

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: P638583

Luminaire Tested: **EPH-VN-04-E-750-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638583
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-750-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35578.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

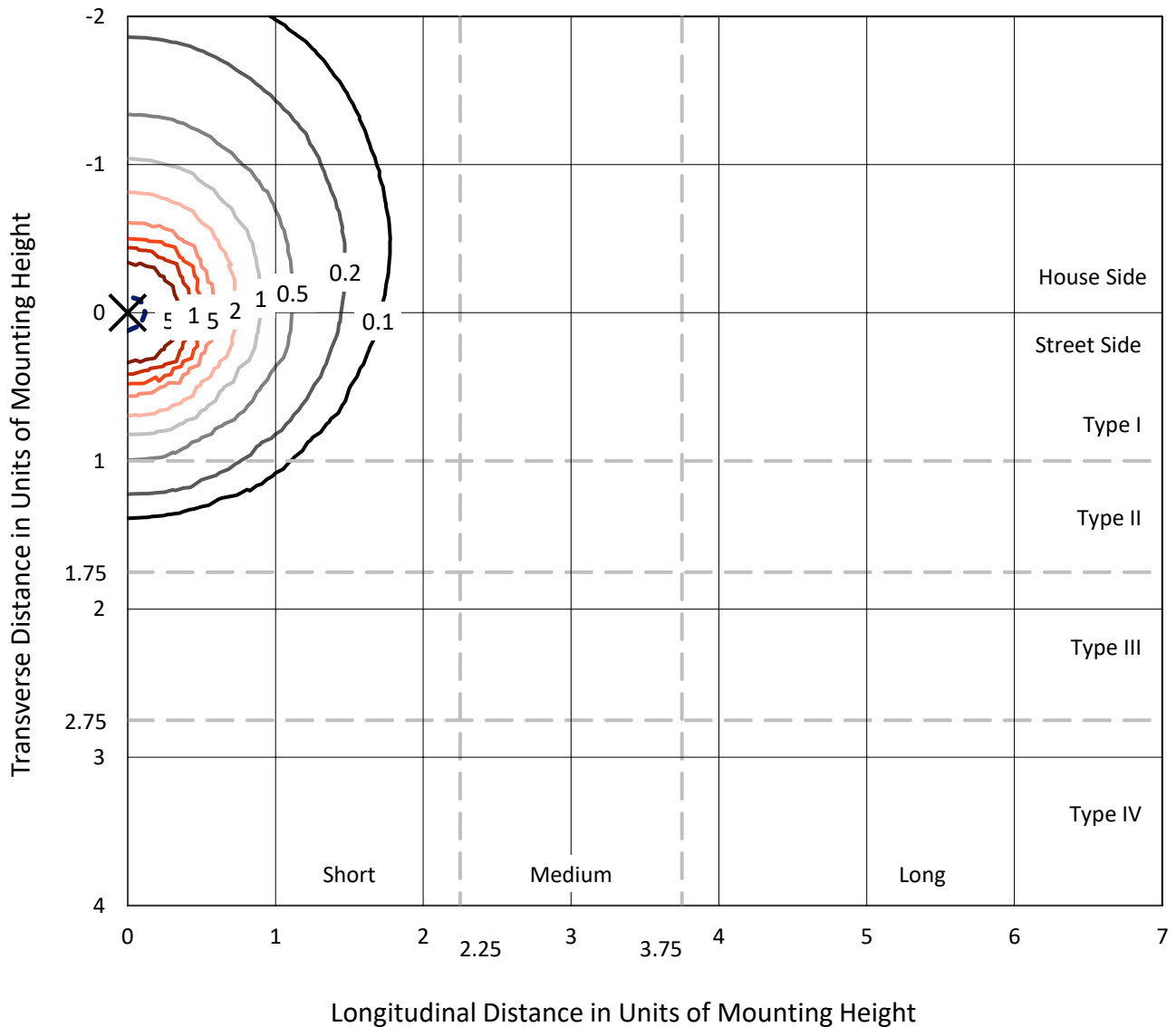
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

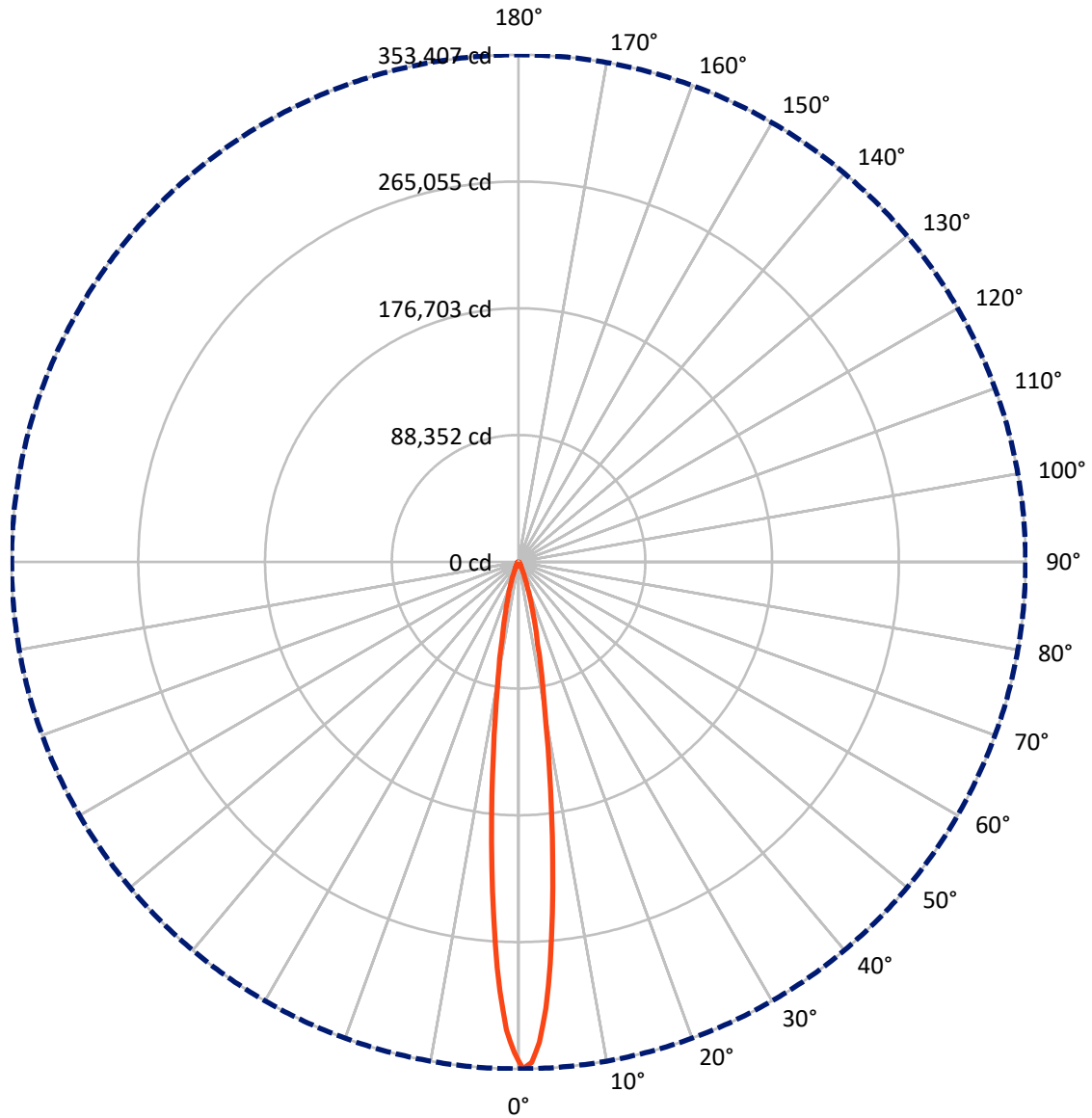
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 883.5 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	18222.5	0.0	18222.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17355.7	0.0	17355.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	35578.2	0.0	35578.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17960.9	50.5
10°-20°	11498.5	32.3
20°-30°	3456.2	9.7
30°-40°	1125.4	3.2
40°-50°	654.8	1.8
50°-60°	434.9	1.2
60°-70°	261.8	0.7
70°-80°	134.6	0.4
80°-90°	51.1	0.1
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°	35578.2	100.0
0°-180°	35578.2	100.0

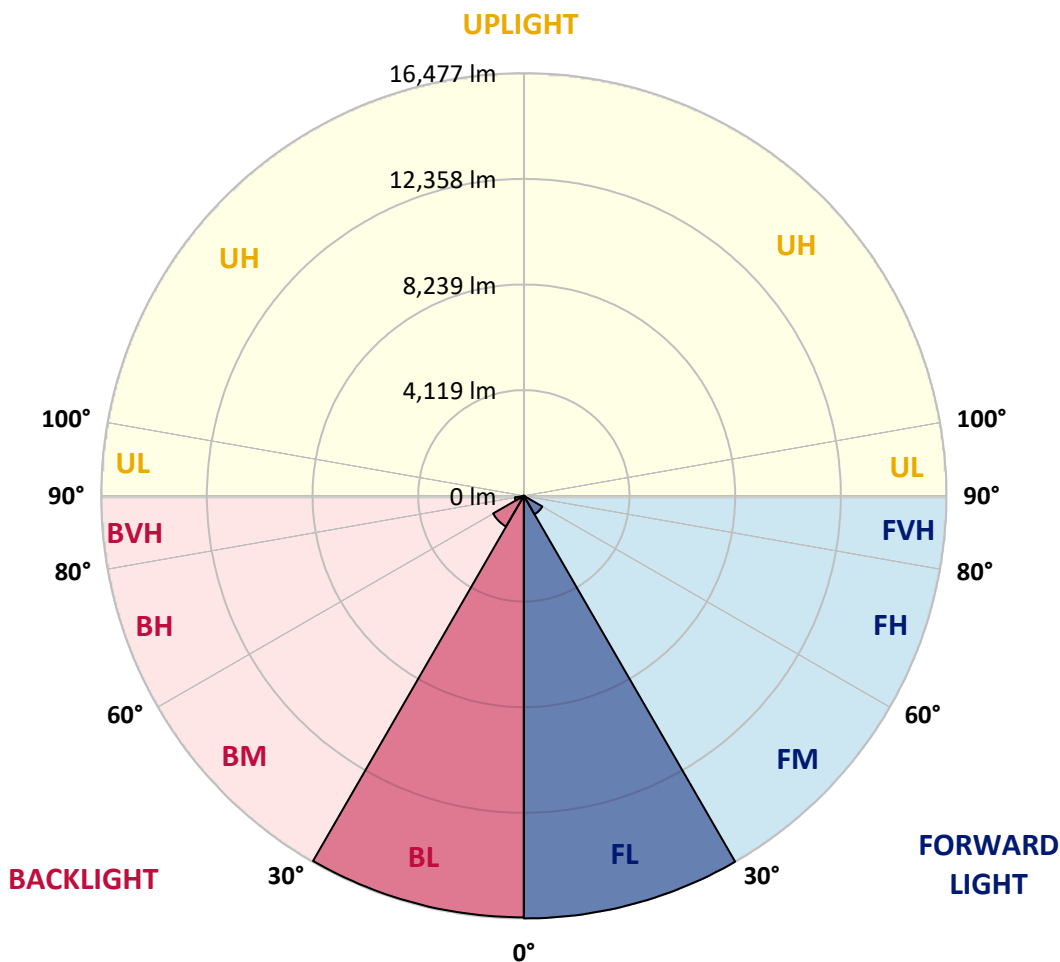


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16477.4	46.3			
FM (30°-60°)	831.5	2.3			
FH (60°-80°)	39.2	0.1			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	16438.3	46.2	B5		
BM (30°-60°)	1383.6	3.9	B2/2500		
BH (60°-80°)	357.2	1.0	B1/500		G0/660
BVH (80°-90°)	43.4	0.1			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°	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6
1°	349175.0	348109.4	345358.1	347315.0	349035.5	348535.7	348500.8	348314.8	348055.2	350093.4
2°	335217.2	334527.4	330458.7	332136.5	334581.7	332799.2	333915.2	332934.8	332954.2	335387.7
3°	311688.0	312063.9	305573.2	308622.9	312021.3	307700.6	309041.4	311560.1	308921.2	308126.9
4°	281106.3	277843.5	274297.8	277397.9	278277.5	275762.6	278234.9	281319.4	277653.6	277816.4
5°	246192.3	243782.0	239585.3	241499.6	239318.0	240112.3	243816.9	245087.9	242530.4	239310.2
6°	210294.0	208581.2	203334.4	206093.5	205318.4	204868.9	209546.1	205671.1	207066.1	205116.9
7°	174922.7	171721.9	169145.0	171787.8	171958.3	170605.9	176678.1	175972.8	173434.7	172845.7
8°	144926.1	141733.1	139551.4	141520.0	142806.5	140683.0	143538.8	145414.4	143430.3	143608.6
9°	116890.3	116328.4	113294.2	115867.3	117266.1	114991.5	118153.5	118831.7	116975.5	117878.4
10°	95976.7	95321.9	92900.0	93942.3	96259.6	93547.1	96581.2	96802.1	95321.9	95744.2
12.5°	59311.2	59047.7	58981.8	59133.0	59102.0	59582.5	60357.5	59474.0	59357.7	57896.8
15°	38335.7	38727.0	38324.0	39099.0	39211.4	39664.8	39192.0	38479.0	37118.9	36444.7
17.5°	23924.4	24424.3	25114.1	26249.5	27384.8	27516.6	26888.8	26051.8	25393.1	24672.3
20°	13764.1	14008.2	13903.6	15263.7	18201.0	18999.3	18189.4	17309.8	16515.4	15786.9
22.5°	8552.2	8463.1	8625.8	9083.1	10040.2	12508.6	11846.0	10966.3	10389.0	9788.3
25°	5242.9	5339.8	5277.8	5529.7	5959.8	7006.1	7157.2	6777.4	6482.9	6172.9
27.5°	3375.2	3375.2	3402.3	3541.8	3836.3	3801.4	4607.4	4312.9	4154.0	4002.9
30°	2344.4	2352.1	2352.1	2433.5	2499.4	2383.1	2592.4	2972.1	2898.5	2782.3
32.5°	1739.9	1763.1	1782.5	1825.1	1770.9	1646.9	1697.3	2139.0	2096.4	2053.8
35°	1325.3	1344.6	1391.1	1414.4	1336.9	1259.4	1212.9	1573.3	1592.6	1581.0
37.5°	964.9	976.5	1061.8	1150.9	1061.8	992.0	964.9	1209.0	1302.0	1290.4
40°	740.1	744.0	759.5	860.3	860.3	806.0	813.8	902.9	1065.6	1065.6
42.5°	635.5	635.5	651.0	635.5	639.4	697.5	716.9	728.5	902.9	902.9
45°	550.3	550.3	558.0	519.3	480.5	600.6	616.1	620.0	759.5	778.9
47.5°	461.1	461.1	476.6	426.3	406.9	476.6	519.3	530.9	654.9	670.4
50°	341.0	344.9	391.4	348.8	360.4	368.1	449.5	457.3	554.1	589.0
52.5°	228.6	228.6	236.4	271.3	313.9	302.3	364.3	391.4	441.8	488.3
55°	186.0	186.0	182.1	174.4	232.5	251.9	267.4	325.5	360.4	418.5
57.5°	127.9	135.6	124.0	143.4	151.1	189.9	201.5	255.8	275.1	352.6
60°	15.5	19.4	27.1	104.6	100.8	127.9	151.1	201.5	224.8	271.3
62.5°	3.9	3.9	7.8	19.4	69.8	85.3	120.1	139.5	162.8	209.3
65°	0.0	0.0	3.9	7.8	15.5	46.5	62.0	81.4	116.3	147.3
67.5°	0.0	0.0	3.9	7.8	7.8	19.4	31.0	50.4	62.0	108.5
70°	0.0	0.0	3.9	7.8	7.8	15.5	19.4	23.3	42.6	58.1
72.5°	0.0	0.0	3.9	7.8	11.6	15.5	19.4	19.4	19.4	38.8
75°	0.0	0.0	3.9	7.8	11.6	15.5	19.4	19.4	15.5	15.5
77.5°	0.0	0.0	3.9	7.8	15.5	19.4	23.3	19.4	11.6	11.6
80°	0.0	0.0	3.9	11.6	19.4	27.1	31.0	23.3	11.6	7.8
82.5°	0.0	0.0	7.8	15.5	23.3	31.0	42.6	34.9	15.5	7.8
85°	0.0	0.0	3.9	11.6	23.3	31.0	62.0	42.6	19.4	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	23.3	15.5	7.8	3.9
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°
353406.6	0°	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6	353406.6
347741.3	1°	350170.9	350415.1	349616.8	350852.9	350418.9	347876.9	347036.0	346040.1
333957.8	2°	332934.8	334178.7	334240.7	335612.4	335593.1	332628.7	331710.3	333403.7
309738.9	3°	308801.1	310250.4	308944.5	311381.9	310649.5	307053.5	306119.6	308041.6
279102.9	4°	278269.8	277994.6	277545.1	276157.9	277866.8	275413.9	273565.5	276173.4
243580.5	5°	243092.2	242480.0	241604.2	241193.5	242464.5	240895.1	237093.7	240902.8
208643.2	6°	208899.0	206264.0	206136.1	205907.5	206035.3	201641.0	201904.5	204741.1
170819.1	7°	172624.8	173109.2	172121.1	173706.0	172496.9	169520.9	168373.9	171361.6
144391.4	8°	143383.8	142771.6	142016.0	144383.6	142287.2	140334.2	138997.3	141357.2
118025.7	9°	117804.8	116746.9	115979.6	115859.5	116185.0	112519.2	113263.2	115049.6
95976.7	10°	96011.6	94275.6	94698.0	94810.4	94453.8	92051.3	92074.6	92690.7
58865.6	12.5°	58656.3	57803.8	58016.9	58133.2	58857.8	58013.1	56819.6	55959.3
37115.0	15°	36867.0	36254.8	37506.4	38347.3	38176.8	37425.0	36863.2	36084.3
24672.3	17.5°	24443.7	25245.8	25249.7	26016.9	26094.4	25342.7	24908.7	24207.3
16046.5	20°	15988.4	16321.6	17015.3	17557.8	17871.6	17298.1	16778.9	16298.4
10005.3	22.5°	10005.3	10586.6	11020.6	11725.8	12012.6	11594.1	11226.0	10834.6
6246.5	25°	6141.9	6556.6	6916.9	7529.2	7920.6	7719.1	7381.9	7106.8
4033.9	27.5°	4095.9	4270.3	4448.5	4870.9	5277.8	5165.4	5029.8	4863.2
2844.3	30°	2886.9	2902.4	3092.3	3328.7	3599.9	3669.7	3607.7	3522.4
2088.6	32.5°	2127.4	2189.4	2278.5	2425.8	2607.9	2774.5	2743.5	2704.8
1596.5	35°	1643.0	1736.0	1809.6	1922.0	2018.9	2177.8	2204.9	2193.3
1313.6	37.5°	1340.8	1422.1	1495.8	1561.6	1643.0	1751.5	1836.8	1840.6
1085.0	40°	1112.1	1185.8	1282.6	1333.0	1391.1	1472.5	1577.1	1584.9
918.4	42.5°	937.8	1007.5	1104.4	1166.4	1209.0	1286.5	1391.1	1406.6
786.6	45°	806.0	848.6	949.4	1023.0	1065.6	1116.0	1228.4	1243.9
678.1	47.5°	701.4	744.0	806.0	910.6	949.4	995.9	1085.0	1112.1
600.6	50°	616.1	658.8	713.0	806.0	864.1	902.9	976.5	1015.3
523.1	52.5°	546.4	589.0	647.1	720.8	786.6	821.5	891.3	941.6
426.3	55°	457.3	530.9	573.5	639.4	728.5	759.5	813.8	879.6
372.0	57.5°	399.1	461.1	523.1	577.4	666.5	705.3	759.5	821.5
294.5	60°	337.1	395.3	468.9	515.4	600.6	651.0	709.1	767.3
224.8	62.5°	267.4	344.9	395.3	461.1	542.5	608.4	654.9	713.0
174.4	65°	197.6	282.9	341.0	410.8	488.3	558.0	596.8	658.8
124.0	67.5°	143.4	220.9	290.6	356.5	430.1	499.9	538.6	592.9
77.5	70°	112.4	162.8	240.3	298.4	375.9	434.0	476.6	511.5
50.4	72.5°	65.9	124.0	193.8	259.6	329.4	368.1	399.1	430.1
23.3	75°	42.6	96.9	158.9	217.0	267.4	302.3	329.4	356.5
11.6	77.5°	27.1	69.8	127.9	182.1	205.4	248.0	271.3	286.8
7.8	80°	15.5	54.3	112.4	147.3	166.6	193.8	217.0	236.4
7.8	82.5°	11.6	46.5	93.0	124.0	124.0	155.0	166.6	166.6
3.9	85°	7.8	38.8	73.6	116.3	93.0	116.3	108.5	108.5
3.9	87.5°	7.8	27.1	34.9	50.4	42.6	50.4	50.4	58.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
353406.6
342095.4
326231.0
299504.9
266733.8
230866.5
196518.3
163235.6
134618.5
109469.6
88497.9
55436.2
35685.1
24032.9
16131.7
10625.3
6947.9
4766.3
3464.3
2673.8
2154.5
1813.5
1573.3
1395.0
1240.0
1116.0
1019.1
941.6
883.5
825.4
782.8
740.1
670.4
596.8
523.1
437.9
356.5
279.0
213.1
155.0
104.6
58.1
0.0

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