

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: P638729

Luminaire Tested: **EPH-VN-07-E-730-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-730-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43345 lumens
Efficiency: N/A
Efficacy: 81.4 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): 532.7
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



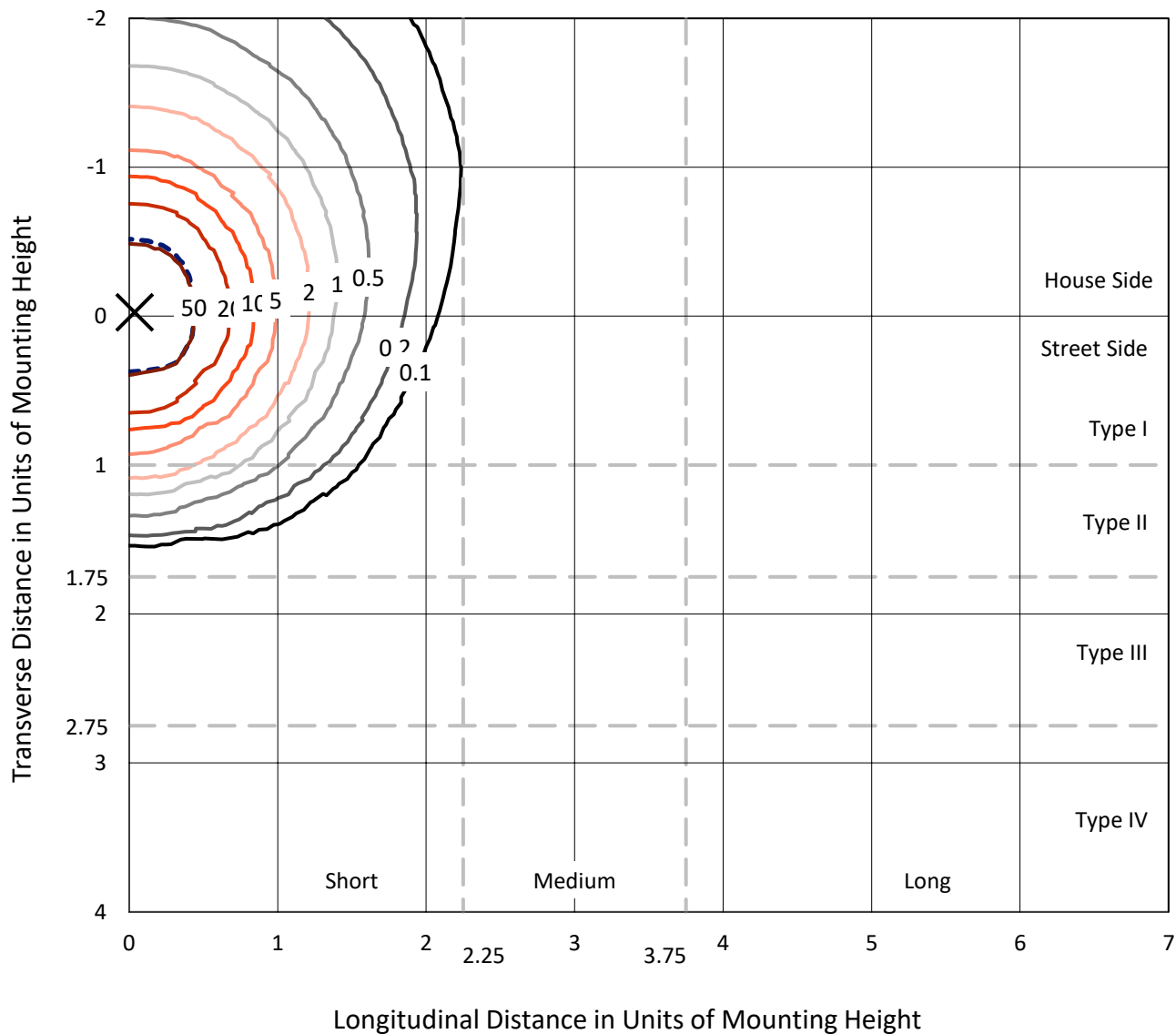
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

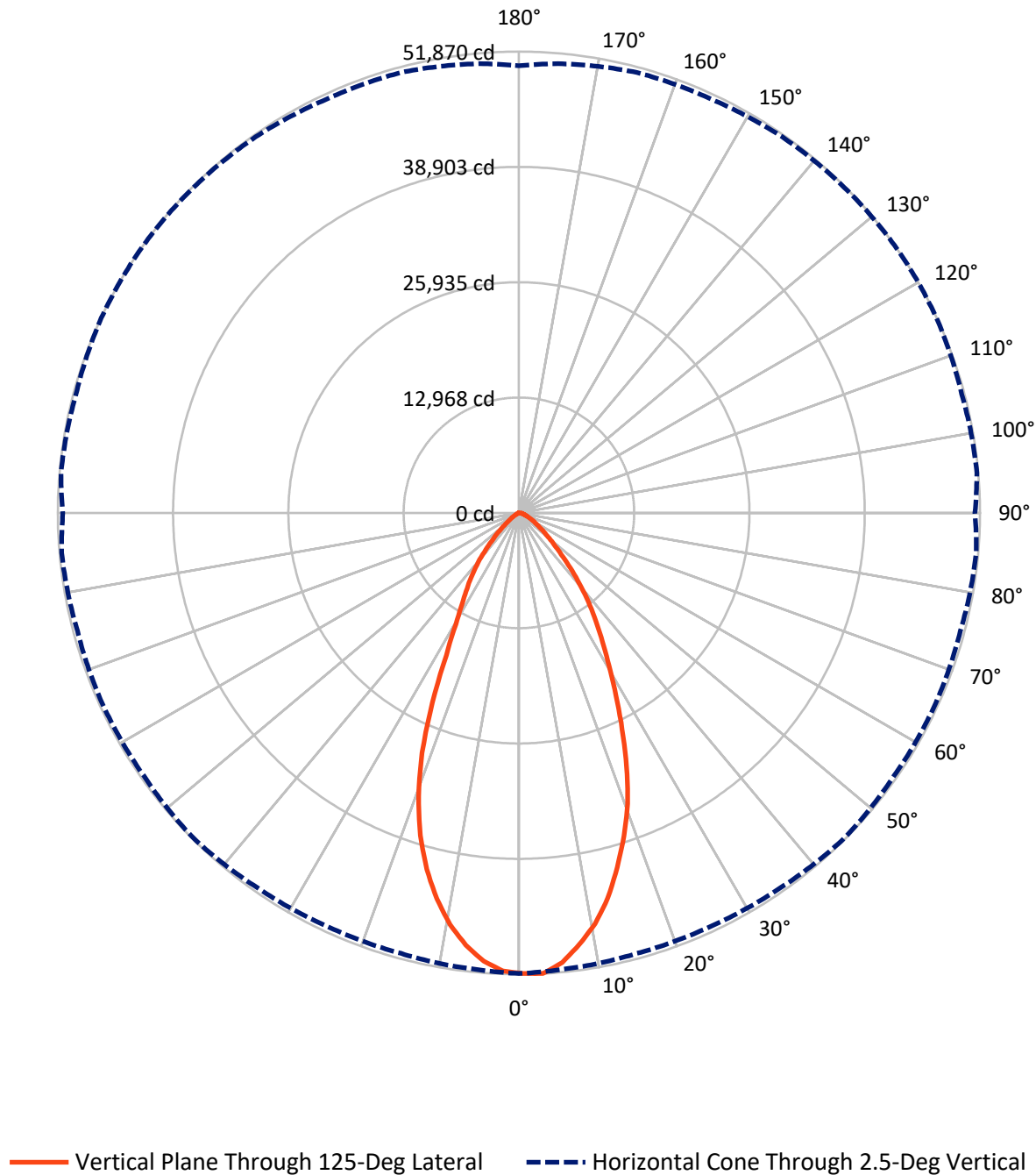


Based on 20 foot mounting height. Maximum calculated value = 129.5 fc

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	24595.7	0.0	24595.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	18749.3	0.0	18749.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	43345.0	0.0	43345.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4702.4	10.8
10°-20°	11209.6	25.9
20°-30°	11416.7	26.3
30°-40°	8513.4	19.6
40°-50°	4447.6	10.3
50°-60°	1870.7	4.3
60°-70°	764.0	1.8
70°-80°	321.5	0.7
80°-90°	99.1	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°	43345.0	100.0
0°-180°	43345.0	100.0



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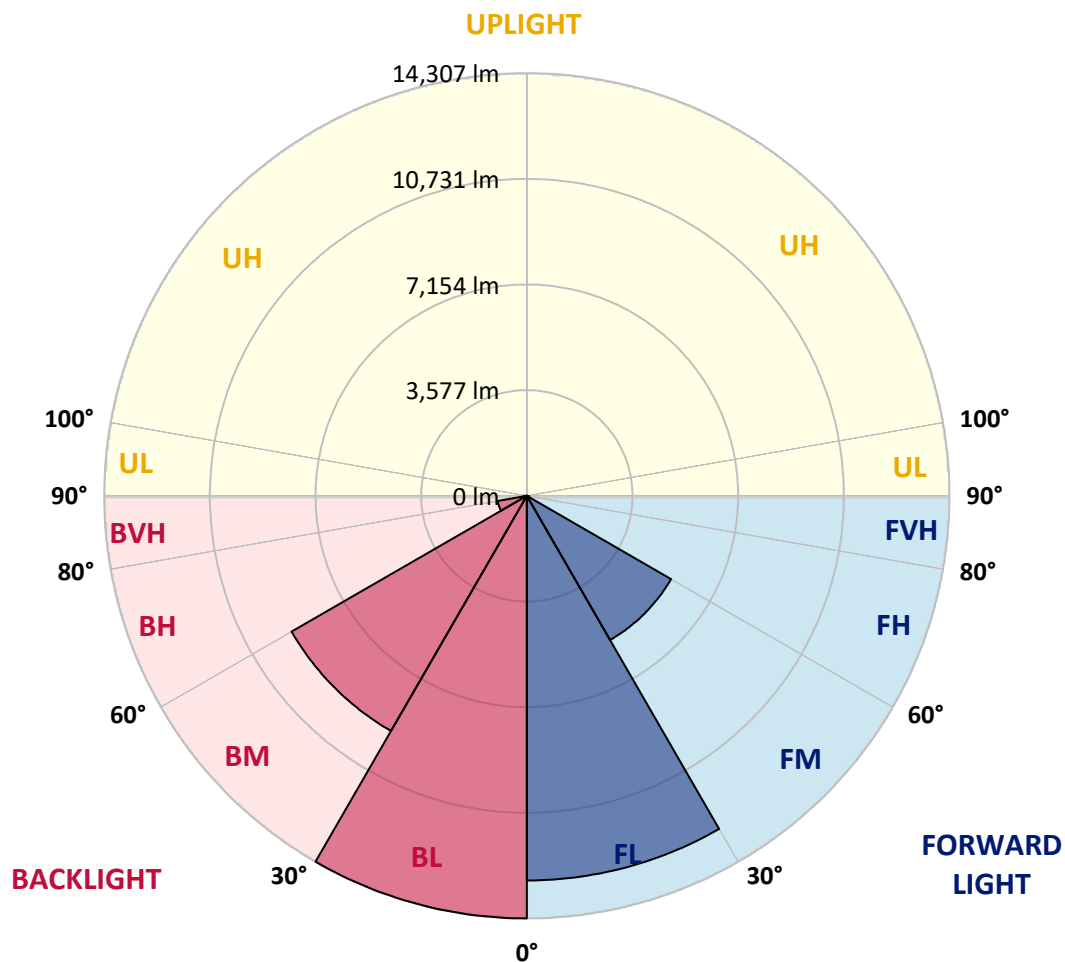
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13021.4	30.0			
FM	(30°-60°)	5637.2	13.0			
FH	(60°-80°)	81.6	0.2			G0/660
FVH	(80°-90°)	9.2	0.0			G0/10
BL	(0°-30°)	14307.3	33.0	B5		
BM	(30°-60°)	9194.5	21.2	B5		
BH	(60°-80°)	1003.9	2.3	B3/2500		G3/2500
BVH	(80°-90°)	89.9	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-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8
2.5°	51792.4	51580.8	51280.2	51252.3	51408.2	51747.9	51530.7	51541.9	51408.2	51636.5
5°	50979.5	50779.1	50573.1	50300.2	50528.5	50673.3	50561.9	50439.4	50266.8	50489.5
7.5°	49442.8	49331.4	49025.2	48902.7	49041.9	49203.4	48963.9	48930.5	48691.1	48980.6
10°	47093.1	47048.6	46747.9	46675.5	46798.0	47043.0	46937.2	46915.0	46764.6	46736.8
12.5°	44654.4	44481.8	44108.7	44086.5	44270.2	44637.7	44353.7	44080.9	44164.4	44236.8
15°	38373.8	38190.1	39114.4	40567.6	41330.4	41302.5	41386.0	41057.5	40957.3	40990.7
17.5°	30506.4	30194.6	30528.7	32778.1	36402.8	38507.5	37928.4	37221.3	36842.7	36592.1
20°	26330.5	26347.2	26286.0	26865.0	29125.6	33925.1	33785.9	32421.8	31926.2	31720.2
22.5°	23791.5	23696.9	23563.3	23747.0	24353.9	27171.3	29058.8	27806.0	27633.4	27405.1
25°	21302.7	21302.7	21141.2	21325.0	21497.6	21536.6	23429.6	23941.9	23607.8	23607.8
27.5°	19147.9	19036.6	18964.2	19047.7	18819.4	17722.6	17962.0	20584.5	20356.2	20217.0
30°	17009.9	16976.5	16854.0	16965.3	16119.0	14882.9	14381.8	17371.8	17611.2	17561.1
32.5°	14042.2	14175.8	14721.5	14894.1	13446.4	12449.8	11970.9	14420.8	15378.5	15339.5
35°	9543.3	9654.7	10278.3	12338.4	11146.9	10434.2	10295.0	11469.8	13045.5	13195.9
37.5°	7600.2	7583.5	7761.6	8129.1	8958.7	8786.1	8747.1	9053.4	10640.2	10707.0
40°	6263.9	6241.6	6236.0	5935.4	5729.3	7305.1	7199.3	7015.5	8390.8	8524.4
42.5°	5050.1	5072.3	5089.0	4432.0	4131.4	5634.7	5573.4	5384.1	6581.2	6737.1
45°	3964.3	3958.8	3992.2	3301.8	3218.2	3602.4	4164.8	4014.4	4966.5	5133.6
47.5°	2054.5	2126.9	2577.9	2555.7	2594.6	2555.7	3151.4	3112.4	3736.0	4003.3
50°	1380.8	1403.1	1442.1	1447.6	2043.4	1881.9	2138.1	2422.0	2616.9	3028.9
52.5°	1069.0	1085.7	985.5	924.3	1252.8	1392.0	1403.1	1675.9	1826.3	2243.9
55°	595.8	668.1	718.3	723.8	690.4	1030.1	1024.5	1241.6	1358.6	1637.0
57.5°	78.0	94.7	144.8	467.7	462.1	573.5	718.3	902.0	968.8	1197.1
60°	5.6	11.1	16.7	72.4	306.2	334.1	490.0	562.4	673.7	840.7
62.5°	0.0	0.0	5.6	16.7	61.2	194.9	256.1	295.1	395.3	551.2
65°	0.0	0.0	5.6	11.1	22.3	72.4	100.2	161.5	233.9	339.6
67.5°	0.0	0.0	5.6	11.1	16.7	27.8	44.5	72.4	122.5	206.0
70°	0.0	0.0	5.6	11.1	16.7	22.3	33.4	44.5	66.8	111.4
72.5°	0.0	0.0	5.6	5.6	11.1	27.8	27.8	33.4	44.5	61.2
75°	0.0	0.0	5.6	11.1	16.7	27.8	27.8	27.8	33.4	39.0
77.5°	0.0	0.0	5.6	11.1	16.7	27.8	22.3	27.8	27.8	27.8
80°	0.0	0.0	5.6	11.1	16.7	27.8	33.4	27.8	22.3	22.3
82.5°	0.0	0.0	5.6	16.7	16.7	39.0	39.0	39.0	16.7	16.7
85°	0.0	0.0	11.1	16.7	27.8	44.5	44.5	33.4	16.7	11.1
87.5°	0.0	0.0	5.6	11.1	11.1	22.3	33.4	27.8	11.1	5.6
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°
51786.8	0°	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8	51786.8
51302.4	2.5°	51714.5	51575.3	51837.0	51870.4	51759.0	51619.8	51296.9	51269.0	50706.7
50166.6	5°	50734.5	50506.2	50673.3	50784.6	50745.7	50595.3	50461.7	50339.2	49832.5
48323.6	7.5°	48908.3	48824.7	48902.7	48986.2	49147.7	48986.2	48930.5	48802.5	48301.4
46508.5	10°	46881.5	46725.6	47020.7	46981.8	46937.2	46892.7	46658.8	46681.1	46090.9
44036.4	12.5°	44392.7	44131.0	44415.0	44448.4	44415.0	44259.1	43997.4	44108.7	43568.7
40695.6	15°	41046.4	41018.6	41224.6	41358.2	41452.9	41285.8	41196.7	41252.4	40929.5
36397.2	17.5°	36937.3	37299.2	37972.9	38201.2	38206.8	38379.4	38329.3	38262.5	38023.1
31636.7	20°	32104.4	32800.4	33836.0	34899.5	35205.7	35060.9	34994.1	35116.6	34760.3
27165.7	22.5°	27644.5	28240.3	29442.9	30996.4	31892.8	31981.9	31965.2	31859.4	31720.2
23585.5	25°	23858.4	24387.3	25539.9	26959.7	28680.1	28936.3	28947.4	28914.0	28791.5
20339.5	27.5°	20662.4	21302.7	21937.4	23206.9	25038.8	26096.7	25963.0	25924.0	25879.5
17600.1	30°	17767.1	18574.4	19170.2	19960.8	21603.4	23034.3	23173.5	23106.7	23000.9
15333.9	32.5°	15473.1	15952.0	16709.2	17243.7	18424.1	20044.4	20578.9	20528.8	20434.1
13290.5	35°	13479.8	13669.1	14264.9	14860.7	15645.7	17215.9	18006.5	17895.2	17878.5
10829.5	37.5°	11102.4	11737.1	12065.6	12666.9	13218.1	14437.5	15528.8	15478.7	15484.3
8708.2	40°	8964.3	9331.8	9983.2	10489.9	10996.6	11887.4	13101.2	13134.6	13123.5
6742.7	42.5°	6881.9	7238.2	7923.1	8474.3	8925.3	9476.5	10634.7	10673.6	10723.7
5250.5	45°	5373.0	5601.3	6102.4	6675.9	7154.7	7488.8	8368.5	8619.1	8624.6
4070.1	47.5°	4170.3	4432.0	4788.4	5339.6	5807.3	6046.7	6687.0	7026.7	7010.0
3123.6	50°	3273.9	3513.3	3802.9	4237.2	4743.8	4933.1	5406.4	5740.5	5723.8
2355.2	52.5°	2505.5	2811.8	3067.9	3402.0	3897.5	4059.0	4398.6	4782.8	4727.1
1726.0	55°	1898.6	2210.4	2449.9	2728.3	3179.3	3385.3	3619.1	3925.4	3936.5
1336.3	57.5°	1430.9	1753.9	1971.0	2255.0	2594.6	2822.9	3001.1	3329.6	3324.0
913.1	60°	1024.5	1302.9	1564.6	1859.7	2121.4	2383.1	2505.5	2817.3	2828.5
645.9	62.5°	740.5	1002.2	1252.8	1508.9	1742.7	1998.9	2110.2	2355.2	2388.6
423.2	65°	517.8	701.6	991.1	1186.0	1447.6	1637.0	1781.7	1993.3	2032.3
250.6	67.5°	334.1	506.7	785.1	957.7	1197.1	1358.6	1508.9	1675.9	1726.0
161.5	70°	200.4	384.2	584.6	768.4	985.5	1130.3	1275.0	1419.8	1447.6
78.0	72.5°	128.1	267.3	423.2	623.6	790.6	946.5	1074.6	1180.4	1096.9
50.1	75°	72.4	183.7	334.1	490.0	640.3	790.6	896.4	952.1	762.8
33.4	77.5°	44.5	133.6	272.8	395.3	495.5	634.7	701.6	735.0	545.7
22.3	80°	27.8	100.2	228.3	322.9	322.9	467.7	545.7	573.5	395.3
16.7	82.5°	22.3	72.4	178.2	245.0	217.1	350.8	428.7	434.3	278.4
11.1	85°	16.7	55.7	111.4	161.5	150.3	245.0	250.6	278.4	183.7
11.1	87.5°	11.1	33.4	66.8	94.7	83.5	116.9	133.6	150.3	100.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
51786.8
50266.8
49426.1
48195.6
45890.5
43412.8
40539.7
37666.7
34504.2
31453.0
28379.5
25617.8
22867.3
20183.6
17694.7
15306.1
12928.6
10556.7
8479.9
6948.7
5723.8
4732.7
3936.5
3312.9
2800.6
2377.5
2021.1
1720.5
1425.4
1018.9
723.8
512.2
367.5
256.1
167.0
89.1
0.0

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