

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: P638733

Luminaire Tested: **EPH-VN-04-E-735-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638733
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-735-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29087 lumens
Efficiency: N/A
Efficacy: 95.7 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



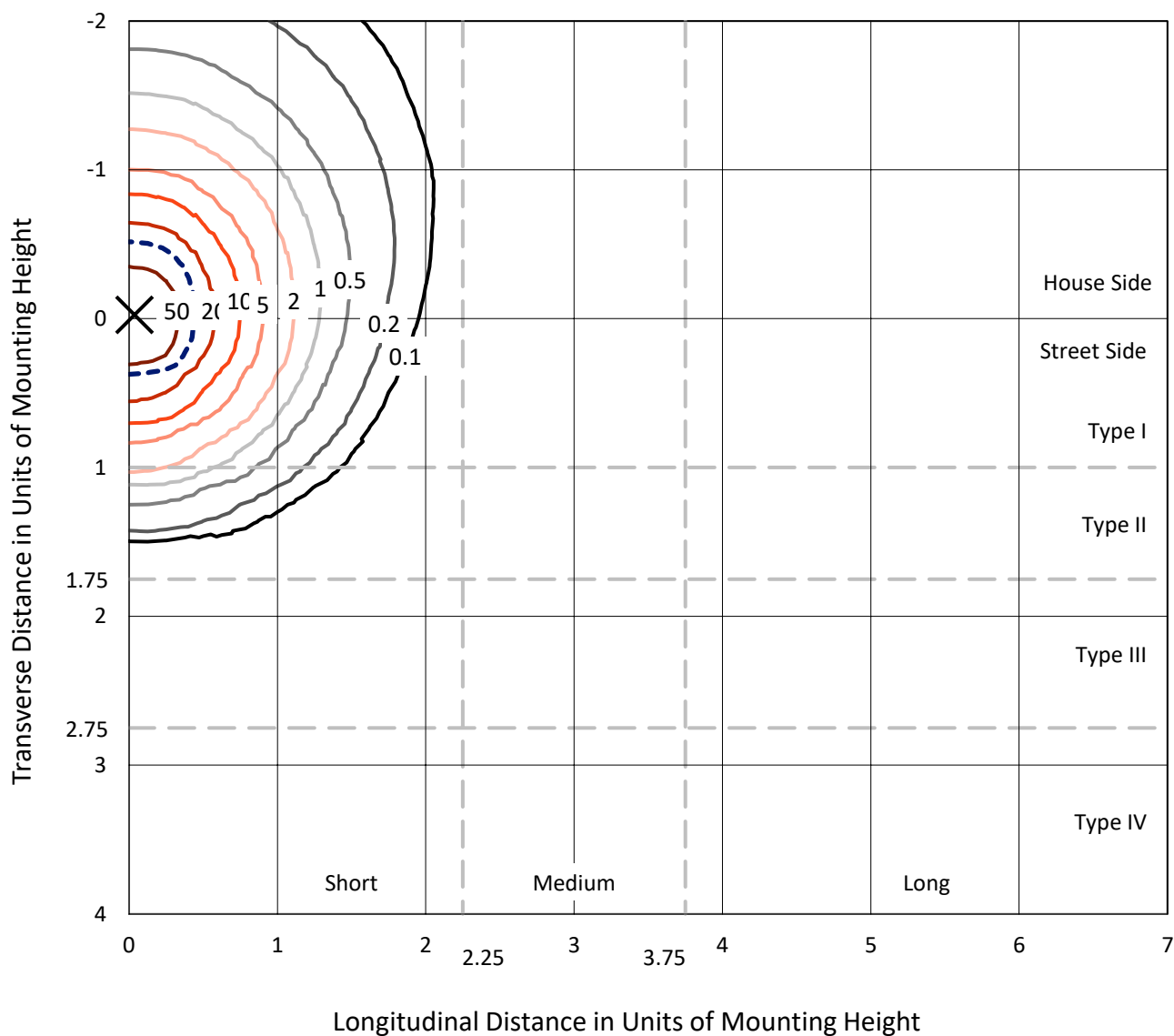
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

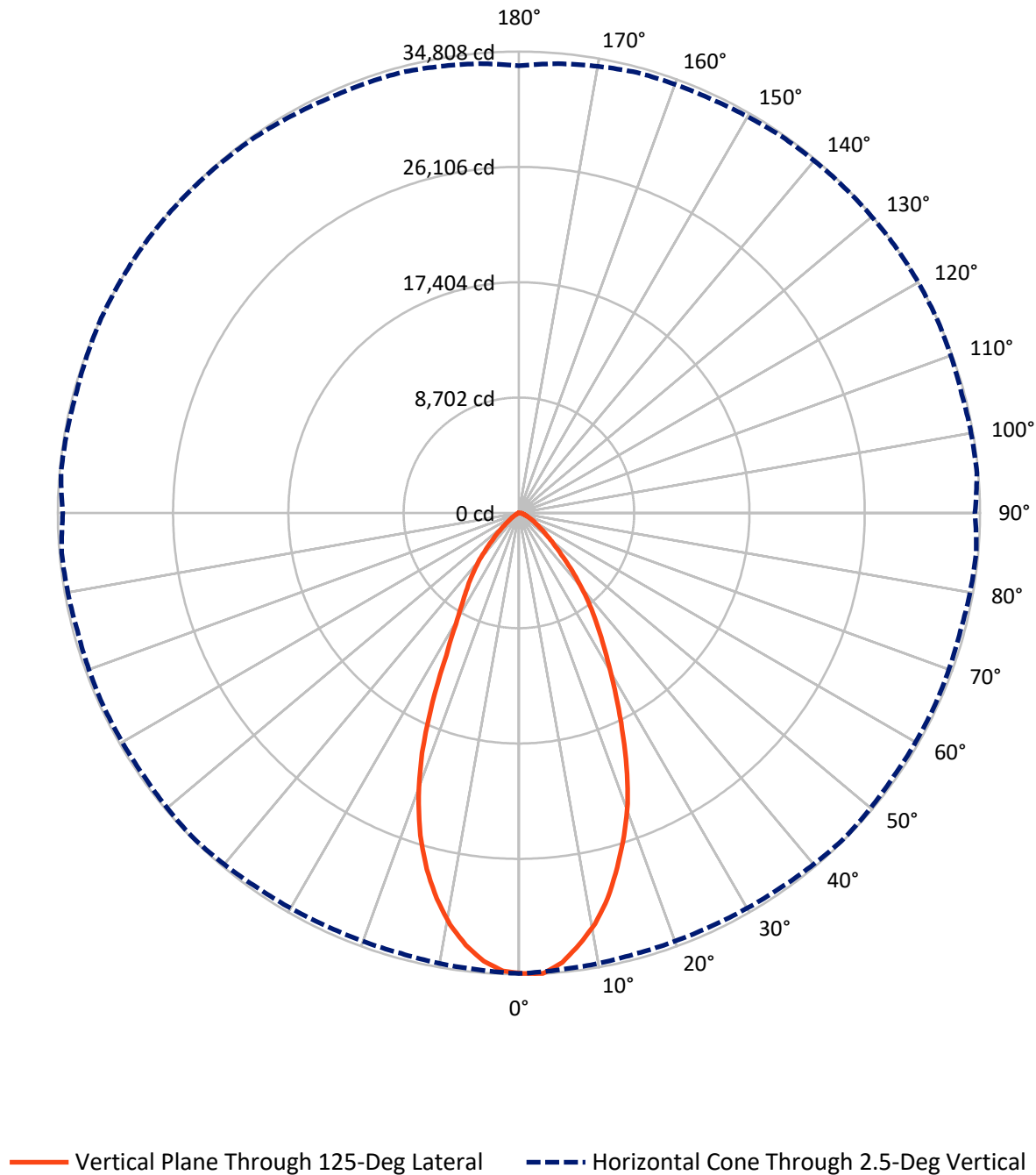


Based on 20 foot mounting height. Maximum calculated value = 86.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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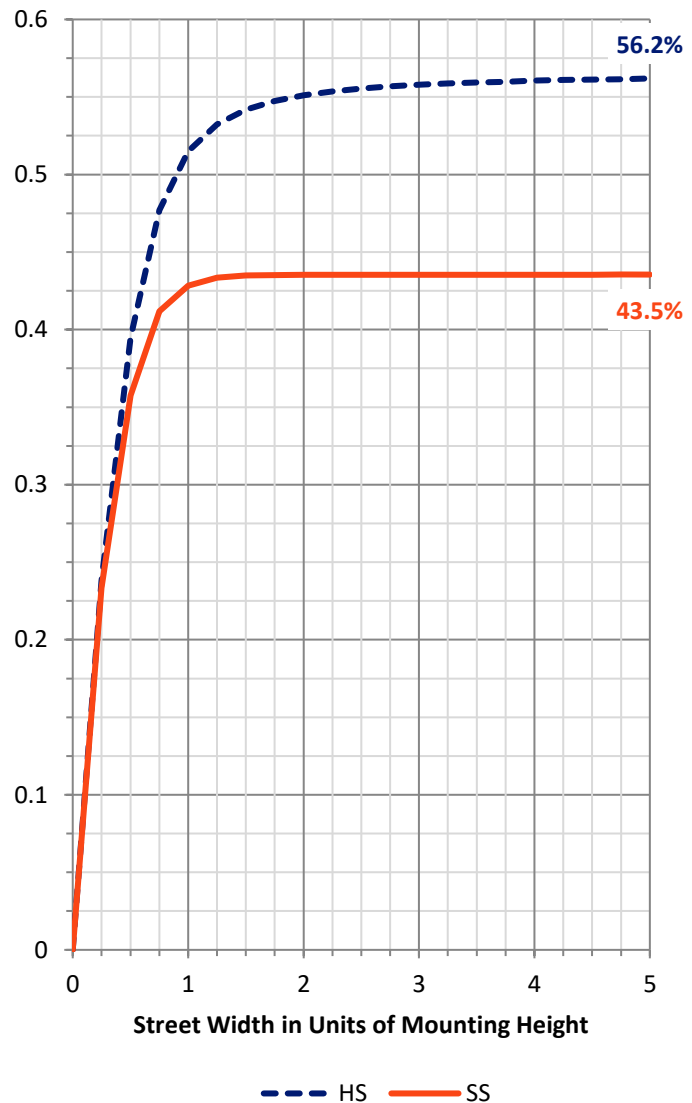
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16505.1	0.0	16505.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12581.9	0.0	12581.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	29087.0	0.0	29087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3155.6	10.8
10°-20°	7522.3	25.9
20°-30°	7661.3	26.3
30°-40°	5713.0	19.6
40°-50°	2984.6	10.3
50°-60°	1255.3	4.3
60°-70°	512.7	1.8
70°-80°	215.8	0.7
80°-90°	66.5	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°	29087.0	100.0
0°-180°	29087.0	100.0

Coefficient of Utilization



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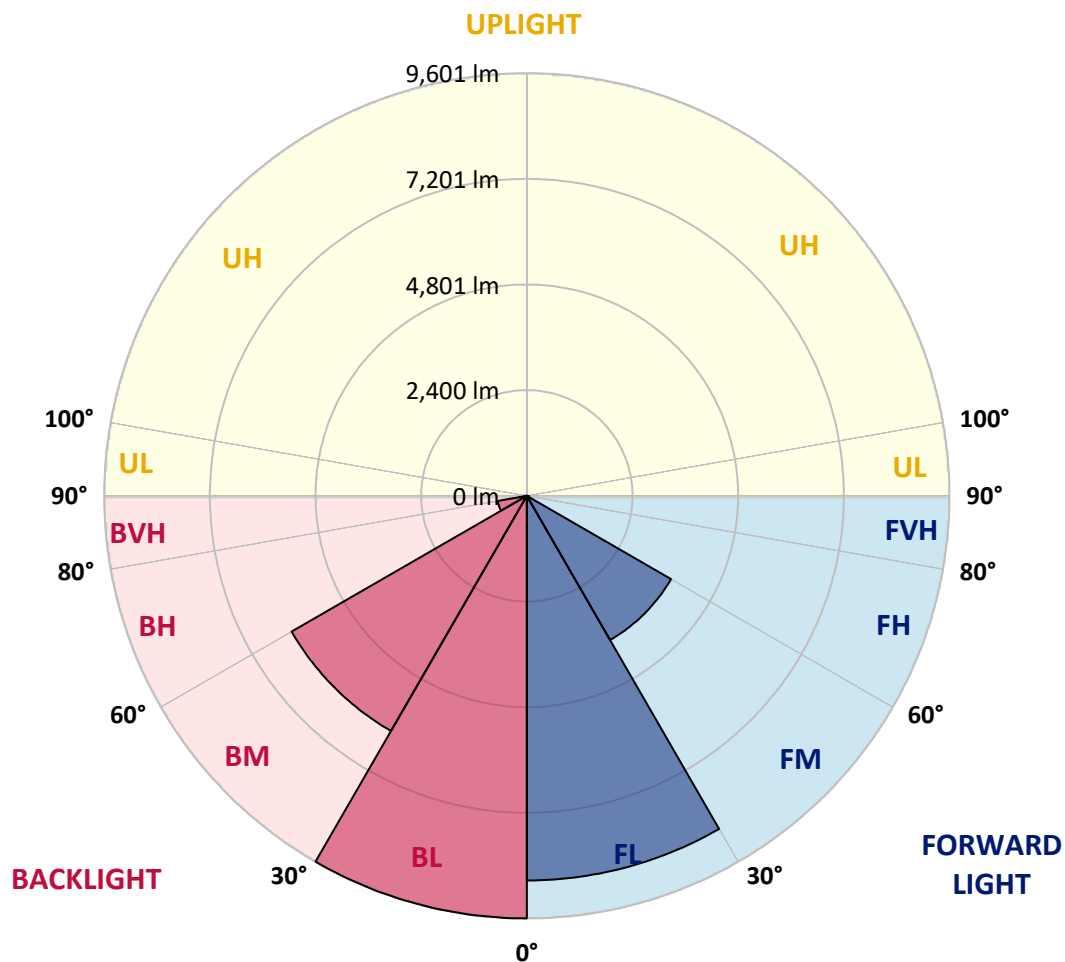
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8738.1	30.0			
FM	(30°-60°)	3782.9	13.0			
FH	(60°-80°)	54.7	0.2			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	9601.1	33.0	B5		
BM	(30°-60°)	6170.1	21.2	B4/8500		
BH	(60°-80°)	673.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	60.3	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°	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0
2.5°	34755.7	34613.7	34412.0	34393.3	34497.9	34725.8	34580.1	34587.6	34497.9	34651.1
5°	34210.2	34075.7	33937.4	33754.4	33907.6	34004.7	33930.0	33847.8	33731.9	33881.4
7.5°	33179.0	33104.2	32898.7	32816.5	32909.9	33018.3	32857.6	32835.2	32674.6	32868.8
10°	31602.2	31572.3	31370.6	31322.0	31404.2	31568.6	31497.6	31482.6	31381.8	31363.1
12.5°	29965.7	29849.9	29599.5	29584.6	29707.9	29954.5	29763.9	29580.8	29636.9	29685.5
15°	25751.1	25627.8	26248.0	27223.2	27735.1	27716.4	27772.4	27552.0	27484.7	27507.2
17.5°	20471.6	20262.3	20486.5	21996.0	24428.4	25840.7	25452.1	24977.6	24723.6	24555.4
20°	17669.3	17680.5	17639.4	18028.0	19544.9	22765.7	22672.3	21756.9	21424.3	21286.1
22.5°	15965.5	15902.0	15812.3	15935.6	16342.9	18233.5	19500.1	18659.4	18543.6	18390.4
25°	14295.3	14295.3	14187.0	14310.3	14426.1	14452.3	15722.6	16066.4	15842.2	15842.2
27.5°	12849.4	12774.6	12726.1	12782.1	12628.9	11892.9	12053.5	13813.4	13660.2	13566.8
30°	11414.6	11392.2	11310.0	11384.7	10816.8	9987.3	9651.0	11657.5	11818.1	11784.5
32.5°	9423.1	9512.8	9879.0	9994.8	9023.3	8354.5	8033.2	9677.2	10319.9	10293.7
35°	6404.1	6478.9	6897.3	8279.8	7480.2	7002.0	6908.5	7696.9	8754.3	8855.2
37.5°	5100.1	5088.9	5208.5	5455.1	6011.8	5896.0	5869.8	6075.3	7140.2	7185.0
40°	4203.4	4188.5	4184.7	3983.0	3844.7	4902.1	4831.1	4707.8	5630.7	5720.4
42.5°	3388.9	3403.8	3415.0	2974.2	2772.4	3781.2	3740.1	3613.1	4416.4	4521.0
45°	2660.3	2656.6	2679.0	2215.7	2159.6	2417.4	2794.8	2693.9	3332.8	3444.9
47.5°	1378.7	1427.3	1729.9	1715.0	1741.1	1715.0	2114.8	2088.6	2507.1	2686.4
50°	926.6	941.6	967.7	971.5	1371.2	1262.9	1434.8	1625.3	1756.1	2032.6
52.5°	717.4	728.6	661.3	620.2	840.7	934.1	941.6	1124.6	1225.5	1505.8
55°	399.8	448.4	482.0	485.7	463.3	691.2	687.5	833.2	911.7	1098.5
57.5°	52.3	63.5	97.1	313.9	310.1	384.8	482.0	605.3	650.1	803.3
60°	3.7	7.5	11.2	48.6	205.5	224.2	328.8	377.4	452.1	564.2
62.5°	0.0	0.0	3.7	11.2	41.1	130.8	171.9	198.0	265.3	369.9
65°	0.0	0.0	3.7	7.5	14.9	48.6	67.3	108.4	156.9	227.9
67.5°	0.0	0.0	3.7	7.5	11.2	18.7	29.9	48.6	82.2	138.2
70°	0.0	0.0	3.7	7.5	11.2	14.9	22.4	29.9	44.8	74.7
72.5°	0.0	0.0	3.7	3.7	7.5	18.7	18.7	22.4	29.9	41.1
75°	0.0	0.0	3.7	7.5	11.2	18.7	18.7	18.7	22.4	26.2
77.5°	0.0	0.0	3.7	7.5	11.2	18.7	14.9	18.7	18.7	18.7
80°	0.0	0.0	3.7	7.5	11.2	18.7	22.4	18.7	14.9	14.9
82.5°	0.0	0.0	3.7	11.2	11.2	26.2	26.2	26.2	11.2	11.2
85°	0.0	0.0	7.5	11.2	18.7	29.9	29.9	22.4	11.2	7.5
87.5°	0.0	0.0	3.7	7.5	7.5	14.9	22.4	18.7	7.5	3.7
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°
34752.0	0°	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0	34752.0
34426.9	2.5°	34703.4	34610.0	34785.6	34808.0	34733.3	34639.9	34423.2	34404.5	34027.1
33664.7	5°	34045.8	33892.6	34004.7	34079.4	34053.3	33952.4	33862.7	33780.5	33440.5
32428.0	7.5°	32820.3	32764.2	32816.5	32872.6	32980.9	32872.6	32835.2	32749.3	32413.0
31209.9	10°	31460.2	31355.6	31553.6	31527.5	31497.6	31467.7	31310.8	31325.7	30929.7
29550.9	12.5°	29790.1	29614.5	29805.0	29827.4	29805.0	29700.4	29524.8	29599.5	29237.1
27309.1	15°	27544.5	27525.8	27664.1	27753.8	27817.3	27705.2	27645.4	27682.8	27466.1
24424.6	17.5°	24787.1	25029.9	25482.0	25635.2	25639.0	25754.8	25721.2	25676.3	25515.7
21230.1	20°	21543.9	22011.0	22705.9	23419.6	23625.1	23527.9	23483.1	23565.3	23326.2
18229.7	22.5°	18551.1	18950.9	19757.9	20800.4	21401.9	21461.7	21450.5	21379.5	21286.1
15827.3	25°	16010.3	16365.3	17138.7	18091.5	19246.0	19417.9	19425.4	19403.0	19320.8
13649.0	27.5°	13865.7	14295.3	14721.3	15573.2	16802.5	17512.4	17422.7	17396.5	17366.6
11810.7	30°	11922.8	12464.5	12864.3	13394.9	14497.1	15457.4	15550.8	15505.9	15434.9
10290.0	32.5°	10383.4	10704.7	11212.8	11571.5	12363.6	13450.9	13809.6	13776.0	13712.5
8918.7	35°	9045.8	9172.8	9572.6	9972.4	10499.2	11552.9	12083.4	12008.7	11997.5
7267.2	37.5°	7450.3	7876.3	8096.7	8500.2	8870.1	9688.4	10420.7	10387.1	10390.8
5843.7	40°	6015.6	6262.2	6699.3	7039.3	7379.3	7977.1	8791.7	8814.1	8806.6
4524.7	42.5°	4618.2	4857.3	5316.9	5686.8	5989.4	6359.3	7136.5	7162.6	7196.2
3523.4	45°	3605.6	3758.8	4095.1	4479.9	4801.2	5025.4	5615.8	5783.9	5787.6
2731.3	47.5°	2798.5	2974.2	3213.3	3583.2	3897.0	4057.7	4487.4	4715.3	4704.1
2096.1	50°	2197.0	2357.6	2551.9	2843.4	3183.4	3310.4	3628.0	3852.2	3841.0
1580.5	52.5°	1681.4	1886.9	2058.7	2282.9	2615.5	2723.8	2951.7	3209.5	3172.2
1158.3	55°	1274.1	1483.3	1644.0	1830.8	2133.5	2271.7	2428.6	2634.1	2641.6
896.7	57.5°	960.2	1177.0	1322.7	1513.2	1741.1	1894.3	2013.9	2234.3	2230.6
612.8	60°	687.5	874.3	1049.9	1247.9	1423.6	1599.2	1681.4	1890.6	1898.1
433.4	62.5°	496.9	672.5	840.7	1012.6	1169.5	1341.4	1416.1	1580.5	1602.9
284.0	65°	347.5	470.8	665.1	795.8	971.5	1098.5	1195.6	1337.6	1363.8
168.1	67.5°	224.2	340.0	526.8	642.7	803.3	911.7	1012.6	1124.6	1158.3
108.4	70°	134.5	257.8	392.3	515.6	661.3	758.5	855.6	952.8	971.5
52.3	72.5°	85.9	179.3	284.0	418.5	530.6	635.2	721.1	792.1	736.1
33.6	75°	48.6	123.3	224.2	328.8	429.7	530.6	601.6	638.9	511.9
22.4	77.5°	29.9	89.7	183.1	265.3	332.5	425.9	470.8	493.2	366.2
14.9	80°	18.7	67.3	153.2	216.7	216.7	313.9	366.2	384.8	265.3
11.2	82.5°	14.9	48.6	119.6	164.4	145.7	235.4	287.7	291.4	186.8
7.5	85°	11.2	37.4	74.7	108.4	100.9	164.4	168.1	186.8	123.3
7.5	87.5°	7.5	22.4	44.8	63.5	56.0	78.5	89.7	100.9	67.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34752.0
33731.9
33167.8
32342.0
30795.2
29132.5
27204.5
25276.5
23154.3
21106.8
19044.3
17191.0
15345.3
13544.3
11874.2
10271.3
8675.9
7084.2
5690.5
4663.0
3841.0
3175.9
2641.6
2223.1
1879.4
1595.4
1356.3
1154.5
956.5
683.8
485.7
343.7
246.6
171.9
112.1
59.8
0.0

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