

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: P638622

Luminaire Tested: **EPH-VN-08-D-730-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638622
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-730-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48960.8 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

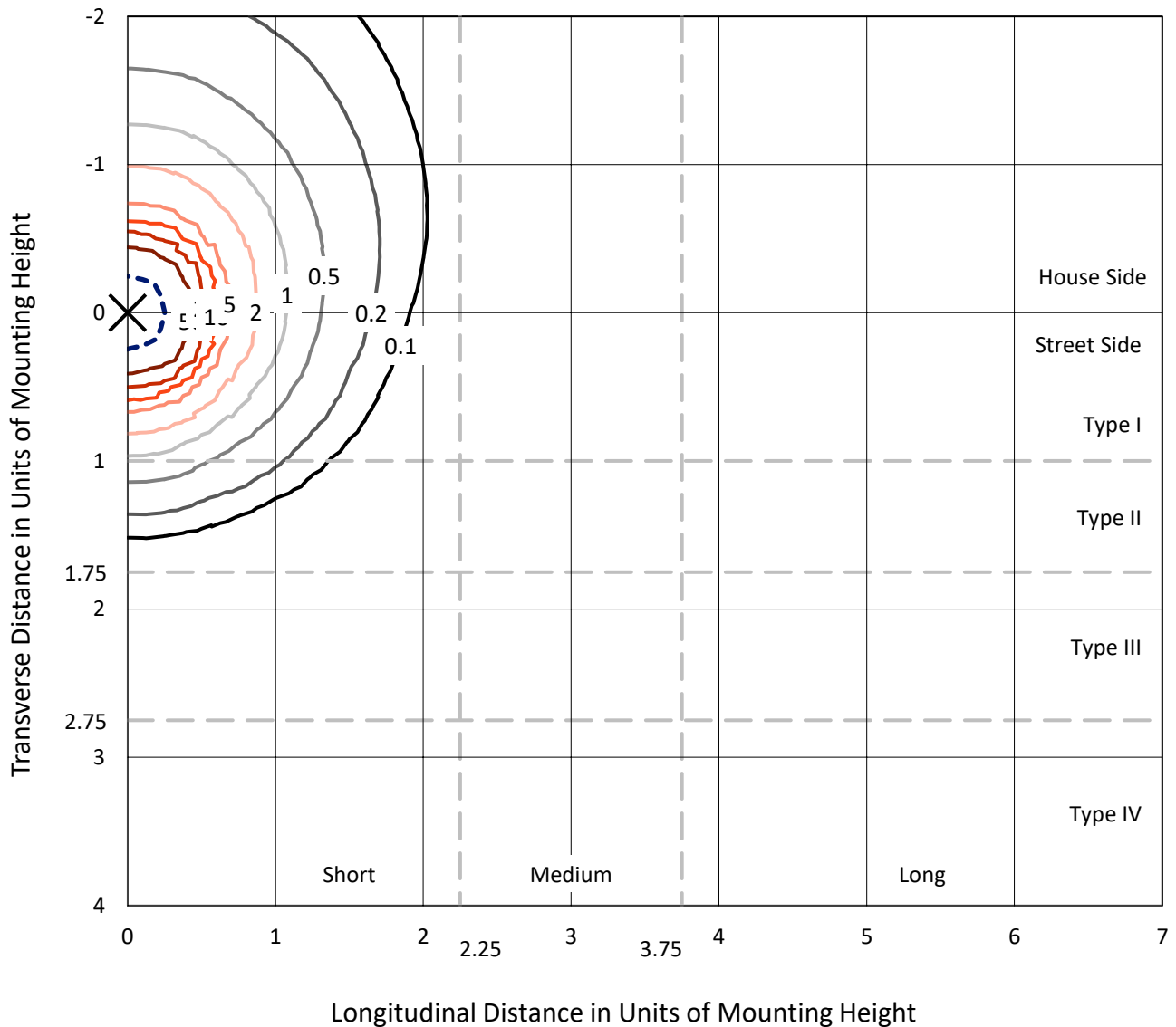
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638622
 CATALOG NUMBER: EPH-VN-08-D-730-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

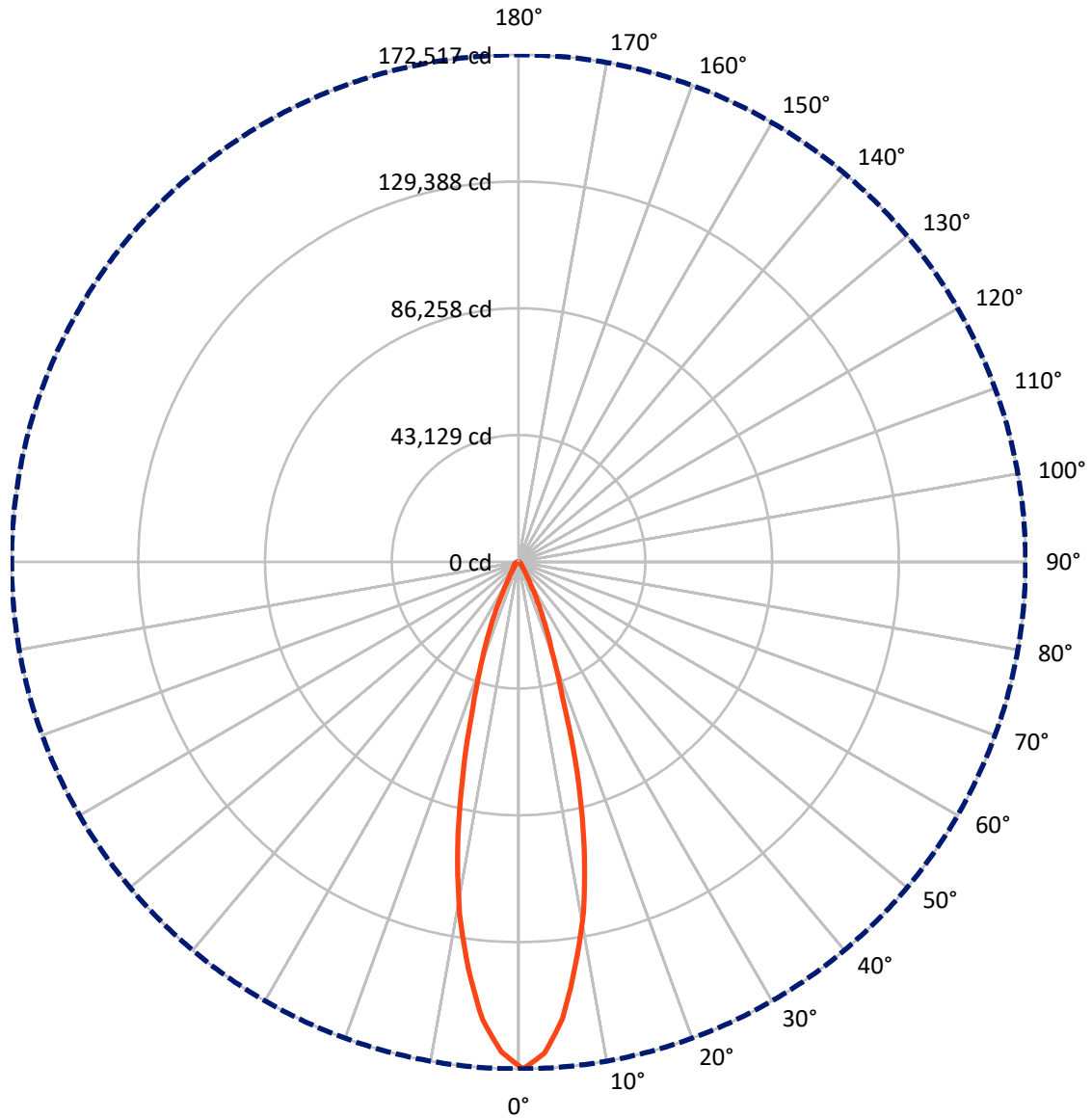
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 431.3 fc
 Type V - Short - N/A

REPORT NUMBER: P638622
CATALOG NUMBER: EPH-VN-08-D-730-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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 CATALOG NUMBER: EPH-VN-08-D-730-U-44-VI

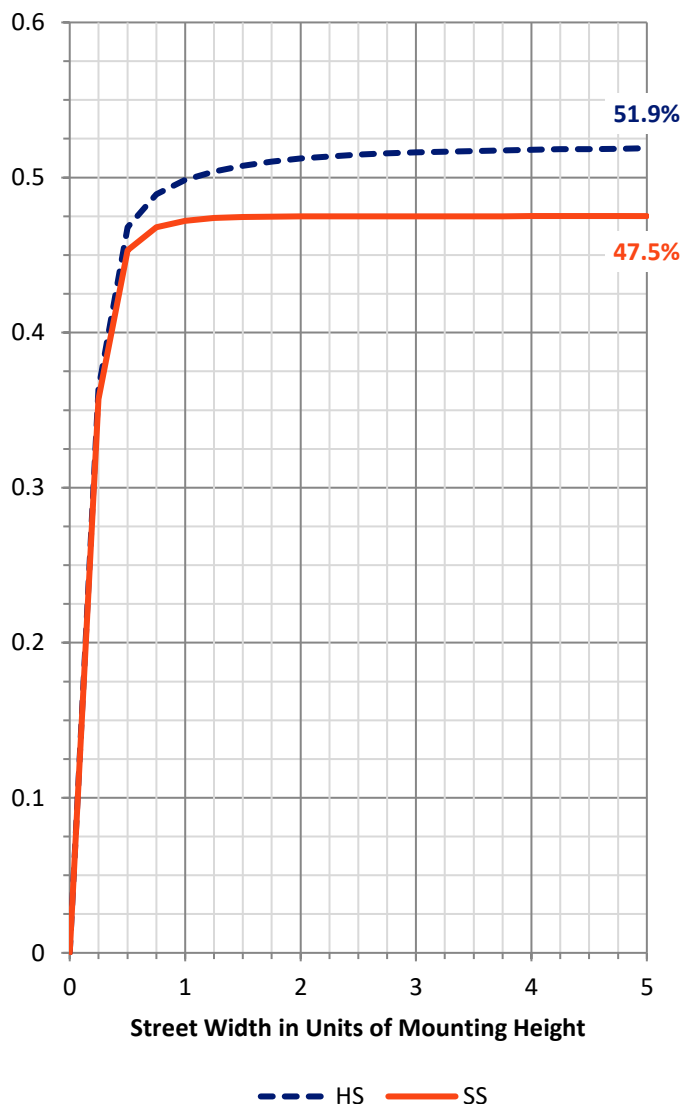
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25815.4	0.0	25815.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	23145.4	0.0	23145.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	48960.8	0.0	48960.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13923.6	28.4
10°-20°	21087.2	43.1
20°-30°	8898.9	18.2
30°-40°	2320.9	4.7
40°-50°	1173.9	2.4
50°-60°	767.3	1.6
60°-70°	459.7	0.9
70°-80°	241.8	0.5
80°-90°	87.4	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°	48960.8	100.0
0°-180°	48960.8	100.0

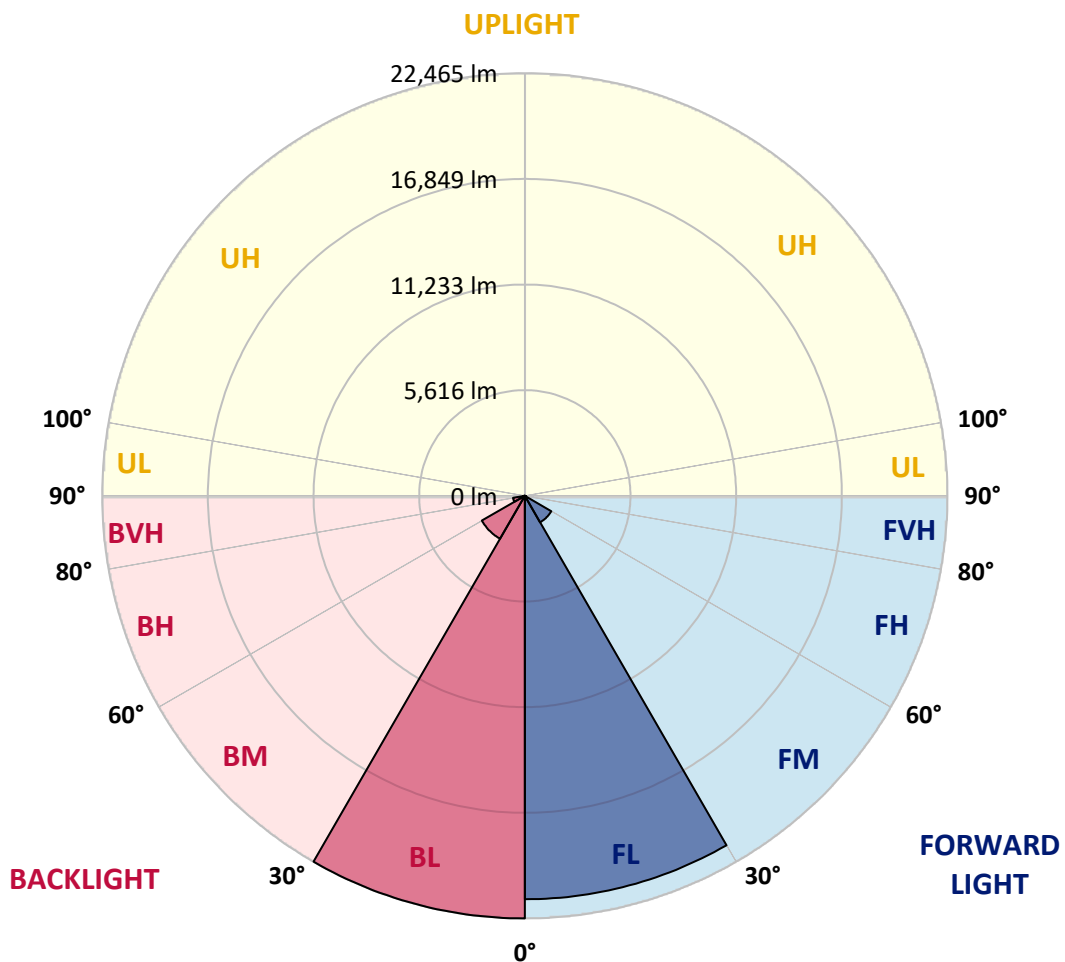


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21444.5	43.8			
FM (30°-60°)	1624.0	3.3			
FH (60°-80°)	66.2	0.1			G0/660
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	22465.3	45.9	B5		
BM (30°-60°)	2638.1	5.4	B3/5000		
BH (60°-80°)	635.4	1.3	B2/1000		G0/660
BVH (80°-90°)	76.7	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-G1
 Type V Short





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 CATALOG NUMBER: EPH-VN-08-D-730-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8
2.5°	167491.3	167584.8	167238.4	167986.1	167403.3	168964.9	168189.6	169399.2	168992.3	169668.6
5°	156054.7	155900.7	155801.8	156961.9	156626.5	158303.5	157231.3	156879.4	157968.1	157770.2
7.5°	138784.3	139191.2	138960.3	139262.7	139433.1	141346.5	141951.4	141478.5	141495.0	141769.9
10°	121079.6	120480.2	119628.0	120194.3	121393.0	122228.7	121893.3	122586.1	122432.2	123086.5
12.5°	99295.0	99767.9	99289.5	98783.7	100878.6	100647.6	101230.5	101609.8	100658.6	102775.5
15°	74794.3	75041.7	75624.6	75586.1	77197.1	77521.5	77444.5	77845.9	77103.6	77455.5
17.5°	48050.2	48886.0	50453.0	53103.2	56083.4	56429.8	56341.8	56011.9	55654.5	55258.6
20°	32275.4	32187.4	32753.8	33529.0	39698.2	41331.2	41281.7	40248.1	38752.5	38466.6
22.5°	22609.3	22774.2	22697.3	23467.0	24742.7	29245.8	28690.5	27640.3	27150.9	26832.0
25°	14873.1	14812.6	15197.5	15428.4	16522.6	17072.4	19018.9	18628.5	17875.2	17957.7
27.5°	9066.8	9143.8	9286.7	9484.7	10260.0	10084.0	11194.7	11343.1	11101.2	10842.8
30°	5564.3	5619.3	5734.8	5877.8	6147.2	5954.7	6262.6	6796.0	6708.0	6526.6
32.5°	3777.4	3782.9	3865.4	3920.3	3887.3	3705.9	3804.9	4310.7	4321.7	4305.2
35°	2716.2	2716.2	2793.2	2837.2	2743.7	2595.2	2611.7	2925.1	3062.6	3090.1
37.5°	1874.9	1880.4	2012.4	2144.4	2039.9	2001.4	1935.4	2144.4	2364.3	2397.3
40°	1424.1	1418.6	1484.6	1583.5	1594.5	1523.0	1545.0	1677.0	1902.4	1929.9
42.5°	1154.7	1160.2	1193.1	1182.1	1187.6	1281.1	1314.1	1374.6	1583.5	1633.0
45°	973.2	978.7	995.2	940.2	918.2	1061.2	1105.2	1138.2	1314.1	1374.6
47.5°	802.8	813.8	830.3	769.8	758.8	852.2	929.2	962.2	1116.2	1182.1
50°	577.3	588.3	648.8	615.8	648.8	670.8	775.3	824.8	929.2	1017.2
52.5°	417.9	428.9	445.4	450.9	533.3	544.3	621.3	698.3	747.8	846.7
55°	329.9	340.9	329.9	318.9	390.4	450.9	478.4	560.8	599.3	714.8
57.5°	186.9	197.9	214.4	247.4	258.4	346.4	373.9	445.4	478.4	588.3
60°	33.0	38.5	60.5	148.5	181.4	219.9	280.4	340.9	384.9	461.9
62.5°	5.5	5.5	11.0	33.0	104.5	154.0	203.4	241.9	280.4	351.9
65°	0.0	0.0	5.5	11.0	27.5	88.0	110.0	143.0	192.4	252.9
67.5°	0.0	0.0	5.5	11.0	16.5	33.0	49.5	88.0	110.0	170.4
70°	0.0	0.0	5.5	11.0	16.5	22.0	27.5	38.5	66.0	104.5
72.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.5	33.0	33.0	66.0
75°	0.0	0.0	5.5	11.0	16.5	27.5	33.0	33.0	27.5	27.5
77.5°	0.0	0.0	5.5	11.0	22.0	33.0	38.5	33.0	22.0	22.0
80°	0.0	0.0	11.0	16.5	27.5	38.5	49.5	38.5	22.0	11.0
82.5°	0.0	0.0	11.0	22.0	27.5	44.0	60.5	49.5	22.0	11.0
85°	0.0	0.0	5.5	16.5	33.0	44.0	60.5	44.0	22.0	5.5
87.5°	0.0	0.0	5.5	5.5	11.0	16.5	33.0	27.5	11.0	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638622
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
172516.8	0°	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8	172516.8
168387.5	2.5°	169355.2	170235.0	170416.4	170174.5	170526.4	169894.1	169410.2	168156.6	167403.3
157709.7	5°	158726.9	158594.9	159513.2	159815.6	159777.1	159293.2	158616.9	157858.1	157121.4
141236.6	7.5°	142116.3	142286.8	143122.5	143655.9	143386.4	142781.6	142314.3	141742.4	141247.6
123322.9	10°	124450.1	123278.9	124318.1	124318.1	125038.4	123328.4	123487.8	122047.3	122113.3
102737.0	12.5°	103088.9	103512.3	103682.7	104172.1	103330.8	102423.6	101312.9	101093.0	100405.7
76784.7	15°	77889.9	79099.5	78060.3	79836.3	78978.6	78032.8	77862.4	76157.9	76696.7
55693.0	17.5°	55418.1	56754.2	57172.0	58189.2	57408.5	56847.6	56138.3	55621.5	55583.0
38988.9	20°	39296.8	40638.4	40946.3	42167.0	42079.0	41903.1	41303.7	40649.4	39940.1
26540.6	22.5°	26942.0	28036.2	29058.9	30702.9	30675.4	30158.5	30098.1	29174.3	29190.8
17930.2	25°	18117.1	18914.4	19156.3	20838.8	21025.8	20970.8	20657.4	19799.6	20124.0
10952.7	27.5°	10963.7	11662.0	12481.3	13075.1	13636.0	13548.0	13234.6	12756.2	12547.3
6581.5	30°	6757.5	7070.9	7373.3	8088.1	8423.5	8599.4	8451.0	8005.6	8038.6
4332.7	32.5°	4426.2	4690.1	4910.0	5360.9	5536.9	5861.3	5800.8	5707.3	5597.3
3117.6	35°	3227.5	3420.0	3568.4	3777.4	4002.8	4277.7	4321.7	4283.2	4239.2
2408.3	37.5°	2463.3	2661.2	2831.7	2919.6	3095.6	3310.0	3431.0	3425.5	3392.5
1962.9	40°	2001.4	2149.9	2303.8	2419.3	2540.2	2699.7	2848.2	2864.6	2864.6
1649.5	42.5°	1671.5	1798.0	1951.9	2072.9	2160.9	2309.3	2463.3	2474.3	2463.3
1396.6	45°	1429.6	1539.5	1688.0	1831.0	1902.4	2012.4	2160.9	2193.8	2171.9
1198.6	47.5°	1242.6	1341.6	1468.1	1622.0	1699.0	1798.0	1935.4	1973.9	1968.4
1033.7	50°	1066.7	1182.1	1308.6	1435.1	1534.0	1627.5	1759.5	1803.5	1787.0
879.7	52.5°	940.2	1044.7	1154.7	1292.1	1407.6	1490.1	1594.5	1671.5	1649.5
742.3	55°	786.3	912.7	1028.2	1143.7	1286.6	1374.6	1473.6	1567.0	1545.0
626.8	57.5°	681.8	786.3	918.2	1022.7	1165.7	1270.1	1369.1	1468.1	1462.6
511.3	60°	571.8	681.8	808.3	918.2	1050.2	1165.7	1264.6	1374.6	1385.6
384.9	62.5°	450.9	582.8	692.8	819.3	951.2	1077.7	1165.7	1275.6	1292.1
291.4	65°	340.9	478.4	599.3	720.3	852.2	989.7	1066.7	1160.2	1176.7
214.4	67.5°	252.9	368.4	511.3	621.3	758.8	890.7	962.2	1039.2	1066.7
132.0	70°	192.4	280.4	428.9	533.3	676.3	780.8	857.7	923.7	945.7
88.0	72.5°	121.0	219.9	346.4	456.4	582.8	676.3	731.3	769.8	802.8
49.5	75°	82.5	170.4	280.4	390.4	483.9	555.3	604.8	637.8	665.3
22.0	77.5°	49.5	132.0	230.9	324.4	384.9	439.9	489.4	511.3	527.8
16.5	80°	27.5	99.0	192.4	263.9	302.4	340.9	379.4	406.9	417.9
11.0	82.5°	16.5	77.0	154.0	203.4	219.9	258.4	296.9	313.4	313.4
5.5	85°	11.0	55.0	104.5	148.5	159.5	186.9	197.9	208.9	219.9
5.5	87.5°	11.0	33.0	66.0	82.5	88.0	99.0	104.5	115.5	126.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
172516.8
166848.0
156296.6
139570.6
121469.9
99778.9
76157.9
54560.3
39632.2
28871.9
19612.7
12365.8
7895.7
5558.9
4222.7
3376.0
2831.7
2452.3
2171.9
1957.4
1776.0
1644.0
1556.0
1468.1
1391.1
1303.1
1193.1
1077.7
956.7
797.3
659.8
522.3
406.9
307.9
214.4
121.0
0.0

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