

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: P638664

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

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638664
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-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: 38852.5 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

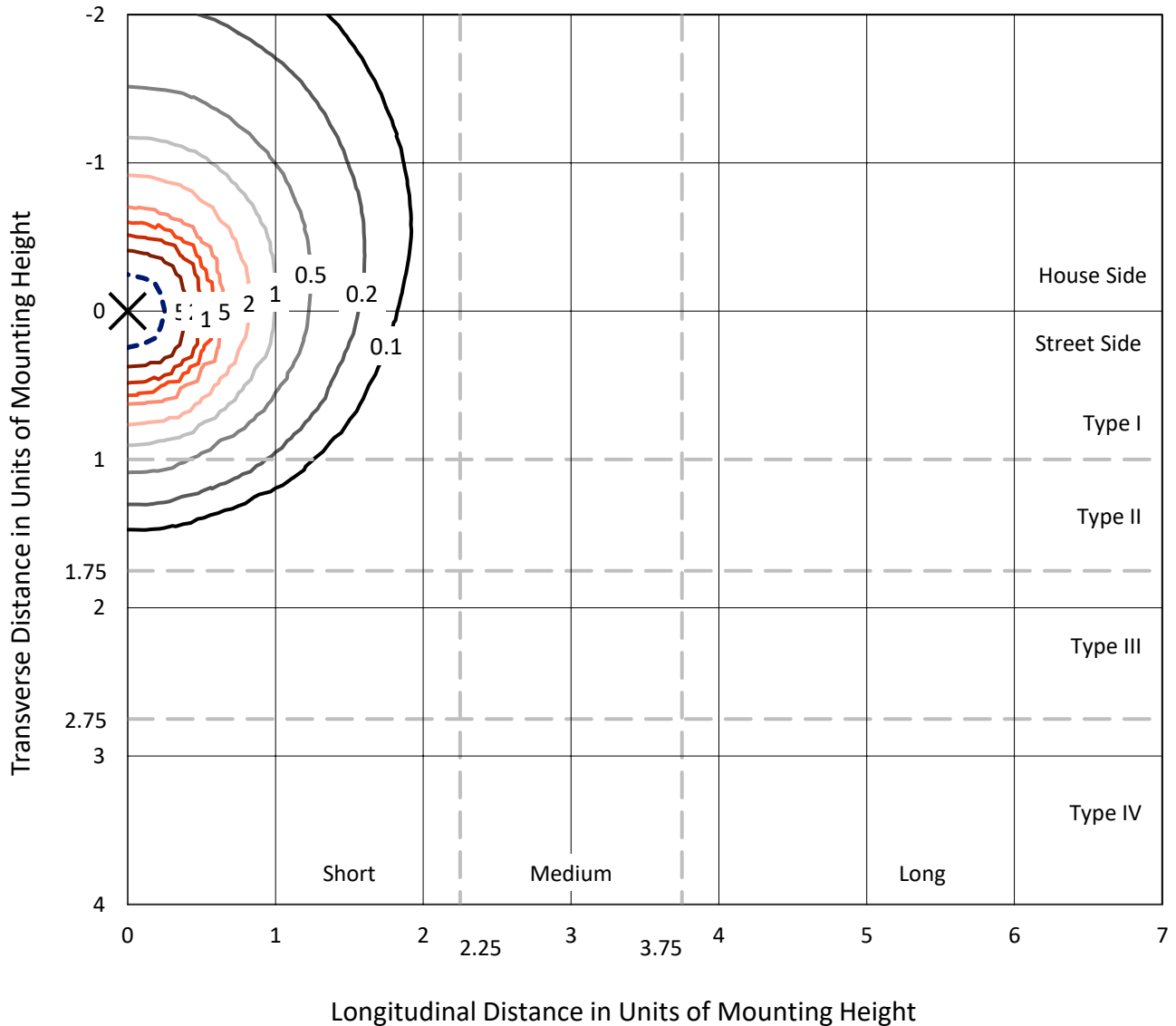
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

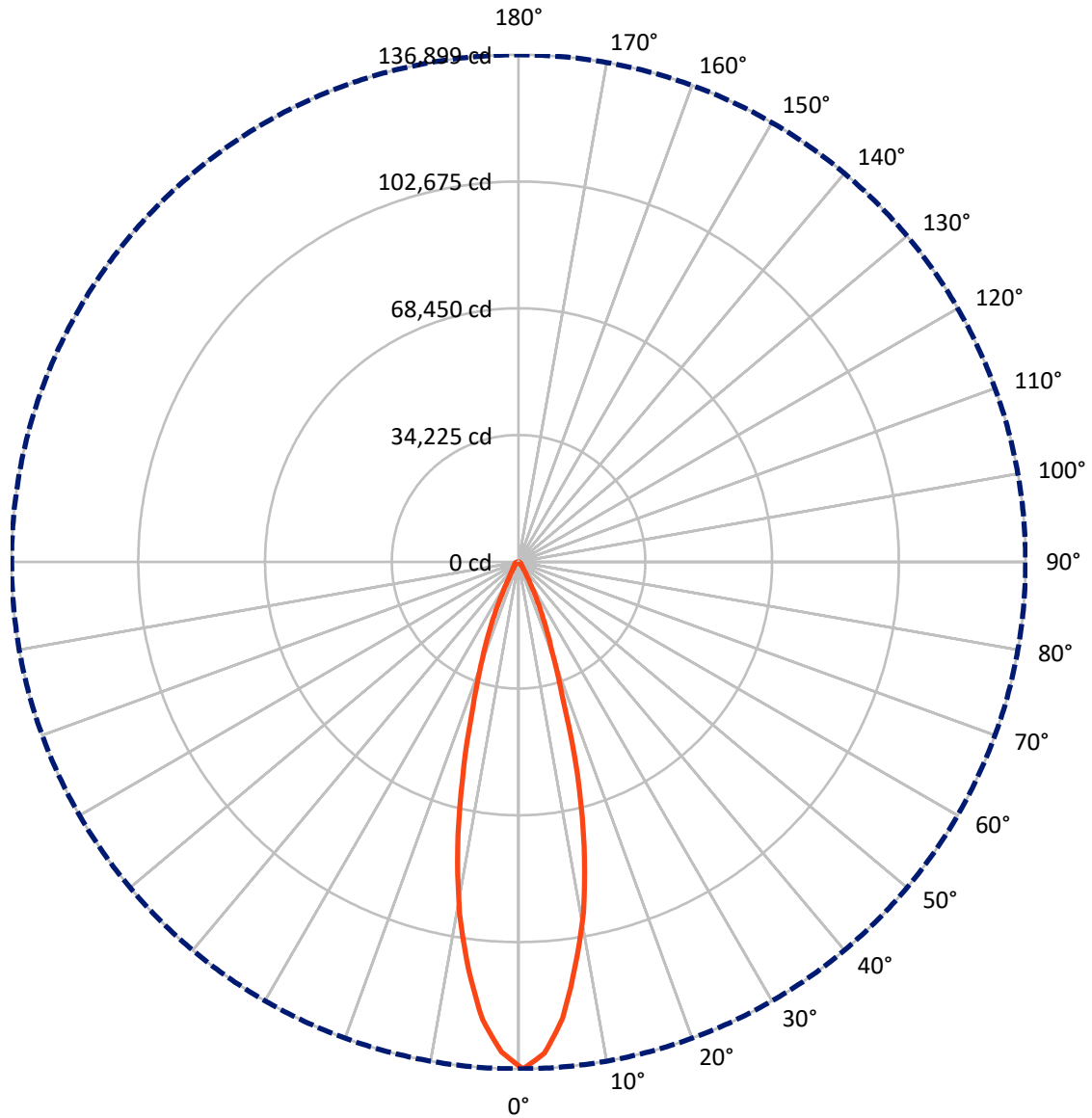
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 342.2 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	20485.6	0.0	20485.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18366.8	0.0	18366.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	38852.5	0.0	38852.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11049.0	28.4
10°-20°	16733.6	43.1
20°-30°	7061.7	18.2
30°-40°	1841.7	4.7
40°-50°	931.5	2.4
50°-60°	608.9	1.6
60°-70°	364.8	0.9
70°-80°	191.9	0.5
80°-90°	69.3	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°	38852.5	100.0
0°-180°	38852.5	100.0



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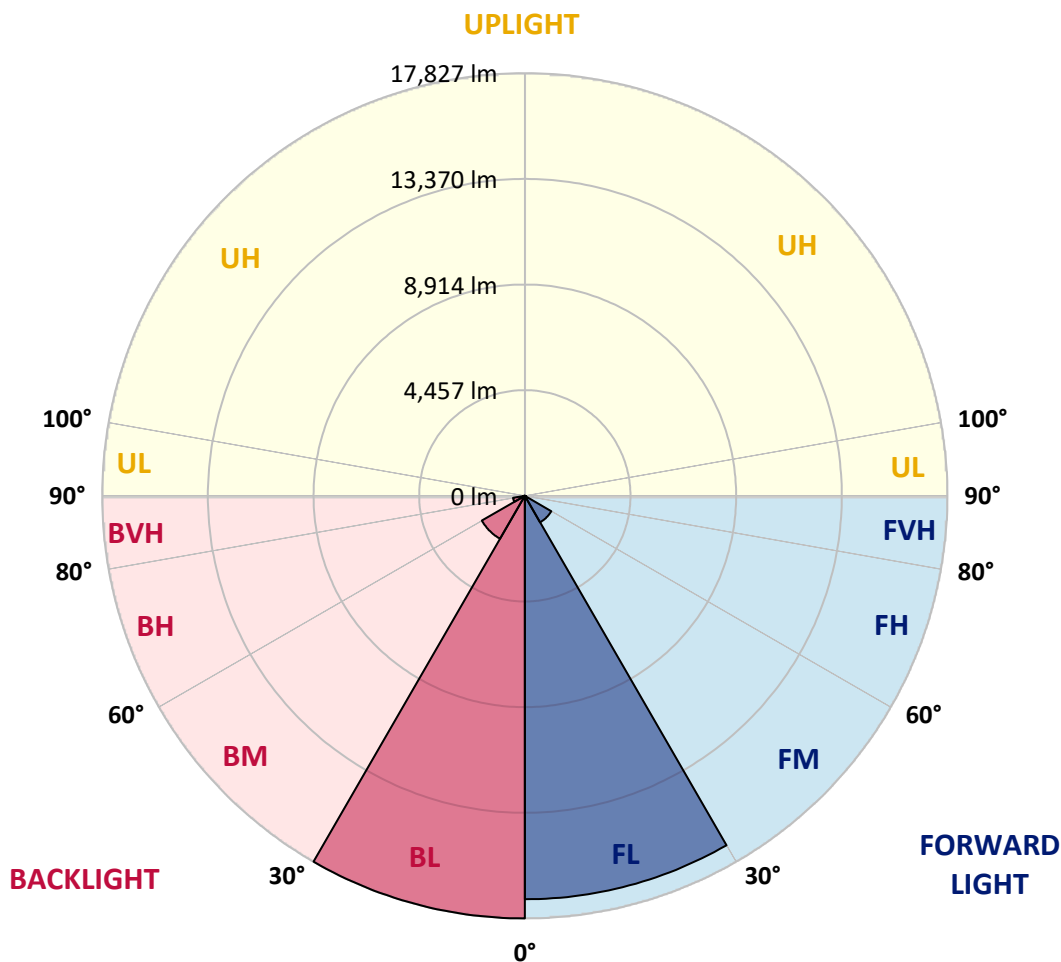
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17017.1	43.8			
FM (30°-60°)	1288.7	3.3			
FH (60°-80°)	52.5	0.1			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	17827.2	45.9	B5		
BM (30°-60°)	2093.4	5.4	B2/2500		
BH (60°-80°)	504.2	1.3	B2/1000		G0/660
BVH (80°-90°)	60.9	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°	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4
2.5°	132911.5	132985.7	132710.8	133304.2	132841.7	134080.8	133465.6	134425.5	134102.6	134639.3
5°	123836.1	123713.9	123635.4	124556.0	124289.8	125620.6	124769.8	124490.5	125354.4	125197.4
7.5°	110131.3	110454.2	110270.9	110510.9	110646.1	112164.5	112644.5	112269.2	112282.3	112500.5
10°	96081.8	95606.2	94929.9	95379.3	96330.5	96993.7	96727.6	97277.3	97155.2	97674.4
12.5°	78794.8	79170.1	78790.5	78389.1	80051.4	79868.2	80330.7	80631.8	79876.9	81556.7
15°	59352.5	59548.8	60011.3	59980.8	61259.2	61516.6	61455.5	61774.0	61185.0	61464.3
17.5°	38129.9	38793.1	40036.6	42139.7	44504.5	44779.4	44709.6	44447.8	44164.2	43850.1
20°	25611.9	25542.1	25991.5	26606.7	31502.2	32798.1	32758.8	31938.6	30751.8	30524.9
22.5°	17941.4	18072.3	18011.2	18622.1	19634.4	23207.8	22767.1	21933.8	21545.4	21292.4
25°	11802.4	11754.4	12059.9	12243.1	13111.4	13547.7	15092.3	14782.5	14184.7	14250.2
27.5°	7194.9	7256.0	7369.4	7526.5	8141.7	8002.1	8883.5	9001.3	8809.3	8604.2
30°	4415.5	4459.2	4550.8	4664.3	4878.0	4725.3	4969.7	5392.9	5323.1	5179.1
32.5°	2997.5	3001.9	3067.3	3111.0	3084.8	2940.8	3019.3	3420.7	3429.5	3416.4
35°	2155.4	2155.4	2216.5	2251.4	2177.2	2059.4	2072.5	2321.2	2430.3	2452.1
37.5°	1487.8	1492.2	1596.9	1701.6	1618.7	1588.2	1535.8	1701.6	1876.2	1902.4
40°	1130.1	1125.7	1178.1	1256.6	1265.3	1208.6	1226.1	1330.8	1509.7	1531.5
42.5°	916.3	920.6	946.8	938.1	942.4	1016.6	1042.8	1090.8	1256.6	1295.9
45°	772.3	776.6	789.7	746.1	728.7	842.1	877.0	903.2	1042.8	1090.8
47.5°	637.0	645.8	658.8	610.8	602.1	676.3	737.4	763.6	885.7	938.1
50°	458.1	466.9	514.9	488.7	514.9	532.3	615.2	654.5	737.4	807.2
52.5°	331.6	340.3	353.4	357.8	423.2	432.0	493.0	554.1	593.4	671.9
55°	261.8	270.5	261.8	253.1	309.8	357.8	379.6	445.0	475.6	567.2
57.5°	148.3	157.1	170.2	196.3	205.1	274.9	296.7	353.4	379.6	466.9
60°	26.2	30.5	48.0	117.8	144.0	174.5	222.5	270.5	305.4	366.5
62.5°	4.4	4.4	8.7	26.2	82.9	122.2	161.4	192.0	222.5	279.2
65°	0.0	0.0	4.4	8.7	21.8	69.8	87.3	113.4	152.7	200.7
67.5°	0.0	0.0	4.4	8.7	13.1	26.2	39.3	69.8	87.3	135.3
70°	0.0	0.0	4.4	8.7	13.1	17.5	21.8	30.5	52.4	82.9
72.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.8	26.2	26.2	52.4
75°	0.0	0.0	4.4	8.7	13.1	21.8	26.2	26.2	21.8	21.8
77.5°	0.0	0.0	4.4	8.7	17.5	26.2	30.5	26.2	17.5	17.5
80°	0.0	0.0	8.7	13.1	21.8	30.5	39.3	30.5	17.5	8.7
82.5°	0.0	0.0	8.7	17.5	21.8	34.9	48.0	39.3	17.5	8.7
85°	0.0	0.0	4.4	13.1	26.2	34.9	48.0	34.9	17.5	4.4
87.5°	0.0	0.0	4.4	4.4	8.7	13.1	26.2	21.8	8.7	4.4
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°
136899.4	0°	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4	136899.4
133622.7	2.5°	134390.6	135088.7	135232.7	135040.7	135320.0	134818.2	134434.2	133439.4	132841.7
125149.4	5°	125956.6	125851.9	126580.5	126820.5	126789.9	126406.0	125869.3	125267.2	124682.5
112077.3	7.5°	112775.4	112910.6	113573.8	113997.1	113783.3	113303.3	112932.4	112478.7	112086.0
97862.0	10°	98756.4	97827.1	98651.7	98651.7	99223.3	97866.4	97992.9	96849.7	96902.1
81526.2	12.5°	81805.4	82141.4	82276.7	82665.0	81997.4	81277.5	80396.1	80221.6	79676.2
60931.9	15°	61808.9	62768.9	61944.2	63353.5	62672.9	61922.4	61787.1	60434.5	60862.1
44194.8	17.5°	43976.6	45036.8	45368.4	46175.6	45556.1	45111.0	44548.2	44138.0	44107.5
30939.4	20°	31183.7	32248.3	32492.7	33461.3	33391.5	33251.9	32776.3	32257.1	31694.2
21061.1	22.5°	21379.6	22247.9	23059.5	24364.1	24342.2	23932.1	23884.1	23151.1	23164.2
14228.4	25°	14376.7	15009.4	15201.4	16536.5	16684.8	16641.2	16392.5	15711.8	15969.3
8691.5	27.5°	8700.2	9254.3	9904.4	10375.7	10820.7	10750.9	10502.2	10122.6	9956.8
5222.7	30°	5362.4	5611.1	5851.0	6418.3	6684.4	6824.0	6706.2	6352.8	6379.0
3438.2	32.5°	3512.4	3721.8	3896.3	4254.1	4393.7	4651.2	4603.2	4529.0	4441.7
2473.9	35°	2561.2	2713.9	2831.7	2997.5	3176.4	3394.6	3429.5	3398.9	3364.0
1911.1	37.5°	1954.7	2111.8	2247.0	2316.9	2456.5	2626.6	2722.6	2718.3	2692.1
1557.7	40°	1588.2	1706.0	1828.2	1919.8	2015.8	2142.3	2260.1	2273.2	2273.2
1309.0	42.5°	1326.4	1426.8	1548.9	1644.9	1714.7	1832.5	1954.7	1963.4	1954.7
1108.3	45°	1134.4	1221.7	1339.5	1452.9	1509.7	1596.9	1714.7	1740.9	1723.5
951.2	47.5°	986.1	1064.6	1165.0	1287.1	1348.2	1426.8	1535.8	1566.4	1562.0
820.3	50°	846.5	938.1	1038.4	1138.8	1217.3	1291.5	1396.2	1431.1	1418.0
698.1	52.5°	746.1	829.0	916.3	1025.3	1117.0	1182.4	1265.3	1326.4	1309.0
589.0	55°	623.9	724.3	815.9	907.5	1021.0	1090.8	1169.3	1243.5	1226.1
497.4	57.5°	541.0	623.9	728.7	811.6	925.0	1007.9	1086.4	1165.0	1160.6
405.8	60°	453.8	541.0	641.4	728.7	833.4	925.0	1003.5	1090.8	1099.5
305.4	62.5°	357.8	462.5	549.8	650.1	754.8	855.2	925.0	1012.3	1025.3
231.2	65°	270.5	379.6	475.6	571.6	676.3	785.4	846.5	920.6	933.7
170.2	67.5°	200.7	292.3	405.8	493.0	602.1	706.8	763.6	824.6	846.5
104.7	70°	152.7	222.5	340.3	423.2	536.7	619.6	680.7	733.0	750.5
69.8	72.5°	96.0	174.5	274.9	362.1	462.5	536.7	580.3	610.8	637.0
39.3	75°	65.4	135.3	222.5	309.8	384.0	440.7	480.0	506.1	527.9
17.5	77.5°	39.3	104.7	183.3	257.4	305.4	349.1	388.3	405.8	418.9
13.1	80°	21.8	78.5	152.7	209.4	240.0	270.5	301.1	322.9	331.6
8.7	82.5°	13.1	61.1	122.2	161.4	174.5	205.1	235.6	248.7	248.7
4.4	85°	8.7	43.6	82.9	117.8	126.5	148.3	157.1	165.8	174.5
4.4	87.5°	8.7	26.2	52.4	65.4	69.8	78.5	82.9	91.6	100.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
136899.4
132401.0
124028.0
110755.2
96391.6
79178.8
60434.5
43295.9
31449.9
22911.1
15563.5
9812.8
6265.5
4411.2
3350.9
2679.0
2247.0
1946.0
1723.5
1553.3
1409.3
1304.6
1234.8
1165.0
1103.9
1034.1
946.8
855.2
759.2
632.7
523.6
414.5
322.9
244.3
170.2
96.0
0.0

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