

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: P638667

Luminaire Tested: **EPH-VN-04-E-950-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638667
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-950-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (64) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24375.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

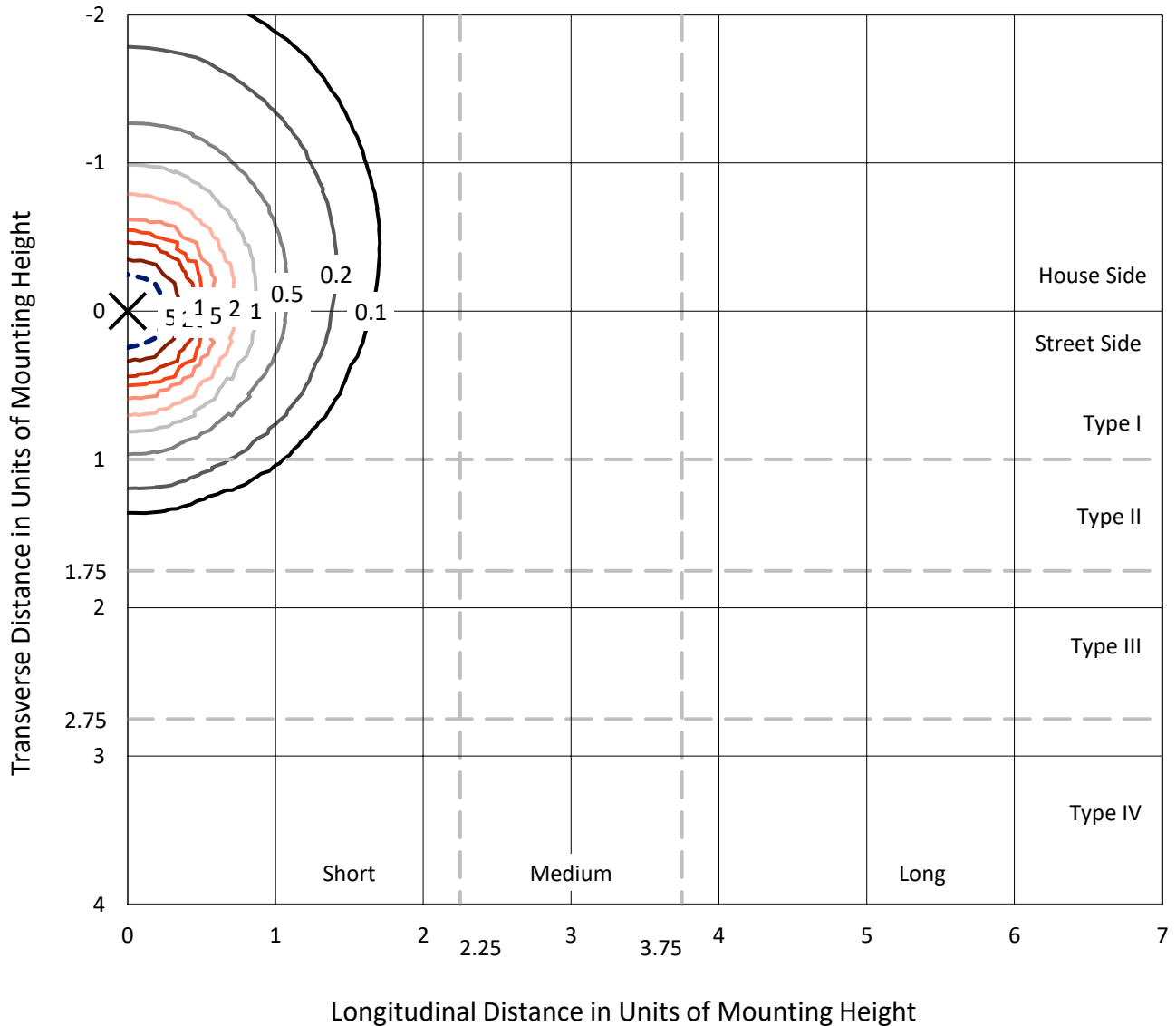
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: EPH-VN-04-E-950-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

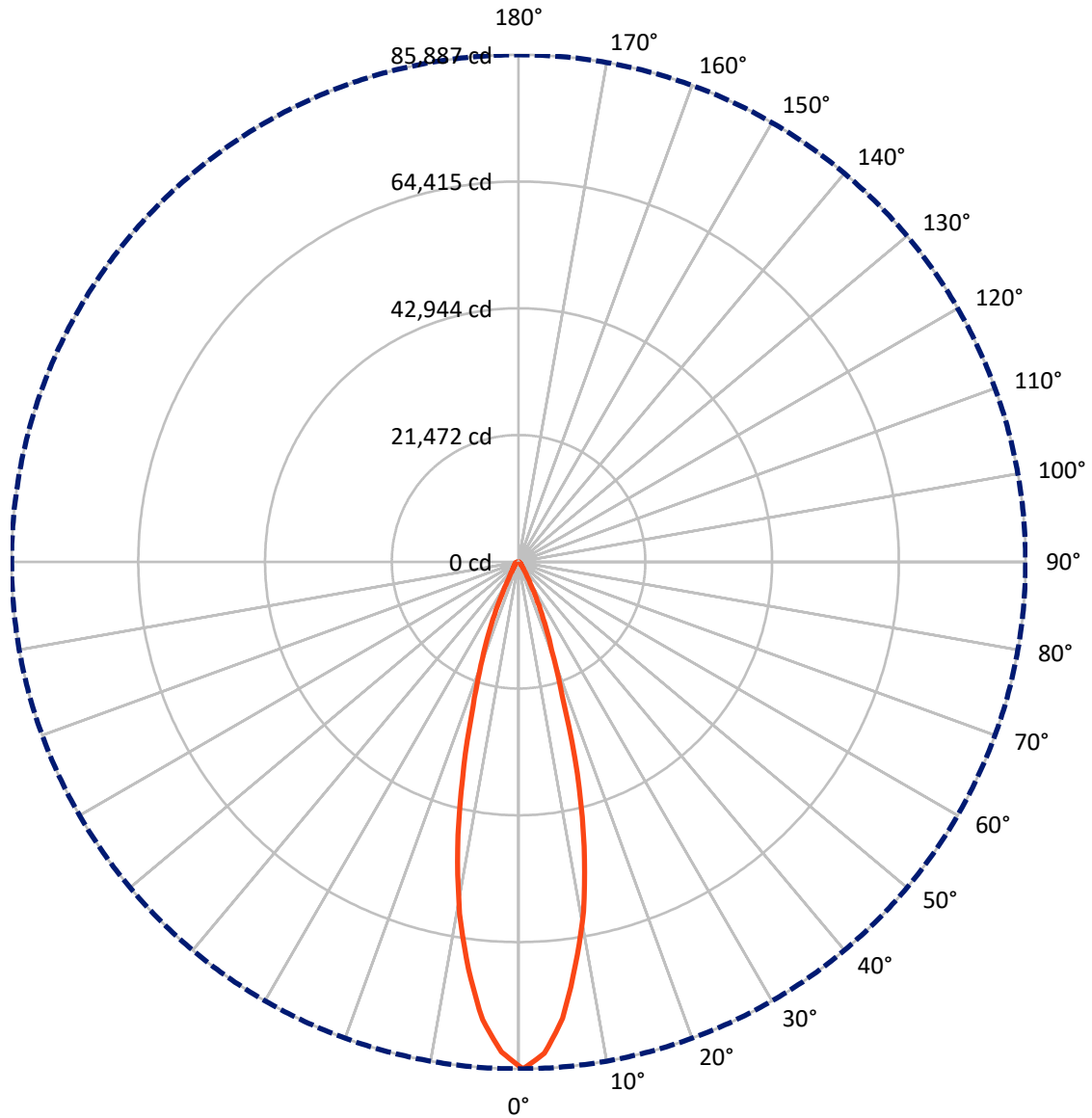
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 214.7 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	12852.2	0.0	12852.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11522.9	0.0	11522.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	24375.1	0.0	24375.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6931.9	28.4
10°-20°	10498.3	43.1
20°-30°	4430.3	18.2
30°-40°	1155.5	4.7
40°-50°	584.4	2.4
50°-60°	382.0	1.6
60°-70°	228.9	0.9
70°-80°	120.4	0.5
80°-90°	43.5	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°	24375.1	100.0
0°-180°	24375.1	100.0



REPORT NUMBER: P638667

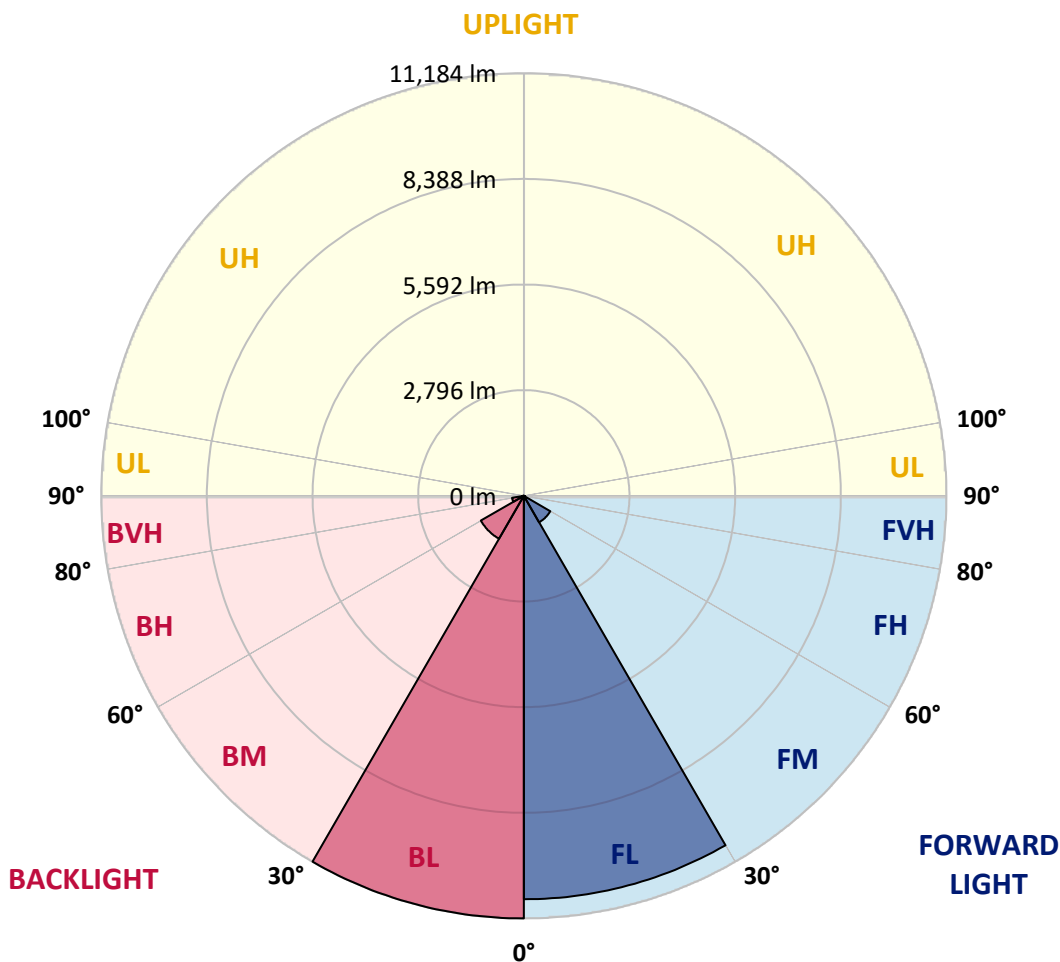
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10676.1	43.8			
FM (30°-60°)	808.5	3.3			
FH (60°-80°)	32.9	0.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	11184.3	45.9	B5		
BM (30°-60°)	1313.3	5.4	B2/2500		
BH (60°-80°)	316.3	1.3	B1/500		G0/660
BVH (80°-90°)	38.2	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°	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3
2.5°	83385.3	83431.9	83259.4	83631.7	83341.5	84118.9	83733.0	84335.2	84132.6	84469.3
5°	77691.6	77615.0	77565.7	78143.3	77976.3	78811.2	78277.4	78102.2	78644.2	78545.7
7.5°	69093.6	69296.1	69181.2	69331.7	69416.6	70369.2	70670.3	70434.9	70443.1	70580.0
10°	60279.3	59980.9	59556.6	59838.6	60435.3	60851.4	60684.4	61029.3	60952.7	61278.4
12.5°	49433.9	49669.3	49431.2	49179.3	50222.3	50107.3	50397.4	50586.3	50112.8	51166.6
15°	37236.2	37359.4	37649.6	37630.4	38432.5	38594.0	38555.6	38755.5	38385.9	38561.1
17.5°	23921.7	24337.8	25118.0	26437.4	27921.0	28093.5	28049.7	27885.4	27707.5	27510.4
20°	16068.3	16024.5	16306.4	16692.4	19763.7	20576.7	20552.1	20037.4	19292.9	19150.5
22.5°	11256.0	11338.1	11299.8	11683.0	12318.1	14560.0	14283.5	13760.7	13517.1	13358.3
25°	7404.5	7374.4	7566.0	7681.0	8225.8	8499.5	9468.5	9274.2	8899.1	8940.2
27.5°	4513.9	4552.2	4623.4	4721.9	5107.9	5020.3	5573.3	5647.2	5526.7	5398.1
30°	2770.2	2797.6	2855.1	2926.2	3060.4	2964.6	3117.8	3383.4	3339.6	3249.2
32.5°	1880.6	1883.3	1924.4	1951.7	1935.3	1845.0	1894.2	2146.1	2151.6	2143.3
35°	1352.3	1352.3	1390.6	1412.5	1365.9	1292.0	1300.2	1456.3	1524.7	1538.4
37.5°	933.4	936.2	1001.9	1067.6	1015.6	996.4	963.5	1067.6	1177.1	1193.5
40°	709.0	706.2	739.1	788.4	793.8	758.2	769.2	834.9	947.1	960.8
42.5°	574.8	577.6	594.0	588.5	591.3	637.8	654.2	684.3	788.4	813.0
45°	484.5	487.2	495.5	468.1	457.1	528.3	550.2	566.6	654.2	684.3
47.5°	399.7	405.1	413.3	383.2	377.8	424.3	462.6	479.0	555.7	588.5
50°	287.4	292.9	323.0	306.6	323.0	334.0	386.0	410.6	462.6	506.4
52.5°	208.0	213.5	221.7	224.5	265.5	271.0	309.3	347.6	372.3	421.6
55°	164.2	169.7	164.2	158.8	194.4	224.5	238.1	279.2	298.4	355.9
57.5°	93.1	98.5	106.8	123.2	128.7	172.5	186.1	221.7	238.1	292.9
60°	16.4	19.2	30.1	73.9	90.3	109.5	139.6	169.7	191.6	229.9
62.5°	2.7	2.7	5.5	16.4	52.0	76.6	101.3	120.4	139.6	175.2
65°	0.0	0.0	2.7	5.5	13.7	43.8	54.7	71.2	95.8	125.9
67.5°	0.0	0.0	2.7	5.5	8.2	16.4	24.6	43.8	54.7	84.9
70°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	19.2	32.8	52.0
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	16.4	16.4	32.8
75°	0.0	0.0	2.7	5.5	8.2	13.7	16.4	16.4	13.7	13.7
77.5°	0.0	0.0	2.7	5.5	10.9	16.4	19.2	16.4	10.9	10.9
80°	0.0	0.0	5.5	8.2	13.7	19.2	24.6	19.2	10.9	5.5
82.5°	0.0	0.0	5.5	10.9	13.7	21.9	30.1	24.6	10.9	5.5
85°	0.0	0.0	2.7	8.2	16.4	21.9	30.1	21.9	10.9	2.7
87.5°	0.0	0.0	2.7	2.7	5.5	8.2	16.4	13.7	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



REPORT NUMBER: P638667

CATALOG NUMBER: EPH-VN-04-E-950-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
85887.3	0°	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3	85887.3
83831.5	2.5°	84313.3	84751.3	84841.6	84721.1	84896.3	84581.5	84340.7	83716.5	83341.5
78515.6	5°	79022.0	78956.3	79413.4	79564.0	79544.8	79303.9	78967.2	78589.5	78222.7
70314.4	7.5°	70752.4	70837.3	71253.4	71518.9	71384.8	71083.6	70851.0	70566.3	70319.9
61396.1	10°	61957.3	61374.2	61891.6	61891.6	62250.2	61398.9	61478.3	60761.1	60793.9
51147.5	12.5°	51322.7	51533.5	51618.3	51861.9	51443.1	50991.5	50438.5	50329.0	49986.8
38227.2	15°	38777.4	39379.6	38862.2	39746.4	39319.4	38848.5	38763.7	37915.1	38183.4
27726.7	17.5°	27589.8	28255.0	28463.0	28969.4	28580.7	28301.5	27948.4	27691.1	27671.9
19410.6	20°	19563.9	20231.8	20385.1	20992.8	20949.0	20861.4	20563.0	20237.3	19884.1
13213.2	22.5°	13413.0	13957.8	14466.9	15285.4	15271.7	15014.4	14984.3	14524.4	14532.6
8926.5	25°	9019.6	9416.5	9536.9	10374.6	10467.6	10440.3	10284.2	9857.2	10018.7
5452.8	27.5°	5458.3	5805.9	6213.8	6509.4	6788.6	6744.8	6588.8	6350.7	6246.6
3276.6	30°	3364.2	3520.2	3670.8	4026.6	4193.6	4281.2	4207.3	3985.6	4002.0
2157.0	32.5°	2203.6	2335.0	2444.5	2668.9	2756.5	2918.0	2887.9	2841.4	2786.6
1552.1	35°	1606.8	1702.6	1776.5	1880.6	1992.8	2129.7	2151.6	2132.4	2110.5
1199.0	37.5°	1226.3	1324.9	1409.7	1453.5	1541.1	1647.9	1708.1	1705.4	1688.9
977.2	40°	996.4	1070.3	1147.0	1204.4	1264.7	1344.0	1418.0	1426.2	1426.2
821.2	42.5°	832.2	895.1	971.8	1032.0	1075.8	1149.7	1226.3	1231.8	1226.3
695.3	45°	711.7	766.5	840.4	911.5	947.1	1001.9	1075.8	1092.2	1081.3
596.7	47.5°	618.6	667.9	730.9	807.5	845.8	895.1	963.5	982.7	980.0
514.6	50°	531.0	588.5	651.5	714.4	763.7	810.3	876.0	897.9	889.6
438.0	52.5°	468.1	520.1	574.8	643.3	700.8	741.8	793.8	832.2	821.2
369.5	55°	391.4	454.4	511.9	569.4	640.5	684.3	733.6	780.1	769.2
312.1	57.5°	339.4	391.4	457.1	509.1	580.3	632.3	681.6	730.9	728.1
254.6	60°	284.7	339.4	402.4	457.1	522.8	580.3	629.6	684.3	689.8
191.6	62.5°	224.5	290.2	344.9	407.9	473.6	536.5	580.3	635.1	643.3
145.1	65°	169.7	238.1	298.4	358.6	424.3	492.7	531.0	577.6	585.8
106.8	67.5°	125.9	183.4	254.6	309.3	377.8	443.5	479.0	517.4	531.0
65.7	70°	95.8	139.6	213.5	265.5	336.7	388.7	427.0	459.9	470.8
43.8	72.5°	60.2	109.5	172.5	227.2	290.2	336.7	364.1	383.2	399.7
24.6	75°	41.1	84.9	139.6	194.4	240.9	276.5	301.1	317.5	331.2
10.9	77.5°	24.6	65.7	115.0	161.5	191.6	219.0	243.6	254.6	262.8
8.2	80°	13.7	49.3	95.8	131.4	150.6	169.7	188.9	202.6	208.0
5.5	82.5°	8.2	38.3	76.6	101.3	109.5	128.7	147.8	156.0	156.0
2.7	85°	5.5	27.4	52.0	73.9	79.4	93.1	98.5	104.0	109.5
2.7	87.5°	5.5	16.4	32.8	41.1	43.8	49.3	52.0	57.5	63.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
85887.3
83065.0
77812.1
69485.0
60473.7
49674.8
37915.1
27162.8
19730.9
14373.9
9764.1
6156.3
3930.8
2767.5
2102.3
1680.7
1409.7
1220.9
1081.3
974.5
884.2
818.5
774.7
730.9
692.6
648.8
594.0
536.5
476.3
396.9
328.5
260.0
202.6
153.3
106.8
60.2
0.0

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