

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: P638746

Luminaire Tested: **EPH-VN-06-E-750-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638746
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-750-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45638.6 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 464.2
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



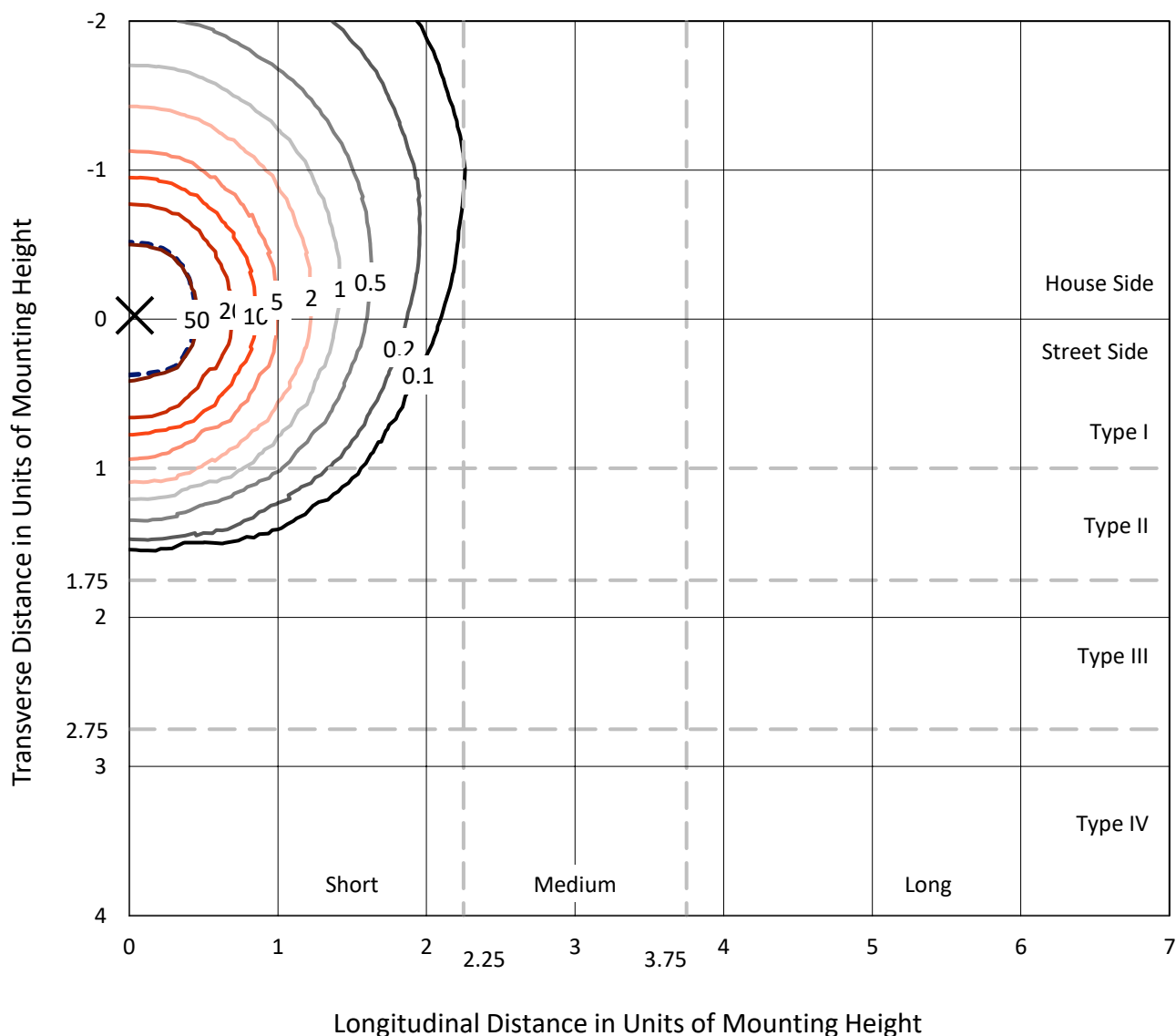
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

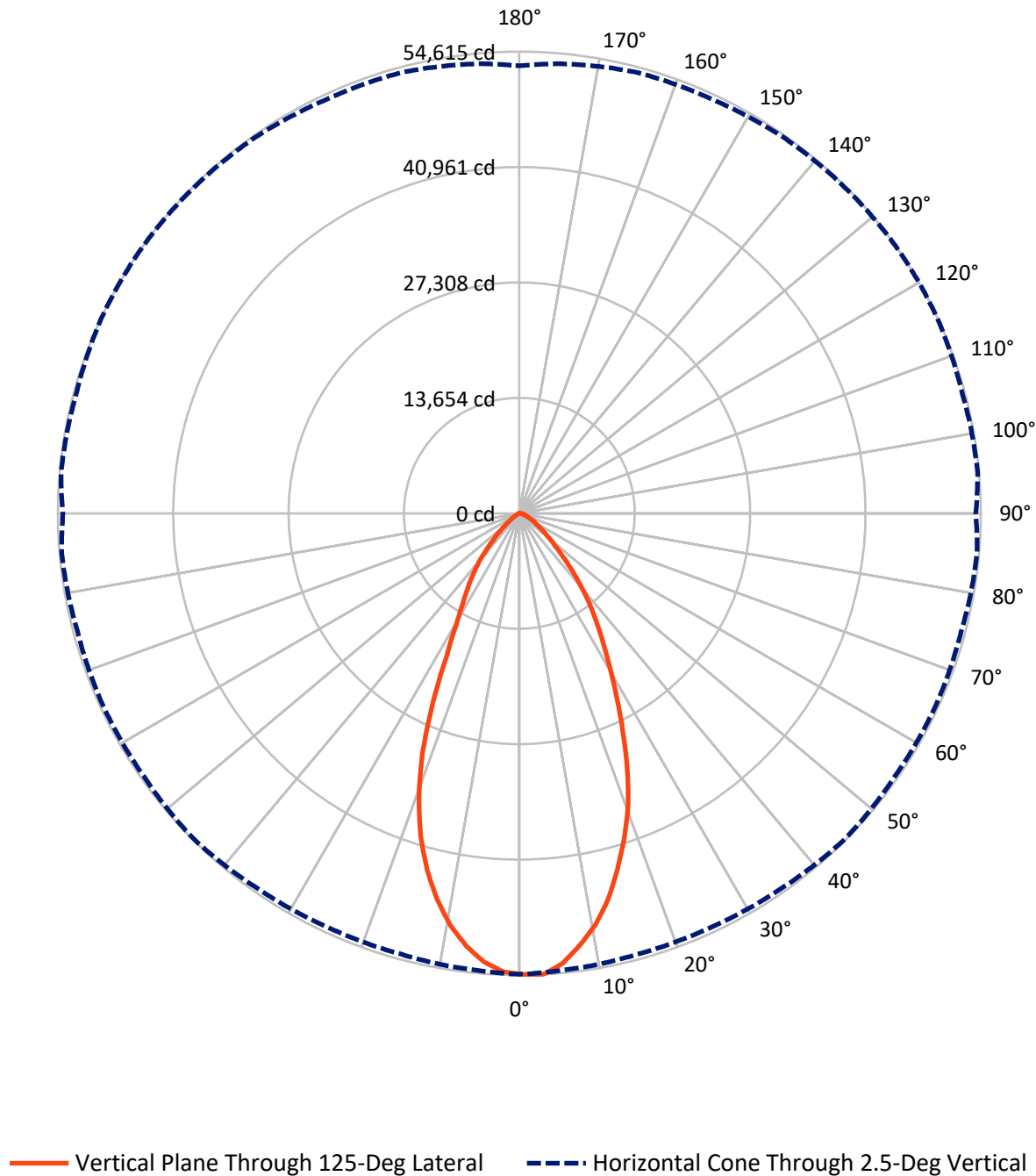


Based on 20 foot mounting height. Maximum calculated value = 136.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25897.1	0.0	25897.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	19741.4	0.0	19741.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	45638.6	0.0	45638.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4951.3	10.8
10°-20°	11802.7	25.9
20°-30°	12020.8	26.3
30°-40°	8963.9	19.6
40°-50°	4683.0	10.3
50°-60°	1969.7	4.3
60°-70°	804.4	1.8
70°-80°	338.5	0.7
80°-90°	104.3	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°	45638.6	100.0
0°-180°	45638.6	100.0

Coefficient of Utilization



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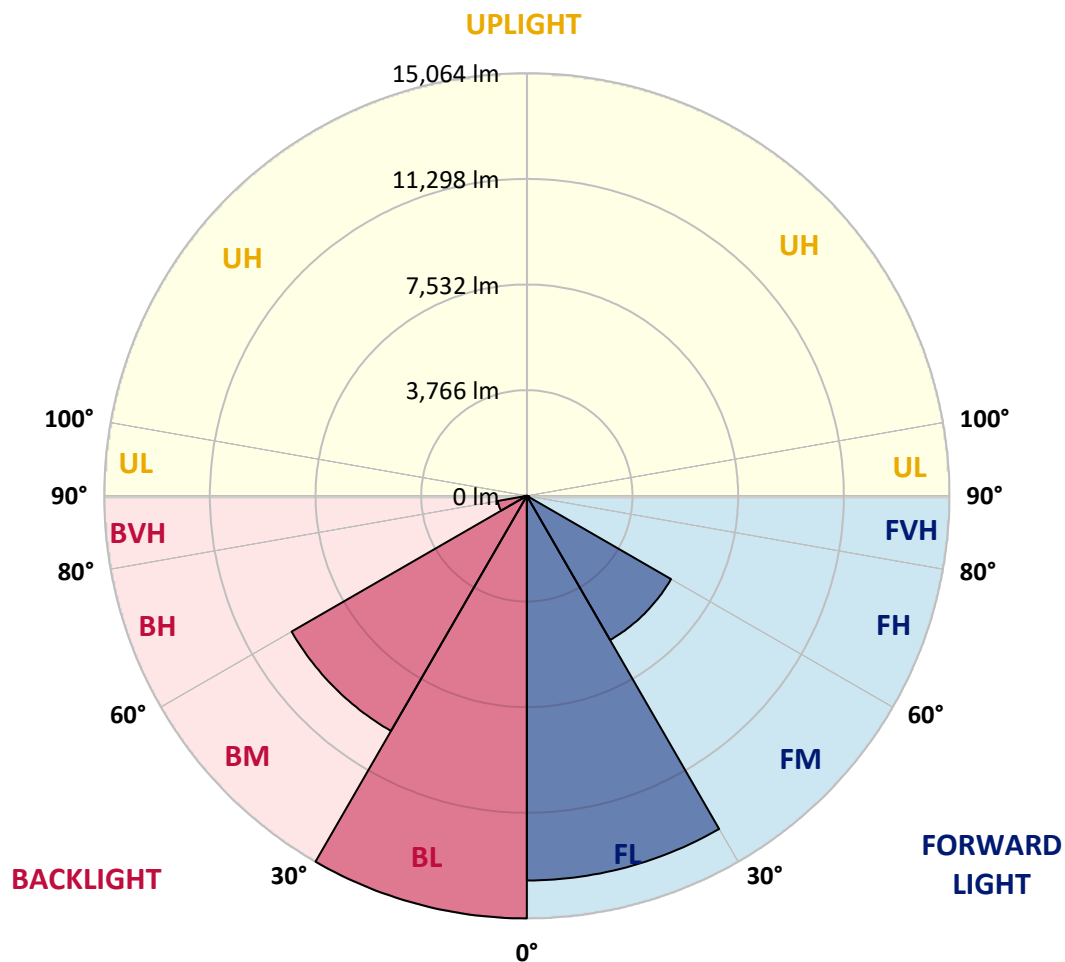
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13710.4	30.0			
FM	(30°-60°)	5935.5	13.0			
FH	(60°-80°)	85.9	0.2			G0/660
FVH	(80°-90°)	9.7	0.0			G0/10
BL	(0°-30°)	15064.4	33.0	B5		
BM	(30°-60°)	9681.1	21.2	B5		
BH	(60°-80°)	1057.1	2.3	B3/2500		G3/2500
BVH	(80°-90°)	94.6	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-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1
2.5°	54532.9	54310.2	53993.6	53964.3	54128.4	54486.0	54257.4	54269.1	54128.4	54368.8
5°	53677.0	53466.0	53249.0	52961.8	53202.1	53354.6	53237.3	53108.3	52926.6	53161.1
7.5°	52059.0	51941.7	51619.3	51490.3	51636.9	51806.9	51554.8	51519.6	51267.5	51572.4
10°	49585.0	49538.1	49221.5	49145.3	49274.3	49532.2	49420.8	49397.4	49239.1	49209.8
12.5°	47017.2	46835.5	46442.7	46419.2	46612.7	46999.6	46700.6	46413.4	46501.3	46577.5
15°	40404.3	40210.9	41184.0	42714.1	43517.3	43488.0	43575.9	43230.0	43124.5	43159.7
17.5°	32120.6	31792.3	32144.1	34512.5	38329.0	40545.0	39935.3	39190.8	38792.1	38528.3
20°	27723.7	27741.3	27676.8	28286.5	30666.7	35720.2	35573.6	34137.3	33615.6	33398.6
22.5°	25050.4	24950.8	24810.1	25003.5	25642.6	28609.0	30596.4	29277.3	29095.6	28855.2
25°	22429.9	22429.9	22259.9	22453.4	22635.1	22676.1	24669.4	25208.7	24857.0	24857.0
27.5°	20161.1	20043.9	19967.7	20055.6	19815.2	18660.3	18912.4	21673.6	21433.3	21286.7
30°	17909.9	17874.7	17745.8	17863.0	16971.9	15670.5	15142.8	18291.0	18543.1	18490.3
32.5°	14785.2	14925.9	15500.4	15682.2	14157.9	13108.5	12604.4	15183.9	16192.2	16151.2
35°	10048.3	10165.6	10822.2	12991.3	11736.7	10986.3	10839.8	12076.7	13735.8	13894.1
37.5°	8002.3	7984.7	8172.3	8559.2	9432.8	9251.0	9210.0	9532.4	11203.2	11273.6
40°	6595.3	6571.9	6566.0	6249.4	6032.5	7691.6	7580.2	7386.7	8834.8	8975.5
42.5°	5317.3	5340.7	5358.3	4666.5	4350.0	5932.8	5868.4	5669.0	6929.5	7093.6
45°	4174.1	4168.2	4203.4	3476.5	3388.5	3793.0	4385.1	4226.9	5229.3	5405.2
47.5°	2163.3	2239.5	2714.3	2690.9	2731.9	2690.9	3318.2	3277.1	3933.7	4215.1
50°	1453.9	1477.3	1518.4	1524.2	2151.5	1981.5	2251.2	2550.2	2755.4	3189.2
52.5°	1125.6	1143.2	1037.7	973.2	1319.1	1465.6	1477.3	1764.6	1922.9	2362.6
55°	627.3	703.5	756.3	762.1	726.9	1084.6	1078.7	1307.3	1430.4	1723.6
57.5°	82.1	99.7	152.4	492.4	486.6	603.8	756.3	949.7	1020.1	1260.4
60°	5.9	11.7	17.6	76.2	322.4	351.7	515.9	592.1	709.4	885.2
62.5°	0.0	0.0	5.9	17.6	64.5	205.2	269.7	310.7	416.2	580.4
65°	0.0	0.0	5.9	11.7	23.4	76.2	105.5	170.0	246.2	357.6
67.5°	0.0	0.0	5.9	11.7	17.6	29.3	46.9	76.2	129.0	216.9
70°	0.0	0.0	5.9	11.7	17.6	23.4	35.2	46.9	70.3	117.2
72.5°	0.0	0.0	5.9	5.9	11.7	29.3	29.3	35.2	46.9	64.5
75°	0.0	0.0	5.9	11.7	17.6	29.3	29.3	29.3	35.2	41.0
77.5°	0.0	0.0	5.9	11.7	17.6	29.3	23.4	29.3	29.3	29.3
80°	0.0	0.0	5.9	11.7	17.6	29.3	35.2	29.3	23.4	23.4
82.5°	0.0	0.0	5.9	17.6	17.6	41.0	41.0	41.0	17.6	17.6
85°	0.0	0.0	11.7	17.6	29.3	46.9	46.9	35.2	17.6	11.7
87.5°	0.0	0.0	5.9	11.7	11.7	23.4	35.2	29.3	11.7	5.9
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°
54527.1	0°	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1	54527.1
54017.0	2.5°	54450.9	54304.3	54579.8	54615.0	54497.8	54351.2	54011.2	53981.9	53389.7
52821.1	5°	53419.1	53178.7	53354.6	53471.8	53430.8	53272.5	53131.8	53002.8	52469.3
50880.6	7.5°	51496.2	51408.2	51490.3	51578.2	51748.2	51578.2	51519.6	51384.8	50857.2
48969.4	10°	49362.2	49198.1	49508.8	49467.7	49420.8	49373.9	49127.7	49151.2	48529.7
46366.5	12.5°	46741.7	46466.1	46765.1	46800.3	46765.1	46601.0	46325.4	46442.7	45874.0
42849.0	15°	43218.3	43189.0	43405.9	43546.6	43646.3	43470.4	43376.6	43435.2	43095.2
38323.1	17.5°	38891.8	39272.9	39982.2	40222.6	40228.4	40410.2	40357.4	40287.1	40035.0
33310.7	20°	33803.2	34536.0	35626.4	36746.1	37068.6	36916.1	36845.8	36974.8	36599.6
28603.1	22.5°	29107.3	29734.6	31000.9	32636.5	33580.4	33674.2	33656.6	33545.2	33398.6
24833.5	25°	25120.8	25677.7	26891.3	28386.2	30197.7	30467.4	30479.1	30443.9	30315.0
21415.7	27.5°	21755.7	22429.9	23098.2	24434.9	26363.6	27477.5	27336.8	27295.8	27248.9
18531.3	30°	18707.2	19557.3	20184.6	21017.0	22746.5	24253.1	24399.7	24329.4	24218.0
16145.3	32.5°	16291.9	16796.1	17593.3	18156.1	19399.0	21105.0	21667.8	21615.0	21515.4
13993.8	35°	14193.1	14392.4	15019.7	15647.0	16473.6	18126.8	18959.3	18842.1	18824.5
11402.6	37.5°	11689.8	12358.1	12704.0	13337.2	13917.6	15201.5	16350.5	16297.7	16303.6
9168.9	40°	9438.6	9825.5	10511.5	11044.9	11578.4	12516.4	13794.5	13829.6	13817.9
7099.5	42.5°	7246.0	7621.2	8342.3	8922.7	9397.6	9978.0	11197.4	11238.4	11291.2
5528.3	45°	5657.3	5897.7	6425.3	7029.1	7533.3	7885.1	8811.3	9075.1	9081.0
4285.5	47.5°	4391.0	4666.5	5041.7	5622.1	6114.6	6366.7	7040.9	7398.5	7380.9
3288.9	50°	3447.1	3699.2	4004.1	4461.4	4994.8	5194.2	5692.5	6044.2	6026.6
2479.8	52.5°	2638.1	2960.6	3230.2	3582.0	4103.7	4273.8	4631.4	5035.9	4977.3
1817.4	55°	1999.1	2327.4	2579.5	2872.6	3347.5	3564.4	3810.6	4133.1	4144.8
1407.0	57.5°	1506.7	1846.7	2075.3	2374.3	2731.9	2972.3	3159.9	3505.8	3499.9
961.4	60°	1078.7	1371.8	1647.4	1958.1	2233.6	2509.1	2638.1	2966.4	2978.1
680.0	62.5°	779.7	1055.2	1319.1	1588.7	1835.0	2104.6	2221.9	2479.8	2515.0
445.5	65°	545.2	738.7	1043.5	1248.7	1524.2	1723.6	1876.0	2098.8	2139.8
263.8	67.5°	351.7	533.5	826.6	1008.3	1260.4	1430.4	1588.7	1764.6	1817.4
170.0	70°	211.0	404.5	615.6	809.0	1037.7	1190.1	1342.5	1494.9	1524.2
82.1	72.5°	134.8	281.4	445.5	656.6	832.5	996.6	1131.5	1242.8	1154.9
52.8	75°	76.2	193.5	351.7	515.9	674.2	832.5	943.9	1002.5	803.2
35.2	77.5°	46.9	140.7	287.3	416.2	521.8	668.3	738.7	773.8	574.5
23.4	80°	29.3	105.5	240.4	340.0	340.0	492.4	574.5	603.8	416.2
17.6	82.5°	23.4	76.2	187.6	257.9	228.6	369.3	451.4	457.3	293.1
11.7	85°	17.6	58.6	117.2	170.0	158.3	257.9	263.8	293.1	193.5
11.7	87.5°	11.7	35.2	70.3	99.7	87.9	123.1	140.7	158.3	105.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
54527.1
52926.6
52041.4
50745.8
48318.7
45709.9
42684.8
39659.8
36329.9
33117.2
29881.1
26973.3
24077.3
21251.5
18631.0
16116.0
13612.7
11115.3
8928.6
7316.4
6026.6
4983.1
4144.8
3488.2
2948.8
2503.3
2128.1
1811.5
1500.8
1072.8
762.1
539.3
386.9
269.7
175.9
93.8
0.0

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