

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: P638745

Luminaire Tested: **EPH-VN-04-E-750-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-750-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30166.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

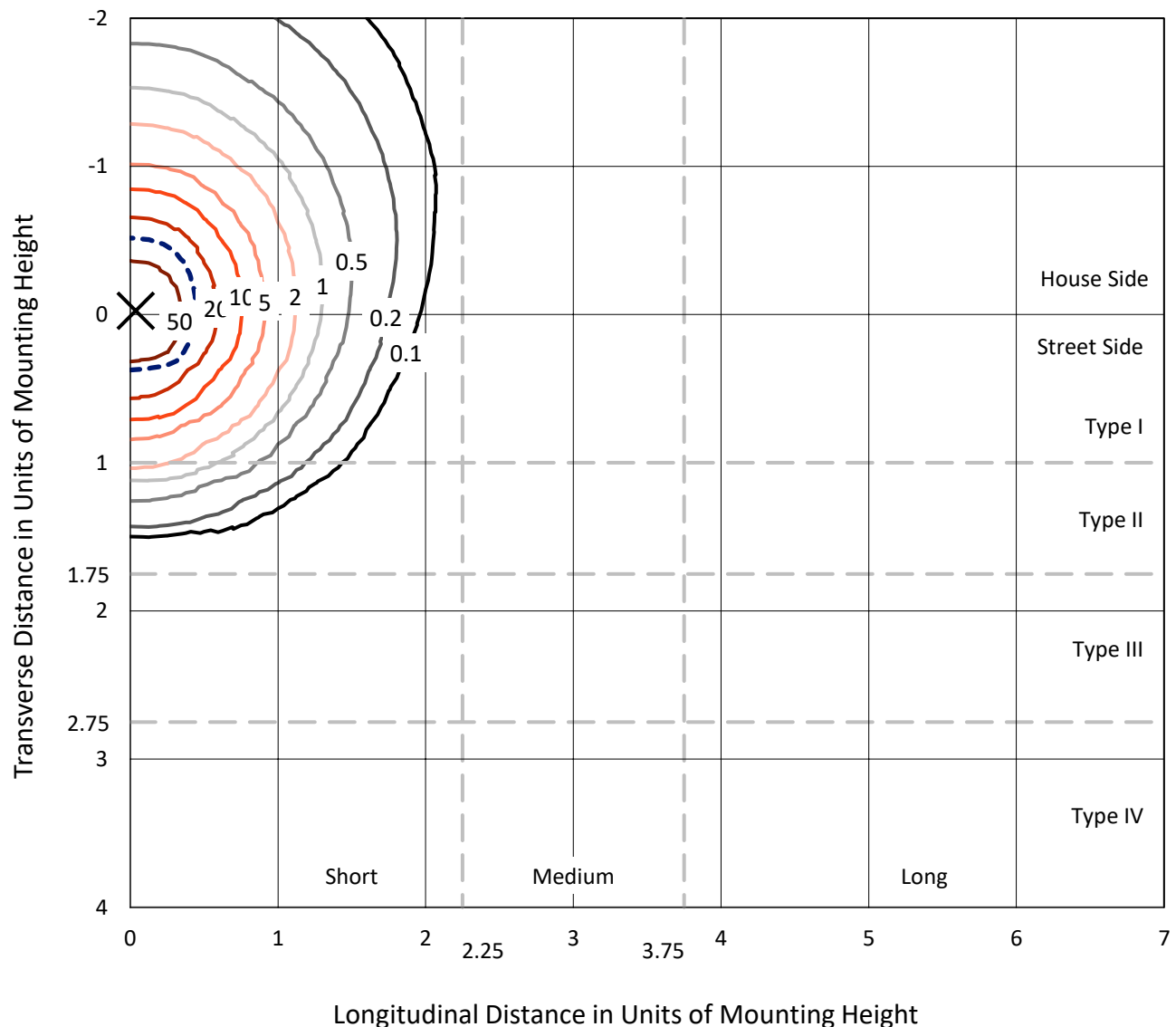
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

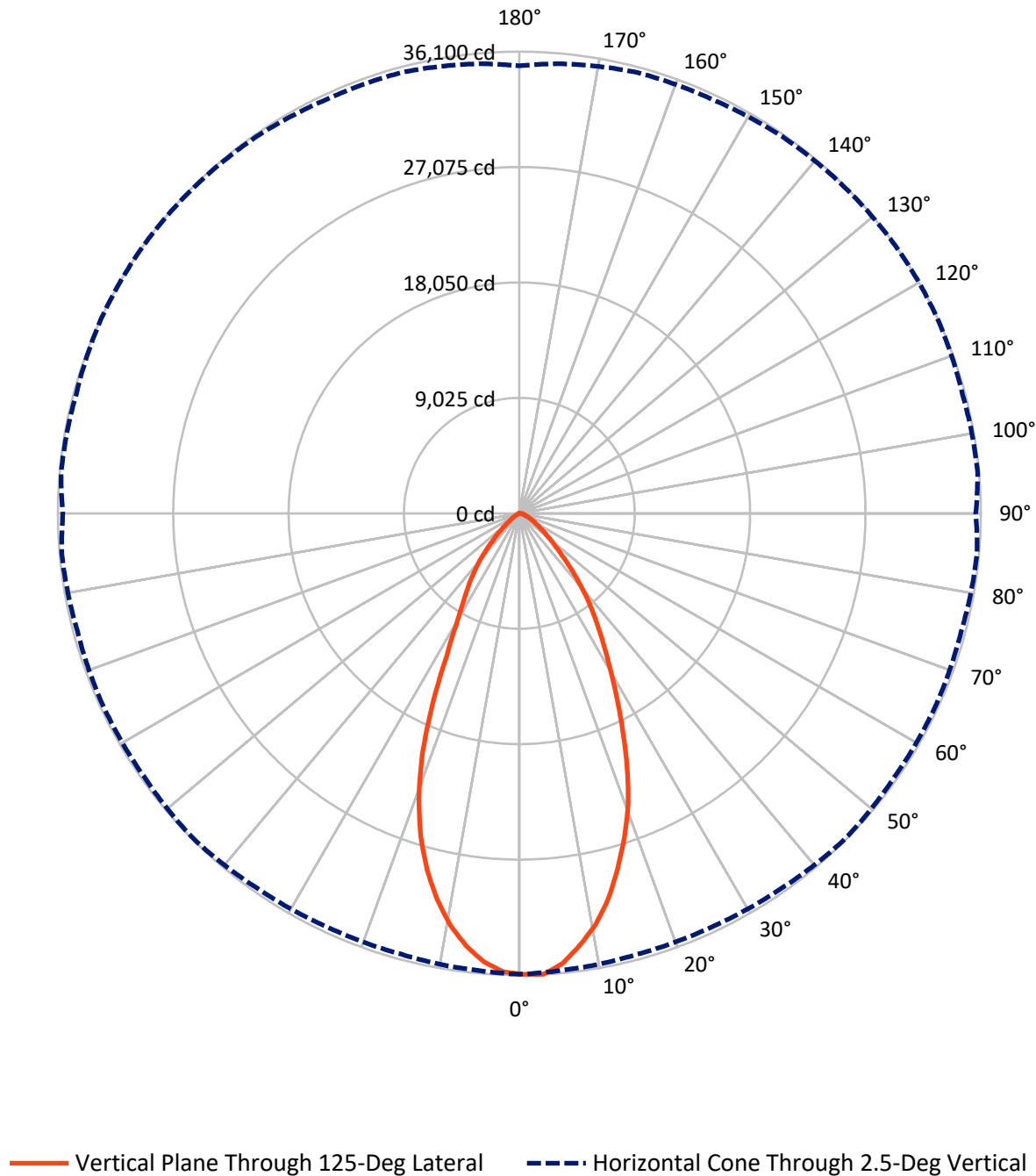
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 90.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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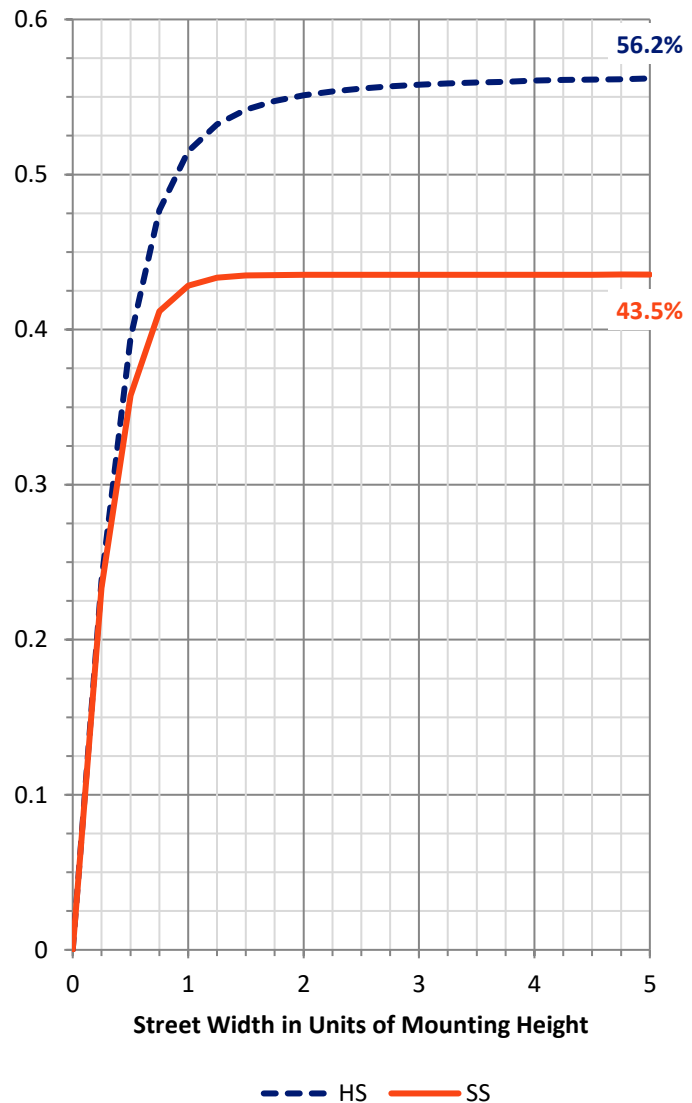
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17117.6	0.0	17117.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13048.8	0.0	13048.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	30166.5	0.0	30166.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3272.7	10.8
10°-20°	7801.4	25.9
20°-30°	7945.6	26.3
30°-40°	5925.0	19.6
40°-50°	3095.4	10.3
50°-60°	1301.9	4.3
60°-70°	531.7	1.8
70°-80°	223.8	0.7
80°-90°	69.0	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°	30166.5	100.0
0°-180°	30166.5	100.0

Coefficient of Utilization



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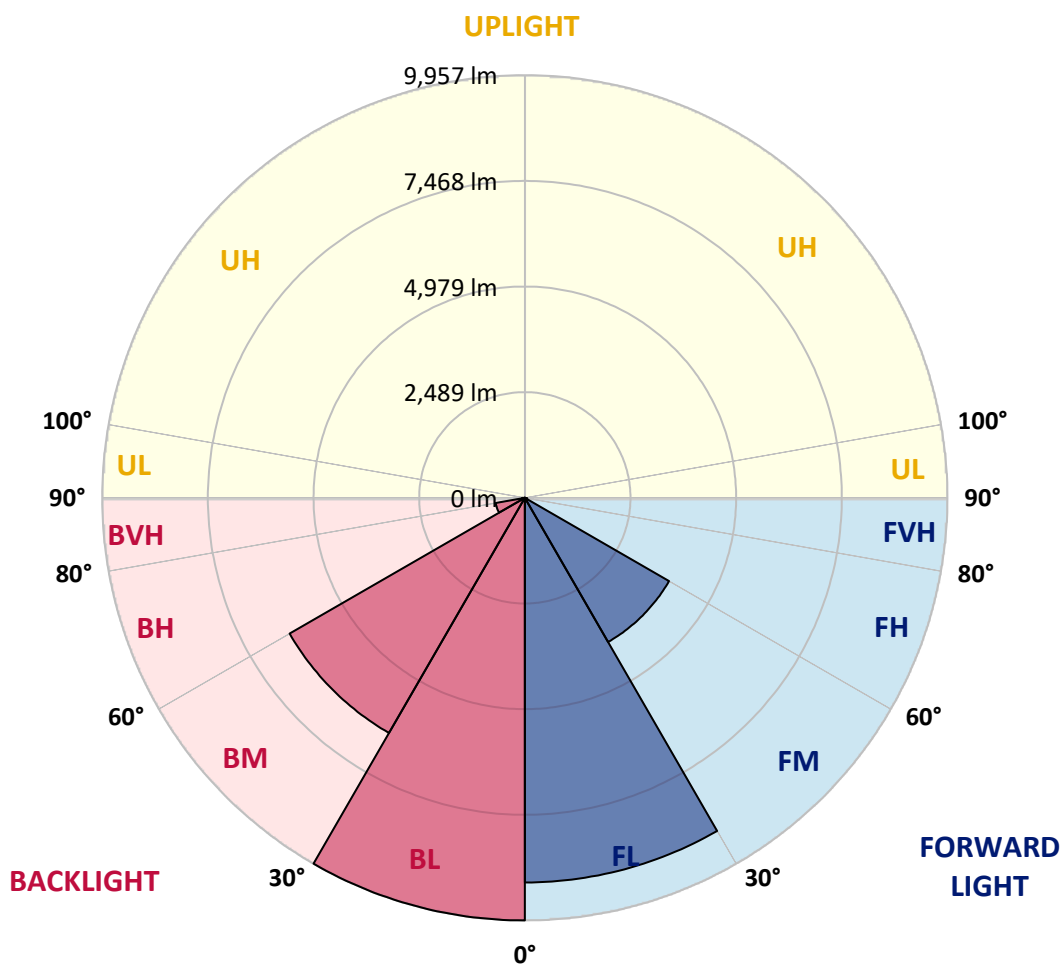
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9062.4	30.0			
FM	(30°-60°)	3923.3	13.0			
FH	(60°-80°)	56.8	0.2			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	9957.3	33.0	B5		
BM	(30°-60°)	6399.0	21.2	B4/8500		
BH	(60°-80°)	698.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	62.5	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°	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6
2.5°	36045.4	35898.2	35688.9	35669.6	35778.1	36014.4	35863.3	35871.1	35778.1	35936.9
5°	35479.7	35340.2	35196.8	35006.9	35165.8	35266.6	35189.1	35103.8	34983.7	35138.7
7.5°	34410.2	34332.7	34119.6	34034.3	34131.2	34243.6	34076.9	34053.7	33887.1	34088.6
10°	32774.9	32743.9	32534.7	32484.3	32569.5	32740.0	32666.4	32650.9	32546.3	32526.9
12.5°	31077.7	30957.5	30697.9	30682.4	30810.3	31066.0	30868.4	30678.5	30736.7	30787.0
15°	26706.6	26578.8	27222.0	28233.4	28764.3	28744.9	28803.0	28574.4	28504.6	28527.9
17.5°	21231.2	21014.2	21246.7	22812.2	25334.9	26799.6	26396.6	25904.5	25641.0	25466.6
20°	18325.0	18336.6	18294.0	18697.0	20270.2	23610.5	23513.6	22564.2	22219.4	22076.0
22.5°	16558.0	16492.1	16399.1	16527.0	16949.3	18910.1	20223.7	19351.9	19231.7	19072.8
25°	14825.8	14825.8	14713.5	14841.3	14961.5	14988.6	16306.1	16662.6	16430.1	16430.1
27.5°	13326.2	13248.7	13198.3	13256.4	13097.6	12334.2	12500.8	14325.9	14167.1	14070.2
30°	11838.2	11814.9	11729.7	11807.2	11218.2	10357.9	10009.2	12090.1	12256.7	12221.8
32.5°	9772.8	9865.8	10245.6	10365.7	9358.2	8664.5	8331.3	10036.3	10702.8	10675.7
35°	6641.8	6719.3	7153.3	8587.0	7757.8	7261.8	7164.9	7982.5	9079.2	9183.8
37.5°	5289.4	5277.8	5401.8	5657.5	6234.9	6114.8	6087.7	6300.8	7405.2	7451.7
40°	4359.4	4343.9	4340.0	4130.8	3987.4	5084.0	5010.4	4882.5	5839.7	5932.7
42.5°	3514.6	3530.1	3541.8	3084.5	2875.3	3921.5	3878.9	3747.1	4580.3	4688.8
45°	2759.0	2755.1	2778.4	2297.9	2239.8	2507.1	2898.5	2793.9	3456.5	3572.8
47.5°	1429.9	1480.3	1794.1	1778.6	1805.8	1778.6	2193.3	2166.1	2600.1	2786.1
50°	961.0	976.5	1003.6	1007.5	1422.1	1309.8	1488.0	1685.6	1821.3	2108.0
52.5°	744.0	755.6	685.9	643.3	871.9	968.8	976.5	1166.4	1271.0	1561.6
55°	414.6	465.0	499.9	503.8	480.5	716.9	713.0	864.1	945.5	1139.3
57.5°	54.3	65.9	100.8	325.5	321.6	399.1	499.9	627.8	674.3	833.1
60°	3.9	7.8	11.6	50.4	213.1	232.5	341.0	391.4	468.9	585.1
62.5°	0.0	0.0	3.9	11.6	42.6	135.6	178.3	205.4	275.1	383.6
65°	0.0	0.0	3.9	7.8	15.5	50.4	69.8	112.4	162.8	236.4
67.5°	0.0	0.0	3.9	7.8	11.6	19.4	31.0	50.4	85.3	143.4
70°	0.0	0.0	3.9	7.8	11.6	15.5	23.3	31.0	46.5	77.5
72.5°	0.0	0.0	3.9	3.9	7.8	19.4	19.4	23.3	31.0	42.6
75°	0.0	0.0	3.9	7.8	11.6	19.4	19.4	19.4	23.3	27.1
77.5°	0.0	0.0	3.9	7.8	11.6	19.4	15.5	19.4	19.4	19.4
80°	0.0	0.0	3.9	7.8	11.6	19.4	23.3	19.4	15.5	15.5
82.5°	0.0	0.0	3.9	11.6	11.6	27.1	27.1	27.1	11.6	11.6
85°	0.0	0.0	7.8	11.6	19.4	31.0	31.0	23.3	11.6	7.8
87.5°	0.0	0.0	3.9	7.8	7.8	15.5	23.3	19.4	7.8	3.9
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°
36041.6	0°	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6	36041.6
35704.4	2.5°	35991.2	35894.3	36076.4	36099.7	36022.2	35925.3	35700.6	35681.2	35289.8
34913.9	5°	35309.2	35150.3	35266.6	35344.1	35316.9	35212.3	35119.3	35034.1	34681.4
33631.3	7.5°	34038.2	33980.1	34034.3	34092.4	34204.8	34092.4	34053.7	33964.6	33615.8
32368.0	10°	32627.7	32519.2	32724.5	32697.4	32666.4	32635.4	32472.7	32488.2	32077.4
30647.5	12.5°	30895.5	30713.4	30911.0	30934.3	30911.0	30802.5	30620.4	30697.9	30322.0
28322.5	15°	28566.6	28547.3	28690.6	28783.7	28849.5	28733.3	28671.3	28710.0	28485.3
25331.0	17.5°	25706.9	25958.8	26427.6	26586.5	26590.4	26710.5	26675.6	26629.1	26462.5
22017.9	20°	22343.4	22827.7	23548.5	24288.6	24501.8	24401.0	24354.5	24439.8	24191.8
18906.2	22.5°	19239.5	19654.1	20491.1	21572.2	22196.1	22258.1	22246.5	22172.9	22076.0
16414.6	25°	16604.5	16972.6	17774.7	18762.8	19960.2	20138.5	20146.2	20123.0	20037.7
14155.4	27.5°	14380.2	14825.8	15267.6	16151.1	17426.0	18162.2	18069.2	18042.1	18011.1
12248.9	30°	12365.2	12927.1	13341.7	13891.9	15035.1	16031.0	16127.8	16081.3	16007.7
10671.8	32.5°	10768.7	11101.9	11628.9	12000.9	12822.4	13950.1	14322.1	14287.2	14221.3
9249.7	35°	9381.4	9513.2	9927.8	10342.4	10888.8	11981.6	12531.8	12454.3	12442.7
7536.9	37.5°	7726.8	8168.5	8397.2	8815.7	9199.3	10047.9	10807.4	10772.6	10776.4
6060.5	40°	6238.8	6494.5	6947.9	7300.5	7653.2	8273.2	9117.9	9141.2	9133.4
4692.6	42.5°	4789.5	5037.5	5514.2	5897.8	6211.7	6595.3	7401.3	7428.4	7463.3
3654.1	45°	3739.4	3898.3	4247.0	4646.1	4979.4	5211.9	5824.2	5998.5	6002.4
2832.6	47.5°	2902.4	3084.5	3332.5	3716.1	4041.6	4208.3	4653.9	4890.3	4878.7
2173.9	50°	2278.5	2445.1	2646.6	2948.9	3301.5	3433.3	3762.6	3995.1	3983.5
1639.1	52.5°	1743.8	1956.9	2135.1	2367.6	2712.5	2824.9	3061.3	3328.6	3289.9
1201.3	55°	1321.4	1538.4	1705.0	1898.8	2212.6	2356.0	2518.8	2731.9	2739.6
930.0	57.5°	995.9	1220.6	1371.8	1569.4	1805.8	1964.6	2088.6	2317.3	2313.4
635.5	60°	713.0	906.8	1088.9	1294.3	1476.4	1658.5	1743.8	1960.8	1968.5
449.5	62.5°	515.4	697.5	871.9	1050.1	1212.9	1391.1	1468.6	1639.1	1662.4
294.5	65°	360.4	488.3	689.8	825.4	1007.5	1139.3	1240.0	1387.3	1414.4
174.4	67.5°	232.5	352.6	546.4	666.5	833.1	945.5	1050.1	1166.4	1201.3
112.4	70°	139.5	267.4	406.9	534.8	685.9	786.6	887.4	988.1	1007.5
54.3	72.5°	89.1	186.0	294.5	434.0	550.3	658.8	747.9	821.5	763.4
34.9	75°	50.4	127.9	232.5	341.0	445.6	550.3	623.9	662.6	530.9
23.3	77.5°	31.0	93.0	189.9	275.1	344.9	441.8	488.3	511.5	379.8
15.5	80°	19.4	69.8	158.9	224.8	224.8	325.5	379.8	399.1	275.1
11.6	82.5°	15.5	50.4	124.0	170.5	151.1	244.1	298.4	302.3	193.8
7.8	85°	11.6	38.8	77.5	112.4	104.6	170.5	174.4	193.8	127.9
7.8	87.5°	7.8	23.3	46.5	65.9	58.1	81.4	93.0	104.6	69.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
36041.6
34983.7
34398.6
33542.2
31937.9
30213.5
28214.0
26214.5
24013.5
21890.0
19751.0
17829.0
15914.7
14046.9
12314.8
10652.4
8997.8
7347.0
5901.7
4836.0
3983.5
3293.8
2739.6
2305.6
1949.1
1654.6
1406.6
1197.4
992.0
709.1
503.8
356.5
255.8
178.3
116.3
62.0
0.0

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