

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: P638665

Luminaire Tested: **EPH-VN-08-E-940-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638665
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-940-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47716.1 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

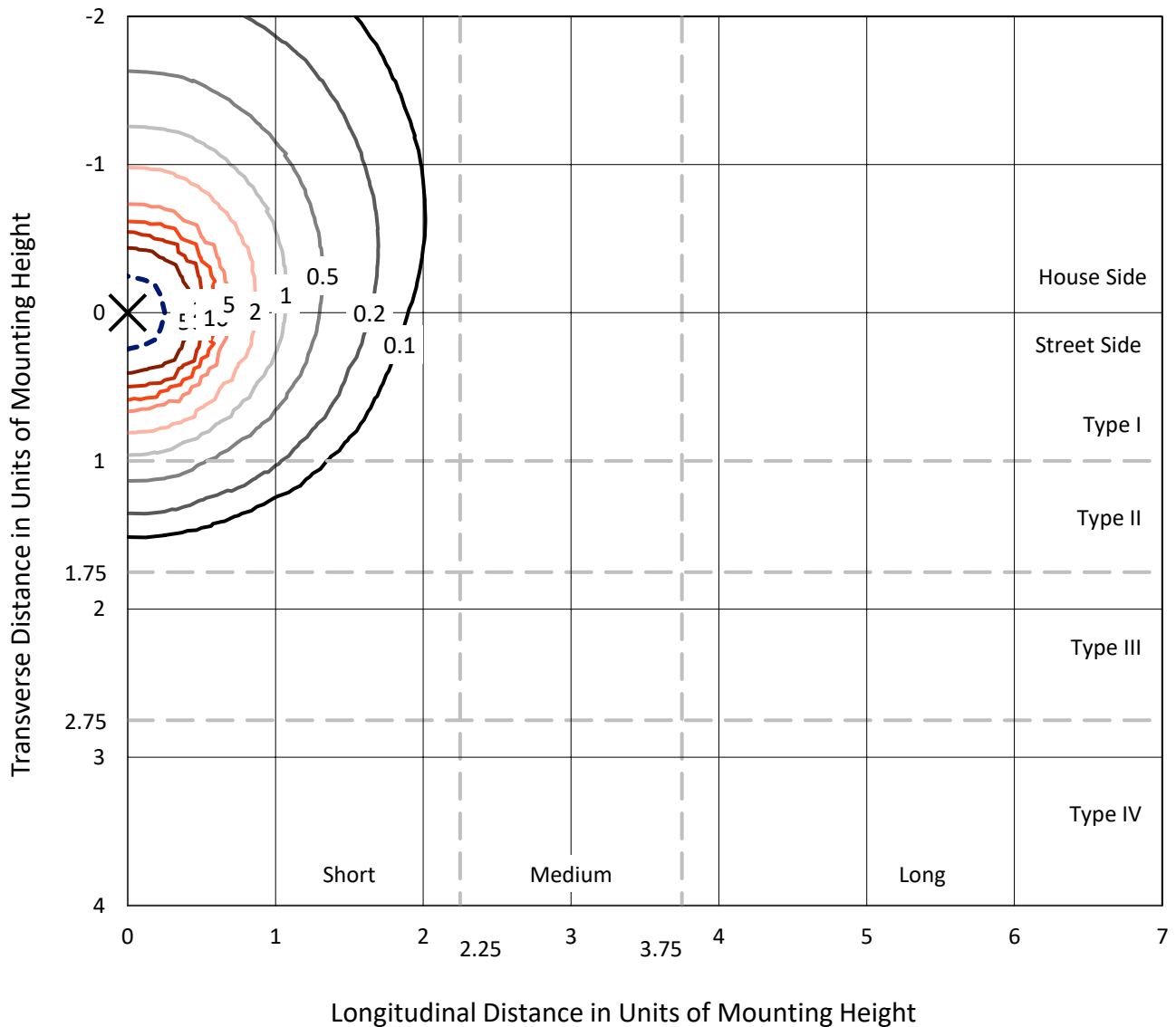
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

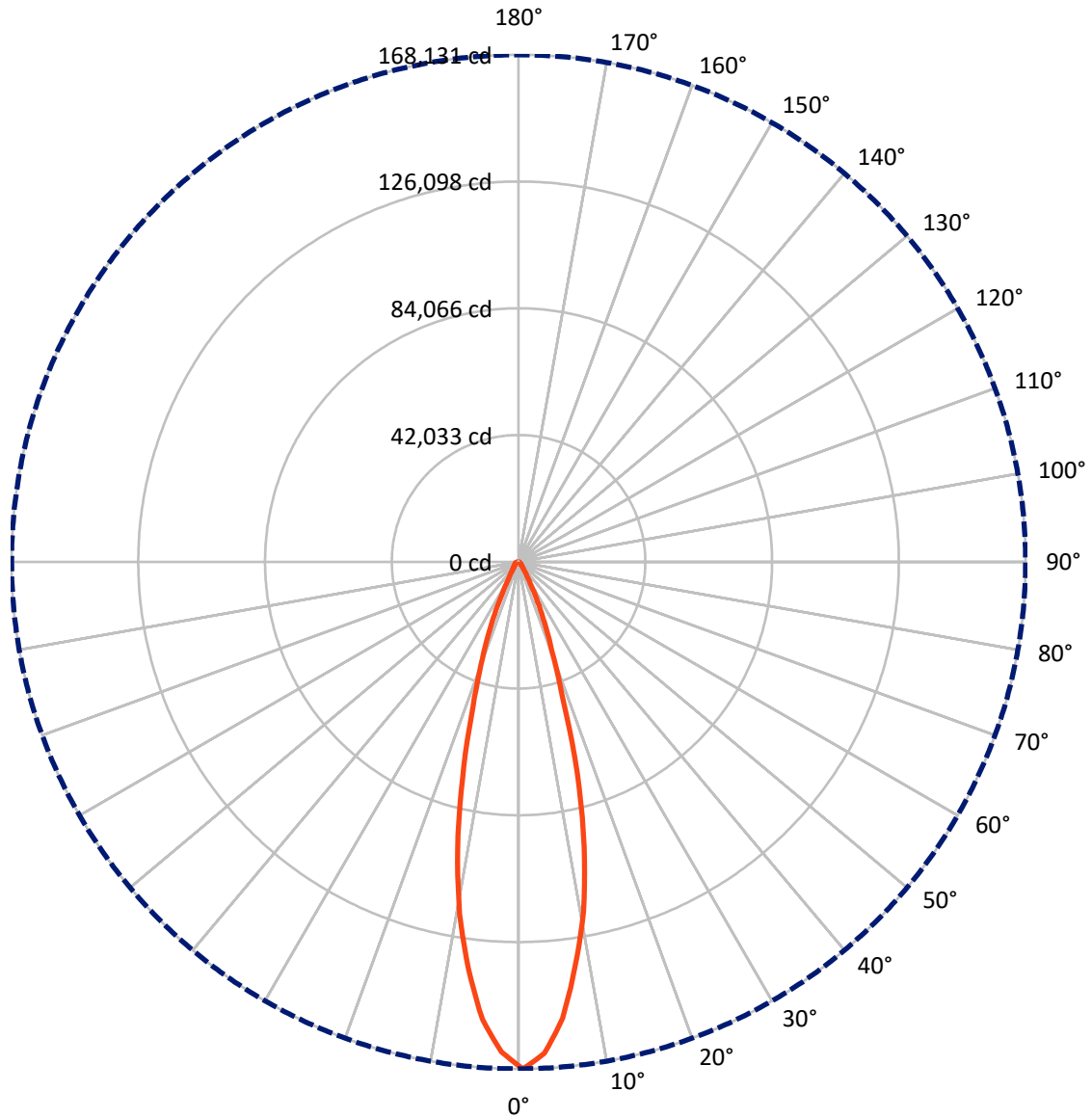
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 420.3 fc
 Type V - Short - N/A

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CATALOG NUMBER: EPH-VN-08-E-940-U-44-VI

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	25159.1	0.0	25159.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	22557.0	0.0	22557.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	47716.1	0.0	47716.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13569.7	28.4
10°-20°	20551.2	43.1
20°-30°	8672.7	18.2
30°-40°	2261.9	4.7
40°-50°	1144.0	2.4
50°-60°	747.8	1.6
60°-70°	448.0	0.9
70°-80°	235.7	0.5
80°-90°	85.1	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°	47716.1	100.0
0°-180°	47716.1	100.0

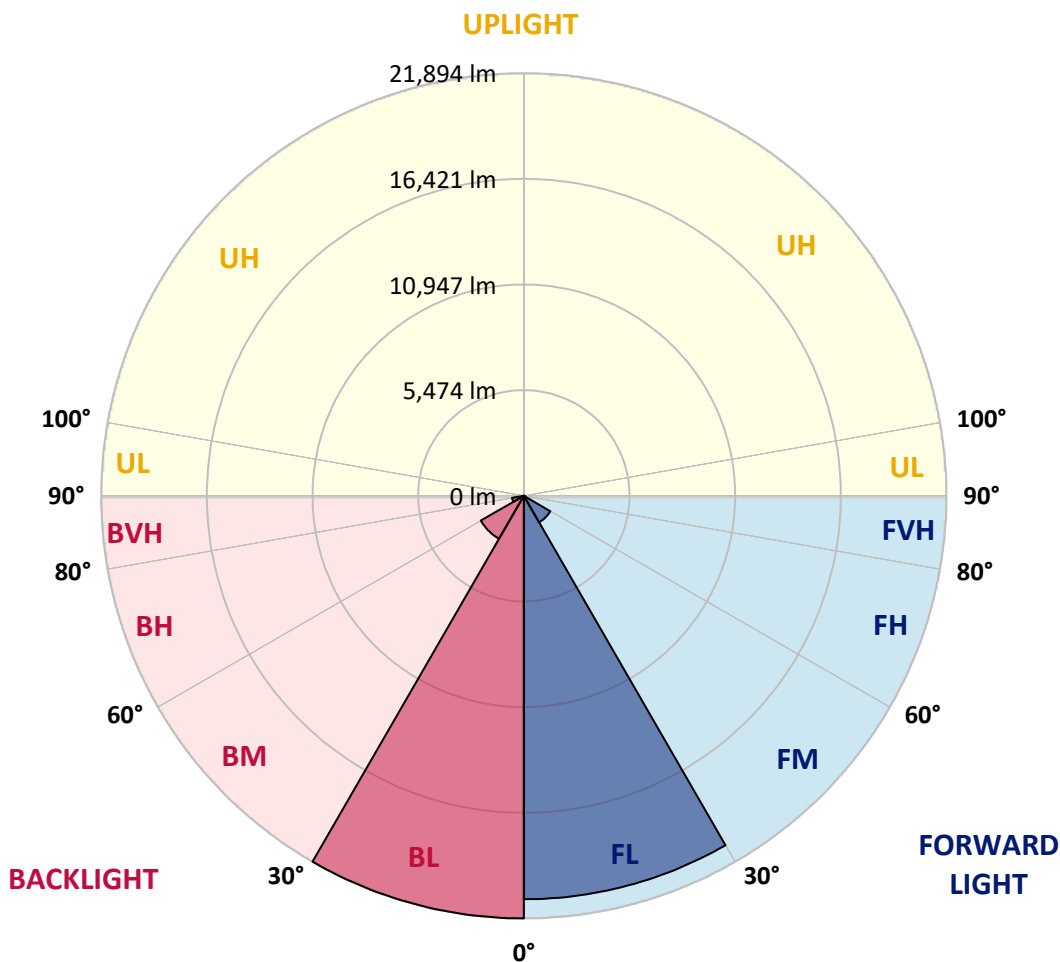


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20899.3	43.8			
FM (30°-60°)	1582.8	3.3			
FH (60°-80°)	64.5	0.1			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	21894.2	45.9	B5		
BM (30°-60°)	2571.0	5.4	B3/5000		
BH (60°-80°)	619.2	1.3	B2/1000		G0/660
BVH (80°-90°)	74.8	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0
2.5°	163233.2	163324.3	162986.7	163715.5	163147.5	164669.3	163913.8	165092.6	164696.1	165355.2
5°	152087.4	151937.3	151840.9	152971.5	152644.7	154279.0	153234.1	152891.1	153952.1	153759.2
7.5°	135256.0	135652.6	135427.5	135722.2	135888.4	137753.1	138342.6	137881.7	137897.8	138165.8
10°	118001.4	117417.3	116586.7	117138.7	118306.8	119121.3	118794.5	119469.7	119319.6	119957.3
12.5°	96770.7	97231.5	96765.3	96272.3	98314.0	98088.9	98656.9	99026.6	98099.6	100162.7
15°	72892.8	73134.0	73702.0	73664.5	75234.5	75550.7	75475.7	75866.8	75143.4	75486.4
17.5°	46828.7	47643.2	49170.4	51753.2	54657.6	54995.2	54909.4	54587.9	54239.6	53853.8
20°	31454.9	31369.2	31921.1	32676.7	38689.0	40280.5	40232.3	39224.8	37767.3	37488.7
22.5°	22034.5	22195.3	22120.2	22870.4	24113.6	28502.3	27961.1	26937.6	26460.7	26149.9
25°	14495.0	14436.0	14811.1	15036.2	16102.5	16638.4	18535.3	18154.9	17420.8	17501.1
27.5°	8836.3	8911.3	9050.6	9243.6	9999.1	9827.6	10910.1	11054.8	10819.0	10567.1
30°	5422.9	5476.5	5589.0	5728.3	5990.9	5803.3	6103.4	6623.2	6537.5	6360.6
32.5°	3681.3	3686.7	3767.1	3820.7	3788.5	3611.7	3708.1	4201.1	4211.8	4195.8
35°	2647.1	2647.1	2722.2	2765.0	2673.9	2529.3	2545.3	2850.8	2984.7	3011.5
37.5°	1827.3	1832.6	1961.2	2089.8	1988.0	1950.5	1886.2	2089.8	2304.2	2336.3
40°	1387.9	1382.5	1446.8	1543.3	1554.0	1484.3	1505.8	1634.4	1854.1	1880.9
42.5°	1125.3	1130.7	1162.8	1152.1	1157.5	1248.6	1280.7	1339.6	1543.3	1591.5
45°	948.5	953.8	969.9	916.3	894.9	1034.2	1077.1	1109.2	1280.7	1339.6
47.5°	782.4	793.1	809.1	750.2	739.5	830.6	905.6	937.8	1087.8	1152.1
50°	562.7	573.4	632.3	600.2	632.3	653.7	755.6	803.8	905.6	991.3
52.5°	407.3	418.0	434.0	439.4	519.8	530.5	605.5	680.5	728.8	825.2
55°	321.5	332.2	321.5	310.8	380.5	439.4	466.2	546.6	584.1	696.6
57.5°	182.2	192.9	209.0	241.1	251.9	337.6	364.4	434.0	466.2	573.4
60°	32.2	37.5	58.9	144.7	176.8	214.3	273.3	332.2	375.1	450.1
62.5°	5.4	5.4	10.7	32.2	101.8	150.0	198.3	235.8	273.3	342.9
65°	0.0	0.0	5.4	10.7	26.8	85.7	107.2	139.3	187.6	246.5
67.5°	0.0	0.0	5.4	10.7	16.1	32.2	48.2	85.7	107.2	166.1
70°	0.0	0.0	5.4	10.7	16.1	21.4	26.8	37.5	64.3	101.8
72.5°	0.0	0.0	5.4	10.7	16.1	21.4	26.8	32.2	32.2	64.3
75°	0.0	0.0	5.4	10.7	16.1	26.8	32.2	32.2	26.8	26.8
77.5°	0.0	0.0	5.4	10.7	21.4	32.2	37.5	32.2	21.4	21.4
80°	0.0	0.0	10.7	16.1	26.8	37.5	48.2	37.5	21.4	10.7
82.5°	0.0	0.0	10.7	21.4	26.8	42.9	58.9	48.2	21.4	10.7
85°	0.0	0.0	5.4	16.1	32.2	42.9	58.9	42.9	21.4	5.4
87.5°	0.0	0.0	5.4	5.4	10.7	16.1	32.2	26.8	10.7	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638665

CATALOG NUMBER: EPH-VN-08-E-940-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
168131.0	0°	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0	168131.0
164106.7	2.5°	165049.8	165907.1	166084.0	165848.2	166191.2	165574.9	165103.4	163881.6	163147.5
153700.3	5°	154691.6	154563.0	155457.9	155752.6	155715.1	155243.6	154584.5	153845.0	153126.9
137646.0	7.5°	138503.3	138669.5	139484.0	140003.7	139741.2	139151.7	138696.3	138139.0	137656.7
120187.7	10°	121286.2	120144.8	121157.6	121157.6	121859.6	120193.1	120348.5	118944.5	119008.8
100125.2	12.5°	100468.1	100880.7	101046.8	101523.8	100703.9	99819.7	98737.3	98522.9	97853.1
74832.6	15°	75909.7	77088.6	76075.8	77806.7	76970.7	76049.0	75882.9	74221.8	74746.9
54277.1	17.5°	54009.2	55311.3	55718.6	56709.9	55949.0	55402.4	54711.2	54207.4	54169.9
37997.7	20°	38297.8	39605.3	39905.4	41095.0	41009.3	40837.8	40253.7	39616.0	38924.8
25865.9	22.5°	26257.1	27323.4	28320.1	29922.3	29895.5	29391.8	29332.9	28432.7	28448.7
17474.3	25°	17656.5	18433.5	18669.3	20309.0	20491.2	20437.6	20132.2	19296.3	19612.4
10674.3	27.5°	10685.0	11365.6	12164.0	12742.7	13289.3	13203.6	12898.1	12431.9	12228.3
6414.2	30°	6585.7	6891.1	7185.9	7882.5	8209.4	8380.8	8236.1	7802.1	7834.3
4222.6	32.5°	4313.7	4570.9	4785.2	5224.6	5396.1	5712.3	5653.3	5562.2	5455.0
3038.3	35°	3145.5	3333.0	3477.7	3681.3	3901.0	4169.0	4211.8	4174.3	4131.5
2347.1	37.5°	2400.6	2593.6	2759.7	2845.4	3016.9	3225.9	3343.8	3338.4	3306.2
1913.0	40°	1950.5	2095.2	2245.2	2357.8	2475.7	2631.1	2775.7	2791.8	2791.8
1607.6	42.5°	1629.0	1752.3	1902.3	2020.2	2105.9	2250.6	2400.6	2411.4	2400.6
1361.1	45°	1393.2	1500.4	1645.1	1784.4	1854.1	1961.2	2105.9	2138.1	2116.6
1168.2	47.5°	1211.0	1307.5	1430.7	1580.8	1655.8	1752.3	1886.2	1923.7	1918.4
1007.4	50°	1039.6	1152.1	1275.3	1398.6	1495.0	1586.1	1714.7	1757.6	1741.5
857.4	52.5°	916.3	1018.1	1125.3	1259.3	1371.8	1452.2	1554.0	1629.0	1607.6
723.4	55°	766.3	889.5	1002.1	1114.6	1253.9	1339.6	1436.1	1527.2	1505.8
610.9	57.5°	664.5	766.3	894.9	996.7	1136.0	1237.8	1334.3	1430.7	1425.4
498.3	60°	557.3	664.5	787.7	894.9	1023.5	1136.0	1232.5	1339.6	1350.4
375.1	62.5°	439.4	568.0	675.2	798.4	927.0	1050.3	1136.0	1243.2	1259.3
284.0	65°	332.2	466.2	584.1	702.0	830.6	964.5	1039.6	1130.7	1146.7
209.0	67.5°	246.5	359.0	498.3	605.5	739.5	868.1	937.8	1012.8	1039.6
128.6	70°	187.6	273.3	418.0	519.8	659.1	760.9	835.9	900.2	921.7
85.7	72.5°	117.9	214.3	337.6	444.8	568.0	659.1	712.7	750.2	782.4
48.2	75°	80.4	166.1	273.3	380.5	471.6	541.2	589.4	621.6	648.4
21.4	77.5°	48.2	128.6	225.1	316.2	375.1	428.7	476.9	498.3	514.4
16.1	80°	26.8	96.5	187.6	257.2	294.7	332.2	369.7	396.5	407.3
10.7	82.5°	16.1	75.0	150.0	198.3	214.3	251.9	289.4	305.4	305.4
5.4	85°	10.7	53.6	101.8	144.7	155.4	182.2	192.9	203.6	214.3
5.4	87.5°	10.7	32.2	64.3	80.4	85.7	96.5	101.8	112.5	123.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
168131.0
162606.3
152323.1
136022.3
118381.9
97242.2
74221.8
53173.2
38624.7
28137.9
19114.1
12051.5
7694.9
5417.5
4115.4
3290.2
2759.7
2389.9
2116.6
1907.7
1730.8
1602.2
1516.5
1430.7
1355.7
1270.0
1162.8
1050.3
932.4
777.0
643.0
509.1
396.5
300.1
209.0
117.9
0.0

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