

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: P638706

Luminaire Tested: **EPH-VN-08-D-930-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638706
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-930-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33514.3 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

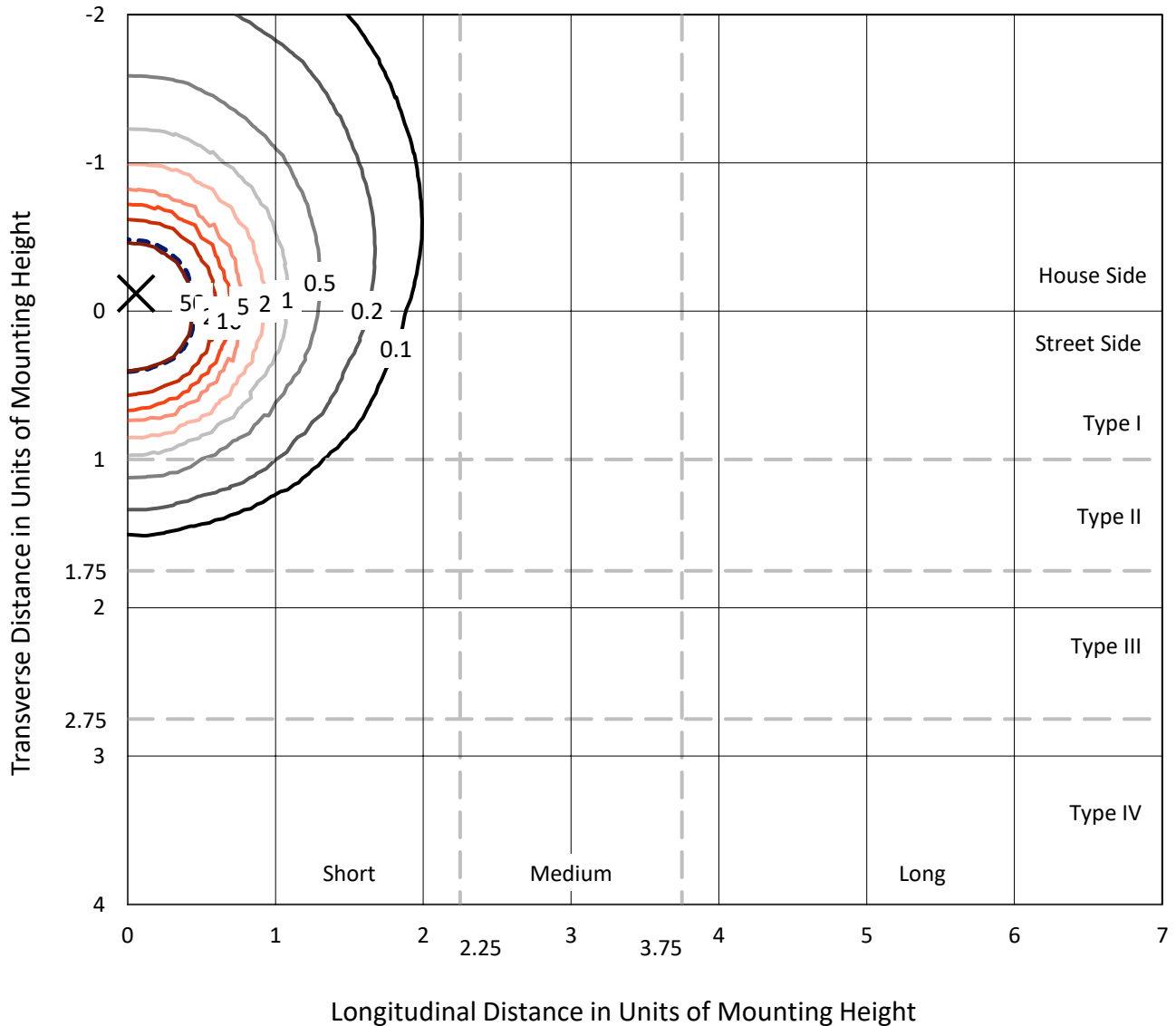
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

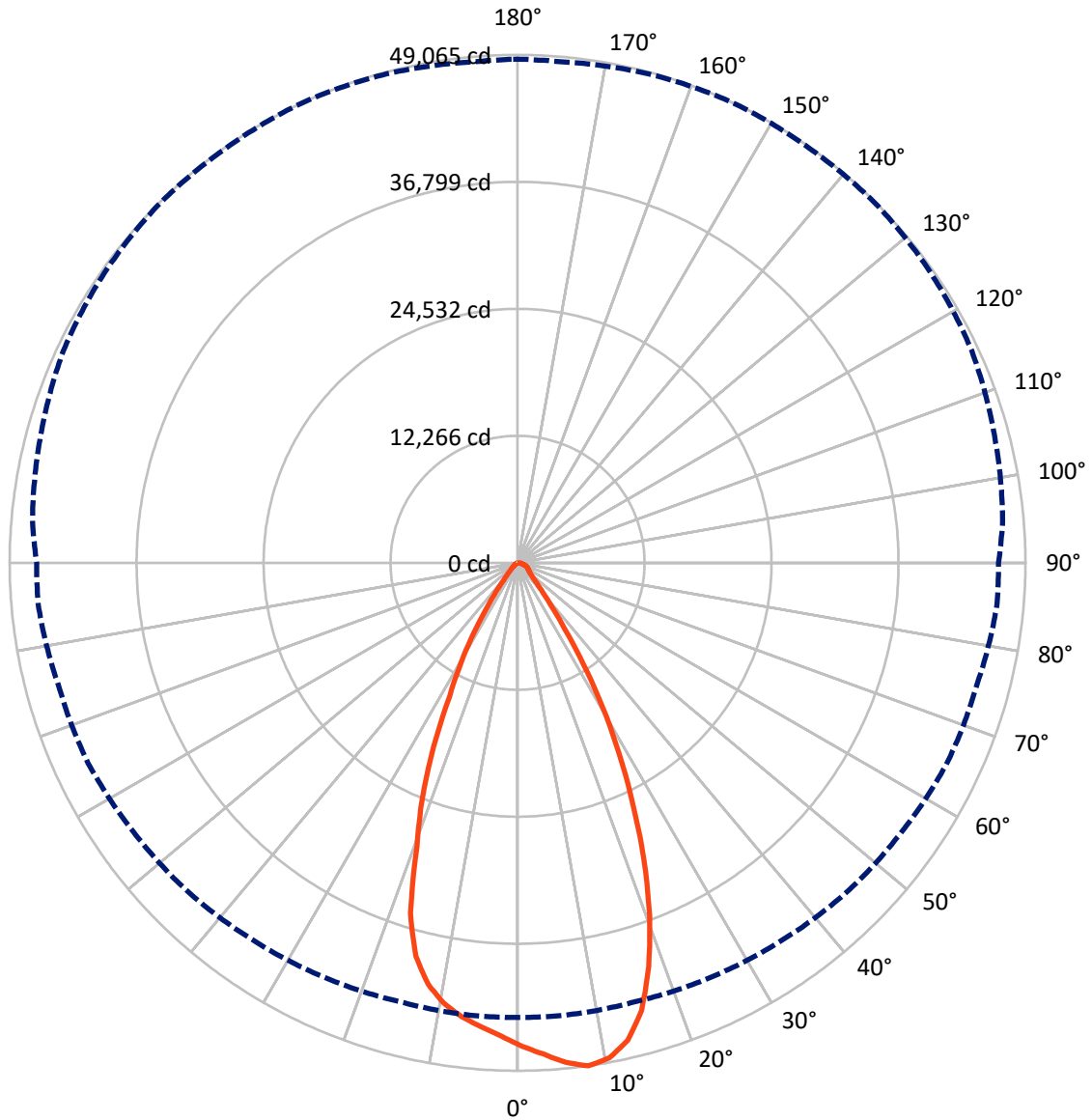
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 118.6 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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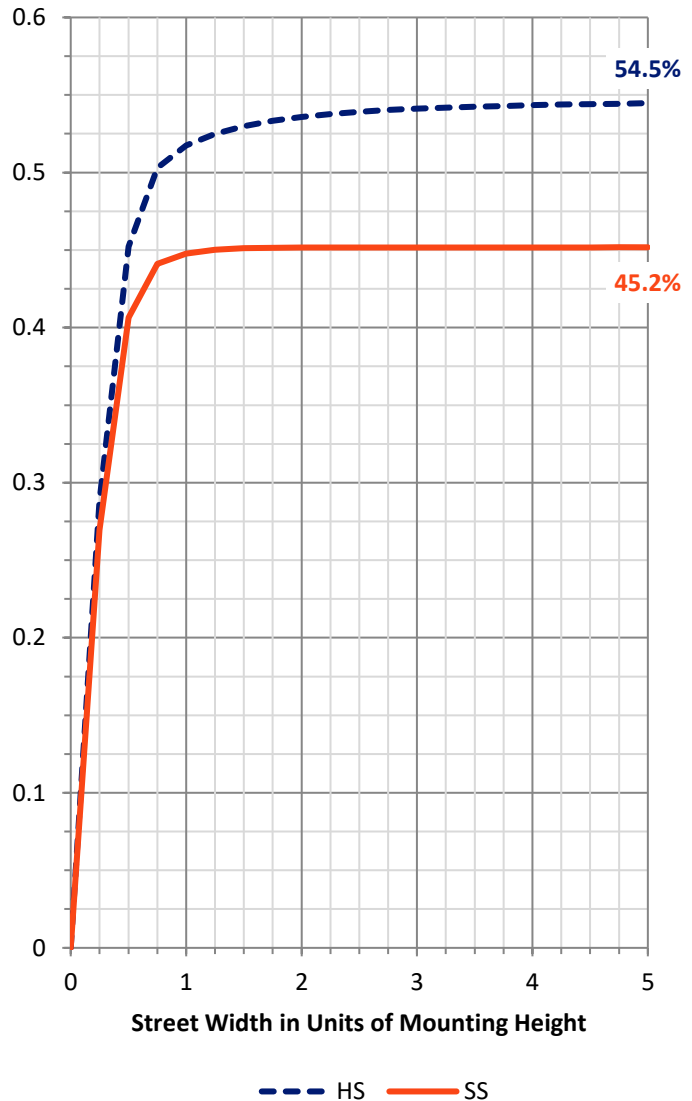
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18501.1	0.0	18501.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15013.2	0.0	15013.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	33514.3	0.0	33514.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4452.0	13.3
10°-20°	11544.1	34.4
20°-30°	10577.6	31.6
30°-40°	4273.3	12.8
40°-50°	1253.6	3.7
50°-60°	700.9	2.1
60°-70°	425.7	1.3
70°-80°	216.3	0.6
80°-90°	70.7	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°	33514.3	100.0
0°-180°	33514.3	100.0

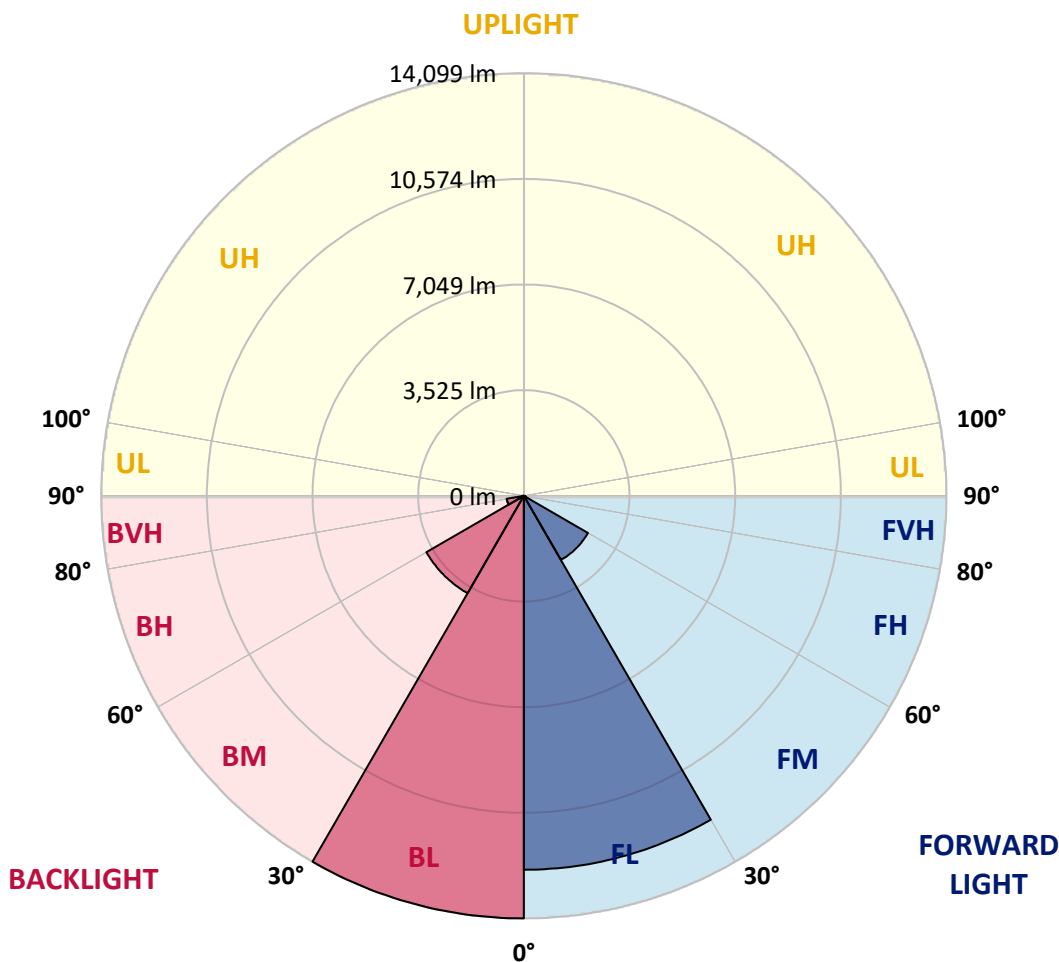


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12474.9	37.2			
FM (30°-60°)	2472.3	7.4			
FH (60°-80°)	59.9	0.2			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	14098.8	42.1	B5		
BM (30°-60°)	3755.6	11.2	B3/5000		
BH (60°-80°)	582.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	64.6	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°	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0
2.5°	45675.5	45830.1	45520.9	45725.7	45884.2	46262.9	46293.8	46425.2	46471.6	46815.5
5°	44809.8	44929.6	44678.4	44952.8	45177.0	45513.2	45772.1	46135.4	46336.3	46742.1
7.5°	43909.4	43936.4	43886.2	44176.0	44512.2	44976.0	45296.8	45772.1	45895.8	46475.5
10°	42819.6	42622.5	42719.1	43144.2	43646.6	44357.7	44577.9	45053.3	45273.6	45864.9
12.5°	41080.5	41181.0	41061.2	41602.2	42019.6	42827.3	43059.2	43538.4	43959.6	44481.3
15°	38630.4	38572.4	38815.9	39237.1	39689.2	40330.8	40705.6	41227.4	41548.1	42089.2
17.5°	33123.3	33320.4	34325.2	35380.2	36307.7	37057.5	37505.8	37938.6	38170.5	38757.9
20°	28605.6	28358.3	28493.6	29088.7	31728.2	32876.0	33347.5	33451.8	33548.4	34012.2
22.5°	23554.6	23473.5	23925.6	24594.2	25220.3	27867.5	28509.0	28265.5	28466.5	28903.2
25°	17491.1	17900.7	18302.7	19585.7	20397.3	21695.8	22913.1	23021.3	23094.7	23369.1
27.5°	14237.1	14094.1	14086.4	14445.8	15643.8	16725.9	17761.6	18001.2	17958.7	18221.5
30°	11191.8	11145.5	10983.1	11068.2	10948.4	11910.6	12397.6	13383.0	13328.9	13336.7
32.5°	8073.1	7899.2	7833.5	7961.0	7837.4	7748.5	8173.6	9286.6	9267.3	9344.6
35°	4884.8	4861.6	4915.7	5027.8	4780.5	4772.8	4861.6	5908.9	6036.5	6160.1
37.5°	2697.5	2674.3	2716.8	3130.3	3049.2	2975.7	2998.9	3551.6	3918.7	4011.4
40°	1777.7	1773.8	1804.8	1878.2	2017.3	1990.3	2001.9	2249.2	2597.0	2678.2
42.5°	1190.3	1194.2	1213.5	1298.5	1317.8	1456.9	1433.8	1491.7	1816.4	1885.9
45°	950.7	946.8	958.4	919.8	943.0	1085.9	1101.4	1105.3	1383.5	1426.0
47.5°	749.7	749.7	761.3	711.1	699.5	788.4	869.5	881.1	1105.3	1163.2
50°	525.6	525.6	583.6	560.4	587.4	614.5	703.4	714.9	904.3	966.1
52.5°	386.5	394.2	401.9	405.8	494.7	490.8	568.1	622.2	684.0	792.2
55°	293.7	301.4	282.1	301.4	367.1	409.6	425.1	502.4	544.9	664.7
57.5°	193.2	212.6	197.1	231.9	247.3	316.9	340.1	413.5	440.6	544.9
60°	27.1	30.9	50.2	162.3	173.9	208.7	262.8	328.5	355.5	444.4
62.5°	3.9	3.9	11.6	27.1	115.9	139.1	197.1	228.0	262.8	332.4
65°	0.0	0.0	3.9	7.7	23.2	81.2	100.5	123.7	181.6	239.6
67.5°	0.0	0.0	3.9	7.7	11.6	27.1	42.5	81.2	104.3	166.2
70°	0.0	0.0	3.9	7.7	11.6	15.5	23.2	30.9	61.8	96.6
72.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	23.2	27.1	61.8
75°	0.0	0.0	3.9	7.7	11.6	19.3	23.2	23.2	23.2	27.1
77.5°	0.0	0.0	3.9	7.7	15.5	23.2	27.1	23.2	19.3	19.3
80°	0.0	0.0	3.9	11.6	19.3	27.1	30.9	23.2	15.5	11.6
82.5°	0.0	0.0	3.9	11.6	19.3	27.1	30.9	27.1	15.5	11.6
85°	0.0	0.0	3.9	11.6	15.5	19.3	30.9	27.1	15.5	7.7
87.5°	0.0	0.0	0.0	3.9	3.9	7.7	15.5	11.6	7.7	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°
46688.0	0°	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0	46688.0
46807.8	2.5°	47155.6	47329.5	47634.8	47719.8	47982.6	47681.2	47515.0	47530.5	47171.1
46691.9	5°	47155.6	47553.7	48087.0	48342.0	48535.3	48519.8	48477.3	48369.1	48106.3
46460.0	7.5°	47032.0	47681.2	48415.5	48755.6	48987.4	48968.1	49064.7	48890.8	48570.1
46046.5	10°	46633.9	47198.1	48102.4	48380.7	48755.6	48763.3	48643.5	48678.3	48106.3
44535.4	12.5°	45381.8	45822.3	46614.6	46931.5	47387.5	47460.9	47329.5	47279.3	46738.2
42058.2	15°	42958.7	43213.7	44009.9	44326.7	44778.9	44717.1	44848.5	44794.4	44319.0
38711.5	17.5°	39414.9	39496.0	40330.8	40597.4	41022.5	41188.7	40991.6	41242.8	40833.2
34093.3	20°	34332.9	34769.6	35708.7	36118.4	36365.7	36663.3	36404.4	36686.5	36207.3
28489.7	22.5°	29177.6	29436.5	30286.7	30878.0	31337.9	31395.9	31299.2	31496.3	30851.0
23550.8	25°	23546.9	23975.9	24648.3	25421.2	25873.4	26151.6	25900.4	26028.0	25923.6
18264.0	27.5°	18573.2	18955.8	19462.0	20037.9	20718.0	21081.3	20880.3	21096.7	20586.6
13618.8	30°	13630.4	13823.6	14395.6	15006.2	15752.0	16192.6	16211.9	16432.2	16130.8
9541.7	32.5°	9611.2	9781.3	10132.9	10538.7	11249.8	11740.6	11663.3	11694.2	11508.7
6218.1	35°	6249.0	6477.0	6728.2	6921.5	7350.4	7891.5	7849.0	7810.3	7682.8
4088.7	37.5°	4177.6	4266.5	4405.6	4579.5	4857.8	5197.9	5309.9	5170.8	5116.7
2759.3	40°	2825.0	2979.6	3072.3	3203.7	3335.1	3621.1	3698.4	3671.4	3617.2
1932.3	42.5°	2005.7	2125.5	2241.5	2369.0	2438.6	2616.3	2767.0	2724.5	2701.3
1468.5	45°	1522.6	1630.9	1766.1	1862.7	1932.3	2036.6	2179.6	2195.1	2160.3
1178.7	47.5°	1221.2	1317.8	1426.0	1545.8	1627.0	1692.7	1816.4	1862.7	1839.5
993.2	50°	1035.7	1109.1	1213.5	1333.3	1422.2	1480.1	1588.3	1638.6	1623.1
830.9	52.5°	881.1	970.0	1066.6	1167.1	1275.3	1333.3	1433.8	1507.2	1495.6
687.9	55°	730.4	846.3	946.8	1047.3	1171.0	1228.9	1317.8	1414.4	1395.1
583.6	57.5°	637.7	734.3	838.6	935.2	1066.6	1143.9	1225.1	1325.6	1321.7
479.2	60°	533.3	629.9	745.9	827.0	966.1	1074.4	1147.8	1252.1	1259.9
363.3	62.5°	425.1	544.9	633.8	745.9	873.4	1000.9	1070.5	1174.8	1213.5
278.2	65°	316.9	448.3	548.8	660.8	780.6	923.6	985.5	1089.8	1128.5
201.0	67.5°	235.7	336.2	463.7	560.4	695.6	819.3	892.7	989.3	1016.4
119.8	70°	177.8	258.9	386.5	471.5	610.6	711.1	784.5	857.9	892.7
81.2	72.5°	104.3	193.2	305.3	405.8	525.6	610.6	664.7	722.7	745.9
38.6	75°	73.4	146.9	239.6	336.2	425.1	494.7	544.9	595.1	618.3
19.3	77.5°	38.6	108.2	189.4	270.5	332.4	390.3	440.6	479.2	494.7
15.5	80°	23.2	77.3	154.6	212.6	255.1	305.3	355.5	382.6	378.7
11.6	82.5°	15.5	61.8	112.1	154.6	185.5	224.1	258.9	278.2	278.2
7.7	85°	11.6	42.5	77.3	119.8	123.7	154.6	162.3	181.6	185.5
7.7	87.5°	7.7	27.1	42.5	69.6	65.7	81.2	85.0	96.6	104.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
46688.0
46881.2
48191.3
48643.5
47940.1
46614.6
44469.7
40732.7
36168.6
30762.1
25857.9
20718.0
16184.9
11613.1
7570.7
5105.1
3625.0
2682.0
2156.4
1827.9
1619.3
1487.9
1395.1
1317.8
1259.9
1209.6
1124.6
1016.4
885.0
738.1
610.6
490.8
374.9
274.4
181.6
100.5
0.0

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