

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: P638790

Luminaire Tested: **EPH-VN-08-D-735-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638790
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-735-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42292.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

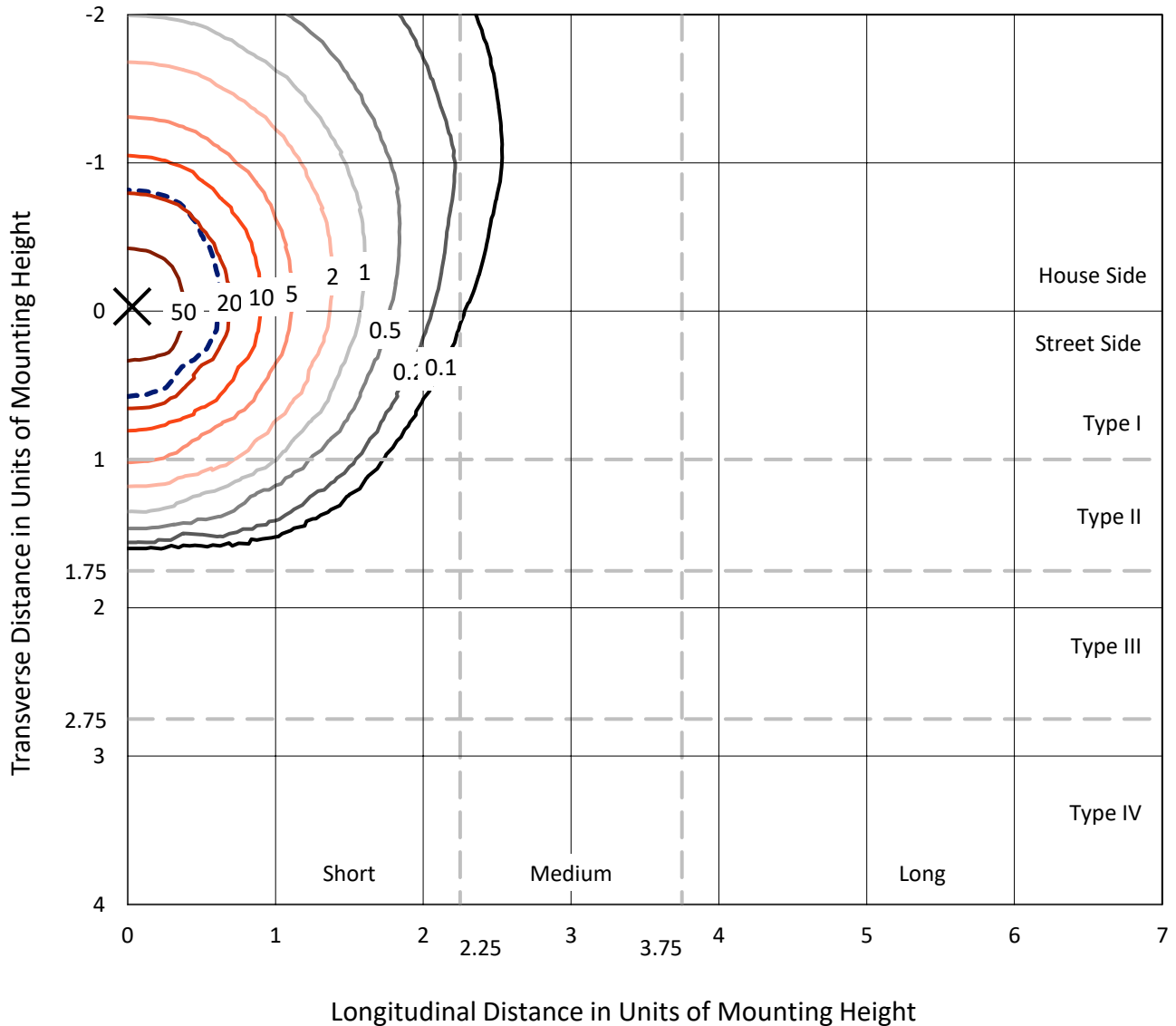
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

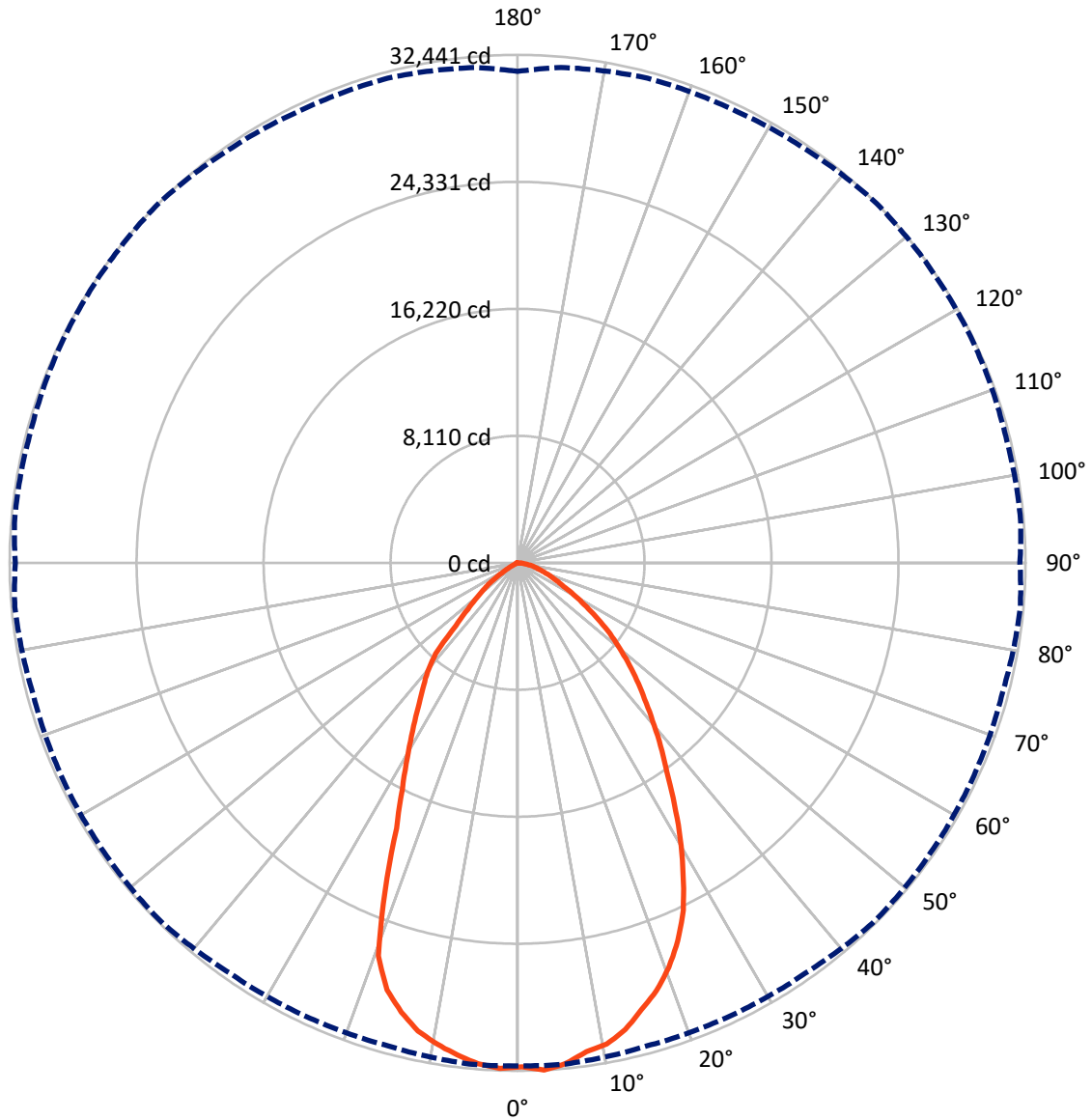
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 80.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25047.9	0.0	25047.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	17244.8	0.0	17244.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	42292.8	0.0	42292.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3018.4	7.1
10°-20°	8094.1	19.1
20°-30°	9871.1	23.3
30°-40°	9012.3	21.3
40°-50°	6512.9	15.4
50°-60°	3556.1	8.4
60°-70°	1470.3	3.5
70°-80°	595.5	1.4
80°-90°	162.0	0.4
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°	42292.8	100.0
0°-180°	42292.8	100.0



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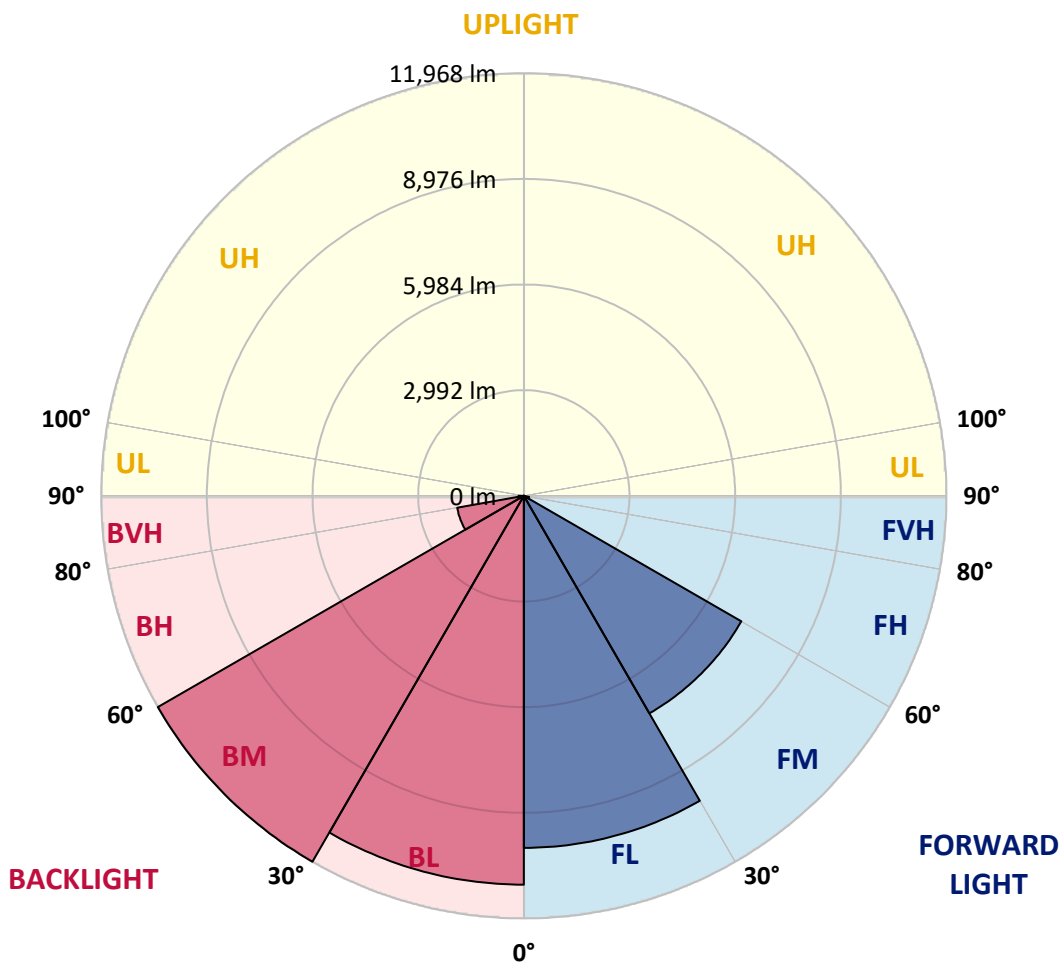
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9970.0	23.6			
FM (30°-60°)	7112.9	16.8			
FH (60°-80°)	149.0	0.4			G0/660
FVH (80°-90°)	13.0	0.0			G1/100
BL (0°-30°)	11013.6	26.0	B5		
BM (30°-60°)	11968.5	28.3	B5		
BH (60°-80°)	1916.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	149.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7
2.5°	32125.1	32166.8	31940.5	31964.3	32006.0	32309.7	32232.3	32160.8	32059.6	32232.3
5°	32083.4	32107.2	31869.0	31785.6	31821.4	32095.3	31845.2	31845.2	31821.4	31791.6
7.5°	31761.8	31773.7	31589.1	31440.2	31535.5	31660.6	31475.9	31565.3	31434.2	31535.5
10°	31279.4	31202.0	30981.6	30939.9	31047.1	31166.2	31041.2	31124.5	31005.4	31082.9
12.5°	30570.7	30451.5	30272.9	30219.3	30403.9	30564.7	30463.5	30415.8	30261.0	30451.5
15°	27837.0	27747.7	28152.6	28861.4	29498.6	29635.6	29528.4	29576.1	29254.4	29308.0
17.5°	22911.6	22744.9	23179.6	24859.1	27253.3	28515.9	28420.6	28111.0	27634.5	27741.7
20°	20821.2	20773.5	20725.9	21124.9	22798.5	26628.0	26759.0	25972.9	25293.9	25145.0
22.5°	19641.9	19624.1	19576.4	19665.8	20106.5	22566.2	24067.0	23340.4	22887.8	22846.1
25°	18563.9	18534.2	18391.2	18504.4	18504.4	18647.3	20571.0	21011.7	20612.7	20565.1
27.5°	17468.1	17414.5	17390.7	17444.3	17170.3	16205.5	16693.9	18843.9	18635.4	18647.3
30°	16282.9	16265.0	16199.5	16312.7	15467.0	14269.9	13960.2	16878.5	16920.2	16908.3
32.5°	14520.0	14597.4	14895.2	15020.3	13626.7	12638.0	12119.9	14603.4	15455.1	15437.2
35°	10547.6	10547.6	11518.3	13322.9	11941.2	11196.7	10916.8	12381.9	14007.8	14067.4
37.5°	8671.5	8701.3	8891.9	9713.8	10303.4	10041.3	9957.9	10422.5	12149.6	12244.9
40°	7802.0	7802.0	7802.0	7462.5	7444.6	9046.7	8999.1	8850.2	10494.0	10702.4
42.5°	7009.9	7027.7	7039.6	6182.0	5705.6	7819.8	7712.6	7486.3	9011.0	9255.2
45°	6193.9	6223.7	6259.5	5169.6	4961.1	5628.1	6527.5	6277.3	7545.9	7861.5
47.5°	3781.9	3829.5	4639.5	4383.4	4407.2	4341.7	5324.4	5282.7	6188.0	6634.7
50°	2555.0	2572.9	2650.3	2781.3	3781.9	3412.6	3770.0	4371.5	4699.1	5378.0
52.5°	2144.1	2173.8	1983.3	1804.6	2483.5	2668.2	2632.4	3245.9	3376.9	4216.6
55°	1506.8	1602.1	1512.8	1494.9	1411.5	2072.6	1995.2	2495.4	2578.8	3204.2
57.5°	154.8	178.7	309.7	1113.7	923.1	1173.3	1423.4	1828.4	1911.8	2364.4
60°	11.9	11.9	29.8	154.8	673.0	702.8	982.7	1125.6	1286.4	1649.7
62.5°	0.0	6.0	11.9	23.8	107.2	375.2	494.3	589.6	774.2	1066.1
65°	0.0	0.0	6.0	17.9	23.8	142.9	190.6	309.7	422.9	661.1
67.5°	0.0	0.0	6.0	11.9	17.9	35.7	65.5	113.2	226.3	375.2
70°	0.0	0.0	6.0	11.9	17.9	29.8	47.6	71.5	101.2	202.5
72.5°	0.0	0.0	6.0	6.0	11.9	29.8	35.7	47.6	71.5	101.2
75°	0.0	0.0	6.0	6.0	17.9	35.7	29.8	35.7	47.6	65.5
77.5°	0.0	0.0	6.0	11.9	17.9	35.7	29.8	35.7	35.7	41.7
80°	0.0	0.0	6.0	11.9	23.8	41.7	35.7	35.7	29.8	29.8
82.5°	0.0	0.0	6.0	17.9	23.8	53.6	53.6	47.6	23.8	17.9
85°	0.0	0.0	11.9	23.8	35.7	59.6	59.6	47.6	17.9	11.9
87.5°	0.0	0.0	11.9	17.9	29.8	41.7	59.6	47.6	17.9	6.0
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°
32184.7	0°	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7	32184.7
32083.4	2.5°	32244.2	32208.5	32327.6	32375.2	32440.8	32190.6	32035.8	32041.7	31755.8
31720.1	5°	31910.7	31916.7	32071.5	32059.6	32125.1	31988.1	31928.6	31827.3	31577.2
31261.5	7.5°	31487.8	31434.2	31583.1	31696.3	31529.5	31624.8	31487.8	31535.5	31386.6
30856.5	10°	31160.3	31035.2	31172.2	31249.6	31255.6	31160.3	31029.2	30904.2	30850.6
30225.2	12.5°	30433.7	30272.9	30505.1	30612.3	30594.5	30409.9	30261.0	30290.7	30118.0
29117.5	15°	29433.1	29439.1	29605.8	29707.1	29611.8	29570.1	29582.0	29510.5	29361.7
27586.8	17.5°	27902.5	27991.8	28432.6	28676.7	28730.3	28647.0	28605.3	28521.9	28373.0
25145.0	20°	25353.5	25889.5	26675.6	27432.0	27580.9	27557.1	27408.2	27372.4	27289.1
22727.0	22.5°	23114.1	23513.1	24424.4	25603.6	26211.1	26270.6	26092.0	26038.4	25949.0
20565.1	25°	20797.3	21226.2	22048.0	23328.5	24585.2	24841.3	24811.5	24650.7	24555.4
18647.3	27.5°	18843.9	19272.7	20017.1	21172.5	22518.5	23340.4	23417.9	23161.8	23155.8
16938.0	30°	17081.0	17670.6	18236.4	19177.4	20481.7	21714.5	21845.5	21666.9	21684.7
15371.7	32.5°	15699.3	16187.6	16670.0	17301.3	18385.3	19820.6	20332.8	20166.0	20100.5
14067.4	35°	14287.7	14621.3	15115.6	15693.3	16431.8	17855.2	18742.6	18617.5	18552.0
12304.5	37.5°	12679.7	13251.5	13608.8	14258.0	14835.7	15967.3	17218.0	17200.1	17063.1
10803.7	40°	11030.0	11631.5	12173.5	12828.6	13275.3	14174.6	15562.3	15556.3	15574.2
9249.2	42.5°	9535.1	10089.0	10744.1	11458.8	11887.6	12542.7	14031.7	14115.0	14216.3
7968.7	45°	8183.1	8683.4	9290.9	10160.4	10678.6	11053.8	12376.0	12757.1	12751.2
6825.2	47.5°	6968.2	7438.7	7950.9	8796.6	9457.7	9797.1	10893.0	11435.0	11399.2
5598.4	50°	5848.5	6265.4	6801.4	7414.9	8302.3	8600.0	9416.0	10130.7	10077.1
4460.8	52.5°	4705.0	5282.7	5735.3	6295.2	7230.2	7522.1	8153.4	8850.2	8808.5
3347.1	55°	3668.7	4228.6	4776.5	5258.9	6045.0	6479.8	6932.4	7647.1	7635.2
2620.5	57.5°	2775.4	3388.8	3906.9	4365.5	4990.9	5526.9	5890.2	6539.4	6622.7
1792.7	60°	2054.7	2525.2	3085.1	3597.2	4091.6	4645.5	4889.6	5526.9	5562.6
1226.9	62.5°	1399.6	1917.7	2465.7	2930.2	3299.5	3871.2	4091.6	4615.7	4681.2
786.2	65°	970.8	1304.3	1929.7	2263.2	2715.8	3204.2	3424.5	3841.4	3972.5
452.6	67.5°	643.2	929.1	1506.8	1810.5	2257.2	2590.7	2870.7	3210.1	3353.1
285.9	70°	351.4	684.9	1078.0	1429.4	1816.5	2138.1	2412.1	2686.0	2811.1
131.0	72.5°	238.2	458.6	750.4	1131.6	1465.1	1780.8	2024.9	2227.4	2233.4
77.4	75°	119.1	309.7	571.7	875.5	1143.5	1453.2	1673.6	1792.7	1649.7
47.6	77.5°	71.5	226.3	464.5	702.8	929.1	1173.3	1298.3	1363.9	1131.6
35.7	80°	41.7	160.8	363.3	559.8	643.2	863.6	982.7	1000.6	756.4
23.8	82.5°	29.8	119.1	285.9	410.9	393.1	607.5	738.5	714.7	482.4
17.9	85°	17.9	83.4	178.7	256.1	238.2	399.0	428.8	440.7	279.9
11.9	87.5°	11.9	47.6	95.3	137.0	113.2	172.7	172.7	208.4	137.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32184.7
31386.6
31517.6
31136.5
30612.3
29969.1
29212.8
28307.5
27098.5
25925.2
24454.1
23143.9
21595.4
20106.5
18462.7
17176.3
15574.2
14162.7
12763.1
11411.1
10124.7
8897.8
7665.0
6587.0
5616.2
4693.1
3942.7
3335.2
2763.4
2179.8
1542.5
1089.9
708.7
446.7
256.1
119.1
0.0

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