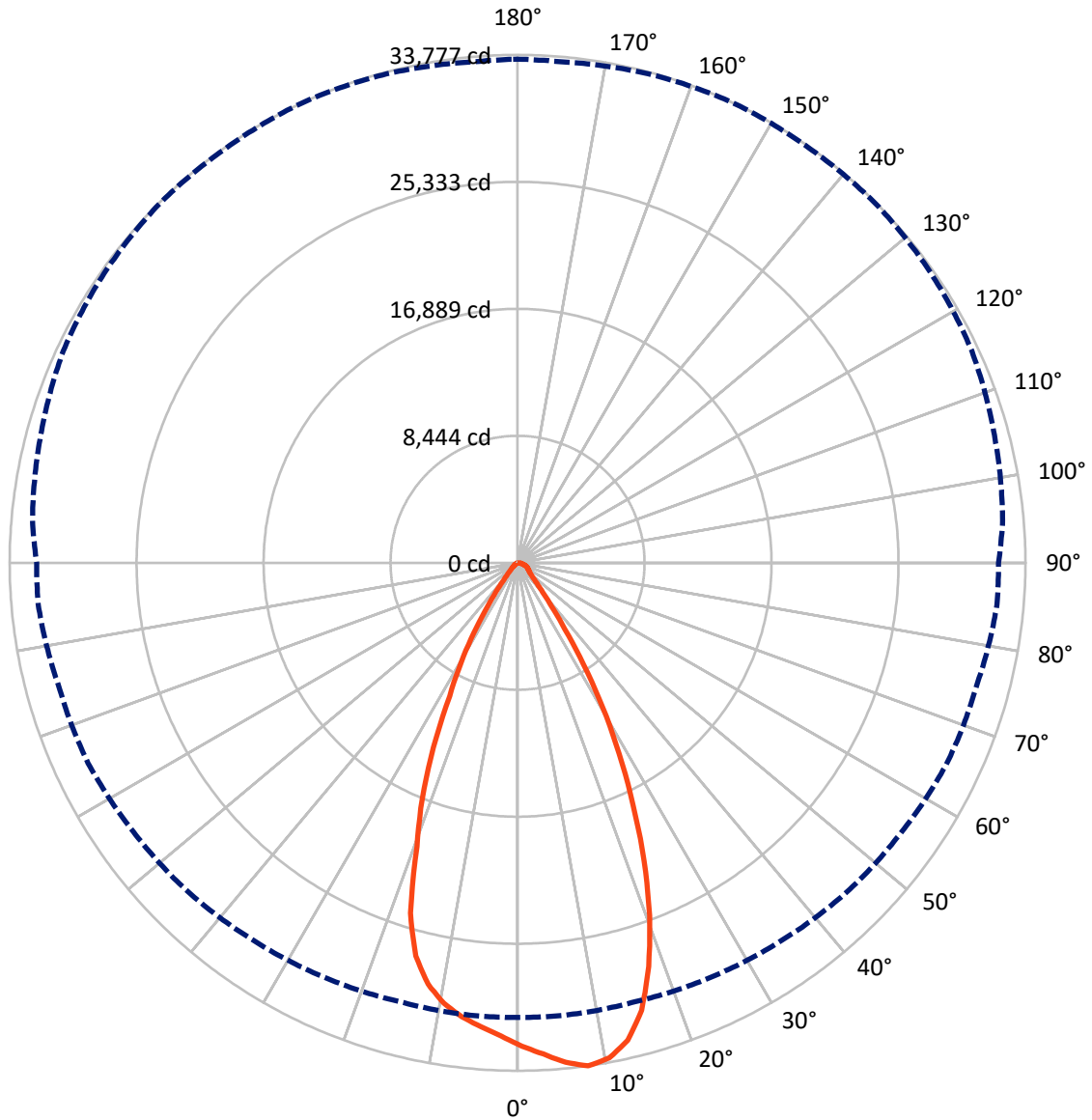
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 81.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12736.6	0.0	12736.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10335.4	0.0	10335.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	23072.1	0.0	23072.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3064.9	13.3
10°-20°	7947.2	34.4
20°-30°	7281.9	31.6
30°-40°	2941.9	12.8
40°-50°	863.0	3.7
50°-60°	482.5	2.1
60°-70°	293.1	1.3
70°-80°	148.9	0.6
80°-90°	48.7	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°	23072.1	100.0
0°-180°	23072.1	100.0

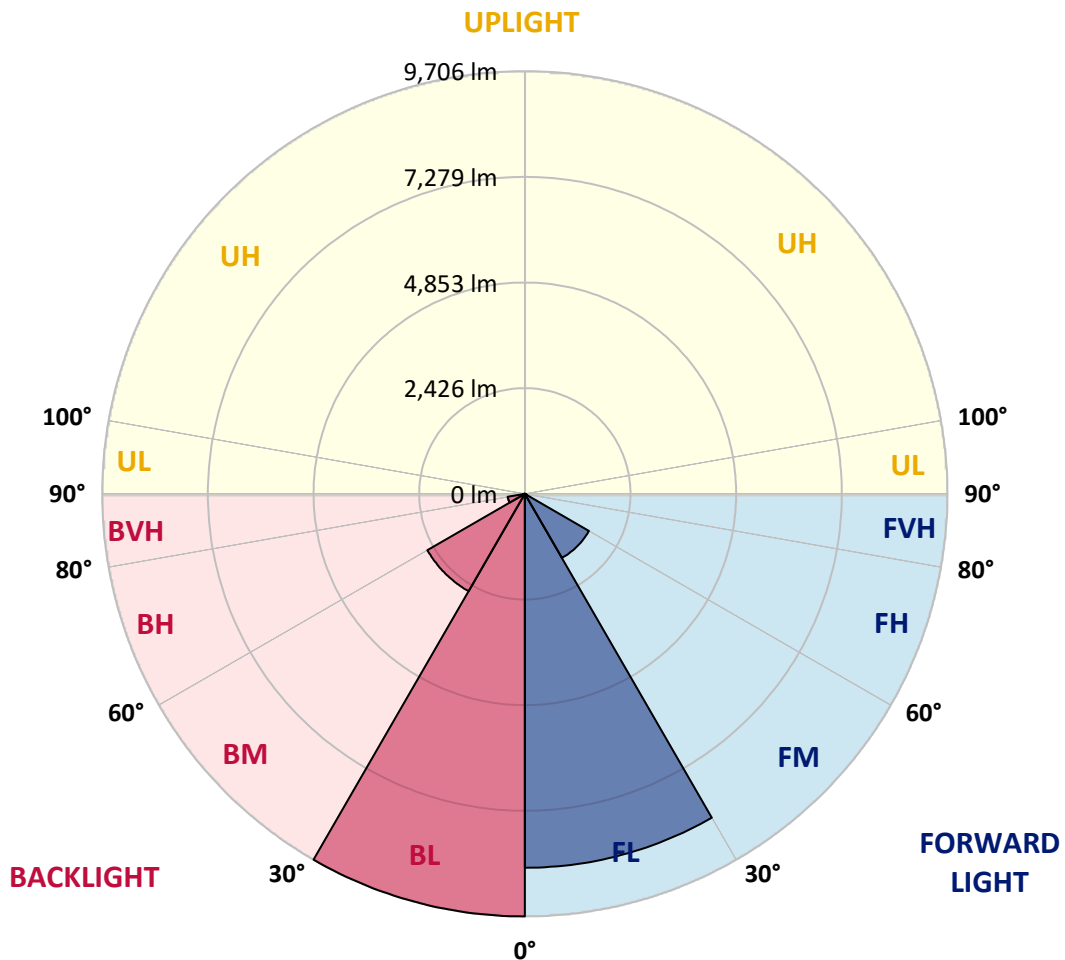


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8588.0	37.2			
FM (30°-60°)	1702.0	7.4			
FH (60°-80°)	41.2	0.2			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	9705.9	42.1	B5		
BM (30°-60°)	2585.4	11.2	B3/5000		
BH (60°-80°)	400.8	1.7	B1/500		G1/500
BVH (80°-90°)	44.5	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1
2.5°	31444.1	31550.5	31337.7	31478.7	31587.8	31848.5	31869.8	31960.2	31992.2	32228.9
5°	30848.2	30930.6	30757.7	30946.6	31100.9	31332.4	31510.6	31760.7	31899.0	32178.4
7.5°	30228.3	30246.9	30212.3	30411.8	30643.3	30962.6	31183.4	31510.6	31595.7	31994.8
10°	29478.0	29342.3	29408.8	29701.5	30047.3	30536.9	30688.5	31015.8	31167.4	31574.5
12.5°	28280.8	28350.0	28267.5	28640.0	28927.3	29483.3	29643.0	29972.9	30262.8	30622.0
15°	26594.1	26554.2	26721.8	27011.8	27323.0	27764.7	28022.7	28381.9	28602.7	28975.2
17.5°	22802.9	22938.6	23630.3	24356.6	24995.1	25511.2	25819.9	26117.8	26277.5	26681.9
20°	19692.8	19522.5	19615.6	20025.4	21842.5	22632.6	22957.2	23029.0	23095.5	23414.8
22.5°	16215.6	16159.7	16471.0	16931.2	17362.2	19184.7	19626.3	19458.7	19597.0	19897.7
25°	12041.3	12323.3	12600.0	13483.3	14042.0	14935.9	15773.9	15848.4	15899.0	16087.9
27.5°	9801.2	9702.7	9697.4	9944.8	10769.6	11514.5	12227.5	12392.5	12363.2	12544.1
30°	7704.7	7672.8	7561.1	7619.6	7537.1	8199.6	8534.8	9213.2	9176.0	9181.3
32.5°	5557.7	5438.0	5392.8	5480.6	5395.4	5334.2	5626.9	6393.1	6379.8	6433.0
35°	3362.8	3346.9	3384.1	3461.3	3291.0	3285.7	3346.9	4067.9	4155.7	4240.8
37.5°	1857.0	1841.0	1870.3	2155.0	2099.1	2048.6	2064.5	2445.0	2697.7	2761.6
40°	1223.8	1221.2	1242.4	1293.0	1388.8	1370.1	1378.1	1548.4	1787.8	1843.7
42.5°	819.4	822.1	835.4	893.9	907.2	1003.0	987.0	1026.9	1250.4	1298.3
45°	654.5	651.8	659.8	633.2	649.2	747.6	758.2	760.9	952.4	981.7
47.5°	516.1	516.1	524.1	489.5	481.5	542.7	598.6	606.6	760.9	800.8
50°	361.8	361.8	401.7	385.8	404.4	423.0	484.2	492.2	622.6	665.1
52.5°	266.0	271.4	276.7	279.3	340.5	337.9	391.1	428.3	470.9	545.4
55°	202.2	207.5	194.2	207.5	252.7	282.0	292.7	345.9	375.1	457.6
57.5°	133.0	146.3	135.7	159.6	170.3	218.2	234.1	284.7	303.3	375.1
60°	18.6	21.3	34.6	111.7	119.7	143.7	180.9	226.1	244.8	306.0
62.5°	2.7	2.7	8.0	18.6	79.8	95.8	135.7	157.0	180.9	228.8
65°	0.0	0.0	2.7	5.3	16.0	55.9	69.2	85.1	125.0	164.9
67.5°	0.0	0.0	2.7	5.3	8.0	18.6	29.3	55.9	71.8	114.4
70°	0.0	0.0	2.7	5.3	8.0	10.6	16.0	21.3	42.6	66.5
72.5°	0.0	0.0	2.7	5.3	8.0	10.6	13.3	16.0	18.6	42.6
75°	0.0	0.0	2.7	5.3	8.0	13.3	16.0	16.0	16.0	18.6
77.5°	0.0	0.0	2.7	5.3	10.6	16.0	18.6	16.0	13.3	13.3
80°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	16.0	10.6	8.0
82.5°	0.0	0.0	2.7	8.0	13.3	18.6	21.3	18.6	10.6	8.0
85°	0.0	0.0	2.7	8.0	10.6	13.3	21.3	18.6	10.6	5.3
87.5°	0.0	0.0	0.0	2.7	2.7	5.3	10.6	8.0	5.3	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°
32141.1	0°	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1	32141.1
32223.6	2.5°	32463.1	32582.8	32793.0	32851.5	33032.4	32824.9	32710.5	32721.1	32473.7
32143.8	5°	32463.1	32737.1	33104.2	33279.8	33412.8	33402.2	33372.9	33298.4	33117.5
31984.2	7.5°	32377.9	32824.9	33330.4	33564.5	33724.1	33710.8	33777.3	33657.6	33436.8
31699.5	10°	32103.9	32492.3	33114.9	33306.4	33564.5	33569.8	33487.3	33511.3	33117.5
30659.3	12.5°	31241.9	31545.2	32090.6	32308.7	32622.7	32673.2	32582.8	32548.2	32175.7
28953.9	15°	29573.8	29749.4	30297.4	30515.6	30826.9	30784.3	30874.8	30837.5	30510.3
26649.9	17.5°	27134.1	27190.0	27764.7	27948.2	28240.9	28355.3	28219.6	28392.5	28110.5
23470.7	20°	23635.6	23936.2	24582.7	24864.8	25035.0	25239.9	25061.6	25255.8	24925.9
19613.0	22.5°	20086.5	20264.8	20850.1	21257.2	21573.8	21613.7	21547.1	21682.8	21238.5
16212.9	25°	16210.2	16505.6	16968.5	17500.6	17811.8	18003.4	17830.5	17918.3	17846.4
12573.4	27.5°	12786.2	13049.6	13398.1	13794.5	14262.8	14512.9	14374.5	14523.5	14172.3
9375.5	30°	9383.5	9516.5	9910.3	10330.6	10844.1	11147.4	11160.7	11312.3	11104.8
6568.7	32.5°	6616.6	6733.6	6975.8	7255.1	7744.6	8082.5	8029.3	8050.6	7922.9
4280.7	35°	4302.0	4458.9	4631.9	4764.9	5060.2	5432.7	5403.4	5376.8	5289.0
2814.8	37.5°	2876.0	2937.2	3032.9	3152.7	3344.2	3578.3	3655.5	3559.7	3522.5
1899.6	40°	1944.8	2051.2	2115.1	2205.5	2296.0	2492.9	2546.1	2527.4	2490.2
1330.2	42.5°	1380.8	1463.3	1543.1	1630.9	1678.8	1801.1	1904.9	1875.6	1859.7
1011.0	45°	1048.2	1122.7	1215.8	1282.3	1330.2	1402.1	1500.5	1511.1	1487.2
811.4	47.5°	840.7	907.2	981.7	1064.2	1120.1	1165.3	1250.4	1282.3	1266.4
683.7	50°	713.0	763.6	835.4	917.9	979.1	1019.0	1093.5	1128.0	1117.4
572.0	52.5°	606.6	667.8	734.3	803.5	878.0	917.9	987.0	1037.6	1029.6
473.6	55°	502.8	582.6	651.8	721.0	806.1	846.0	907.2	973.7	960.4
401.7	57.5°	439.0	505.5	577.3	643.8	734.3	787.5	843.4	912.5	909.9
329.9	60°	367.1	433.7	513.5	569.3	665.1	739.6	790.2	862.0	867.3
250.1	62.5°	292.7	375.1	436.3	513.5	601.3	689.1	737.0	808.8	835.4
191.6	65°	218.2	308.6	377.8	454.9	537.4	635.9	678.4	750.3	776.9
138.3	67.5°	162.3	231.5	319.3	385.8	478.9	564.0	614.6	681.1	699.7
82.5	70°	122.4	178.3	266.0	324.6	420.4	489.5	540.1	590.6	614.6
55.9	72.5°	71.8	133.0	210.2	279.3	361.8	420.4	457.6	497.5	513.5
26.6	75°	50.5	101.1	164.9	231.5	292.7	340.5	375.1	409.7	425.7
13.3	77.5°	26.6	74.5	130.4	186.2	228.8	268.7	303.3	329.9	340.5
10.6	80°	16.0	53.2	106.4	146.3	175.6	210.2	244.8	263.4	260.7
8.0	82.5°	10.6	42.6	77.2	106.4	127.7	154.3	178.3	191.6	191.6
5.3	85°	8.0	29.3	53.2	82.5	85.1	106.4	111.7	125.0	127.7
5.3	87.5°	5.3	18.6	29.3	47.9	45.2	55.9	58.5	66.5	71.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32141.1
32274.2
33176.1
33487.3
33003.1
32090.6
30614.0
28041.4
24899.3
21177.3
17801.2
14262.8
11142.0
7994.7
5211.9
3514.5
2495.5
1846.4
1484.5
1258.4
1114.7
1024.3
960.4
907.2
867.3
832.7
774.2
699.7
609.2
508.1
420.4
337.9
258.1
188.9
125.0
69.2
0.0

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