

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: P638749

Luminaire Tested: **EPH-VN-08-E-750-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638749
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-750-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59053.1 lumens
Efficiency: N/A
Efficacy: 94.2 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): 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

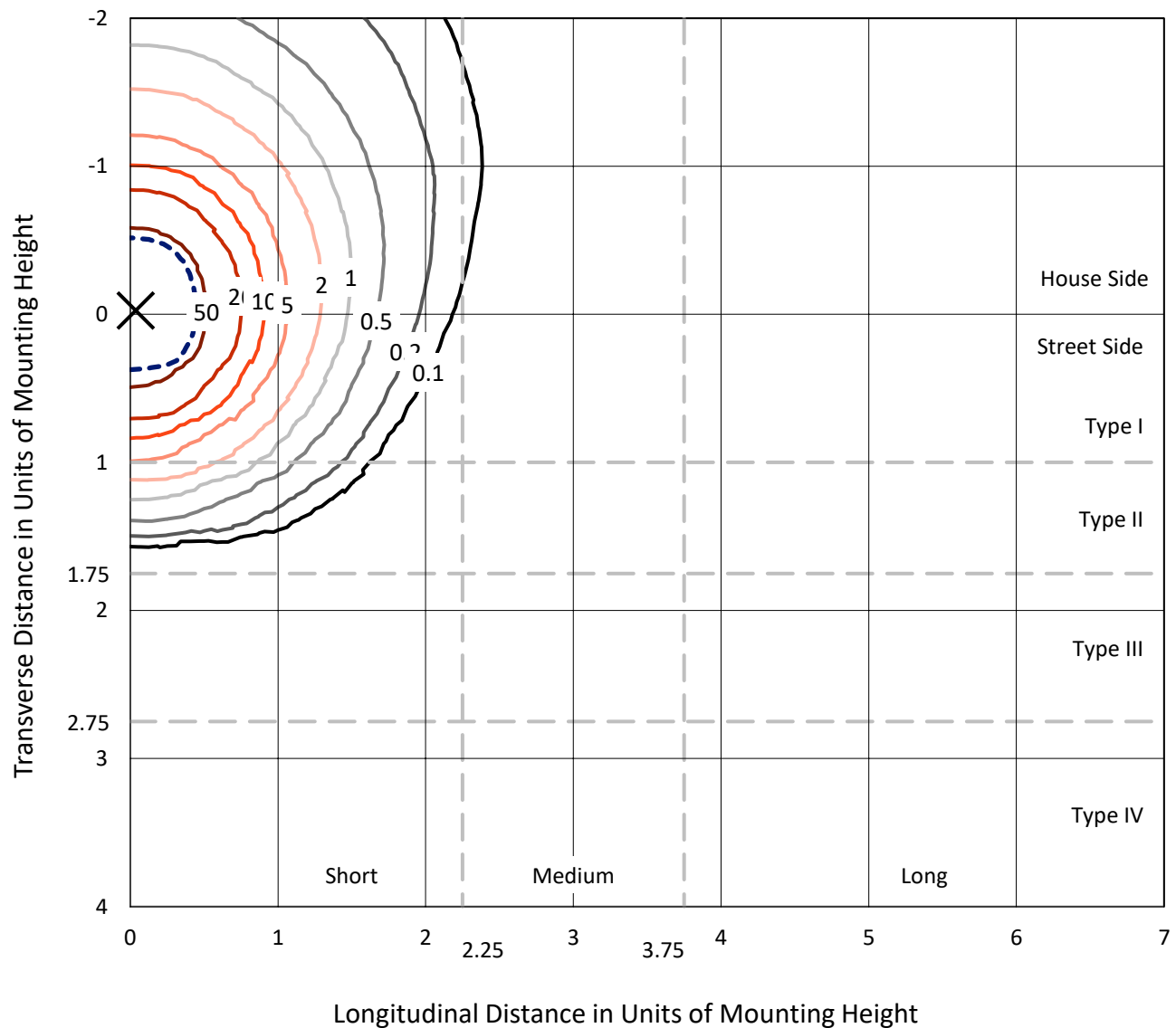


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

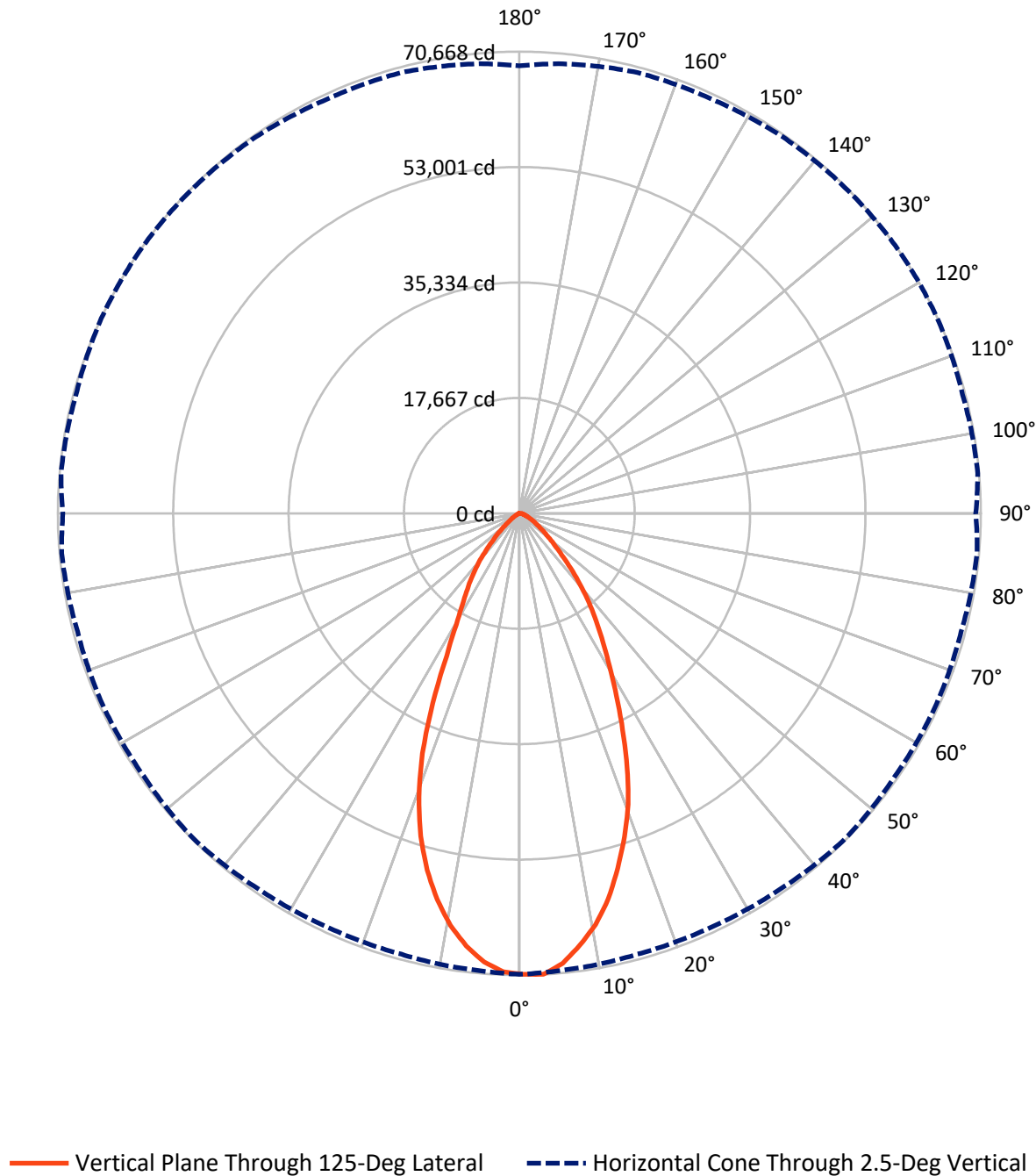


Based on 20 foot mounting height. Maximum calculated value = 176.4 fc

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	33509.1	0.0	33509.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	25544.0	0.0	25544.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	59053.1	0.0	59053.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6406.6	10.8
10°-20°	15271.9	25.9
20°-30°	15554.1	26.3
30°-40°	11598.6	19.6
40°-50°	6059.4	10.3
50°-60°	2548.6	4.3
60°-70°	1040.9	1.8
70°-80°	438.0	0.7
80°-90°	135.0	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°	59053.1	100.0
0°-180°	59053.1	100.0

Coefficient of Utilization



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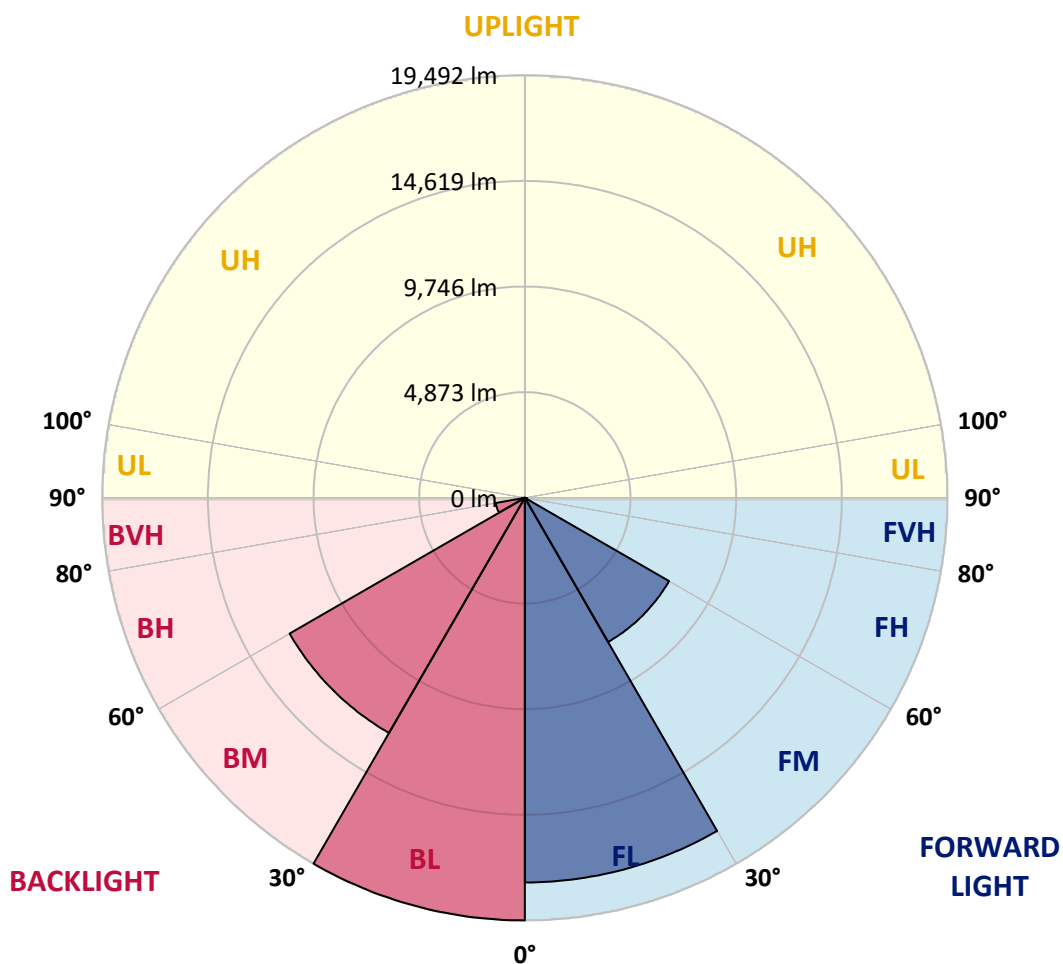
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17740.3	30.0			
FM	(30°-60°)	7680.1	13.0			
FH	(60°-80°)	111.1	0.2			G0/660
FVH	(80°-90°)	12.6	0.0			G1/100
BL	(0°-30°)	19492.3	33.0	B5		
BM	(30°-60°)	12526.6	21.2	B5		
BH	(60°-80°)	1367.8	2.3	B3/2500		G3/2500
BVH	(80°-90°)	122.4	0.2			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°	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2
2.5°	70561.7	70273.5	69863.9	69825.9	70038.3	70501.1	70205.2	70220.4	70038.3	70349.3
5°	69454.2	69181.1	68900.5	68528.8	68839.8	69037.0	68885.3	68718.4	68483.3	68786.7
7.5°	67360.6	67208.9	66791.7	66624.8	66814.4	67034.4	66708.2	66662.7	66336.5	66731.0
10°	64159.4	64098.8	63689.1	63590.5	63757.4	64091.2	63947.0	63916.7	63711.9	63674.0
12.5°	60836.9	60601.8	60093.5	60063.2	60313.5	60814.2	60427.3	60055.6	60169.4	60268.0
15°	52280.3	52030.0	53289.2	55269.1	56308.3	56270.4	56384.2	55936.6	55800.1	55845.6
17.5°	41561.8	41137.0	41592.1	44656.7	49595.0	52462.4	51673.5	50710.1	50194.3	49852.9
20°	35872.5	35895.3	35811.9	36600.8	39680.5	46219.4	46029.7	44171.3	43496.1	43215.5
22.5°	32413.5	32284.5	32102.5	32352.8	33179.6	37018.0	39589.5	37882.7	37647.6	37336.6
25°	29022.7	29022.7	28802.7	29053.0	29288.2	29341.3	31920.4	32618.3	32163.2	32163.2
27.5°	26087.1	25935.3	25836.7	25950.5	25639.5	24145.1	24471.3	28044.2	27733.1	27543.5
30°	23174.2	23128.7	22961.8	23113.5	21960.5	20276.4	19593.7	23667.2	23993.4	23925.1
32.5°	19131.0	19313.1	20056.5	20291.6	18319.3	16961.5	16309.2	19646.8	20951.6	20898.5
35°	13001.8	13153.5	14003.1	16809.8	15186.5	14215.5	14025.9	15626.4	17773.2	17978.0
37.5°	10354.4	10331.7	10574.4	11075.1	12205.3	11970.2	11917.1	12334.3	14496.2	14587.2
40°	8533.9	8503.5	8495.9	8086.3	7805.6	9952.4	9808.2	9557.9	11431.6	11613.6
42.5°	6880.2	6910.5	6933.3	6038.2	5628.6	7676.7	7593.2	7335.3	8966.2	9178.6
45°	5401.0	5393.4	5438.9	4498.3	4384.5	4907.9	5674.1	5469.3	6766.4	6994.0
47.5°	2799.1	2897.7	3512.2	3481.8	3534.9	3481.8	4293.5	4240.4	5090.0	5454.1
50°	1881.2	1911.6	1964.7	1972.3	2783.9	2564.0	2912.9	3299.8	3565.3	4126.6
52.5°	1456.4	1479.2	1342.7	1259.2	1706.8	1896.4	1911.6	2283.3	2488.1	3057.0
55°	811.7	910.3	978.5	986.1	940.6	1403.3	1395.8	1691.6	1850.9	2230.2
57.5°	106.2	129.0	197.2	637.2	629.6	781.3	978.5	1228.9	1319.9	1630.9
60°	7.6	15.2	22.8	98.6	417.2	455.1	667.5	766.2	917.9	1145.4
62.5°	0.0	0.0	7.6	22.8	83.4	265.5	348.9	402.0	538.6	751.0
65°	0.0	0.0	7.6	15.2	30.3	98.6	136.5	220.0	318.6	462.7
67.5°	0.0	0.0	7.6	15.2	22.8	37.9	60.7	98.6	166.9	280.7
70°	0.0	0.0	7.6	15.2	22.8	30.3	45.5	60.7	91.0	151.7
72.5°	0.0	0.0	7.6	7.6	15.2	37.9	37.9	45.5	60.7	83.4
75°	0.0	0.0	7.6	15.2	22.8	37.9	37.9	37.9	45.5	53.1
77.5°	0.0	0.0	7.6	15.2	22.8	37.9	30.3	37.9	37.9	37.9
80°	0.0	0.0	7.6	15.2	22.8	37.9	45.5	37.9	30.3	30.3
82.5°	0.0	0.0	7.6	22.8	22.8	53.1	53.1	53.1	22.8	22.8
85°	0.0	0.0	15.2	22.8	37.9	60.7	60.7	45.5	22.8	15.2
87.5°	0.0	0.0	7.6	15.2	15.2	30.3	45.5	37.9	15.2	7.6
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°
70554.2	0°	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2	70554.2
69894.2	2.5°	70455.5	70265.9	70622.4	70667.9	70516.2	70326.6	69886.6	69848.7	69082.5
68346.7	5°	69120.5	68809.5	69037.0	69188.7	69135.6	68930.8	68748.8	68581.9	67891.6
65835.9	7.5°	66632.4	66518.6	66624.8	66738.6	66958.6	66738.6	66662.7	66488.2	65805.5
63363.0	10°	63871.2	63658.8	64060.8	64007.7	63947.0	63886.4	63567.8	63598.1	62794.0
59994.9	12.5°	60480.4	60123.9	60510.7	60556.3	60510.7	60298.3	59941.8	60093.5	59357.7
55443.5	15°	55921.4	55883.5	56164.2	56346.2	56475.2	56247.6	56126.2	56202.1	55762.1
49587.4	17.5°	50323.2	50816.3	51734.1	52045.2	52052.7	52287.9	52219.6	52128.6	51802.4
43101.7	20°	43738.9	44687.1	46098.0	47546.9	47964.1	47766.9	47675.8	47842.7	47357.2
37010.4	22.5°	37662.8	38474.4	40112.9	42229.3	43450.6	43572.0	43549.2	43405.1	43215.5
32132.8	25°	32504.5	33225.2	34795.4	36729.7	39073.7	39422.6	39437.8	39392.3	39225.4
27710.4	27.5°	28150.4	29022.7	29887.5	31617.0	34112.7	35554.0	35371.9	35318.8	35258.1
23978.2	30°	24205.8	25305.7	26117.4	27194.6	29432.3	31381.8	31571.5	31480.5	31336.3
20890.9	32.5°	21080.5	21732.9	22764.5	23492.8	25100.9	27308.3	28036.6	27968.3	27839.3
18107.0	35°	18364.9	18622.8	19434.4	20246.1	21315.7	23454.8	24532.0	24380.3	24357.5
14754.1	37.5°	15125.8	15990.6	16438.1	17257.4	18008.3	19669.6	21156.4	21088.1	21095.7
11864.0	40°	12212.9	12713.6	13601.1	14291.4	14981.7	16195.4	17849.0	17894.6	17879.4
9186.2	42.5°	9375.9	9861.3	10794.4	11545.4	12159.8	12910.8	14488.6	14541.7	14610.0
7153.3	45°	7320.2	7631.2	8313.9	9095.2	9747.6	10202.7	11401.2	11742.6	11750.2
5545.1	47.5°	5681.7	6038.2	6523.7	7274.6	7911.8	8238.0	9110.4	9573.1	9550.3
4255.6	50°	4460.4	4786.5	5181.0	5772.7	6463.0	6720.9	7365.7	7820.8	7798.1
3208.7	52.5°	3413.5	3830.8	4179.7	4634.8	5310.0	5529.9	5992.7	6516.1	6440.2
2351.6	55°	2586.7	3011.5	3337.7	3717.0	4331.4	4612.1	4930.7	5347.9	5363.1
1820.6	57.5°	1949.5	2389.5	2685.3	3072.2	3534.9	3845.9	4088.7	4536.2	4528.6
1244.0	60°	1395.8	1775.0	2131.6	2533.6	2890.1	3246.7	3413.5	3838.3	3853.5
879.9	62.5°	1008.9	1365.4	1706.8	2055.7	2374.3	2723.2	2875.0	3208.7	3254.2
576.5	65°	705.5	955.8	1350.2	1615.7	1972.3	2230.2	2427.4	2715.7	2768.8
341.4	67.5°	455.1	690.3	1069.6	1304.7	1630.9	1850.9	2055.7	2283.3	2351.6
220.0	70°	273.1	523.4	796.5	1046.8	1342.7	1539.9	1737.1	1934.3	1972.3
106.2	72.5°	174.5	364.1	576.5	849.6	1077.2	1289.6	1464.0	1608.2	1494.4
68.3	75°	98.6	250.3	455.1	667.5	872.3	1077.2	1221.3	1297.1	1039.2
45.5	77.5°	60.7	182.1	371.7	538.6	675.1	864.8	955.8	1001.3	743.4
30.3	80°	37.9	136.5	311.0	440.0	440.0	637.2	743.4	781.3	538.6
22.8	82.5°	30.3	98.6	242.7	333.8	295.8	477.9	584.1	591.7	379.3
15.2	85°	22.8	75.9	151.7	220.0	204.8	333.8	341.4	379.3	250.3
15.2	87.5°	15.2	45.5	91.0	129.0	113.8	159.3	182.1	204.8	136.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
70554.2
68483.3
67337.8
65661.4
62520.9
59145.3
55231.1
51316.9
47008.3
42851.3
38664.1
34901.6
31154.3
27498.0
24107.2
20853.0
17613.9
14382.4
11552.9
9466.9
7798.1
6447.8
5363.1
4513.5
3815.6
3239.1
2753.6
2344.0
1941.9
1388.2
986.1
697.9
500.7
348.9
227.6
121.4
0.0

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