

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: P638737

Luminaire Tested: **EPH-VN-08-E-735-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638737
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-735-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56940.1 lumens
Efficiency: N/A
Efficacy: 90.8 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 (A_{in}): 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



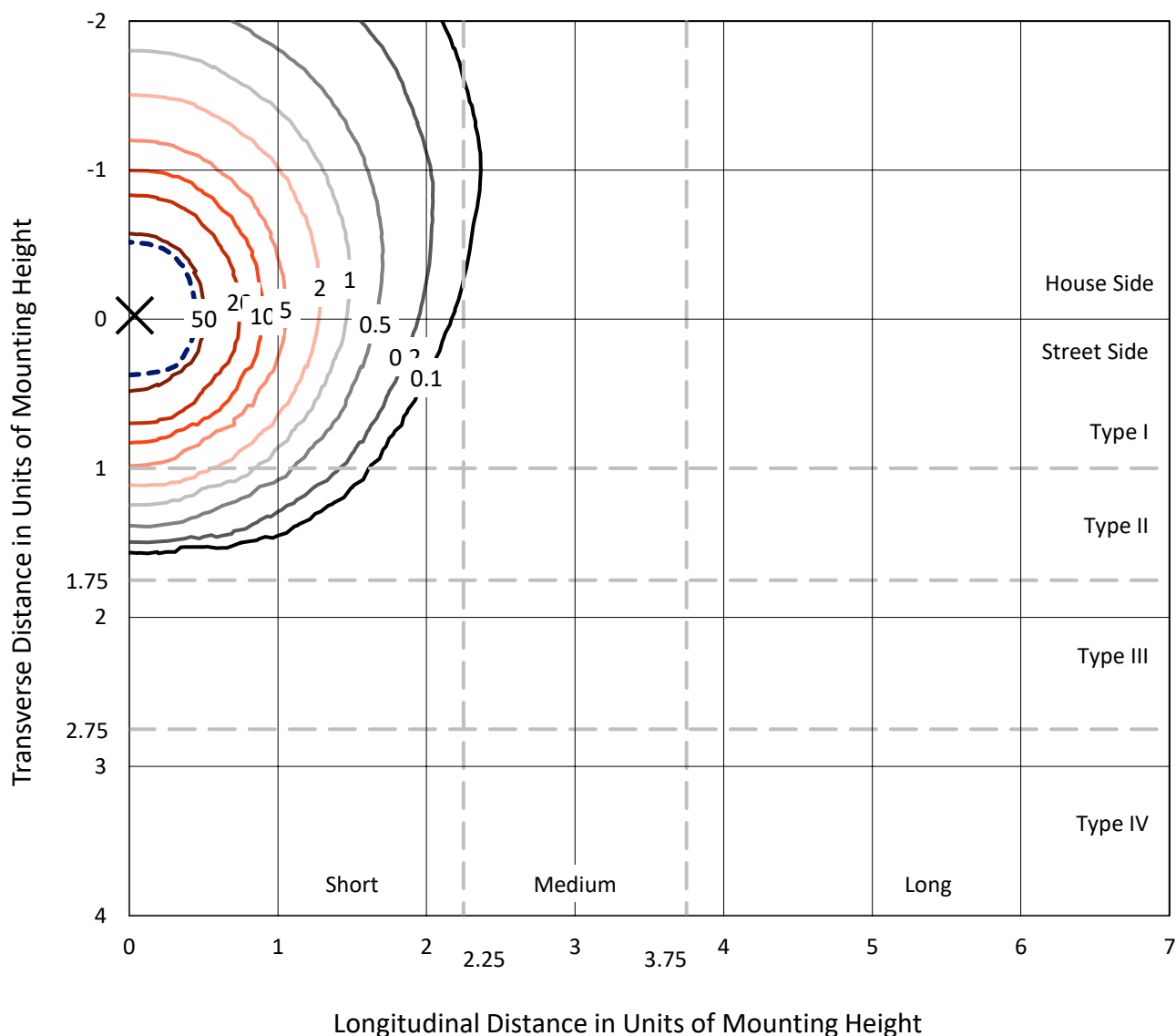
REPORT NUMBER: P638737

CATALOG NUMBER: EPH-VN-08-E-735-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

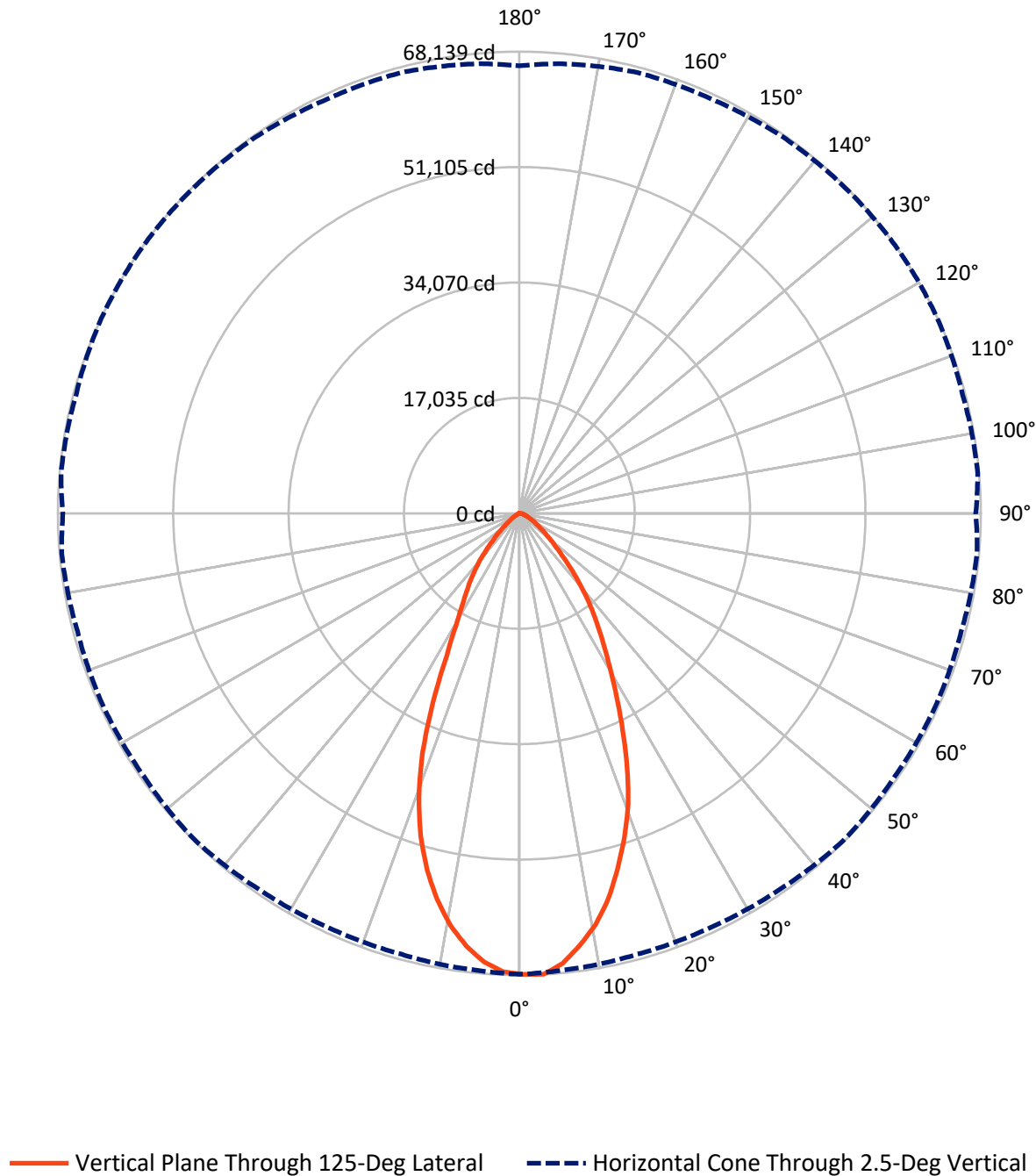


Based on 20 foot mounting height. Maximum calculated value = 170.1 fc

Type I - Short - N/A

REPORT NUMBER: P638737
CATALOG NUMBER: EPH-VN-08-E-735-U-66-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638737

CATALOG NUMBER: EPH-VN-08-E-735-U-66-VI

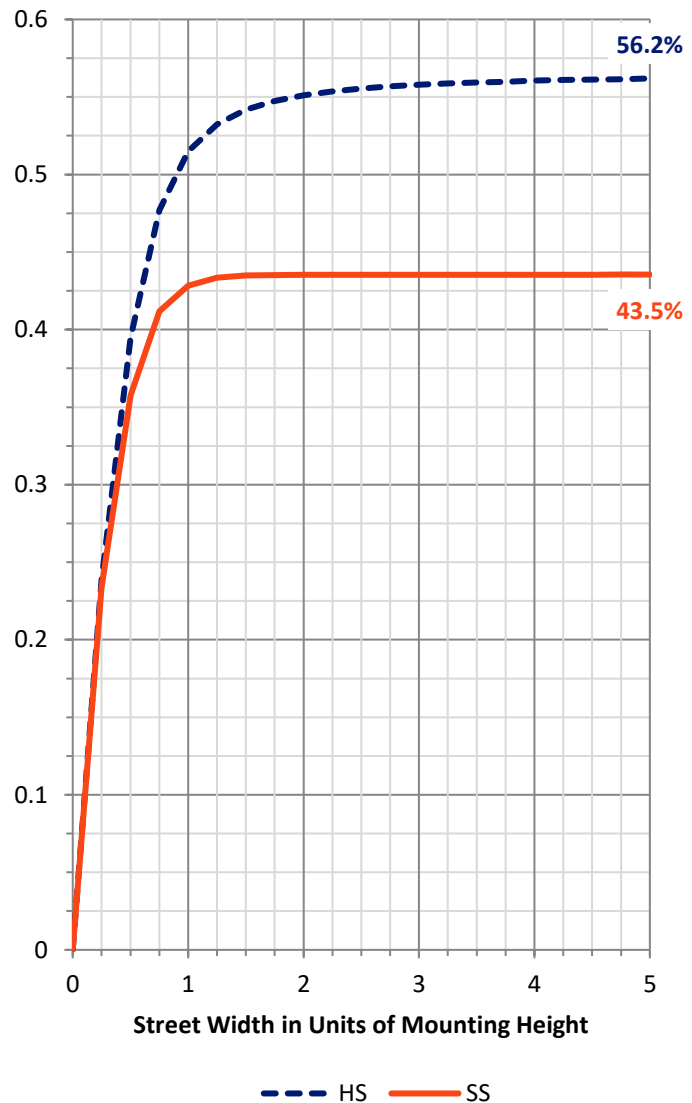
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32310.1	0.0	32310.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	24630.1	0.0	24630.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	56940.1	0.0	56940.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6177.4	10.8
10°-20°	14725.4	25.9
20°-30°	14997.6	26.3
30°-40°	11183.6	19.6
40°-50°	5842.6	10.3
50°-60°	2457.4	4.3
60°-70°	1003.6	1.8
70°-80°	422.4	0.7
80°-90°	130.1	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°	56940.1	100.0
0°-180°	56940.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638737

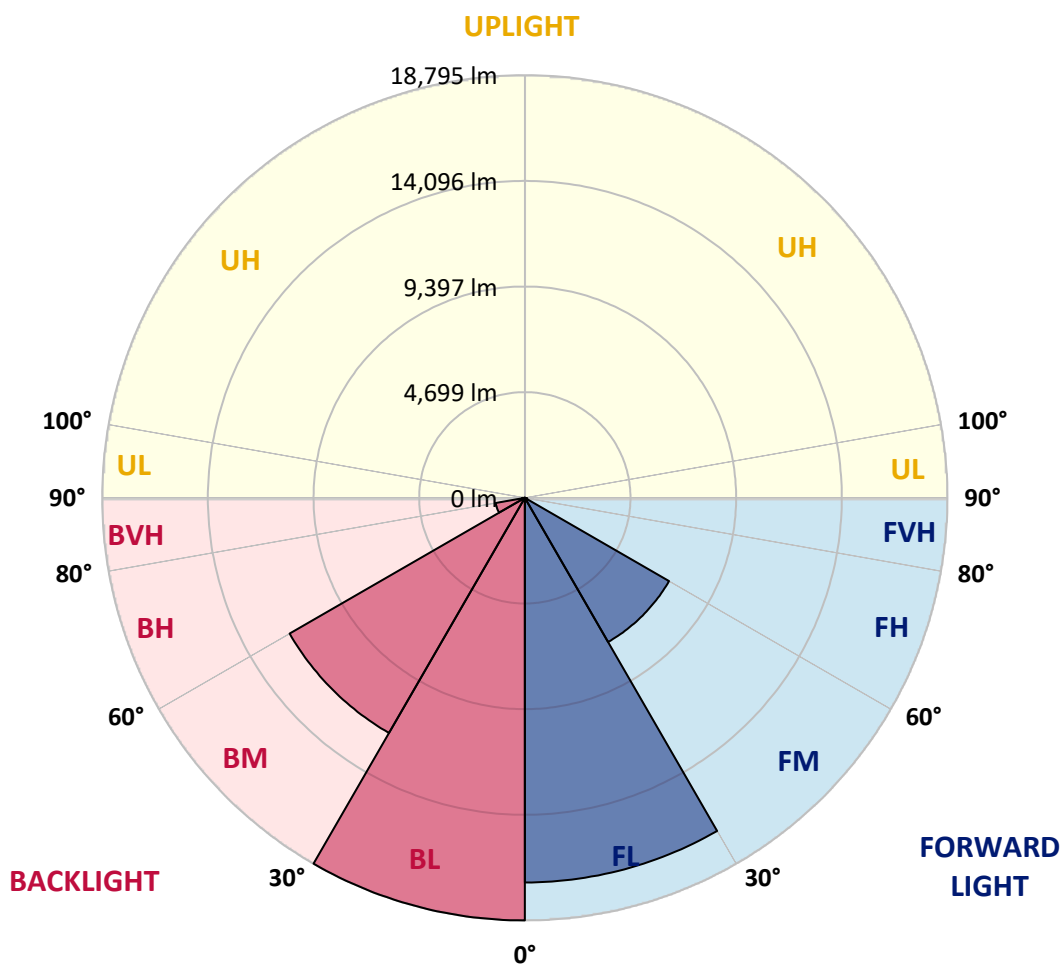
CATALOG NUMBER: EPH-VN-08-E-735-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17105.5	30.0			
FM	(30°-60°)	7405.3	13.0			
FH	(60°-80°)	107.1	0.2			G0/660
FVH	(80°-90°)	12.1	0.0			G1/100
BL	(0°-30°)	18794.8	33.0	B5		
BM	(30°-60°)	12078.4	21.2	B5		
BH	(60°-80°)	1318.8	2.3	B3/2500		G3/2500
BVH	(80°-90°)	118.0	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



REPORT NUMBER: P638737

CATALOG NUMBER: EPH-VN-08-E-735-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7
2.5°	68037.0	67759.1	67364.1	67327.5	67532.3	67978.5	67693.2	67707.9	67532.3	67832.2
5°	66969.1	66705.8	66435.2	66076.8	66376.7	66566.8	66420.5	66259.6	66032.9	66325.5
7.5°	64950.4	64804.1	64401.8	64240.9	64423.8	64635.9	64321.4	64277.5	63963.0	64343.3
10°	61863.8	61805.3	61410.3	61315.2	61476.1	61798.0	61659.0	61629.7	61432.2	61395.7
12.5°	58660.1	58433.4	57943.4	57914.1	58155.5	58638.2	58265.2	57906.8	58016.5	58111.6
15°	50409.7	50168.3	51382.5	53291.5	54293.6	54257.0	54366.7	53935.2	53803.5	53847.4
17.5°	40074.7	39665.1	40103.9	43058.9	47820.5	50585.2	49824.6	48895.6	48398.3	48069.1
20°	34589.0	34610.9	34530.5	35291.2	38260.8	44565.6	44382.8	42590.8	41939.8	41669.2
22.5°	31253.7	31129.4	30953.8	31195.2	31992.5	35693.5	38173.0	36527.3	36300.5	36000.7
25°	27984.3	27984.3	27772.1	28013.5	28240.3	28291.5	30778.3	31451.2	31012.3	31012.3
27.5°	25153.6	25007.4	24912.3	25022.0	24722.1	23281.2	23595.7	27040.7	26740.8	26558.0
30°	22345.0	22301.1	22140.2	22286.5	21174.7	19550.9	18892.7	22820.4	23134.9	23069.1
32.5°	18446.5	18622.0	19338.8	19565.6	17663.9	16354.6	15725.6	18943.9	20201.9	20150.7
35°	12536.6	12682.9	13502.1	16208.3	14643.1	13706.9	13524.0	15067.3	17137.2	17334.7
37.5°	9983.9	9962.0	10196.0	10678.8	11768.6	11541.9	11490.7	11892.9	13977.5	14065.3
40°	8228.5	8199.3	8191.9	7797.0	7526.3	9596.3	9457.3	9215.9	11022.5	11198.1
42.5°	6634.0	6663.3	6685.2	5822.1	5427.2	7402.0	7321.5	7072.9	8645.4	8850.2
45°	5207.7	5200.4	5244.3	4337.3	4227.6	4732.3	5471.0	5273.6	6524.3	6743.7
47.5°	2699.0	2794.0	3386.5	3357.2	3408.4	3357.2	4139.9	4088.7	4907.9	5258.9
50°	1813.9	1843.2	1894.4	1901.7	2684.3	2472.2	2808.7	3181.7	3437.7	3978.9
52.5°	1404.3	1426.3	1294.6	1214.2	1645.7	1828.6	1843.2	2201.6	2399.1	2947.6
55°	782.6	877.7	943.5	950.9	907.0	1353.1	1345.8	1631.1	1784.7	2150.4
57.5°	102.4	124.3	190.2	614.4	607.1	753.4	943.5	1184.9	1272.7	1572.6
60°	7.3	14.6	21.9	95.1	402.3	438.9	643.7	738.7	885.0	1104.4
62.5°	0.0	0.0	7.3	21.9	80.5	256.0	336.5	387.7	519.3	724.1
65°	0.0	0.0	7.3	14.6	29.3	95.1	131.7	212.1	307.2	446.2
67.5°	0.0	0.0	7.3	14.6	21.9	36.6	58.5	95.1	160.9	270.6
70°	0.0	0.0	7.3	14.6	21.9	29.3	43.9	58.5	87.8	146.3
72.5°	0.0	0.0	7.3	7.3	14.6	36.6	36.6	43.9	58.5	80.5
75°	0.0	0.0	7.3	14.6	21.9	36.6	36.6	36.6	43.9	51.2
77.5°	0.0	0.0	7.3	14.6	21.9	36.6	29.3	36.6	36.6	36.6
80°	0.0	0.0	7.3	14.6	21.9	36.6	43.9	36.6	29.3	29.3
82.5°	0.0	0.0	7.3	21.9	21.9	51.2	51.2	51.2	21.9	21.9
85°	0.0	0.0	14.6	21.9	36.6	58.5	58.5	43.9	21.9	14.6
87.5°	0.0	0.0	7.3	14.6	14.6	29.3	43.9	36.6	14.6	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638737

CATALOG NUMBER: EPH-VN-08-E-735-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
68029.7	0°	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7	68029.7
67393.3	2.5°	67934.6	67751.7	68095.5	68139.4	67993.1	67810.3	67386.0	67349.5	66610.7
65901.2	5°	66647.3	66347.4	66566.8	66713.1	66661.9	66464.4	66288.9	66128.0	65462.4
63480.2	7.5°	64248.2	64138.5	64240.9	64350.6	64562.7	64350.6	64277.5	64109.3	63451.0
61095.8	10°	61585.8	61381.0	61768.7	61717.5	61659.0	61600.5	61293.3	61322.5	60547.2
57848.3	12.5°	58316.4	57972.6	58345.6	58389.5	58345.6	58140.8	57797.1	57943.4	57233.9
53459.7	15°	53920.5	53884.0	54154.6	54330.1	54454.5	54235.0	54118.0	54191.2	53766.9
47813.1	17.5°	48522.6	48998.0	49883.1	50183.0	50190.3	50417.0	50351.2	50263.4	49948.9
41559.5	20°	42173.9	43088.1	44448.6	45845.6	46247.9	46057.7	45970.0	46130.9	45662.8
35686.1	22.5°	36315.2	37097.8	38677.7	40718.3	41895.9	42013.0	41991.0	41852.0	41669.2
30983.1	25°	31341.5	32036.3	33550.4	35415.5	37675.6	38012.1	38026.7	37982.8	37821.9
26718.9	27.5°	27143.1	27984.3	28818.1	30485.7	32892.1	34281.8	34106.3	34055.1	33996.6
23120.3	30°	23339.7	24400.3	25182.9	26221.5	28379.2	30259.0	30441.8	30354.1	30215.1
20143.4	32.5°	20326.3	20955.3	21950.0	22652.2	24202.8	26331.2	27033.4	26967.6	26843.2
17459.1	35°	17707.8	17956.4	18739.1	19521.7	20553.0	22615.6	23654.2	23507.9	23486.0
14226.2	37.5°	14584.6	15418.4	15849.9	16639.9	17364.0	18965.8	20399.4	20333.6	20340.9
11439.5	40°	11775.9	12258.7	13114.4	13780.0	14445.6	15615.9	17210.4	17254.3	17239.6
8857.5	42.5°	9040.4	9508.5	10408.2	11132.3	11724.7	12448.8	13970.2	14021.4	14087.2
6897.3	45°	7058.2	7358.1	8016.4	8769.8	9398.8	9837.6	10993.3	11322.4	11329.7
5346.7	47.5°	5478.4	5822.1	6290.2	7014.3	7628.7	7943.3	8784.4	9230.6	9208.6
4103.3	50°	4300.8	4615.3	4995.6	5566.1	6231.7	6480.4	7102.1	7541.0	7519.0
3093.9	52.5°	3291.4	3693.7	4030.1	4469.0	5120.0	5332.1	5778.2	6282.9	6209.8
2267.4	55°	2494.2	2903.8	3218.3	3584.0	4176.4	4447.1	4754.3	5156.5	5171.2
1755.4	57.5°	1879.8	2304.0	2589.2	2962.3	3408.4	3708.3	3942.4	4373.9	4366.6
1199.5	60°	1345.8	1711.5	2055.3	2443.0	2786.7	3130.5	3291.4	3701.0	3715.6
848.5	62.5°	972.8	1316.6	1645.7	1982.2	2289.4	2625.8	2772.1	3093.9	3137.8
555.9	65°	680.2	921.6	1301.9	1557.9	1901.7	2150.4	2340.6	2618.5	2669.7
329.1	67.5°	438.9	665.6	1031.3	1258.0	1572.6	1784.7	1982.2	2201.6	2267.4
212.1	70°	263.3	504.7	768.0	1009.4	1294.6	1484.8	1675.0	1865.1	1901.7
102.4	72.5°	168.2	351.1	555.9	819.2	1038.6	1243.4	1411.6	1550.6	1440.9
65.8	75°	95.1	241.4	438.9	643.7	841.1	1038.6	1177.6	1250.7	1002.0
43.9	77.5°	58.5	175.5	358.4	519.3	651.0	833.8	921.6	965.5	716.8
29.3	80°	36.6	131.7	299.9	424.2	424.2	614.4	716.8	753.4	519.3
21.9	82.5°	29.3	95.1	234.1	321.8	285.3	460.8	563.2	570.5	365.7
14.6	85°	21.9	73.1	146.3	212.1	197.5	321.8	329.1	365.7	241.4
14.6	87.5°	14.6	43.9	87.8	124.3	109.7	153.6	175.5	197.5	131.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
68029.7
66032.9
64928.4
63312.0
60283.9
57029.1
53254.9
49480.8
45326.3
41318.1
37280.6
33652.8
30039.6
26514.1
23244.6
20106.8
16983.6
13867.8
11139.6
9128.2
7519.0
6217.1
5171.2
4352.0
3679.1
3123.2
2655.1
2260.1
1872.4
1338.5
950.9
672.9
482.7
336.5
219.4
117.0
0.0

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