

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: P638773

Luminaire Tested: **EPH-VN-08-E-940-U-66-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638773
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-940-U-66-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41716.5 lumens
Efficiency: N/A
Efficacy: 66.6 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): 626.8
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



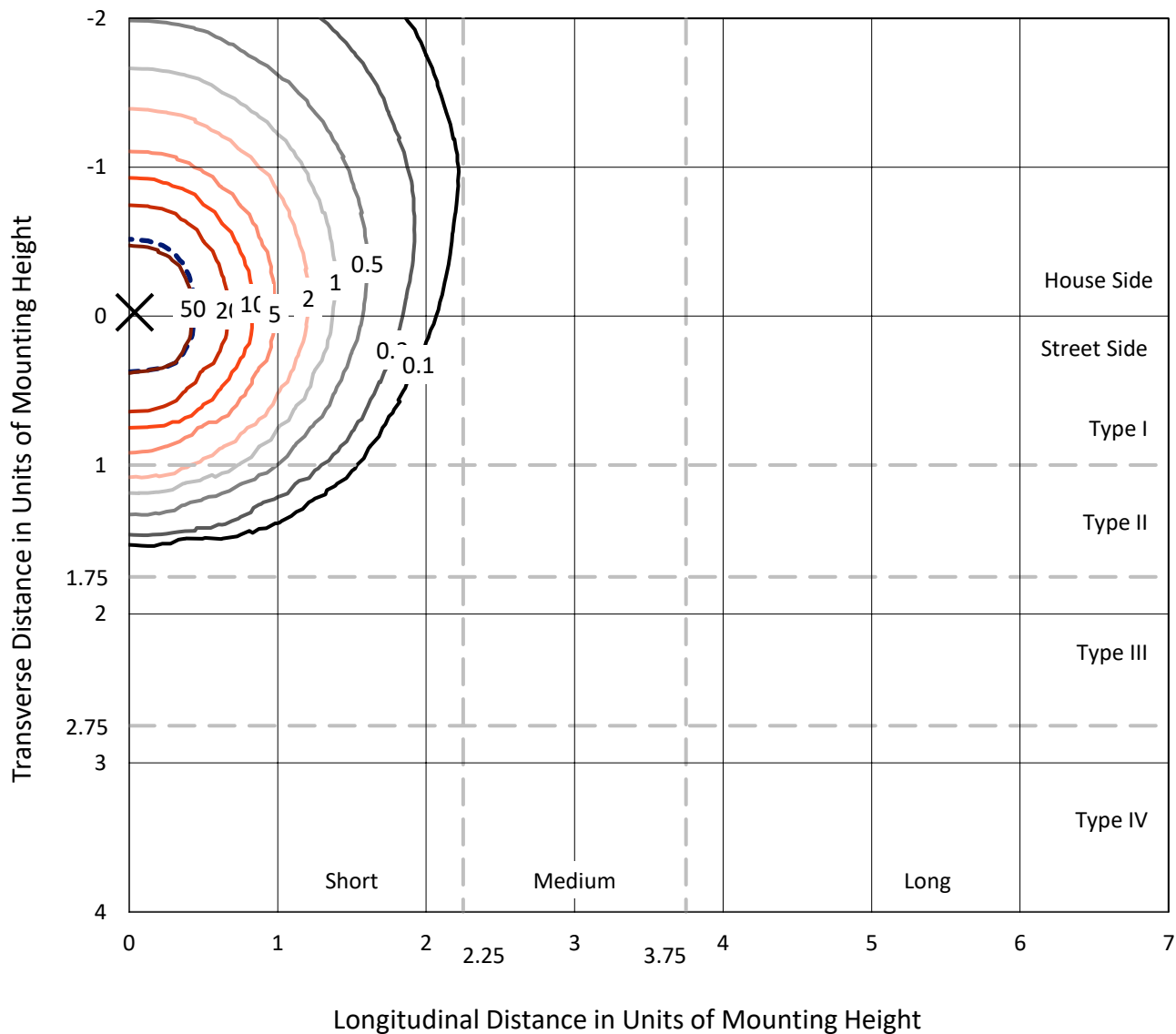
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

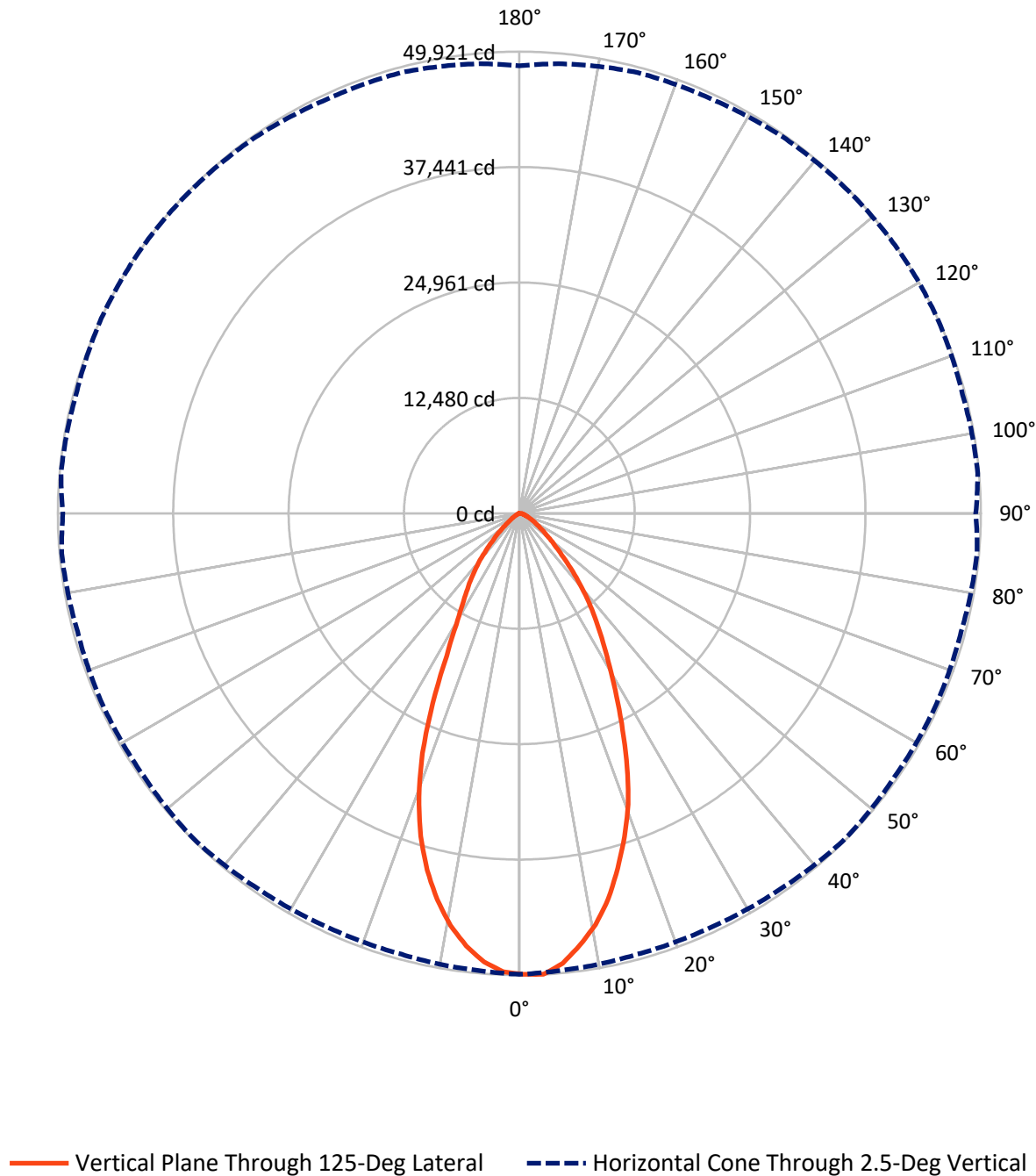


Based on 20 foot mounting height. Maximum calculated value = 124.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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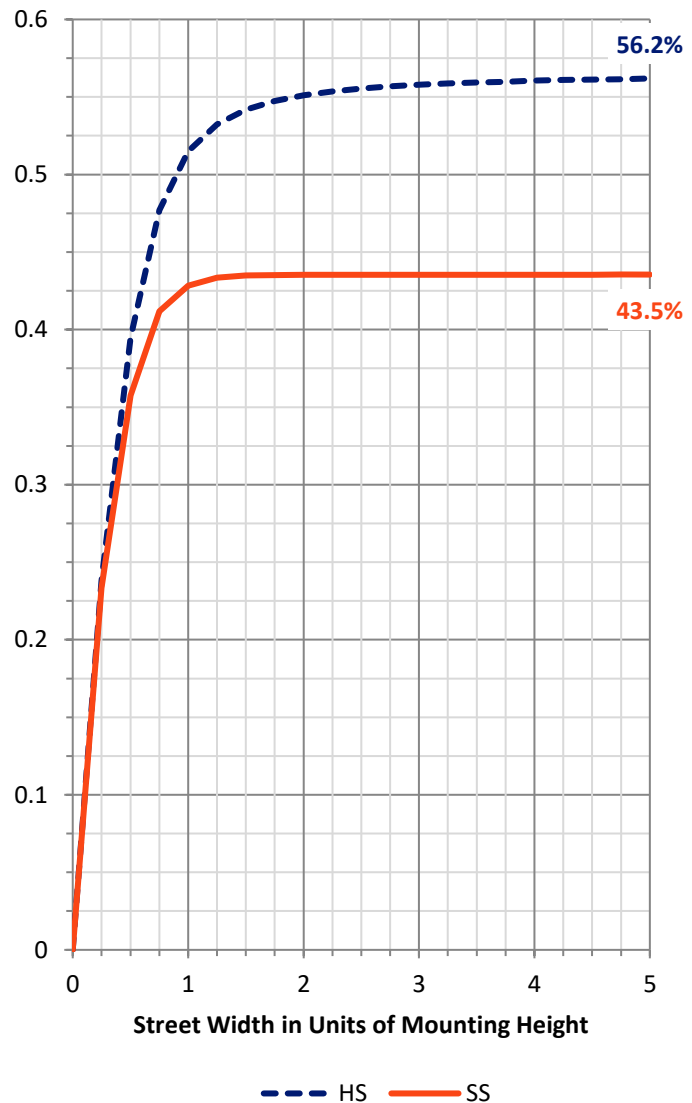
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23671.6	0.0	23671.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	18044.9	0.0	18044.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	41716.5	0.0	41716.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4525.8	10.8
10°-20°	10788.4	25.9
20°-30°	10987.8	26.3
30°-40°	8193.5	19.6
40°-50°	4280.5	10.3
50°-60°	1800.4	4.3
60°-70°	735.3	1.8
70°-80°	309.4	0.7
80°-90°	95.3	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°	41716.5	100.0
0°-180°	41716.5	100.0

Coefficient of Utilization



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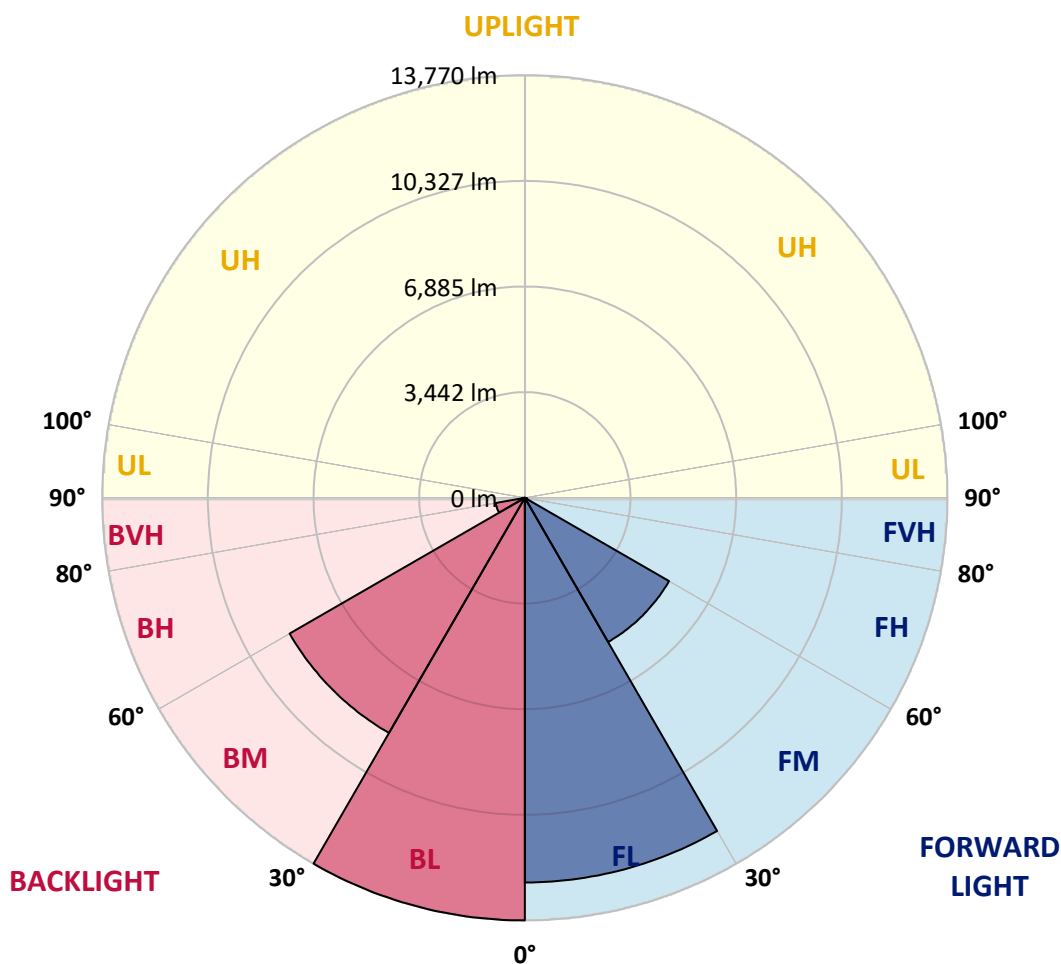
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12532.1	30.0			
FM	(30°-60°)	5425.4	13.0			
FH	(60°-80°)	78.5	0.2			G0/660
FVH	(80°-90°)	8.9	0.0			G0/10
BL	(0°-30°)	13769.8	33.0	B5		
BM	(30°-60°)	8849.1	21.2	B5		
BH	(60°-80°)	966.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	86.5	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°	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1
2.5°	49846.4	49642.8	49353.4	49326.6	49476.7	49803.6	49594.6	49605.3	49476.7	49696.4
5°	49064.1	48871.1	48672.9	48410.3	48630.0	48769.3	48662.2	48544.3	48378.1	48592.5
7.5°	47585.1	47477.9	47183.2	47065.3	47199.2	47354.6	47124.2	47092.1	46861.6	47140.3
10°	45323.7	45280.8	44991.5	44921.8	45039.7	45275.5	45173.7	45152.2	45007.5	44980.7
12.5°	42976.6	42810.5	42451.5	42430.0	42606.9	42960.5	42687.2	42424.7	42505.0	42574.7
15°	36932.0	36755.2	37644.7	39043.3	39777.5	39750.7	39831.1	39514.9	39418.4	39450.6
17.5°	29360.2	29060.1	29381.6	31546.5	35035.0	37060.6	36503.3	35822.8	35458.4	35217.2
20°	25341.2	25357.3	25298.3	25855.6	28031.2	32650.4	32516.5	31203.6	30726.7	30528.4
22.5°	22897.6	22806.5	22677.9	22854.8	23438.9	26150.4	27966.9	26761.2	26595.1	26375.4
25°	20502.3	20502.3	20346.9	20523.7	20689.9	20727.4	22549.3	23042.3	22720.8	22720.8
27.5°	18428.5	18321.3	18251.7	18332.0	18112.3	17056.7	17287.1	19811.0	19591.3	19457.4
30°	16370.8	16338.6	16220.7	16327.9	15513.4	14323.7	13841.5	16719.1	16949.5	16901.3
32.5°	13514.6	13643.2	14168.3	14334.5	12941.2	11982.0	11521.2	13879.0	14800.7	14763.2
35°	9184.8	9291.9	9892.1	11874.8	10728.1	10042.2	9908.2	11038.9	12555.4	12700.1
37.5°	7314.6	7298.5	7470.0	7823.7	8622.1	8456.0	8418.5	8713.2	10240.4	10304.7
40°	6028.5	6007.1	6001.7	5712.4	5514.1	7030.6	6928.8	6751.9	8075.5	8204.1
42.5°	4860.3	4881.8	4897.8	4265.5	3976.1	5423.0	5364.0	5181.8	6334.0	6484.0
45°	3815.4	3810.0	3842.2	3177.7	3097.3	3467.1	4008.3	3863.6	4779.9	4940.7
47.5°	1977.4	2047.0	2481.1	2459.6	2497.1	2459.6	3033.0	2995.5	3595.7	3852.9
50°	1329.0	1350.4	1387.9	1393.3	1966.6	1811.2	2057.7	2331.0	2518.6	2915.1
52.5°	1028.9	1044.9	948.5	889.5	1205.7	1339.7	1350.4	1613.0	1757.6	2159.5
55°	573.4	643.0	691.3	696.6	664.5	991.4	986.0	1195.0	1307.5	1575.5
57.5°	75.0	91.1	139.3	450.1	444.8	551.9	691.3	868.1	932.4	1152.1
60°	5.4	10.7	16.1	69.7	294.7	321.5	471.6	541.2	648.4	809.2
62.5°	0.0	0.0	5.4	16.1	58.9	187.6	246.5	284.0	380.5	530.5
65°	0.0	0.0	5.4	10.7	21.4	69.7	96.5	155.4	225.1	326.9
67.5°	0.0	0.0	5.4	10.7	16.1	26.8	42.9	69.7	117.9	198.3
70°	0.0	0.0	5.4	10.7	16.1	21.4	32.2	42.9	64.3	107.2
72.5°	0.0	0.0	5.4	5.4	10.7	26.8	26.8	32.2	42.9	58.9
75°	0.0	0.0	5.4	10.7	16.1	26.8	26.8	26.8	32.2	37.5
77.5°	0.0	0.0	5.4	10.7	16.1	26.8	21.4	26.8	26.8	26.8
80°	0.0	0.0	5.4	10.7	16.1	26.8	32.2	26.8	21.4	21.4
82.5°	0.0	0.0	5.4	16.1	16.1	37.5	37.5	37.5	16.1	16.1
85°	0.0	0.0	10.7	16.1	26.8	42.9	42.9	32.2	16.1	10.7
87.5°	0.0	0.0	5.4	10.7	10.7	21.4	32.2	26.8	10.7	5.4
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°
49841.1	0°	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1	49841.1
49374.9	2.5°	49771.4	49637.4	49889.3	49921.4	49814.3	49680.3	49369.5	49342.7	48801.5
48281.7	5°	48828.3	48608.6	48769.3	48876.5	48839.0	48694.3	48565.7	48447.8	47960.2
46508.0	7.5°	47070.6	46990.3	47065.3	47145.7	47301.1	47145.7	47092.1	46968.8	46486.5
44761.0	10°	45120.1	44970.0	45254.0	45216.5	45173.7	45130.8	44905.7	44927.2	44359.1
42381.8	12.5°	42724.7	42472.9	42746.2	42778.3	42746.2	42596.1	42344.3	42451.5	41931.7
39166.6	15°	39504.2	39477.4	39675.7	39804.3	39895.4	39734.6	39648.9	39702.4	39391.6
35029.7	17.5°	35549.5	35897.8	36546.2	36765.9	36771.3	36937.4	36889.1	36824.8	36594.4
30448.0	20°	30898.1	31568.0	32564.7	33588.2	33882.9	33743.6	33679.3	33797.2	33454.2
26145.0	22.5°	26605.8	27179.2	28336.7	29831.8	30694.5	30780.2	30764.2	30662.4	30528.4
22699.4	25°	22961.9	23471.0	24580.3	25946.7	27602.6	27849.1	27859.8	27827.6	27709.7
19575.3	27.5°	19886.1	20502.3	21113.2	22335.0	24098.0	25116.1	24987.5	24950.0	24907.1
16938.8	30°	17099.5	17876.6	18449.9	19210.9	20791.7	22168.9	22302.8	22238.5	22136.7
14757.8	32.5°	14891.8	15352.6	16081.4	16595.8	17731.9	19291.2	19805.7	19757.4	19666.4
12791.2	35°	12973.4	13155.6	13728.9	14302.3	15057.9	16569.0	17330.0	17222.8	17206.7
10422.6	37.5°	10685.2	11296.1	11612.3	12191.0	12721.5	13895.1	14945.4	14897.1	14902.5
8381.0	40°	8627.5	8981.1	9608.1	10095.8	10583.4	11440.8	12609.0	12641.1	12630.4
6489.4	42.5°	6623.3	6966.3	7625.4	8155.9	8590.0	9120.5	10235.1	10272.6	10320.8
5053.2	45°	5171.1	5390.8	5873.1	6425.1	6885.9	7207.4	8054.1	8295.2	8300.6
3917.2	47.5°	4013.7	4265.5	4608.5	5139.0	5589.1	5819.5	6435.8	6762.7	6746.6
3006.2	50°	3150.9	3381.3	3660.0	4078.0	4565.6	4747.8	5203.3	5524.8	5508.7
2266.7	52.5°	2411.4	2706.1	2952.6	3274.2	3751.1	3906.5	4233.4	4603.1	4549.5
1661.2	55°	1827.3	2127.4	2357.8	2625.8	3059.8	3258.1	3483.1	3777.9	3788.6
1286.1	57.5°	1377.2	1688.0	1897.0	2170.3	2497.1	2716.9	2888.3	3204.5	3199.1
878.8	60°	986.0	1253.9	1505.8	1789.8	2041.7	2293.5	2411.4	2711.5	2722.2
621.6	62.5°	712.7	964.6	1205.7	1452.2	1677.3	1923.8	2030.9	2266.7	2298.9
407.3	65°	498.4	675.2	953.8	1141.4	1393.3	1575.5	1714.8	1918.4	1955.9
241.1	67.5°	321.5	487.6	755.6	921.7	1152.1	1307.5	1452.2	1613.0	1661.2
155.4	70°	192.9	369.7	562.7	739.5	948.5	1087.8	1227.1	1366.5	1393.3
75.0	72.5°	123.2	257.2	407.3	600.2	760.9	911.0	1034.2	1136.0	1055.7
48.2	75°	69.7	176.8	321.5	471.6	616.2	760.9	862.7	916.3	734.1
32.2	77.5°	42.9	128.6	262.6	380.5	476.9	610.9	675.2	707.3	525.2
21.4	80°	26.8	96.5	219.7	310.8	310.8	450.1	525.2	551.9	380.5
16.1	82.5°	21.4	69.7	171.5	235.8	209.0	337.6	412.6	418.0	267.9
10.7	85°	16.1	53.6	107.2	155.4	144.7	235.8	241.1	267.9	176.8
10.7	87.5°	10.7	32.2	64.3	91.1	80.4	112.5	128.6	144.7	96.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
49841.1
48378.1
47569.0
46384.7
44166.2
41781.6
39016.5
36251.5
33207.7
30271.2
27313.2
24655.3
22008.1
19425.2
17029.9
14731.0
12442.9
10160.1
8161.3
6687.6
5508.7
4554.9
3788.6
3188.4
2695.4
2288.2
1945.2
1655.8
1371.8
980.6
696.6
493.0
353.7
246.5
160.8
85.7
0.0

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