

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: P638648

Luminaire Tested: **EPH-VN-03-E-930-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638648
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-930-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16649.8 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

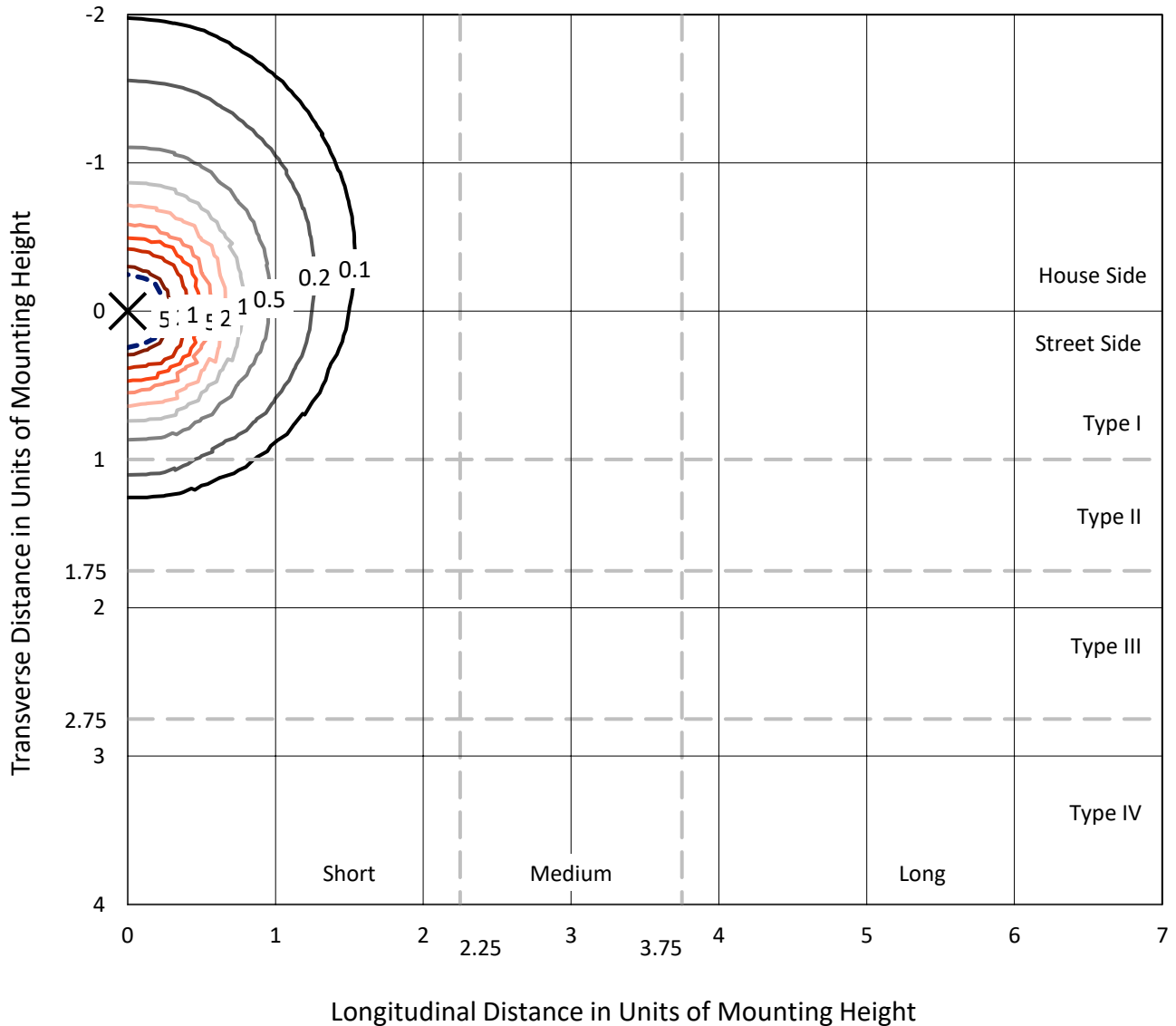
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

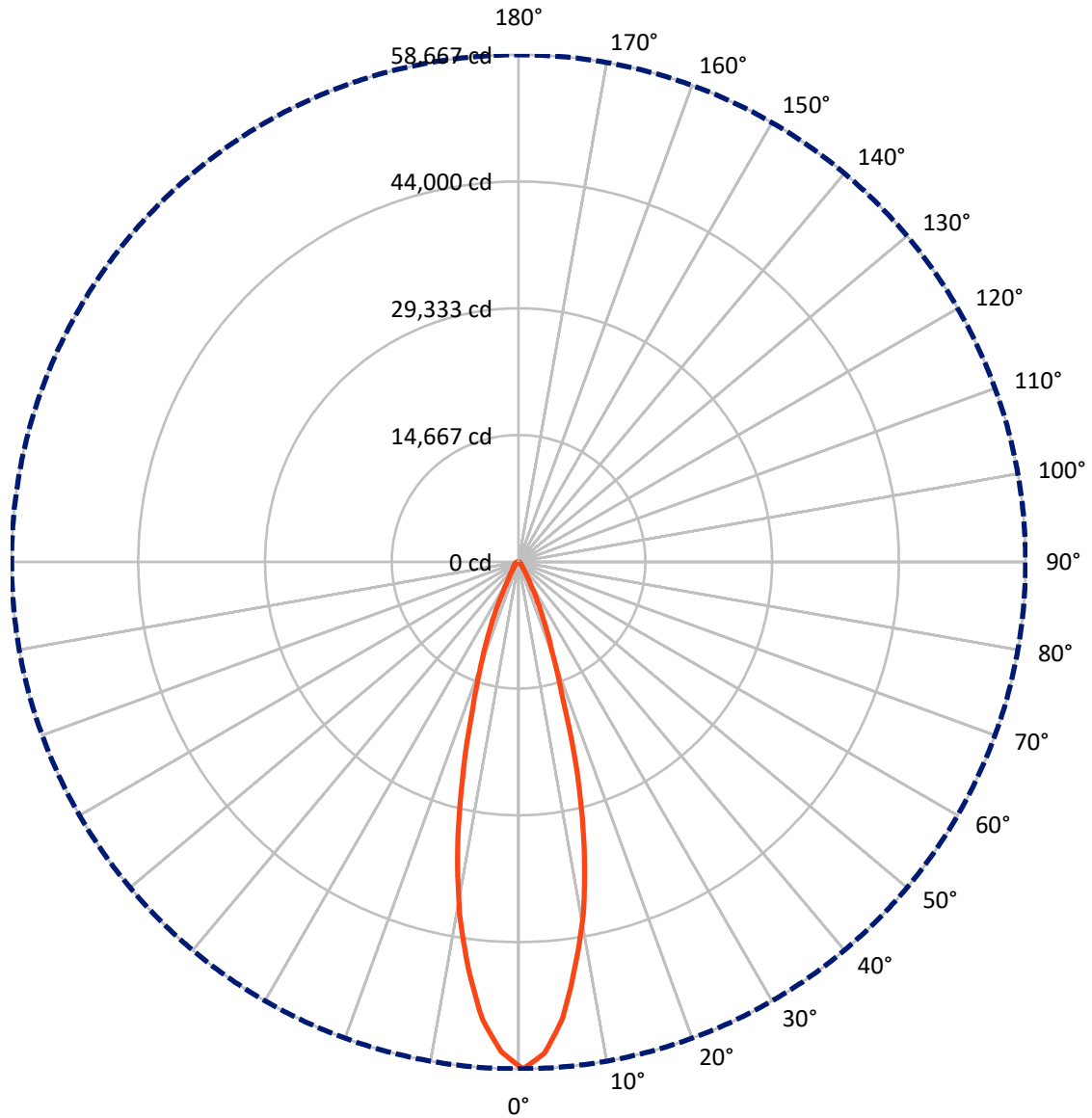
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 146.7 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
House Side	Lumens	8778.9	0.0	8778.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7870.9	0.0	7870.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	16649.8	0.0	16649.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4734.9	28.4
10°-20°	7171.0	43.1
20°-30°	3026.2	18.2
30°-40°	789.3	4.7
40°-50°	399.2	2.4
50°-60°	260.9	1.6
60°-70°	156.3	0.9
70°-80°	82.2	0.5
80°-90°	29.7	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°	16649.8	100.0
0°-180°	16649.8	100.0

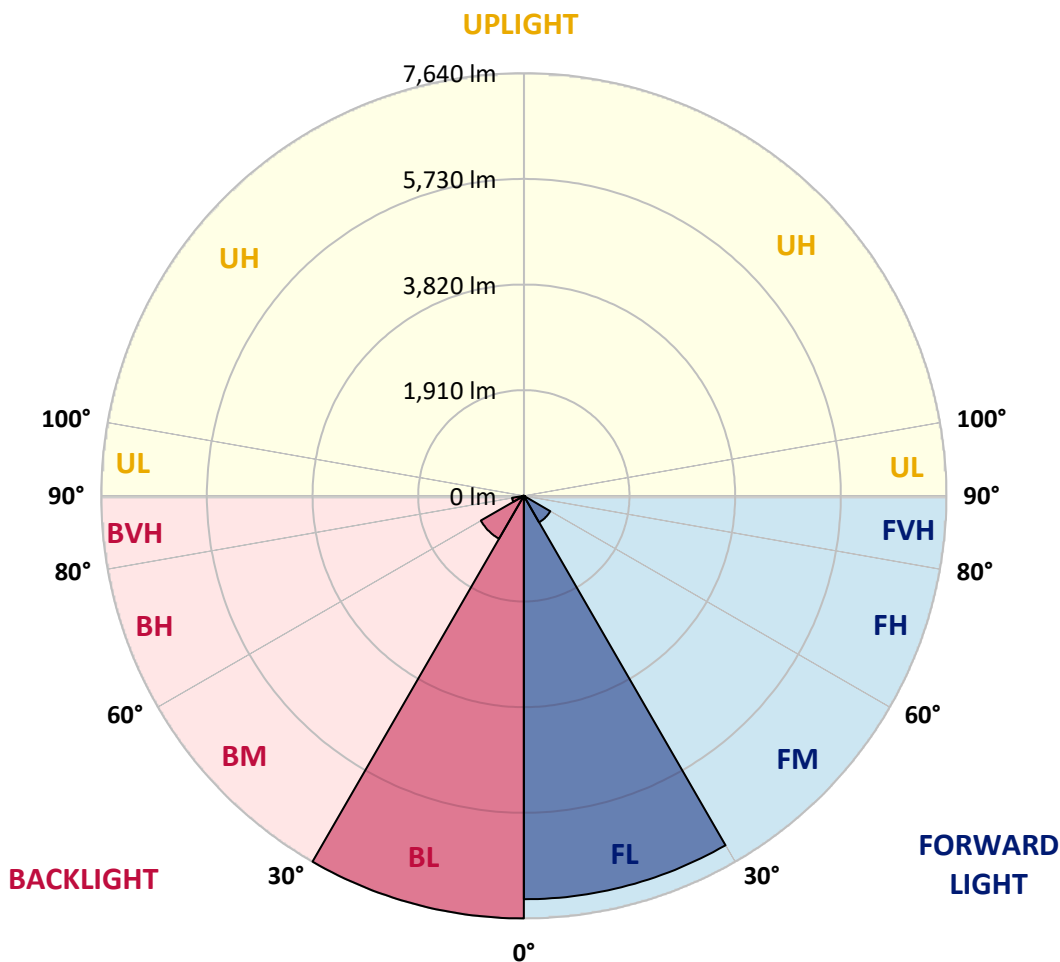


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7292.5	43.8			
FM (30°-60°)	552.3	3.3			
FH (60°-80°)	22.5	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7639.6	45.9	B5		
BM (30°-60°)	897.1	5.4	B1/1000		
BH (60°-80°)	216.1	1.3	B1/500		G0/660
BVH (80°-90°)	26.1	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°	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7
2.5°	56957.8	56989.5	56871.7	57126.0	56927.8	57458.9	57195.2	57606.6	57468.2	57698.2
5°	53068.6	53016.2	52982.6	53377.1	53263.0	53833.3	53468.7	53349.0	53719.3	53651.9
7.5°	47195.5	47333.9	47255.4	47358.2	47416.2	48066.9	48272.5	48111.7	48117.4	48210.8
10°	41174.8	40971.0	40681.2	40873.8	41281.4	41565.6	41451.5	41687.1	41634.8	41857.3
12.5°	33766.7	33927.5	33764.8	33592.8	34305.2	34226.6	34424.8	34553.8	34230.4	34950.2
15°	25434.8	25519.0	25717.2	25704.1	26251.9	26362.3	26336.1	26472.6	26220.2	26339.8
17.5°	16340.2	16624.4	17157.3	18058.5	19071.9	19189.7	19159.8	19047.6	18926.1	18791.5
20°	10975.7	10945.8	11138.4	11402.0	13499.9	14055.3	14038.4	13686.9	13178.3	13081.1
22.5°	7688.6	7744.7	7718.5	7980.3	8414.1	9945.4	9756.6	9399.5	9233.1	9124.6
25°	5057.8	5037.2	5168.1	5246.6	5618.7	5805.7	6467.6	6334.9	6078.7	6106.8
27.5°	3083.3	3109.5	3158.1	3225.4	3489.0	3429.2	3806.9	3857.4	3775.1	3687.2
30°	1892.2	1910.9	1950.2	1998.8	2090.4	2025.0	2129.7	2311.1	2281.2	2219.4
32.5°	1284.6	1286.4	1314.5	1333.2	1321.9	1260.2	1293.9	1465.9	1469.7	1464.1
35°	923.7	923.7	949.9	964.8	933.0	882.5	888.2	994.7	1041.5	1050.8
37.5°	637.6	639.5	684.3	729.2	693.7	680.6	658.2	729.2	804.0	815.2
40°	484.3	482.4	504.8	538.5	542.2	517.9	525.4	570.3	646.9	656.3
42.5°	392.7	394.5	405.7	402.0	403.9	435.7	446.9	467.4	538.5	555.3
45°	331.0	332.8	338.4	319.7	312.3	360.9	375.8	387.0	446.9	467.4
47.5°	273.0	276.7	282.3	261.8	258.0	289.8	316.0	327.2	379.6	402.0
50°	196.3	200.1	220.6	209.4	220.6	228.1	263.6	280.5	316.0	345.9
52.5°	142.1	145.8	151.5	153.3	181.4	185.1	211.3	237.5	254.3	287.9
55°	112.2	115.9	112.2	108.4	132.8	153.3	162.7	190.7	203.8	243.1
57.5°	63.6	67.3	72.9	84.1	87.9	117.8	127.1	151.5	162.7	200.1
60°	11.2	13.1	20.6	50.5	61.7	74.8	95.4	115.9	130.9	157.1
62.5°	1.9	1.9	3.7	11.2	35.5	52.4	69.2	82.3	95.4	119.7
65°	0.0	0.0	1.9	3.7	9.3	29.9	37.4	48.6	65.4	86.0
67.5°	0.0	0.0	1.9	3.7	5.6	11.2	16.8	29.9	37.4	58.0
70°	0.0	0.0	1.9	3.7	5.6	7.5	9.3	13.1	22.4	35.5
72.5°	0.0	0.0	1.9	3.7	5.6	7.5	9.3	11.2	11.2	22.4
75°	0.0	0.0	1.9	3.7	5.6	9.3	11.2	11.2	9.3	9.3
77.5°	0.0	0.0	1.9	3.7	7.5	11.2	13.1	11.2	7.5	7.5
80°	0.0	0.0	3.7	5.6	9.3	13.1	16.8	13.1	7.5	3.7
82.5°	0.0	0.0	3.7	7.5	9.3	15.0	20.6	16.8	7.5	3.7
85°	0.0	0.0	1.9	5.6	11.2	15.0	20.6	15.0	7.5	1.9
87.5°	0.0	0.0	1.9	1.9	3.7	5.6	11.2	9.3	3.7	1.9
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°
58666.7	0°	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7	58666.7
57262.5	2.5°	57591.6	57890.8	57952.5	57870.2	57989.9	57774.9	57610.3	57184.0	56927.8
53631.4	5°	53977.3	53932.4	54244.7	54347.5	54334.4	54169.9	53939.9	53681.9	53431.3
48029.5	7.5°	48328.6	48386.6	48670.8	48852.2	48760.6	48554.9	48396.0	48201.5	48033.2
41937.7	10°	42321.0	41922.7	42276.1	42276.1	42521.0	41939.5	41993.8	41503.9	41526.3
34937.2	12.5°	35056.8	35200.8	35258.8	35425.2	35139.1	34830.6	34452.9	34378.1	34144.4
26111.7	15°	26487.5	26898.9	26545.5	27149.4	26857.8	26536.2	26478.2	25898.6	26081.8
18939.2	17.5°	18845.7	19300.0	19442.1	19788.1	19522.5	19331.8	19090.6	18914.9	18901.8
13258.7	20°	13363.4	13819.7	13924.4	14339.5	14309.6	14249.7	14045.9	13823.4	13582.2
9025.5	22.5°	9162.0	9534.1	9881.9	10440.9	10431.6	10255.8	10235.3	9921.1	9926.8
6097.4	25°	6161.0	6432.1	6514.4	7086.5	7150.1	7131.4	7024.8	6733.1	6843.5
3724.6	27.5°	3728.4	3965.8	4244.4	4446.4	4637.1	4607.2	4500.6	4337.9	4266.9
2238.1	30°	2298.0	2404.6	2507.4	2750.5	2864.5	2924.4	2873.9	2722.4	2733.6
1473.4	32.5°	1505.2	1594.9	1669.7	1823.1	1882.9	1993.2	1972.6	1940.8	1903.5
1060.2	35°	1097.6	1163.0	1213.5	1284.6	1361.2	1454.7	1469.7	1456.6	1441.6
819.0	37.5°	837.7	905.0	962.9	992.9	1052.7	1125.6	1166.8	1164.9	1153.7
667.5	40°	680.6	731.1	783.4	822.7	863.8	918.1	968.6	974.2	974.2
560.9	42.5°	568.4	611.4	663.8	704.9	734.8	785.3	837.7	841.4	837.7
474.9	45°	486.1	523.5	574.0	622.6	646.9	684.3	734.8	746.0	738.6
407.6	47.5°	422.6	456.2	499.2	551.6	577.8	611.4	658.2	671.3	669.4
351.5	50°	362.7	402.0	445.0	488.0	521.7	553.5	598.3	613.3	607.7
299.2	52.5°	319.7	355.3	392.7	439.4	478.7	506.7	542.2	568.4	560.9
252.4	55°	267.4	310.4	349.7	388.9	437.5	467.4	501.1	532.9	525.4
213.2	57.5°	231.9	267.4	312.3	347.8	396.4	431.9	465.6	499.2	497.4
173.9	60°	194.5	231.9	274.9	312.3	357.1	396.4	430.1	467.4	471.2
130.9	62.5°	153.3	198.2	235.6	278.6	323.5	366.5	396.4	433.8	439.4
99.1	65°	115.9	162.7	203.8	244.9	289.8	336.6	362.7	394.5	400.1
72.9	67.5°	86.0	125.3	173.9	211.3	258.0	302.9	327.2	353.4	362.7
44.9	70°	65.4	95.4	145.8	181.4	230.0	265.5	291.7	314.1	321.6
29.9	72.5°	41.1	74.8	117.8	155.2	198.2	230.0	248.7	261.8	273.0
16.8	75°	28.0	58.0	95.4	132.8	164.5	188.8	205.7	216.9	226.2
7.5	77.5°	16.8	44.9	78.5	110.3	130.9	149.6	166.4	173.9	179.5
5.6	80°	9.3	33.7	65.4	89.8	102.8	115.9	129.0	138.4	142.1
3.7	82.5°	5.6	26.2	52.4	69.2	74.8	87.9	101.0	106.6	106.6
1.9	85°	3.7	18.7	35.5	50.5	54.2	63.6	67.3	71.1	74.8
1.9	87.5°	3.7	11.2	22.4	28.0	29.9	33.7	35.5	39.3	43.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
58666.7
56739.0
53150.8
47462.9
41307.6
33931.2
25898.6
18554.0
13477.5
9818.3
6669.6
4205.2
2685.0
1890.4
1436.0
1148.1
962.9
833.9
738.6
665.6
603.9
559.1
529.2
499.2
473.1
443.1
405.7
366.5
325.3
271.1
224.4
177.6
138.4
104.7
72.9
41.1
0.0

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