

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: P638757

Luminaire Tested: **EPH-VN-04-E-930-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638757
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-930-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18874.3 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

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



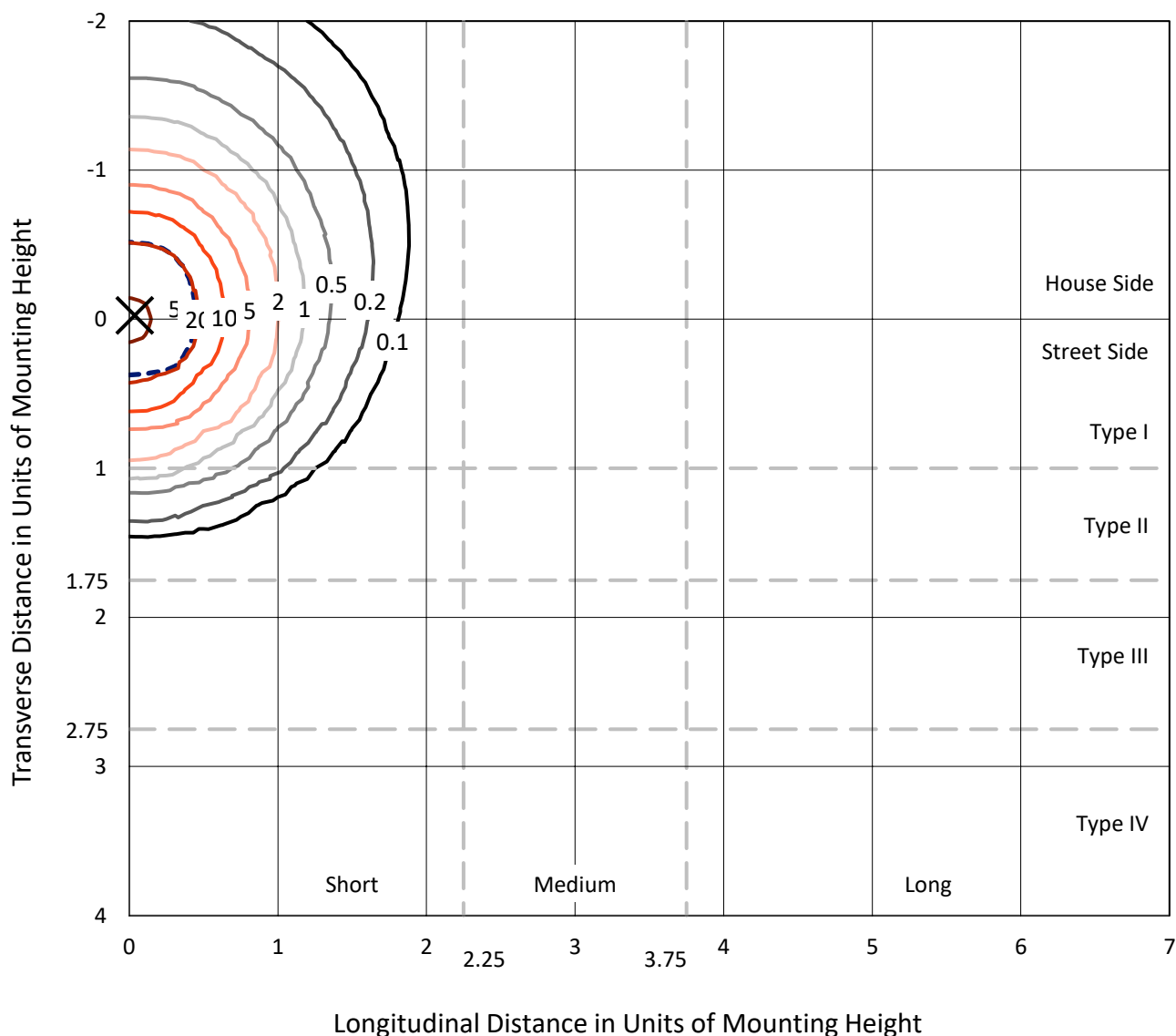
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

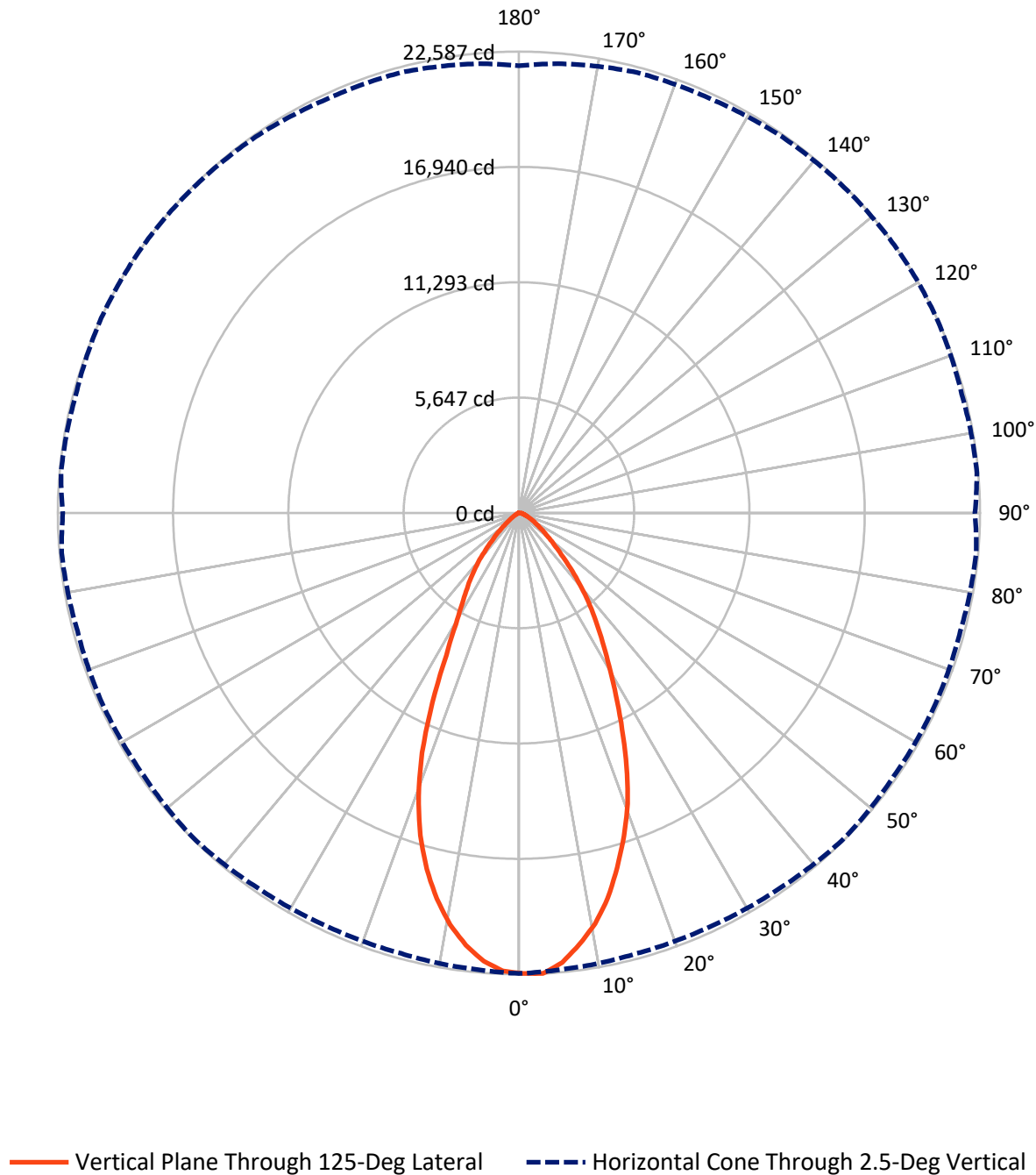


Based on 20 foot mounting height. Maximum calculated value = 56.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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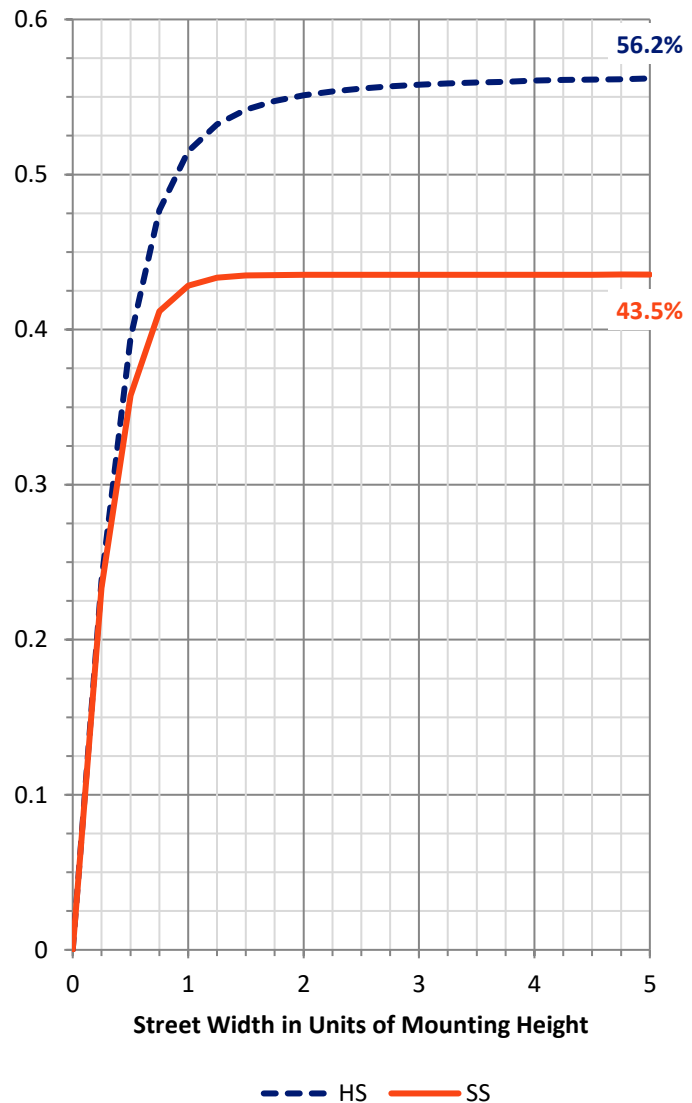
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10710.0	0.0	10710.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8164.3	0.0	8164.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	18874.3	0.0	18874.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2047.6	10.8
10°-20°	4881.1	25.9
20°-30°	4971.3	26.3
30°-40°	3707.1	19.6
40°-50°	1936.7	10.3
50°-60°	814.6	4.3
60°-70°	332.7	1.8
70°-80°	140.0	0.7
80°-90°	43.1	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°	18874.3	100.0
0°-180°	18874.3	100.0

Coefficient of Utilization



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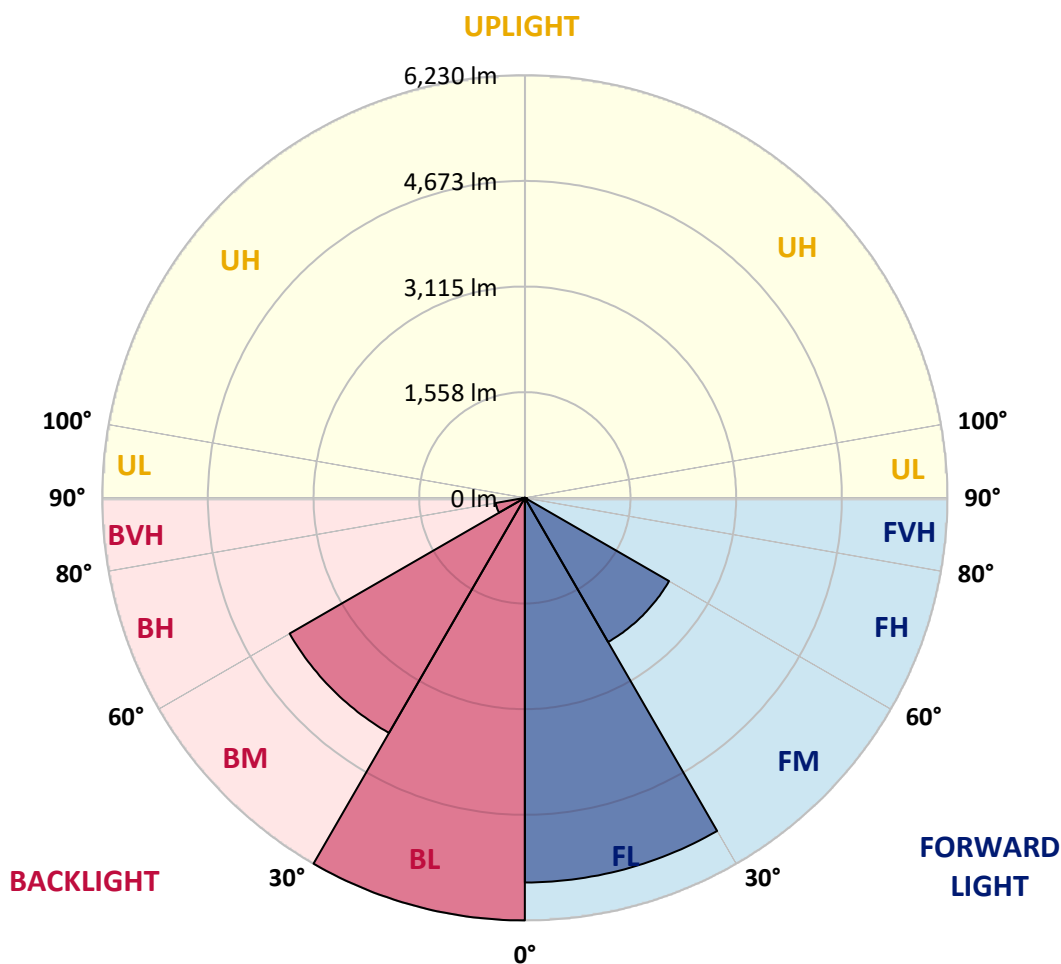
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5670.1	30.0			
FM	(30°-60°)	2454.7	13.0			
FH	(60°-80°)	35.5	0.2			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	6230.0	33.0	B5		
BM	(30°-60°)	4003.7	21.2	B3/5000		
BH	(60°-80°)	437.2	2.3	B1/500		G1/500
BVH	(80°-90°)	39.1	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2
2.5°	22552.6	22460.5	22329.6	22317.4	22385.3	22533.2	22438.7	22443.5	22385.3	22484.7
5°	22198.6	22111.4	22021.7	21902.9	22002.3	22065.3	22016.8	21963.5	21888.3	21985.3
7.5°	21529.5	21481.0	21347.7	21294.3	21354.9	21425.2	21321.0	21306.4	21202.2	21328.3
10°	20506.4	20487.0	20356.0	20324.5	20377.9	20484.5	20438.5	20428.8	20363.3	20351.2
12.5°	19444.4	19369.3	19206.8	19197.1	19277.1	19437.2	19313.5	19194.7	19231.1	19262.6
15°	16709.6	16629.6	17032.1	17664.8	17997.0	17984.9	18021.2	17878.2	17834.6	17849.1
17.5°	13283.8	13148.0	13293.5	14273.0	15851.3	16767.8	16515.6	16207.7	16042.9	15933.8
20°	11465.4	11472.7	11446.0	11698.2	12682.5	14772.4	14711.8	14117.8	13902.0	13812.3
22.5°	10359.9	10318.6	10260.5	10340.5	10604.7	11831.5	12653.4	12107.9	12032.8	11933.3
25°	9276.1	9276.1	9205.8	9285.8	9361.0	9377.9	10202.3	10425.3	10279.8	10279.8
27.5°	8337.8	8289.3	8257.8	8294.2	8194.8	7717.2	7821.4	8963.3	8863.9	8803.3
30°	7406.8	7392.3	7338.9	7387.4	7018.9	6480.7	6262.5	7564.4	7668.7	7646.8
32.5°	6114.6	6172.8	6410.4	6485.5	5855.1	5421.2	5212.7	6279.4	6696.4	6679.5
35°	4155.6	4204.1	4475.6	5372.7	4853.8	4543.5	4482.9	4994.5	5680.6	5746.0
37.5°	3309.4	3302.2	3379.7	3539.8	3901.0	3825.8	3808.9	3942.2	4633.2	4662.3
40°	2727.6	2717.9	2715.4	2584.5	2494.8	3180.9	3134.9	3054.9	3653.7	3711.9
42.5°	2199.0	2208.7	2216.0	1929.9	1799.0	2453.6	2426.9	2344.5	2865.7	2933.6
45°	1726.2	1723.8	1738.4	1437.7	1401.4	1568.6	1813.5	1748.1	2162.6	2235.4
47.5°	894.6	926.2	1122.5	1112.8	1129.8	1112.8	1372.3	1355.3	1626.8	1743.2
50°	601.3	611.0	627.9	630.4	889.8	819.5	931.0	1054.7	1139.5	1318.9
52.5°	465.5	472.8	429.1	402.5	545.5	606.1	611.0	729.8	795.2	977.1
55°	259.4	290.9	312.8	315.2	300.6	448.5	446.1	540.7	591.6	712.8
57.5°	33.9	41.2	63.0	203.7	201.2	249.7	312.8	392.8	421.9	521.3
60°	2.4	4.8	7.3	31.5	133.3	145.5	213.4	244.9	293.4	366.1
62.5°	0.0	0.0	2.4	7.3	26.7	84.9	111.5	128.5	172.1	240.0
65°	0.0	0.0	2.4	4.8	9.7	31.5	43.6	70.3	101.8	147.9
67.5°	0.0	0.0	2.4	4.8	7.3	12.1	19.4	31.5	53.3	89.7
70°	0.0	0.0	2.4	4.8	7.3	9.7	14.5	19.4	29.1	48.5
72.5°	0.0	0.0	2.4	2.4	4.8	12.1	12.1	14.5	19.4	26.7
75°	0.0	0.0	2.4	4.8	7.3	12.1	12.1	12.1	14.5	17.0
77.5°	0.0	0.0	2.4	4.8	7.3	12.1	9.7	12.1	12.1	12.1
80°	0.0	0.0	2.4	4.8	7.3	12.1	14.5	12.1	9.7	9.7
82.5°	0.0	0.0	2.4	7.3	7.3	17.0	17.0	17.0	7.3	7.3
85°	0.0	0.0	4.8	7.3	12.1	19.4	19.4	14.5	7.3	4.8
87.5°	0.0	0.0	2.4	4.8	4.8	9.7	14.5	12.1	4.8	2.4
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°
22550.2	0°	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2	22550.2
22339.3	2.5°	22518.7	22458.1	22572.0	22586.6	22538.1	22477.5	22336.8	22324.7	22079.8
21844.7	5°	22092.0	21992.6	22065.3	22113.8	22096.8	22031.4	21973.2	21919.8	21699.2
21042.2	7.5°	21296.7	21260.4	21294.3	21330.7	21401.0	21330.7	21306.4	21250.7	21032.5
20251.8	10°	20414.2	20346.3	20474.8	20457.9	20438.5	20419.1	20317.2	20326.9	20069.9
19175.3	12.5°	19330.5	19216.5	19340.2	19354.7	19340.2	19272.3	19158.3	19206.8	18971.7
17720.6	15°	17873.4	17861.2	17950.9	18009.1	18050.3	17977.6	17938.8	17963.1	17822.4
15848.9	17.5°	16084.1	16241.7	16535.0	16634.4	16636.9	16712.0	16690.2	16661.1	16556.9
13776.0	20°	13979.6	14282.7	14733.6	15196.7	15330.1	15267.0	15237.9	15291.3	15136.1
11829.1	22.5°	12037.6	12297.0	12820.7	13497.1	13887.5	13926.3	13919.0	13872.9	13812.3
10270.1	25°	10388.9	10619.3	11121.1	11739.4	12488.6	12600.1	12604.9	12590.4	12537.0
8856.7	27.5°	8997.3	9276.1	9552.5	10105.3	10902.9	11363.6	11305.4	11288.4	11269.0
7663.8	30°	7736.6	8088.1	8347.5	8691.8	9407.0	10030.1	10090.7	10061.6	10015.6
6677.1	32.5°	6737.7	6946.2	7275.9	7508.7	8022.6	8728.2	8960.9	8939.1	8897.9
5787.3	35°	5869.7	5952.1	6211.5	6471.0	6812.8	7496.5	7840.8	7792.3	7785.0
4715.6	37.5°	4834.4	5110.8	5253.9	5515.7	5755.7	6286.7	6761.9	6740.1	6742.5
3791.9	40°	3903.4	4063.4	4347.1	4567.7	4788.4	5176.3	5704.8	5719.4	5714.5
2936.1	42.5°	2996.7	3151.8	3450.1	3690.1	3886.5	4126.5	4630.8	4647.8	4669.6
2286.3	45°	2339.6	2439.0	2657.2	2907.0	3115.5	3260.9	3644.0	3753.1	3755.5
1772.3	47.5°	1815.9	1929.9	2085.1	2325.1	2528.7	2633.0	2911.8	3059.7	3052.4
1360.1	50°	1425.6	1529.9	1655.9	1845.0	2065.7	2148.1	2354.2	2499.7	2492.4
1025.6	52.5°	1091.0	1224.4	1335.9	1481.4	1697.1	1767.5	1915.3	2082.6	2058.4
751.6	55°	826.8	962.5	1066.8	1188.0	1384.4	1474.1	1575.9	1709.3	1714.1
581.9	57.5°	623.1	763.7	858.3	981.9	1129.8	1229.2	1306.8	1449.8	1447.4
397.6	60°	446.1	567.3	681.3	809.8	923.7	1037.7	1091.0	1226.8	1231.6
281.2	62.5°	322.5	436.4	545.5	657.0	758.9	870.4	918.9	1025.6	1040.1
184.3	65°	225.5	305.5	431.6	516.4	630.4	712.8	775.8	868.0	884.9
109.1	67.5°	145.5	220.6	341.9	417.0	521.3	591.6	657.0	729.8	751.6
70.3	70°	87.3	167.3	254.6	334.6	429.1	492.2	555.2	618.2	630.4
33.9	72.5°	55.8	116.4	184.3	271.5	344.3	412.2	467.9	514.0	477.6
21.8	75°	31.5	80.0	145.5	213.4	278.8	344.3	390.3	414.6	332.2
14.5	77.5°	19.4	58.2	118.8	172.1	215.8	276.4	305.5	320.0	237.6
9.7	80°	12.1	43.6	99.4	140.6	140.6	203.7	237.6	249.7	172.1
7.3	82.5°	9.7	31.5	77.6	106.7	94.6	152.7	186.7	189.1	121.2
4.8	85°	7.3	24.2	48.5	70.3	65.5	106.7	109.1	121.2	80.0
4.8	87.5°	4.8	14.5	29.1	41.2	36.4	50.9	58.2	65.5	43.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22550.2
21888.3
21522.2
20986.4
19982.7
18903.8
17652.7
16401.7
15024.6
13696.0
12357.6
11155.1
9957.4
8788.8
7705.0
6664.9
5629.7
4596.8
3692.5
3025.8
2492.4
2060.8
1714.1
1442.6
1219.5
1035.3
880.1
749.2
620.7
443.7
315.2
223.1
160.0
111.5
72.7
38.8
0.0

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