

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: P638705

Luminaire Tested: **EPH-VN-07-E-930-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638705
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-930-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33937.4 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

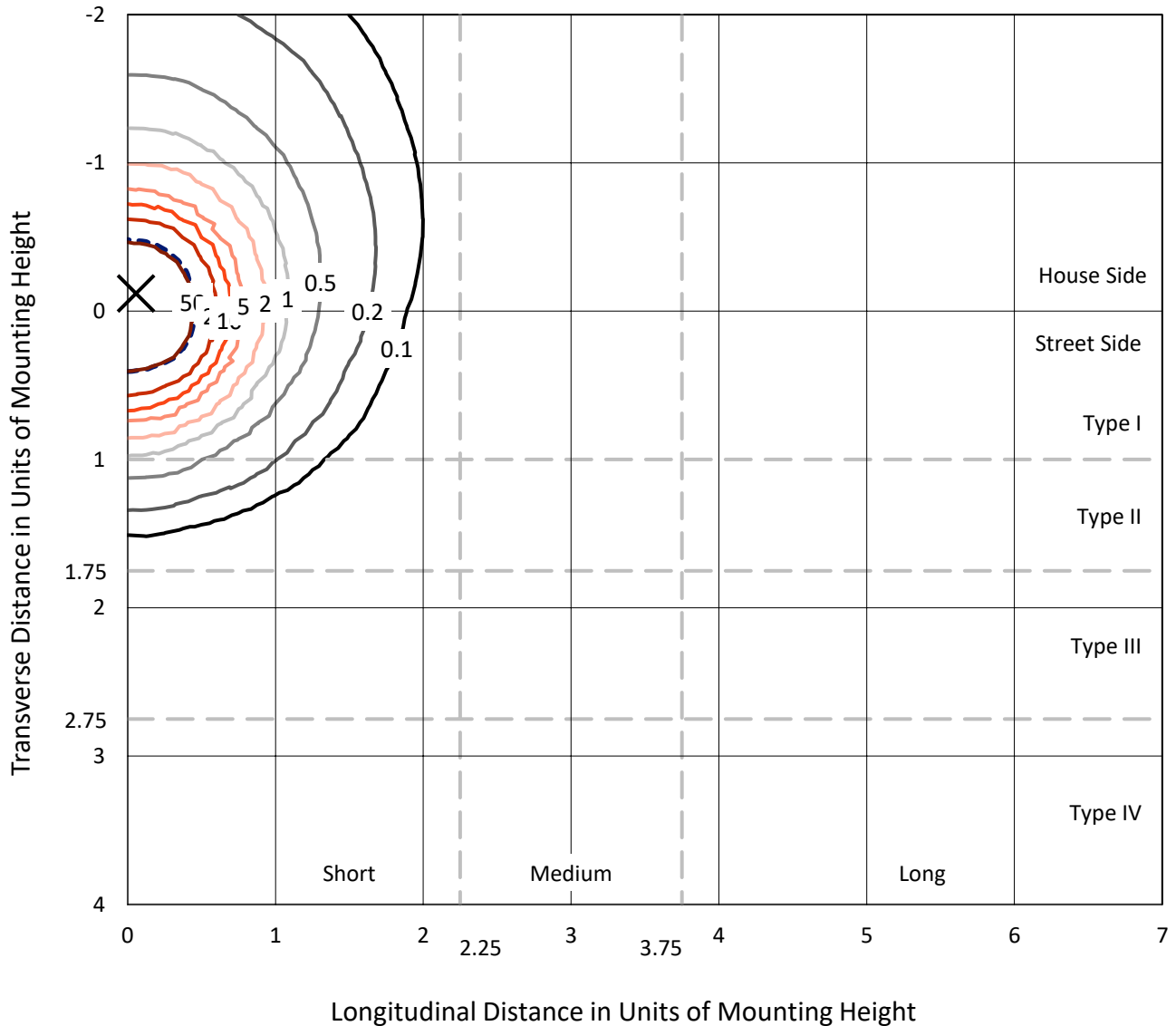
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

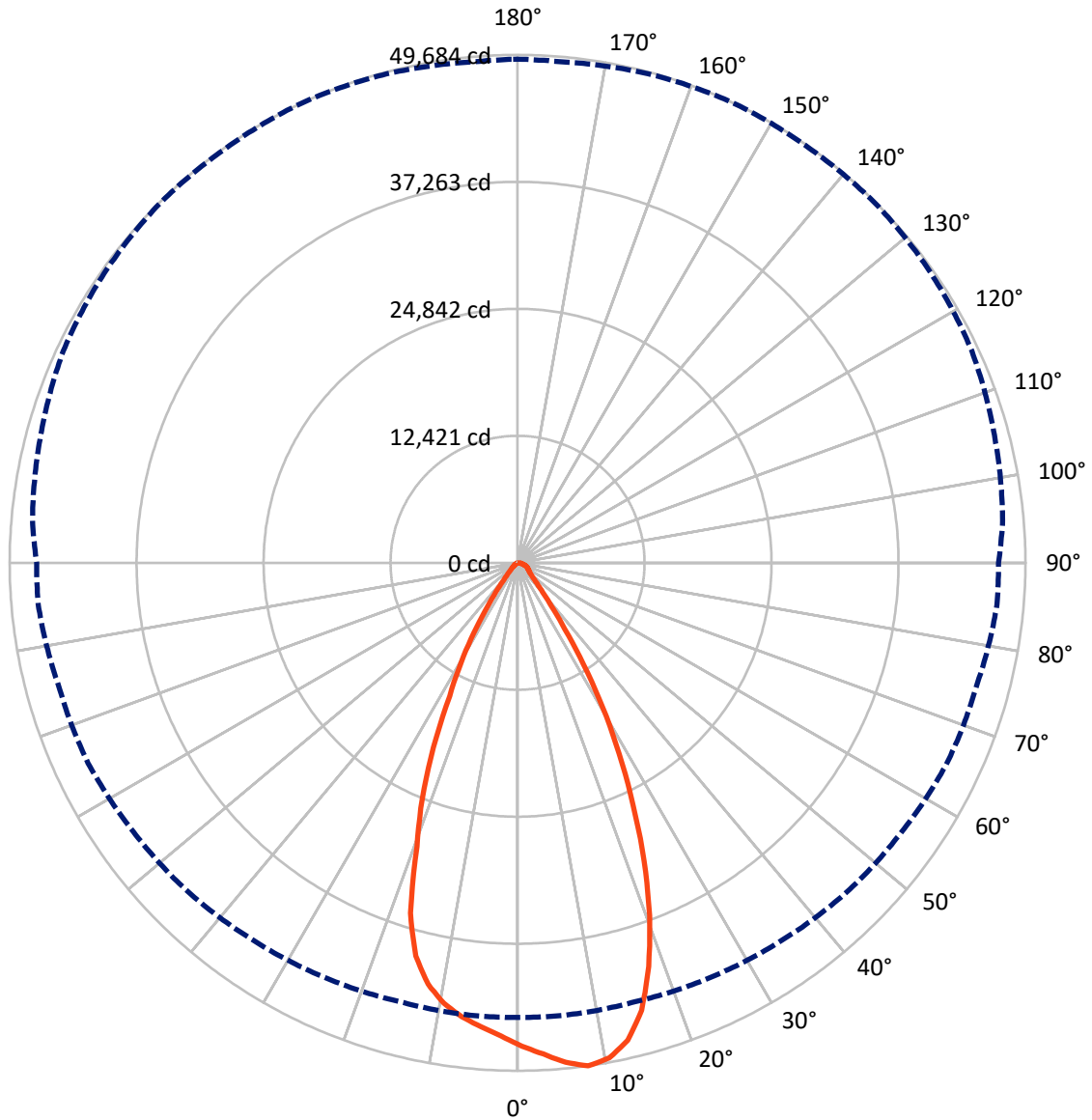
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 120.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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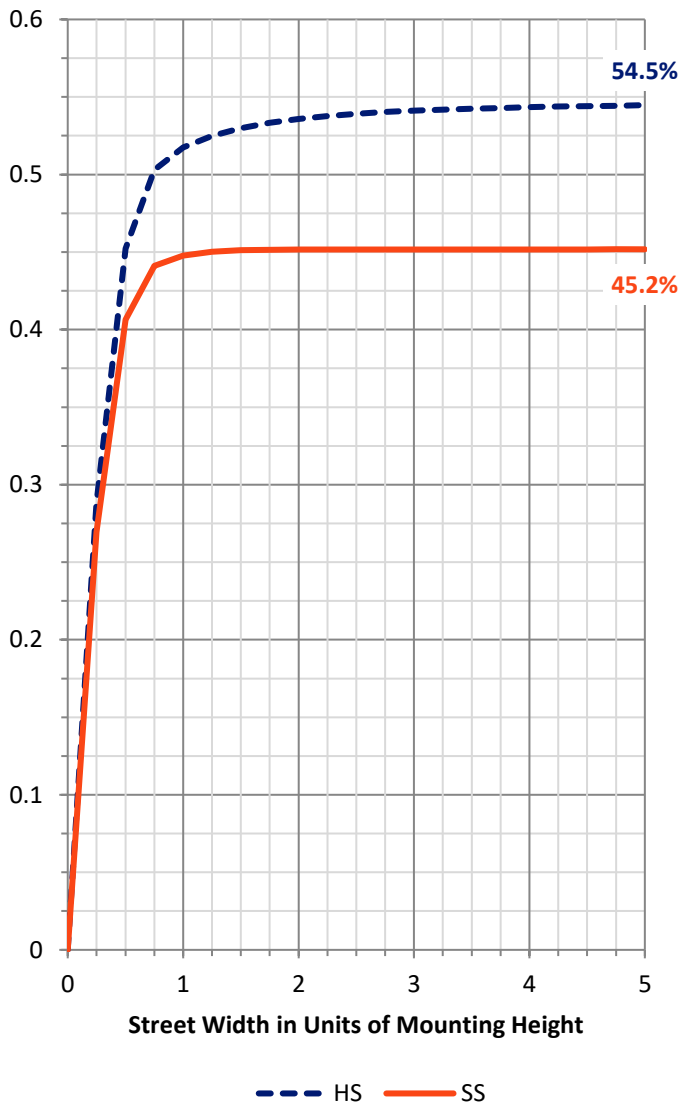
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18734.7	0.0	18734.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15202.7	0.0	15202.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	33937.4	0.0	33937.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4508.2	13.3
10°-20°	11689.8	34.4
20°-30°	10711.1	31.6
30°-40°	4327.3	12.8
40°-50°	1269.4	3.7
50°-60°	709.8	2.1
60°-70°	431.1	1.3
70°-80°	219.0	0.6
80°-90°	71.6	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°	33937.4	100.0
0°-180°	33937.4	100.0

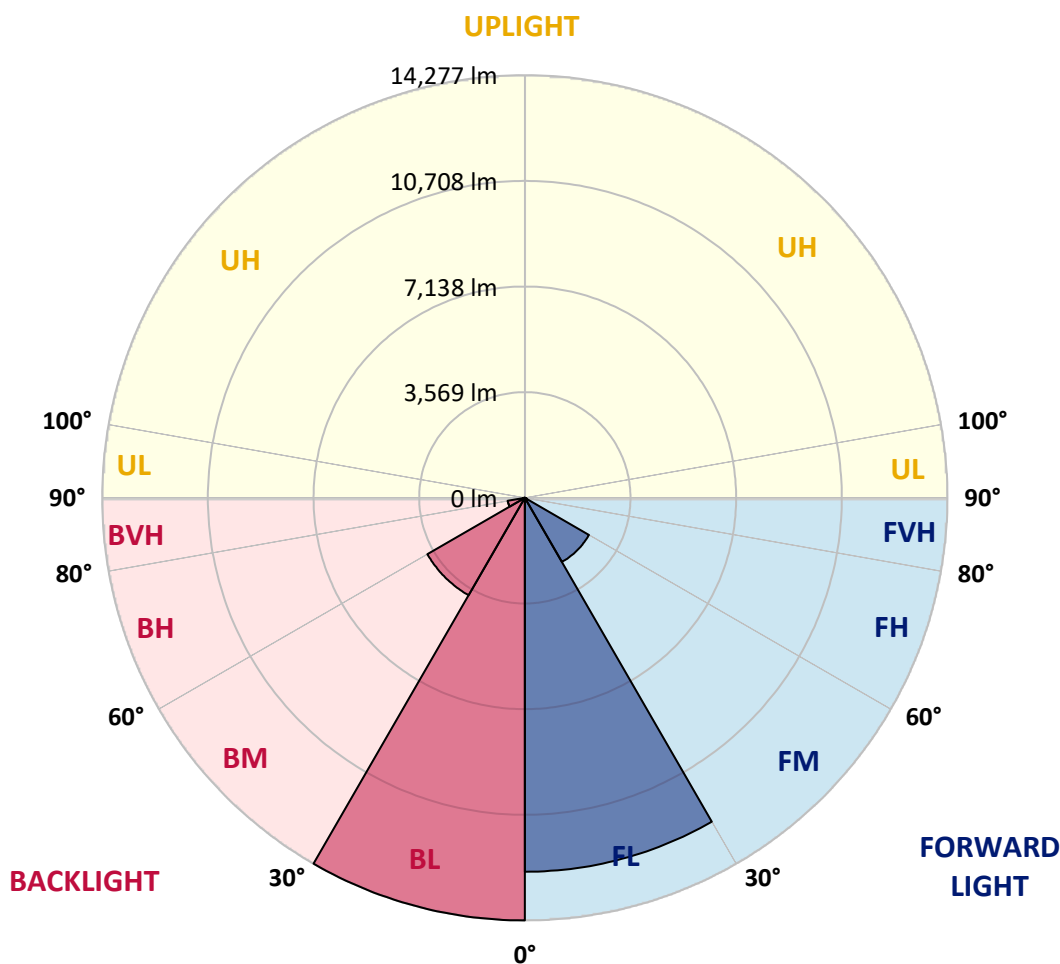


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12632.4	37.2			
FM (30°-60°)	2503.5	7.4			
FH (60°-80°)	60.6	0.2			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	14276.8	42.1	B5		
BM (30°-60°)	3803.0	11.2	B3/5000		
BH (60°-80°)	589.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	65.4	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°	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4
2.5°	46252.1	46408.7	46095.6	46303.0	46463.4	46846.9	46878.3	47011.3	47058.3	47406.6
5°	45375.5	45496.8	45242.5	45520.3	45747.3	46087.8	46350.0	46717.8	46921.3	47332.2
7.5°	44463.7	44491.1	44440.2	44733.7	45074.2	45543.8	45868.6	46350.0	46475.2	47062.2
10°	43360.1	43160.6	43258.4	43688.9	44197.6	44917.7	45140.7	45622.1	45845.1	46443.9
12.5°	41599.1	41700.9	41579.6	42127.4	42550.1	43368.0	43602.8	44088.0	44514.6	45042.9
15°	39118.0	39059.3	39305.9	39732.4	40190.3	40839.9	41219.5	41747.8	42072.6	42620.5
17.5°	33541.5	33741.1	34758.6	35826.9	36766.1	37525.3	37979.3	38417.6	38652.4	39247.2
20°	28966.8	28716.3	28853.3	29455.9	32128.8	33291.0	33768.5	33874.1	33972.0	34441.6
22.5°	23852.0	23769.8	24227.7	24904.7	25538.7	28219.3	28868.9	28622.4	28825.9	29268.1
25°	17711.9	18126.7	18533.7	19833.0	20654.8	21969.7	23202.4	23311.9	23386.3	23664.1
27.5°	14416.9	14272.1	14264.2	14628.2	15841.3	16937.1	17985.8	18228.5	18185.4	18451.5
30°	11333.1	11286.2	11121.8	11207.9	11086.6	12061.0	12554.1	13552.0	13497.2	13505.0
32.5°	8175.0	7998.9	7932.4	8061.5	7936.3	7846.3	8276.8	9403.8	9384.3	9462.5
35°	4946.5	4923.0	4977.8	5091.3	4840.8	4833.0	4923.0	5983.5	6112.7	6237.9
37.5°	2731.5	2708.1	2751.1	3169.8	3087.6	3013.3	3036.8	3596.4	3968.2	4062.1
40°	1800.2	1796.2	1827.5	1901.9	2042.8	2015.4	2027.1	2277.6	2629.8	2712.0
42.5°	1205.3	1209.2	1228.8	1314.9	1334.5	1475.3	1451.9	1510.6	1839.3	1909.7
45°	962.7	958.8	970.5	931.4	954.9	1099.7	1115.3	1119.2	1401.0	1444.0
47.5°	759.2	759.2	770.9	720.1	708.3	798.3	880.5	892.2	1119.2	1177.9
50°	532.2	532.2	590.9	567.4	594.8	622.2	712.2	724.0	915.7	978.3
52.5°	391.3	399.2	407.0	410.9	500.9	497.0	575.3	630.1	692.7	802.2
55°	297.4	305.2	285.7	305.2	371.8	414.8	430.5	508.7	551.8	673.1
57.5°	195.7	215.2	199.6	234.8	250.5	320.9	344.4	418.7	446.1	551.8
60°	27.4	31.3	50.9	164.4	176.1	211.3	266.1	332.6	360.0	450.0
62.5°	3.9	3.9	11.7	27.4	117.4	140.9	199.6	230.9	266.1	336.5
65°	0.0	0.0	3.9	7.8	23.5	82.2	101.7	125.2	183.9	242.6
67.5°	0.0	0.0	3.9	7.8	11.7	27.4	43.0	82.2	105.7	168.3
70°	0.0	0.0	3.9	7.8	11.7	15.7	23.5	31.3	62.6	97.8
72.5°	0.0	0.0	3.9	7.8	11.7	15.7	19.6	23.5	27.4	62.6
75°	0.0	0.0	3.9	7.8	11.7	19.6	23.5	23.5	23.5	27.4
77.5°	0.0	0.0	3.9	7.8	15.7	23.5	27.4	23.5	19.6	19.6
80°	0.0	0.0	3.9	11.7	19.6	27.4	31.3	23.5	15.7	11.7
82.5°	0.0	0.0	3.9	11.7	19.6	27.4	31.3	27.4	15.7	11.7
85°	0.0	0.0	3.9	11.7	15.7	19.6	31.3	27.4	15.7	7.8
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	15.7	11.7	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°
47277.4	0°	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4	47277.4
47398.7	2.5°	47750.9	47927.0	48236.2	48322.3	48588.4	48283.2	48114.9	48130.5	47766.6
47281.3	5°	47750.9	48154.0	48694.1	48952.3	49148.0	49132.4	49089.3	48979.7	48713.6
47046.5	7.5°	47625.7	48283.2	49026.7	49371.1	49605.9	49586.3	49684.1	49508.0	49183.2
46627.8	10°	47222.6	47794.0	48709.7	48991.5	49371.1	49378.9	49257.6	49292.8	48713.6
45097.7	12.5°	45954.7	46400.8	47203.1	47524.0	47985.7	48060.1	47927.0	47876.2	47328.3
42589.2	15°	43501.0	43759.3	44565.5	44886.4	45344.2	45281.6	45414.7	45359.9	44878.5
39200.2	17.5°	39912.5	39994.6	40839.9	41109.9	41540.4	41708.7	41509.1	41763.5	41348.7
34523.7	20°	34766.4	35208.6	36159.5	36574.4	36824.8	37126.1	36863.9	37149.6	36664.4
28849.4	22.5°	29545.9	29808.1	30669.1	31267.8	31733.5	31792.2	31694.4	31894.0	31240.4
23848.1	25°	23844.2	24278.5	24959.5	25742.1	26200.0	26481.8	26227.4	26356.5	26250.9
18494.6	27.5°	18807.7	19195.1	19707.7	20290.8	20979.6	21347.4	21143.9	21363.1	20846.5
13790.7	30°	13802.5	13998.1	14577.3	15195.6	15950.9	16397.0	16416.6	16639.6	16334.4
9662.1	32.5°	9732.6	9904.7	10260.9	10671.8	11391.8	11888.8	11810.6	11841.9	11654.0
6296.6	35°	6327.9	6558.8	6813.2	7008.8	7443.2	7991.1	7948.1	7908.9	7779.8
4140.3	37.5°	4230.4	4320.4	4461.2	4637.3	4919.1	5263.5	5377.0	5236.1	5181.3
2794.1	40°	2860.7	3017.2	3111.1	3244.2	3377.2	3666.8	3745.1	3717.7	3662.9
1956.7	42.5°	2031.0	2152.4	2269.8	2398.9	2469.3	2649.4	2802.0	2758.9	2735.4
1487.1	45°	1541.9	1651.4	1788.4	1886.2	1956.7	2062.3	2207.1	2222.8	2187.6
1193.6	47.5°	1236.6	1334.5	1444.0	1565.3	1647.5	1714.1	1839.3	1886.2	1862.8
1005.7	50°	1048.8	1123.1	1228.8	1350.1	1440.1	1498.8	1608.4	1659.3	1643.6
841.4	52.5°	892.2	982.3	1080.1	1181.8	1291.4	1350.1	1451.9	1526.2	1514.5
696.6	55°	739.6	857.0	958.8	1060.5	1185.8	1244.5	1334.5	1432.3	1412.7
590.9	57.5°	645.7	743.5	849.2	947.0	1080.1	1158.4	1240.5	1342.3	1338.4
485.3	60°	540.0	637.9	755.3	837.5	978.3	1087.9	1162.3	1267.9	1275.8
367.9	62.5°	430.5	551.8	641.8	755.3	884.4	1013.6	1084.0	1189.7	1228.8
281.8	65°	320.9	454.0	555.7	669.2	790.5	935.3	997.9	1103.6	1142.7
203.5	67.5°	238.7	340.5	469.6	567.4	704.4	829.6	904.0	1001.8	1029.2
121.3	70°	180.0	262.2	391.3	477.4	618.3	720.1	794.4	868.8	904.0
82.2	72.5°	105.7	195.7	309.2	410.9	532.2	618.3	673.1	731.8	755.3
39.1	75°	74.4	148.7	242.6	340.5	430.5	500.9	551.8	602.7	626.1
19.6	77.5°	39.1	109.6	191.8	273.9	336.5	395.3	446.1	485.3	500.9
15.7	80°	23.5	78.3	156.5	215.2	258.3	309.2	360.0	387.4	383.5
11.7	82.5°	15.7	62.6	113.5	156.5	187.8	227.0	262.2	281.8	281.8
7.8	85°	11.7	43.0	78.3	121.3	125.2	156.5	164.4	183.9	187.8
7.8	87.5°	7.8	27.4	43.0	70.4	66.5	82.2	86.1	97.8	105.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
47277.4
47473.1
48799.7
49257.6
48545.4
47203.1
45031.1
41246.9
36625.2
31150.4
26184.4
20979.6
16389.2
11759.7
7666.3
5169.6
3670.7
2715.9
2183.7
1851.0
1639.7
1506.6
1412.7
1334.5
1275.8
1224.9
1138.8
1029.2
896.2
747.5
618.3
497.0
379.6
277.8
183.9
101.7
0.0

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