

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: P638676

Luminaire Tested: **EPH-VN-08-D-730-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638676
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-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47684.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

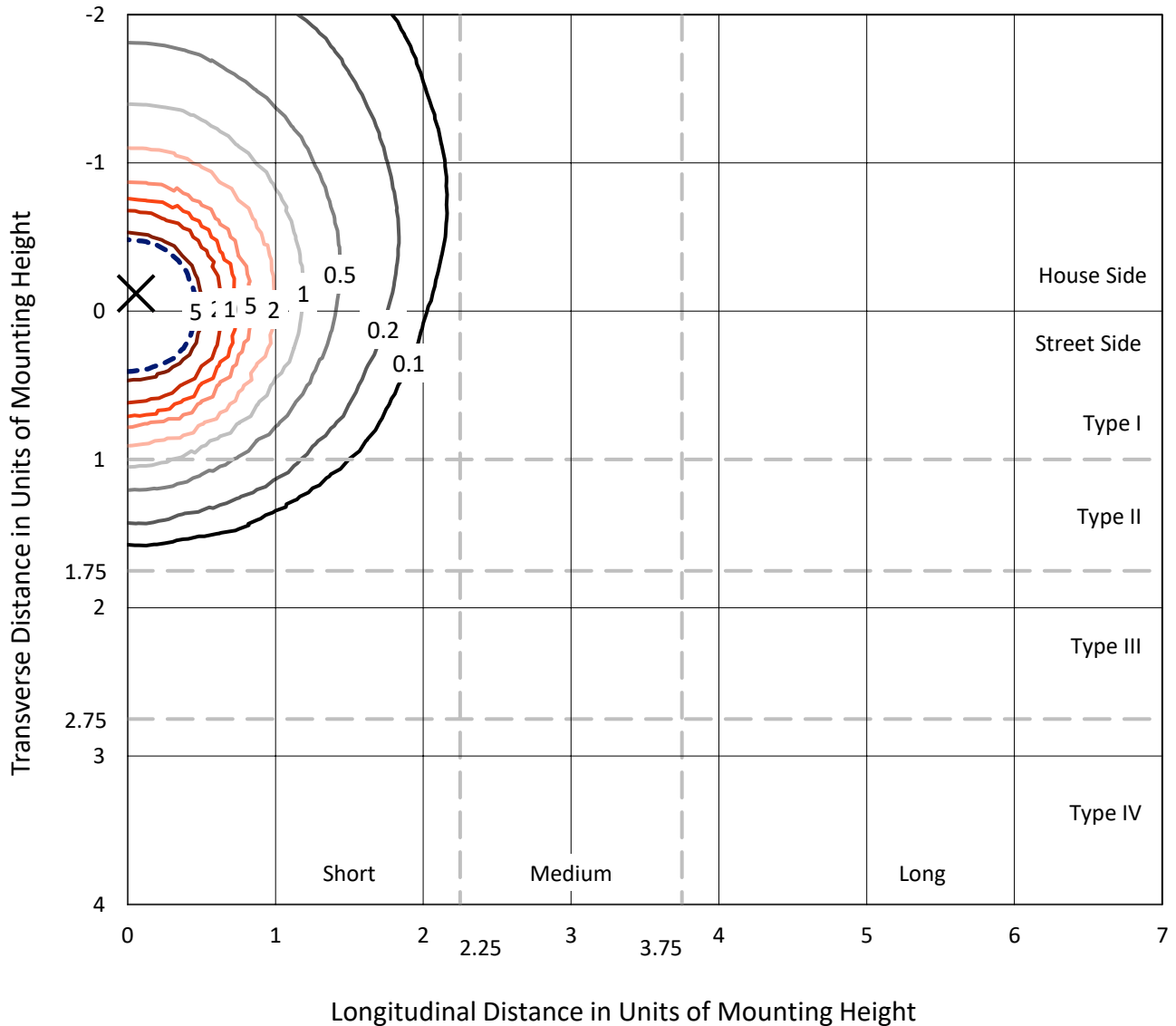
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

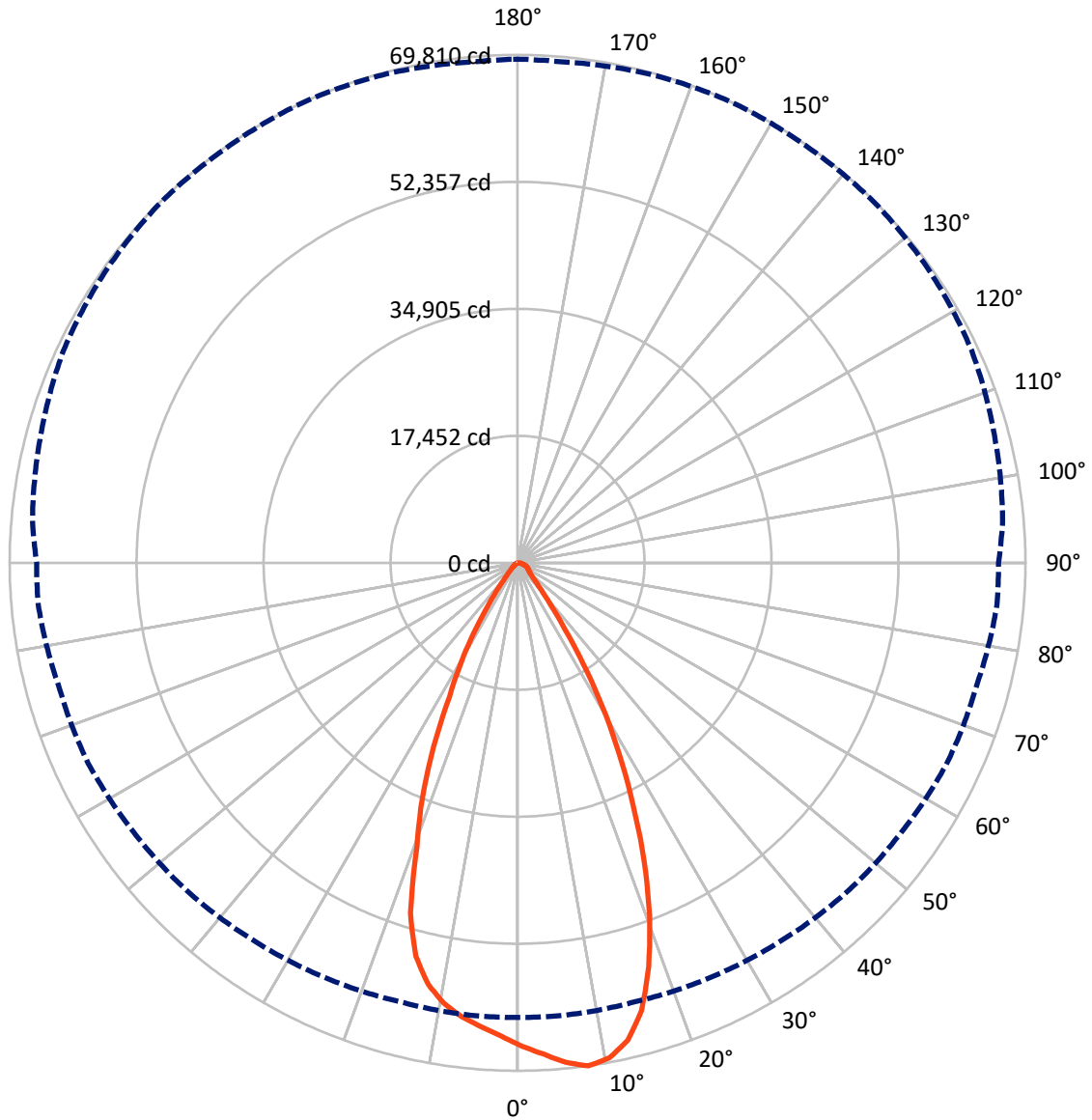
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 168.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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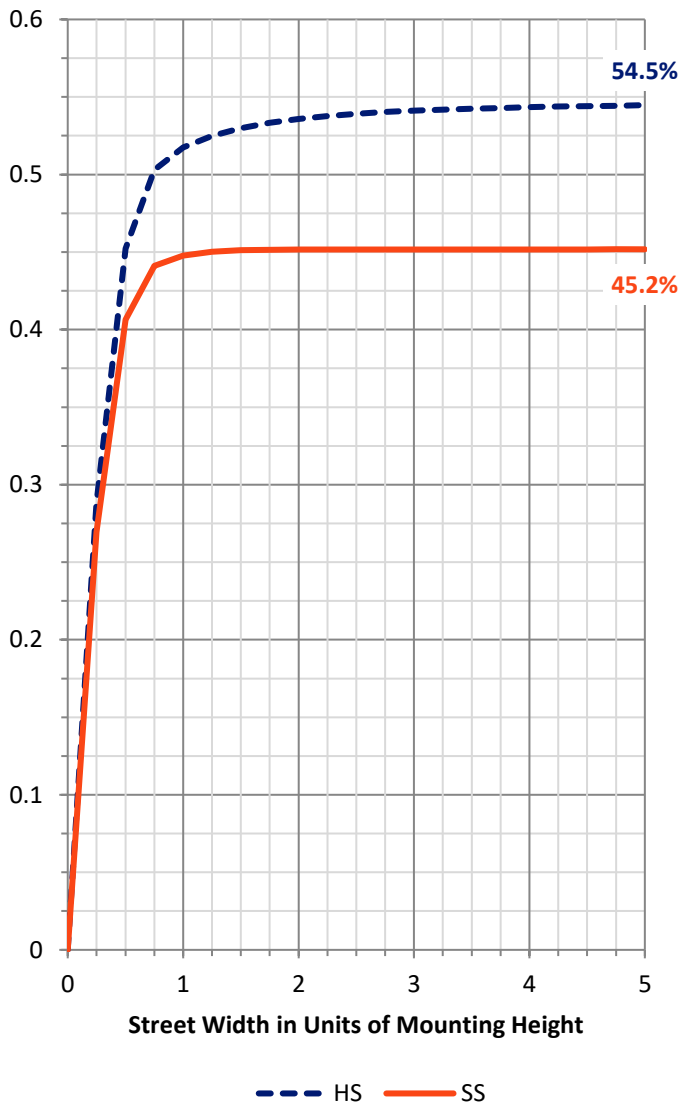
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26323.6	0.0	26323.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	21360.9	0.0	21360.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	47684.6	0.0	47684.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6334.4	13.3
10°-20°	16425.0	34.4
20°-30°	15049.9	31.6
30°-40°	6080.2	12.8
40°-50°	1783.6	3.7
50°-60°	997.3	2.1
60°-70°	605.7	1.3
70°-80°	307.8	0.6
80°-90°	100.7	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°	47684.6	100.0
0°-180°	47684.6	100.0

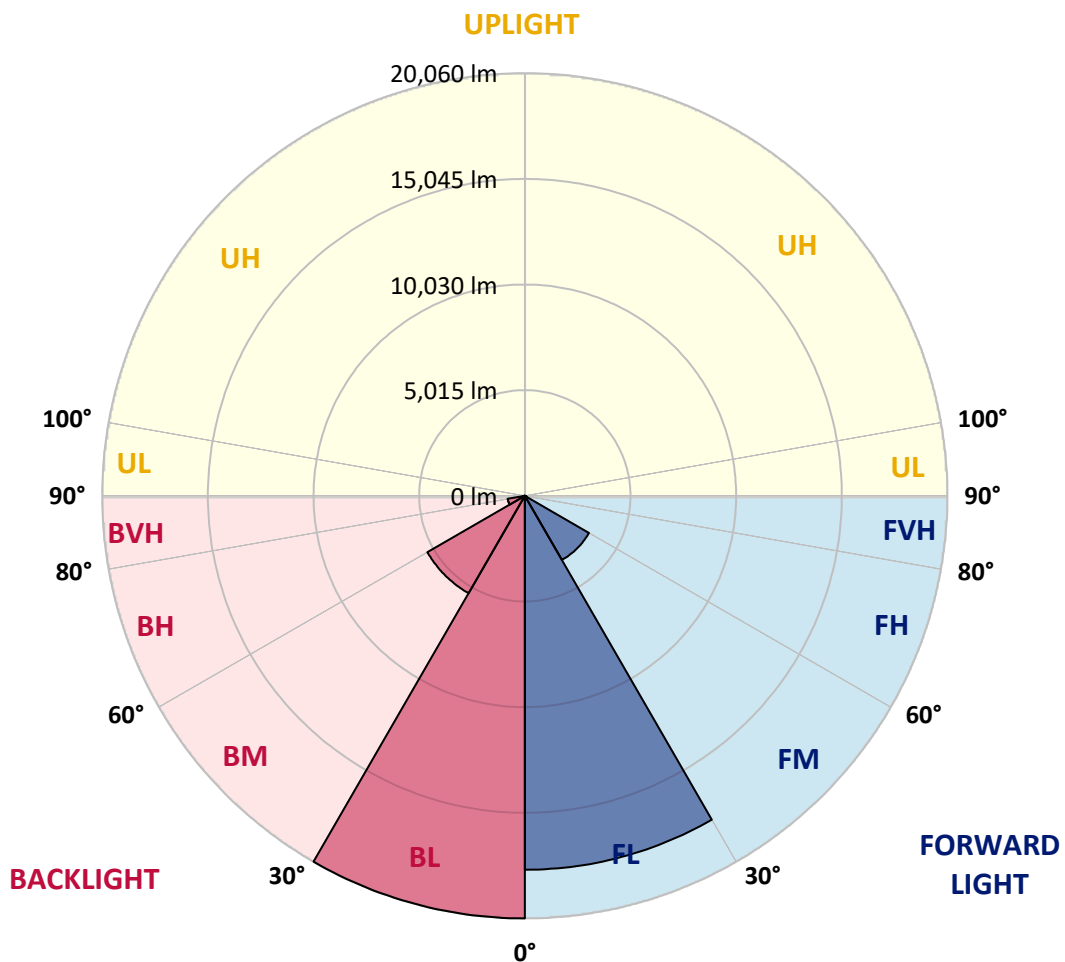


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17749.4	37.2			
FM (30°-60°)	3517.6	7.4			
FH (60°-80°)	85.2	0.2			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	20059.9	42.1	B5		
BM (30°-60°)	5343.5	11.2	B4/8500		
BH (60°-80°)	828.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	91.9	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-G2
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3
2.5°	64987.7	65207.6	64767.7	65059.1	65284.6	65823.4	65867.4	66054.4	66120.4	66609.7
5°	63756.0	63926.4	63569.0	63959.4	64278.3	64756.7	65125.1	65642.0	65927.9	66505.3
7.5°	62474.8	62513.3	62441.8	62854.2	63332.6	63992.4	64448.8	65125.1	65301.1	66125.9
10°	60924.2	60643.8	60781.2	61386.1	62100.9	63112.6	63426.1	64102.4	64415.8	65257.1
12.5°	58449.8	58592.8	58422.4	59192.2	59786.0	60935.2	61265.1	61946.9	62546.3	63288.6
15°	54963.8	54881.3	55227.7	55827.0	56470.4	57383.1	57916.5	58658.8	59115.2	59885.0
17.5°	47128.3	47408.7	48838.3	50339.4	51659.1	52725.8	53363.7	53979.5	54309.4	55145.2
20°	40700.4	40348.5	40541.0	41387.8	45143.3	46776.4	47447.2	47595.7	47733.1	48393.0
22.5°	33513.8	33398.3	34041.7	34992.9	35883.7	39650.2	40563.0	40216.6	40502.5	41123.8
25°	24886.5	25469.4	26041.2	27866.8	29021.5	30869.0	32601.0	32755.0	32859.5	33249.9
27.5°	20256.7	20053.3	20042.3	20553.7	22258.2	23797.8	25271.4	25612.4	25551.9	25925.8
30°	15923.9	15857.9	15626.9	15747.9	15577.5	16946.6	17639.4	19041.6	18964.6	18975.6
32.5°	11486.5	11239.1	11145.6	11327.1	11151.1	11024.6	11629.5	13213.1	13185.6	13295.6
35°	6950.2	6917.2	6994.2	7153.6	6801.7	6790.7	6917.2	8407.3	8588.8	8764.7
37.5°	3838.0	3805.0	3865.5	4453.8	4338.4	4233.9	4266.9	5053.2	5575.6	5707.5
40°	2529.3	2523.8	2567.8	2672.3	2870.3	2831.8	2848.3	3200.2	3695.0	3810.5
42.5°	1693.6	1699.1	1726.6	1847.5	1875.0	2073.0	2040.0	2122.4	2584.3	2683.3
45°	1352.6	1347.2	1363.6	1308.7	1341.7	1545.1	1567.1	1572.6	1968.5	2029.0
47.5°	1066.7	1066.7	1083.2	1011.7	995.2	1121.7	1237.2	1253.7	1572.6	1655.1
50°	747.8	747.8	830.3	797.3	835.8	874.3	1000.7	1017.2	1286.7	1374.6
52.5°	549.9	560.9	571.9	577.4	703.8	698.3	808.3	885.3	973.2	1127.2
55°	417.9	428.9	401.4	428.9	522.4	582.8	604.8	714.8	775.3	945.8
57.5°	274.9	302.4	280.4	329.9	351.9	450.9	483.9	588.3	626.8	775.3
60°	38.5	44.0	71.5	230.9	247.4	296.9	373.9	467.4	505.9	632.3
62.5°	5.5	5.5	16.5	38.5	165.0	197.9	280.4	324.4	373.9	472.9
65°	0.0	0.0	5.5	11.0	33.0	115.5	143.0	176.0	258.4	340.9
67.5°	0.0	0.0	5.5	11.0	16.5	38.5	60.5	115.5	148.5	236.4
70°	0.0	0.0	5.5	11.0	16.5	22.0	33.0	44.0	88.0	137.5
72.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.5	33.0	38.5	88.0
75°	0.0	0.0	5.5	11.0	16.5	27.5	33.0	33.0	33.0	38.5
77.5°	0.0	0.0	5.5	11.0	22.0	33.0	38.5	33.0	27.5	27.5
80°	0.0	0.0	5.5	16.5	27.5	38.5	44.0	33.0	22.0	16.5
82.5°	0.0	0.0	5.5	16.5	27.5	38.5	44.0	38.5	22.0	16.5
85°	0.0	0.0	5.5	16.5	22.0	27.5	44.0	38.5	22.0	11.0
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	22.0	16.5	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



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
66428.3	0°	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3	66428.3
66598.7	2.5°	67093.6	67341.0	67775.4	67896.4	68270.3	67841.4	67605.0	67627.0	67115.6
66433.8	5°	67093.6	67660.0	68418.8	68781.7	69056.6	69034.6	68974.1	68820.2	68446.3
66103.9	7.5°	66917.7	67841.4	68886.1	69370.0	69699.9	69672.4	69809.9	69562.5	69106.1
65515.5	10°	66351.3	67154.1	68440.8	68836.7	69370.0	69381.0	69210.6	69260.0	68446.3
63365.6	12.5°	64569.8	65196.6	66323.8	66774.7	67423.5	67528.0	67341.0	67269.6	66499.8
59841.0	15°	61122.2	61485.1	62617.8	63068.6	63712.0	63624.0	63811.0	63734.0	63057.7
55079.2	17.5°	56080.0	56195.4	57383.1	57762.5	58367.4	58603.8	58323.4	58680.8	58097.9
48508.4	20°	48849.3	49470.7	50806.8	51389.7	51741.6	52165.0	51796.6	52198.0	51516.1
40535.5	22.5°	41514.2	41882.6	43092.3	43933.6	44587.9	44670.4	44533.0	44813.4	43895.1
33508.3	25°	33502.8	34113.2	35069.9	36169.6	36813.0	37208.9	36851.4	37032.9	36884.4
25986.3	27.5°	26426.1	26970.5	27690.8	28510.1	29477.9	29994.7	29708.8	30016.7	29290.9
19377.0	30°	19393.5	19668.4	20482.2	21351.0	22412.2	23039.0	23066.5	23379.9	22951.0
13576.0	32.5°	13675.0	13916.9	14417.3	14994.6	16006.4	16704.7	16594.7	16638.7	16374.8
8847.2	35°	8891.2	9215.6	9573.0	9847.9	10458.3	11228.1	11167.6	11112.6	10931.2
5817.5	37.5°	5944.0	6070.4	6268.4	6515.8	6911.7	7395.6	7555.0	7357.1	7280.1
3926.0	40°	4019.5	4239.4	4371.4	4558.3	4745.3	5152.2	5262.1	5223.6	5146.7
2749.3	42.5°	2853.8	3024.2	3189.2	3370.6	3469.6	3722.5	3937.0	3876.5	3843.5
2089.5	45°	2166.4	2320.4	2512.8	2650.3	2749.3	2897.7	3101.2	3123.2	3073.7
1677.1	47.5°	1737.5	1875.0	2029.0	2199.4	2314.9	2408.4	2584.3	2650.3	2617.3
1413.1	50°	1473.6	1578.1	1726.6	1897.0	2023.5	2106.0	2259.9	2331.4	2309.4
1182.2	52.5°	1253.7	1380.1	1517.6	1660.6	1814.5	1897.0	2040.0	2144.4	2127.9
978.7	55°	1039.2	1204.2	1347.2	1490.1	1666.1	1748.5	1875.0	2012.5	1985.0
830.3	57.5°	907.3	1044.7	1193.2	1330.7	1517.6	1627.6	1743.0	1886.0	1880.5
681.8	60°	758.8	896.3	1061.2	1176.7	1374.6	1528.6	1633.1	1781.5	1792.5
516.9	62.5°	604.8	775.3	901.8	1061.2	1242.7	1424.1	1523.1	1671.6	1726.6
395.9	65°	450.9	637.8	780.8	940.3	1110.7	1314.2	1402.1	1550.6	1605.6
285.9	67.5°	335.4	478.4	659.8	797.3	989.7	1165.7	1270.2	1407.6	1446.1
170.5	70°	252.9	368.4	549.9	670.8	868.8	1011.7	1116.2	1220.7	1270.2
115.5	72.5°	148.5	274.9	434.4	577.4	747.8	868.8	945.8	1028.2	1061.2
55.0	75°	104.5	208.9	340.9	478.4	604.8	703.8	775.3	846.8	879.8
27.5	77.5°	55.0	154.0	269.4	384.9	472.9	555.4	626.8	681.8	703.8
22.0	80°	33.0	110.0	219.9	302.4	362.9	434.4	505.9	544.4	538.9
16.5	82.5°	22.0	88.0	159.5	219.9	263.9	318.9	368.4	395.9	395.9
11.0	85°	16.5	60.5	110.0	170.5	176.0	219.9	230.9	258.4	263.9
11.0	87.5°	11.0	38.5	60.5	99.0	93.5	115.5	121.0	137.5	148.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
66428.3
66703.2
68567.2
69210.6
68209.8
66323.8
63272.1
57955.0
51461.2
43768.7
36791.0
29477.9
23028.0
16523.2
10771.7
7263.6
5157.7
3816.0
3068.2
2600.8
2303.9
2117.0
1985.0
1875.0
1792.5
1721.1
1600.1
1446.1
1259.2
1050.2
868.8
698.3
533.4
390.4
258.4
143.0
0.0

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