

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: P638715

Luminaire Tested: **EPH-VN-04-E-940-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638715
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-940-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23739.7 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

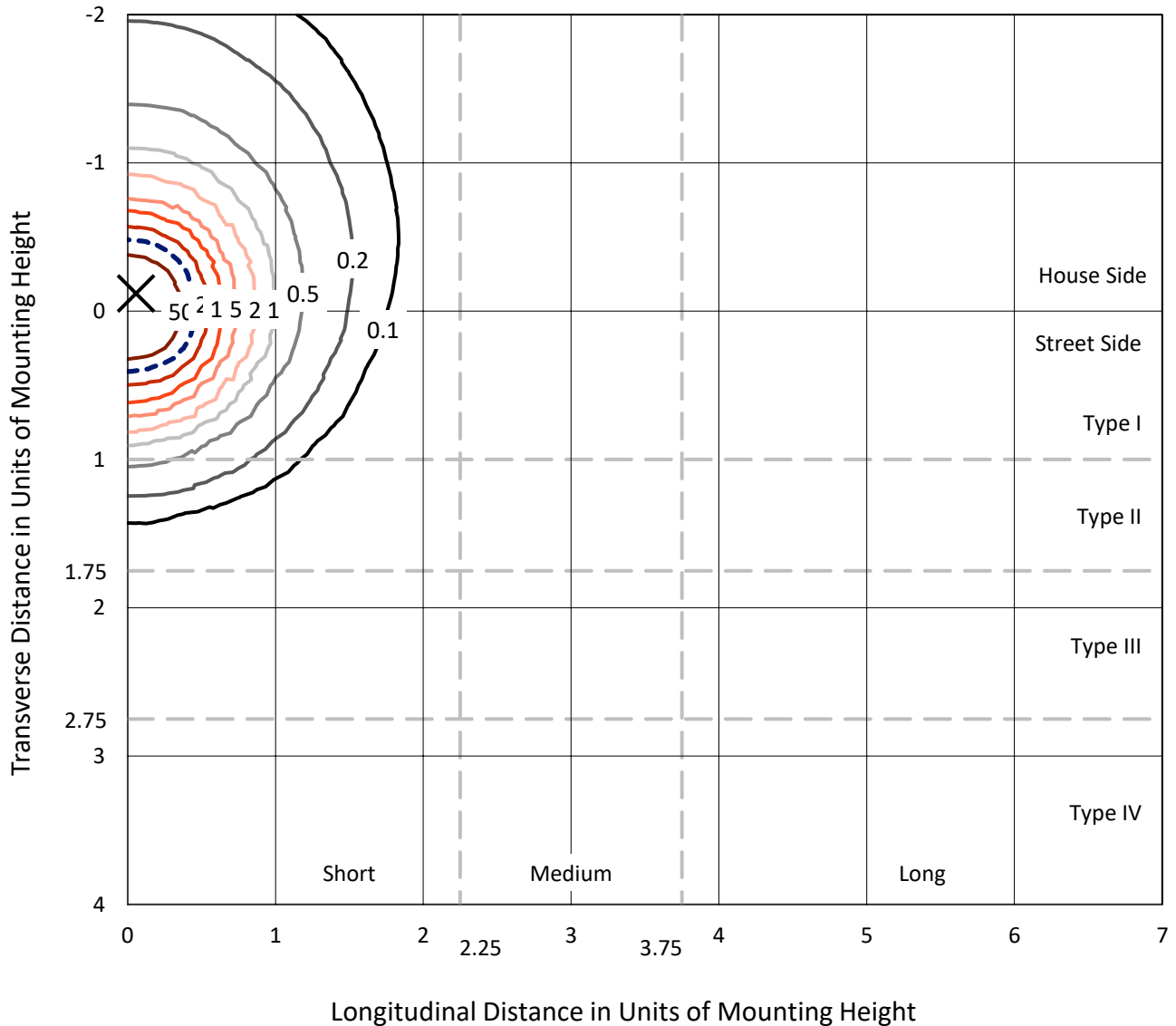
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

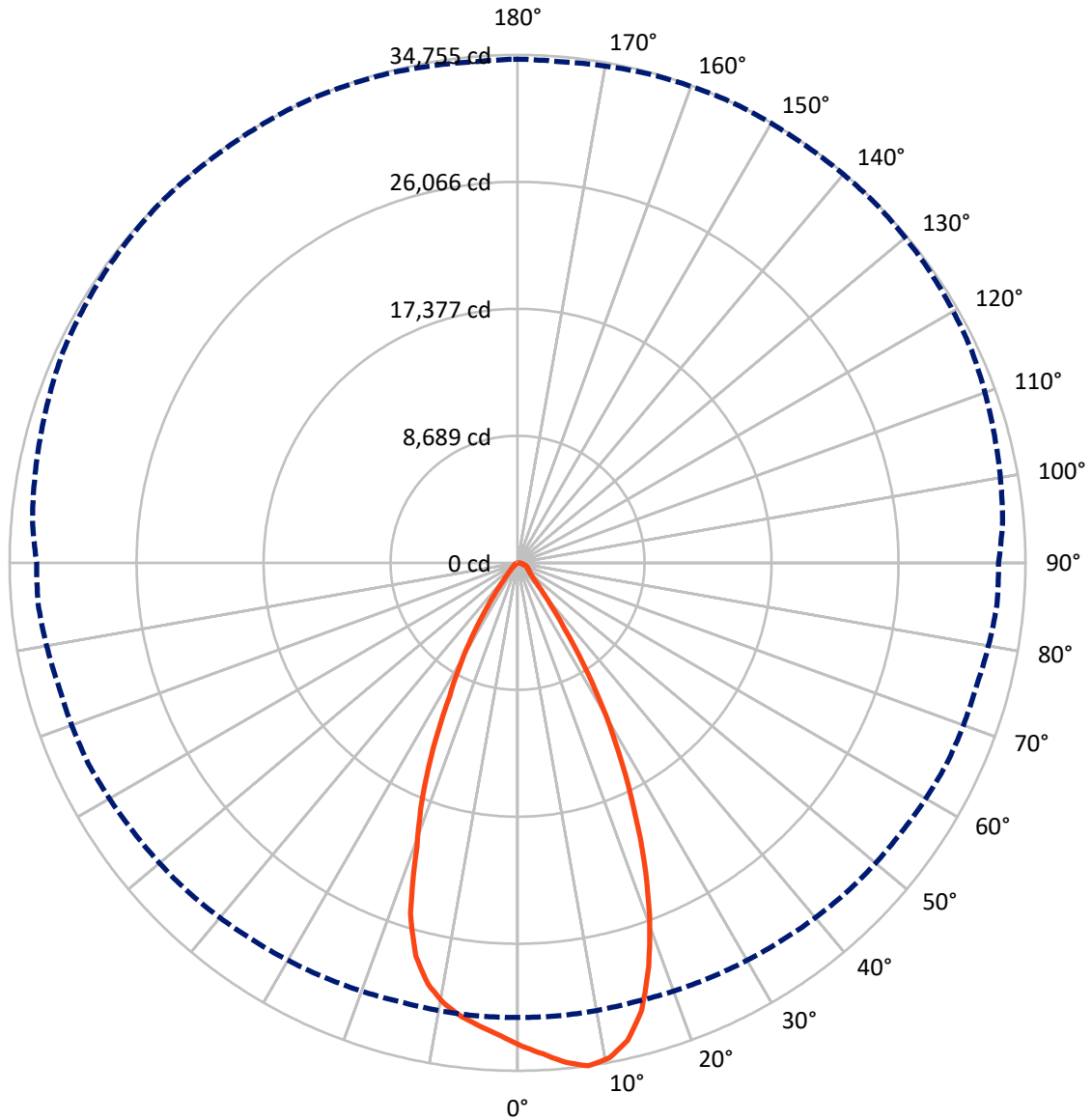
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 84 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	13105.2	0.0	13105.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10634.5	0.0	10634.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	23739.7	0.0	23739.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3153.6	13.3
10°-20°	8177.2	34.4
20°-30°	7492.6	31.6
30°-40°	3027.0	12.8
40°-50°	888.0	3.7
50°-60°	496.5	2.1
60°-70°	301.6	1.3
70°-80°	153.2	0.6
80°-90°	50.1	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°	23739.7	100.0
0°-180°	23739.7	100.0

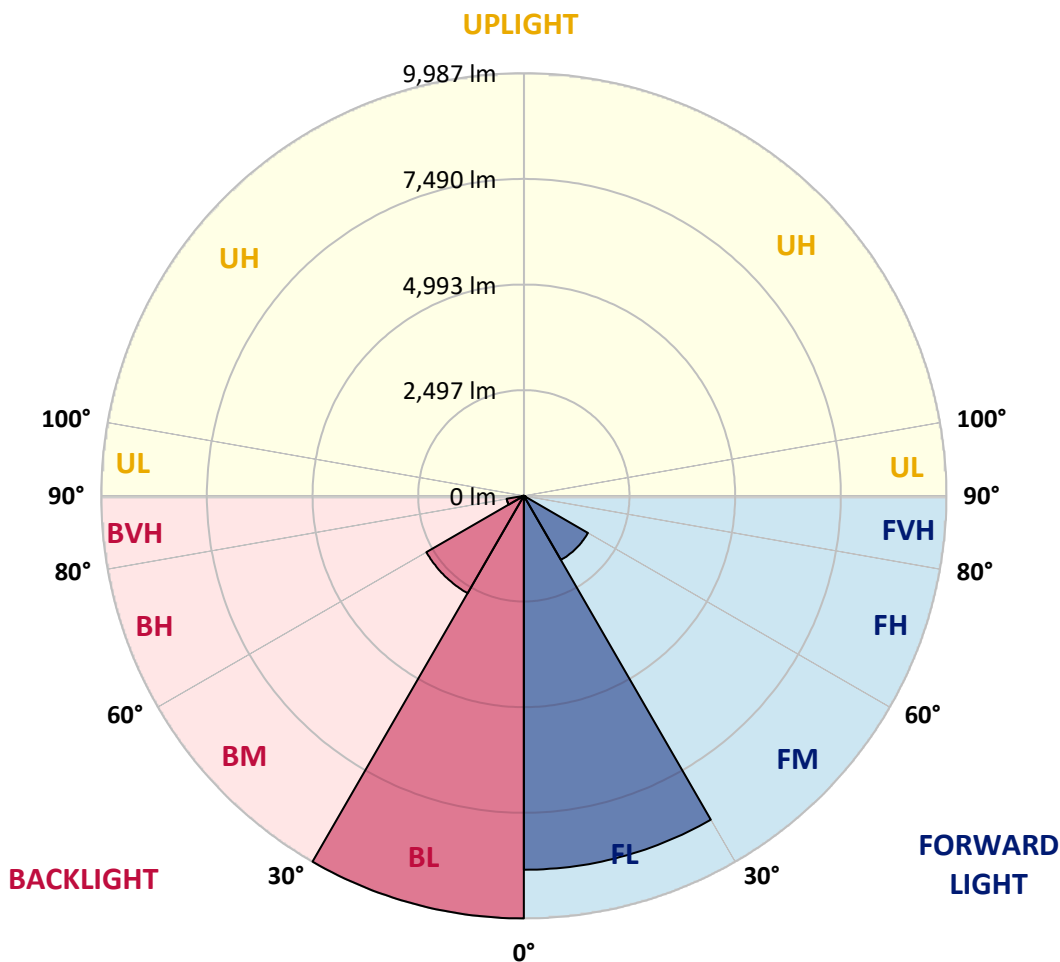


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8836.5	37.2			
FM (30°-60°)	1751.2	7.4			
FH (60°-80°)	42.4	0.2			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	9986.8	42.1	B5		
BM (30°-60°)	2660.2	11.2	B3/5000		
BH (60°-80°)	412.4	1.7	B1/500		G1/500
BVH (80°-90°)	45.8	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°	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2
2.5°	32354.0	32463.5	32244.5	32389.6	32501.8	32770.1	32792.0	32885.1	32917.9	33161.6
5°	31740.8	31825.7	31647.8	31842.1	32000.9	32239.0	32422.5	32679.8	32822.1	33109.6
7.5°	31103.0	31122.2	31086.6	31291.9	31530.0	31858.5	32085.7	32422.5	32510.1	32920.7
10°	30331.0	30191.4	30259.9	30561.0	30916.9	31420.5	31576.6	31913.3	32069.3	32488.2
12.5°	29099.2	29170.4	29085.5	29468.7	29764.4	30336.5	30500.8	30840.2	31138.6	31508.1
15°	27363.6	27322.6	27495.0	27793.4	28113.7	28568.1	28833.6	29203.2	29430.4	29813.7
17.5°	23462.8	23602.4	24314.1	25061.4	25718.4	26249.5	26567.0	26873.6	27037.9	27454.0
20°	20262.7	20087.5	20183.3	20604.8	22474.5	23287.6	23621.5	23695.4	23763.9	24092.4
22.5°	16684.8	16627.3	16947.6	17421.2	17864.7	19739.8	20194.2	20021.8	20164.1	20473.4
25°	12389.7	12679.9	12964.6	13873.4	14448.3	15368.1	16230.4	16307.0	16359.0	16553.4
27.5°	10084.8	9983.5	9978.0	10232.6	11081.2	11847.7	12581.4	12751.1	12721.0	12907.1
30°	7927.7	7894.8	7779.9	7840.1	7755.2	8436.8	8781.8	9479.8	9441.5	9447.0
32.5°	5718.5	5595.4	5548.8	5639.2	5551.6	5488.6	5789.7	6578.1	6564.4	6619.2
35°	3460.1	3443.7	3482.0	3561.4	3386.2	3380.8	3443.7	4185.6	4275.9	4363.5
37.5°	1910.7	1894.3	1924.4	2217.3	2159.9	2107.8	2124.3	2515.7	2775.8	2841.5
40°	1259.2	1256.5	1278.4	1330.4	1429.0	1409.8	1418.0	1593.2	1839.6	1897.1
42.5°	843.1	845.9	859.6	919.8	933.5	1032.0	1015.6	1056.7	1286.6	1335.9
45°	673.4	670.7	678.9	651.5	667.9	769.2	780.2	782.9	980.0	1010.1
47.5°	531.1	531.1	539.3	503.7	495.5	558.4	615.9	624.1	782.9	824.0
50°	372.3	372.3	413.4	396.9	416.1	435.3	498.2	506.4	640.6	684.4
52.5°	273.7	279.2	284.7	287.4	350.4	347.7	402.4	440.7	484.5	561.2
55°	208.0	213.5	199.8	213.5	260.1	290.2	301.1	355.9	386.0	470.8
57.5°	136.9	150.6	139.6	164.2	175.2	224.5	240.9	292.9	312.1	386.0
60°	19.2	21.9	35.6	115.0	123.2	147.8	186.1	232.7	251.8	314.8
62.5°	2.7	2.7	8.2	19.2	82.1	98.5	139.6	161.5	186.1	235.4
65°	0.0	0.0	2.7	5.5	16.4	57.5	71.2	87.6	128.7	169.7
67.5°	0.0	0.0	2.7	5.5	8.2	19.2	30.1	57.5	73.9	117.7
70°	0.0	0.0	2.7	5.5	8.2	10.9	16.4	21.9	43.8	68.4
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	16.4	19.2	43.8
75°	0.0	0.0	2.7	5.5	8.2	13.7	16.4	16.4	16.4	19.2
77.5°	0.0	0.0	2.7	5.5	10.9	16.4	19.2	16.4	13.7	13.7
80°	0.0	0.0	2.7	8.2	13.7	19.2	21.9	16.4	10.9	8.2
82.5°	0.0	0.0	2.7	8.2	13.7	19.2	21.9	19.2	10.9	8.2
85°	0.0	0.0	2.7	8.2	10.9	13.7	21.9	19.2	10.9	5.5
87.5°	0.0	0.0	0.0	2.7	2.7	5.5	10.9	8.2	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



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
33071.2	0°	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2	33071.2
33156.1	2.5°	33402.5	33525.6	33741.9	33802.1	33988.3	33774.8	33657.0	33668.0	33413.4
33074.0	5°	33402.5	33684.4	34062.2	34242.9	34379.7	34368.8	34338.7	34262.0	34075.9
32909.7	7.5°	33314.9	33774.8	34294.9	34535.8	34700.0	34686.3	34754.8	34631.6	34404.4
32616.8	10°	33032.9	33432.6	34073.1	34270.2	34535.8	34541.2	34456.4	34481.0	34075.9
31546.5	12.5°	32146.0	32458.0	33019.2	33243.7	33566.7	33618.7	33525.6	33490.1	33106.8
29791.8	15°	30429.6	30610.3	31174.2	31398.6	31718.9	31675.1	31768.2	31729.9	31393.2
27421.1	17.5°	27919.3	27976.8	28568.1	28757.0	29058.1	29175.8	29036.2	29214.2	28924.0
24149.9	20°	24319.6	24628.9	25294.1	25584.3	25759.5	25970.3	25786.9	25986.7	25647.2
20180.5	22.5°	20667.8	20851.2	21453.5	21872.3	22198.0	22239.1	22170.7	22310.3	21853.1
16682.1	25°	16679.3	16983.2	17459.5	18007.0	18327.3	18524.4	18346.4	18436.8	18362.9
12937.2	27.5°	13156.2	13427.2	13785.8	14193.7	14675.5	14932.8	14790.5	14943.8	14582.4
9646.8	30°	9655.0	9791.9	10197.0	10629.5	11157.9	11469.9	11483.6	11639.7	11426.1
6758.8	32.5°	6808.1	6928.5	7177.6	7465.0	7968.7	8316.4	8261.6	8283.5	8152.2
4404.6	35°	4426.5	4588.0	4765.9	4902.8	5206.6	5589.9	5559.8	5532.4	5442.1
2896.2	37.5°	2959.2	3022.2	3120.7	3243.9	3441.0	3681.9	3761.3	3662.7	3624.4
1954.5	40°	2001.1	2110.6	2176.3	2269.4	2362.4	2565.0	2619.7	2600.6	2562.3
1368.7	42.5°	1420.7	1505.6	1587.7	1678.1	1727.3	1853.3	1960.0	1929.9	1913.5
1040.2	45°	1078.6	1155.2	1251.0	1319.5	1368.7	1442.6	1543.9	1554.9	1530.2
834.9	47.5°	865.0	933.5	1010.1	1095.0	1152.5	1199.0	1286.6	1319.5	1303.0
703.5	50°	733.6	785.7	859.6	944.4	1007.4	1048.4	1125.1	1160.7	1149.7
588.6	52.5°	624.1	687.1	755.5	826.7	903.4	944.4	1015.6	1067.6	1059.4
487.3	55°	517.4	599.5	670.7	741.9	829.4	870.5	933.5	1001.9	988.2
413.4	57.5°	451.7	520.1	594.0	662.5	755.5	810.3	867.8	938.9	936.2
339.4	60°	377.8	446.2	528.3	585.8	684.4	761.0	813.0	886.9	892.4
257.3	62.5°	301.1	386.0	448.9	528.3	618.7	709.0	758.3	832.2	859.6
197.1	65°	224.5	317.5	388.7	468.1	553.0	654.3	698.1	772.0	799.3
142.3	67.5°	167.0	238.2	328.5	396.9	492.7	580.3	632.4	700.8	720.0
84.9	70°	125.9	183.4	273.7	334.0	432.5	503.7	555.7	607.7	632.4
57.5	72.5°	73.9	136.9	216.3	287.4	372.3	432.5	470.8	511.9	528.3
27.4	75°	52.0	104.0	169.7	238.2	301.1	350.4	386.0	421.6	438.0
13.7	77.5°	27.4	76.6	134.1	191.6	235.4	276.5	312.1	339.4	350.4
10.9	80°	16.4	54.7	109.5	150.6	180.7	216.3	251.8	271.0	268.3
8.2	82.5°	10.9	43.8	79.4	109.5	131.4	158.8	183.4	197.1	197.1
5.5	85°	8.2	30.1	54.7	84.9	87.6	109.5	115.0	128.7	131.4
5.5	87.5°	5.5	19.2	30.1	49.3	46.5	57.5	60.2	68.4	73.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
33071.2
33208.1
34136.1
34456.4
33958.2
33019.2
31499.9
28852.8
25619.9
21790.2
18316.3
14675.5
11464.5
8226.1
5362.7
3616.2
2567.7
1899.8
1527.5
1294.8
1147.0
1053.9
988.2
933.5
892.4
856.8
796.6
720.0
626.9
522.9
432.5
347.7
265.5
194.4
128.7
71.2
0.0

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