

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: P638710

Luminaire Tested: **EPH-VN-06-E-935-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638710
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-935-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33003 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

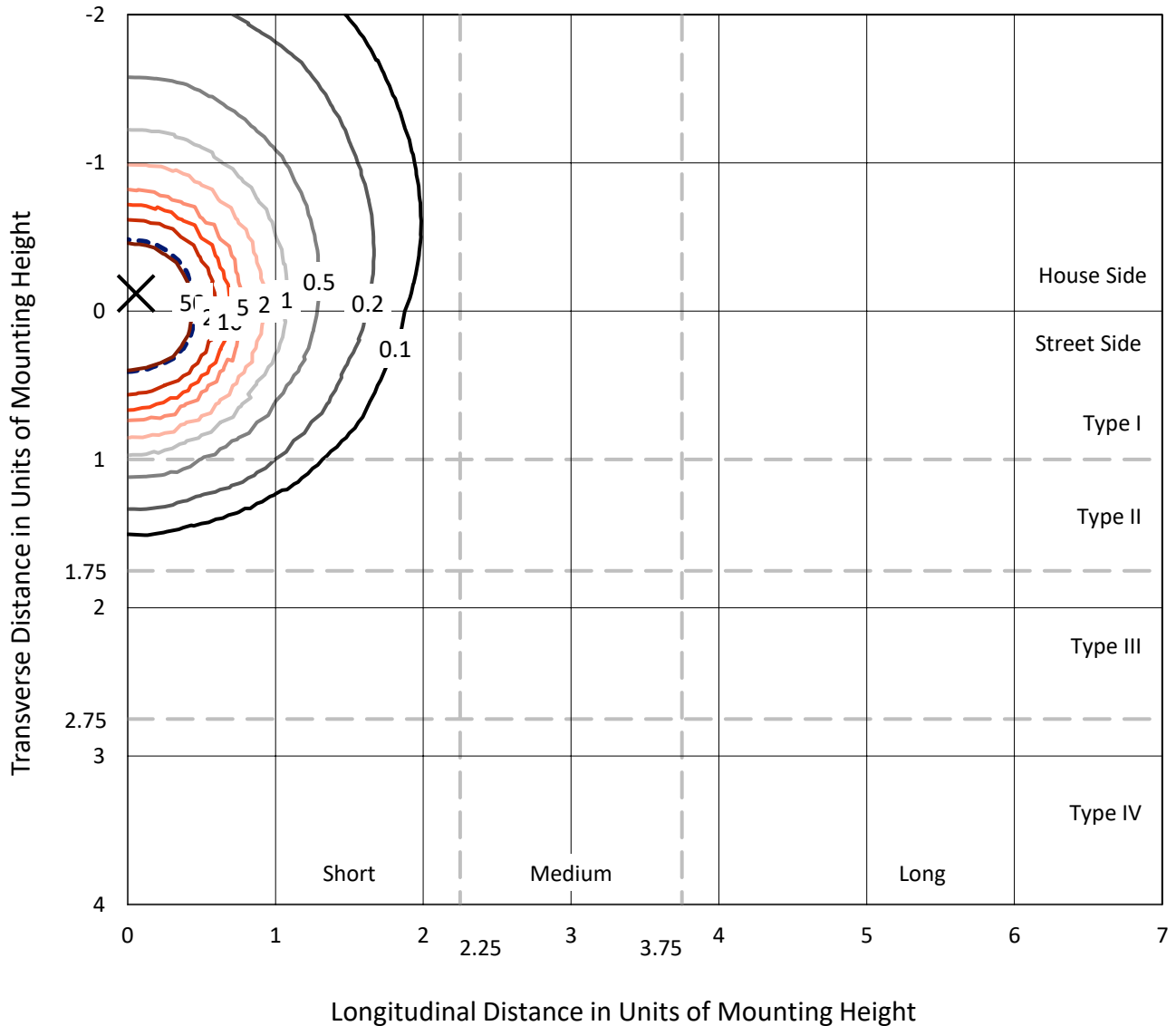
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

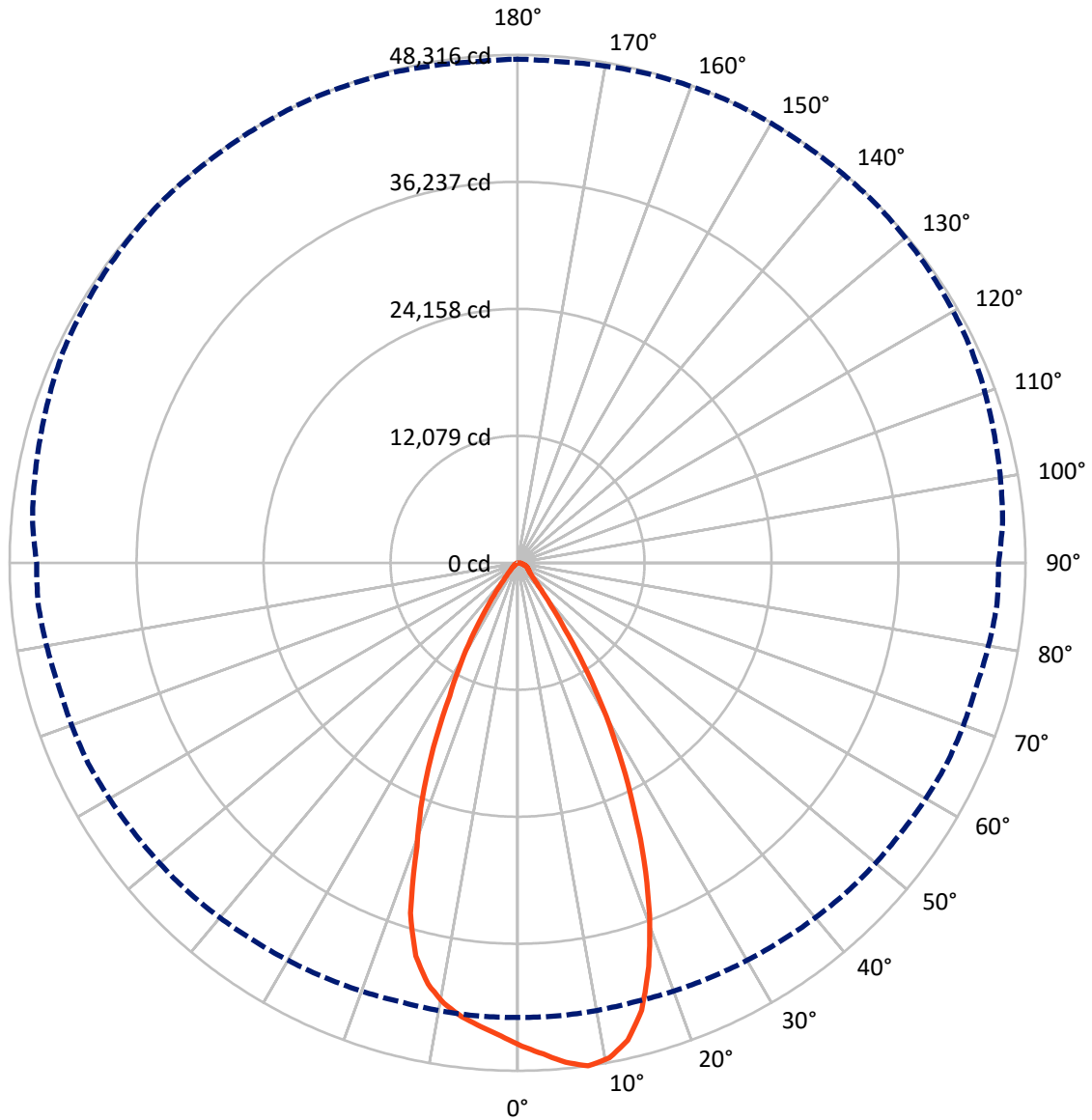
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 116.8 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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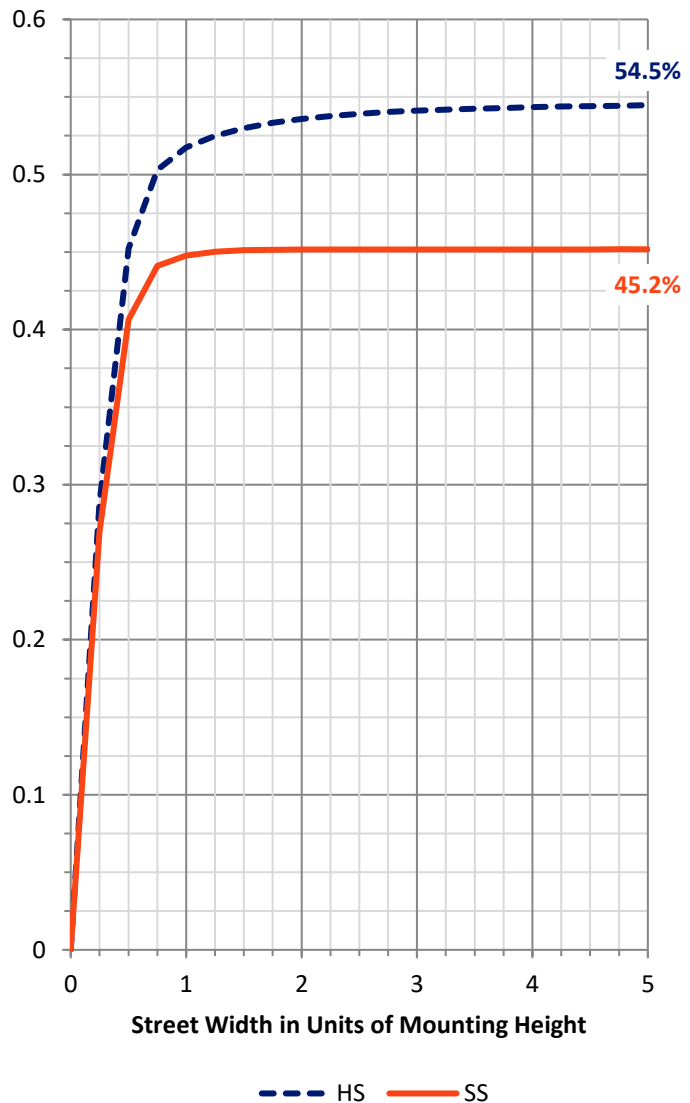
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18218.9	0.0	18218.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14784.1	0.0	14784.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	33003.0	0.0	33003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4384.1	13.3
10°-20°	11368.0	34.4
20°-30°	10416.2	31.6
30°-40°	4208.2	12.8
40°-50°	1234.5	3.7
50°-60°	690.2	2.1
60°-70°	419.2	1.3
70°-80°	213.0	0.6
80°-90°	69.7	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°	33003.0	100.0
0°-180°	33003.0	100.0

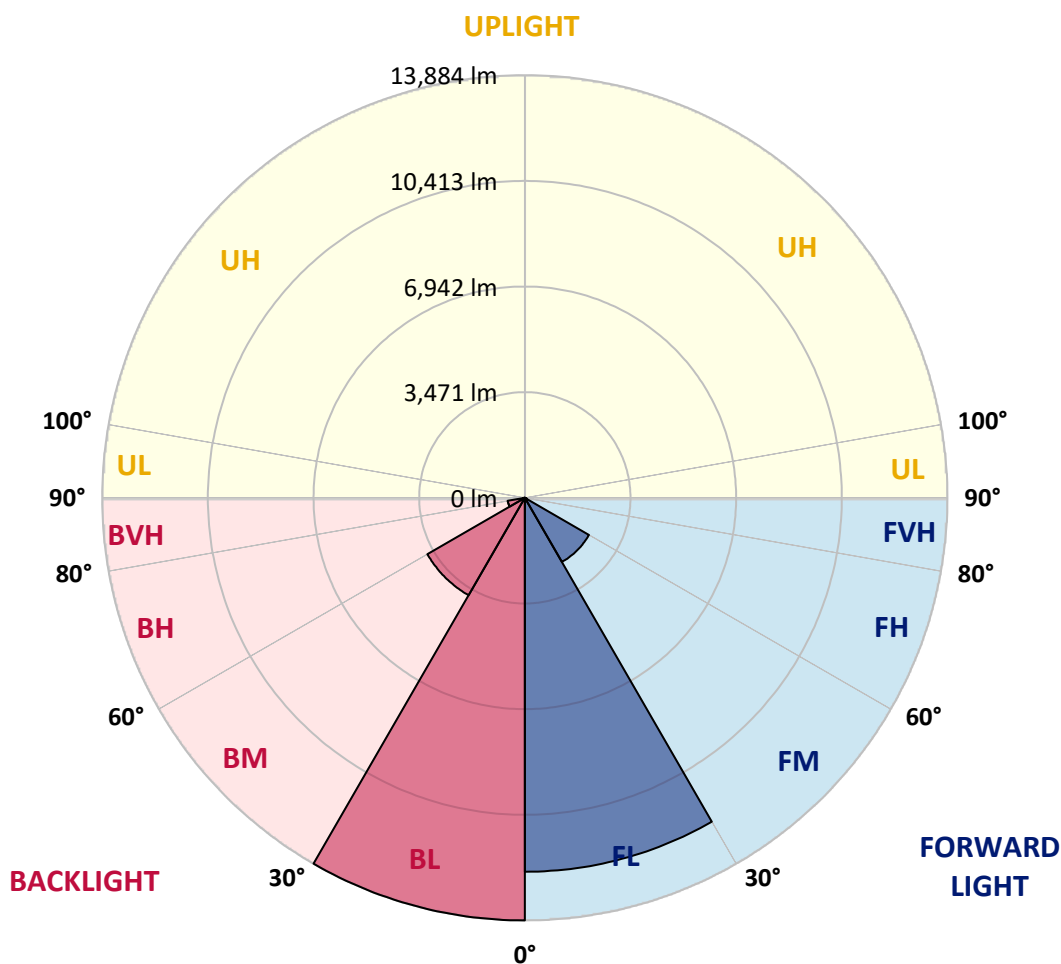


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12284.6	37.2			
FM (30°-60°)	2434.6	7.4			
FH (60°-80°)	59.0	0.2			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	13883.7	42.1	B5		
BM (30°-60°)	3698.3	11.2	B3/5000		
BH (60°-80°)	573.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	63.6	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°	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8
2.5°	44978.7	45130.9	44826.5	45028.2	45184.2	45557.2	45587.6	45717.0	45762.7	46101.4
5°	44126.2	44244.2	43996.8	44267.0	44487.8	44818.9	45073.8	45431.6	45629.5	46029.1
7.5°	43239.5	43266.2	43216.7	43502.1	43833.2	44289.9	44605.7	45073.8	45195.6	45766.5
10°	42166.3	41972.3	42067.4	42486.0	42980.7	43681.0	43897.9	44366.0	44582.9	45165.2
12.5°	40453.8	40552.8	40434.8	40967.6	41378.6	42174.0	42402.3	42874.2	43289.0	43802.8
15°	38041.0	37984.0	38223.7	38638.5	39083.8	39715.5	40084.7	40598.4	40914.3	41447.1
17.5°	32618.0	32812.1	33801.6	34840.5	35753.9	36492.2	36933.6	37359.8	37588.2	38166.6
20°	28169.2	27925.7	28058.9	28645.0	31244.2	32374.5	32838.8	32941.5	33036.6	33493.3
22.5°	23195.3	23115.4	23560.6	24219.0	24835.5	27442.4	28074.1	27834.4	28032.2	28462.3
25°	17224.3	17627.7	18023.4	19286.9	20086.1	21364.8	22563.6	22670.1	22742.4	23012.6
27.5°	14019.9	13879.1	13871.5	14225.4	15405.2	16470.8	17490.7	17726.6	17684.7	17943.5
30°	11021.1	10975.4	10815.6	10899.3	10781.3	11728.9	12208.4	13178.9	13125.6	13133.2
32.5°	7950.0	7778.7	7714.0	7839.6	7717.8	7630.3	8048.9	9144.9	9125.9	9202.0
35°	4810.3	4787.5	4840.8	4951.1	4707.6	4699.9	4787.5	5818.8	5944.4	6066.2
37.5°	2656.3	2633.5	2675.4	3082.6	3002.6	2930.3	2953.2	3497.4	3858.9	3950.2
40°	1750.6	1746.8	1777.2	1849.5	1986.5	1959.9	1971.3	2214.9	2557.4	2637.3
42.5°	1172.1	1175.9	1195.0	1278.7	1297.7	1434.7	1411.9	1469.0	1788.6	1857.1
45°	936.2	932.4	943.8	905.7	928.6	1069.4	1084.6	1088.4	1362.4	1404.3
47.5°	738.3	738.3	749.7	700.2	688.8	776.3	856.3	867.7	1088.4	1145.5
50°	517.6	517.6	574.6	551.8	578.5	605.1	692.6	704.0	890.5	951.4
52.5°	380.6	388.2	395.8	399.6	487.1	483.3	559.4	612.7	673.6	780.2
55°	289.2	296.8	277.8	296.8	361.5	403.4	418.6	494.7	536.6	654.6
57.5°	190.3	209.3	194.1	228.3	243.6	312.1	334.9	407.2	433.8	536.6
60°	26.6	30.4	49.5	159.8	171.3	205.5	258.8	323.5	350.1	437.6
62.5°	3.8	3.8	11.4	26.6	114.2	137.0	194.1	224.5	258.8	327.3
65°	0.0	0.0	3.8	7.6	22.8	79.9	98.9	121.8	178.9	235.9
67.5°	0.0	0.0	3.8	7.6	11.4	26.6	41.9	79.9	102.8	163.6
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.8	30.4	60.9	95.1
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	22.8	26.6	60.9
75°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	22.8	22.8	26.6
77.5°	0.0	0.0	3.8	7.6	15.2	22.8	26.6	22.8	19.0	19.0
80°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	22.8	15.2	11.4
82.5°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	26.6	15.2	11.4
85°	0.0	0.0	3.8	11.4	15.2	19.0	30.4	26.6	15.2	7.6
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	15.2	11.4	7.6	3.8
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°
45975.8	0°	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8	45975.8
46093.7	2.5°	46436.3	46607.5	46908.2	46991.9	47250.7	46953.8	46790.2	46805.4	46451.5
45979.6	5°	46436.3	46828.2	47353.4	47604.6	47794.9	47779.6	47737.8	47631.2	47372.4
45751.2	7.5°	46314.5	46953.8	47676.9	48011.8	48240.1	48221.1	48316.2	48145.0	47829.1
45344.0	10°	45922.5	46478.1	47368.6	47642.6	48011.8	48019.4	47901.4	47935.7	47372.4
43856.0	12.5°	44689.5	45123.3	45903.5	46215.5	46664.6	46736.9	46607.5	46558.0	46025.2
41416.6	15°	42303.3	42554.5	43338.5	43650.5	44095.8	44034.9	44164.3	44111.0	43642.9
38121.0	17.5°	38813.6	38893.5	39715.5	39978.1	40396.7	40560.4	40366.3	40613.6	40210.2
33573.2	20°	33809.2	34239.2	35164.0	35567.4	35810.9	36104.0	35849.0	36126.8	35654.9
28055.1	22.5°	28732.5	28987.5	29824.7	30407.0	30859.8	30916.9	30821.8	31015.9	30380.3
23191.5	25°	23187.7	23610.1	24272.3	25033.4	25478.7	25752.7	25505.3	25630.9	25528.1
17985.4	27.5°	18289.8	18666.6	19165.1	19732.2	20402.0	20759.7	20561.8	20774.9	20272.6
13411.0	30°	13422.4	13612.7	14176.0	14777.2	15511.7	15945.6	15964.6	16181.5	15884.7
9396.1	32.5°	9464.6	9632.0	9978.4	10377.9	11078.2	11561.5	11485.4	11515.8	11333.2
6123.3	35°	6153.7	6378.2	6625.6	6815.9	7238.3	7771.1	7729.2	7691.2	7565.6
4026.4	37.5°	4113.9	4201.4	4338.4	4509.7	4783.7	5118.6	5228.9	5091.9	5038.6
2717.2	40°	2781.9	2934.1	3025.5	3154.9	3284.3	3565.9	3642.0	3615.3	3562.1
1902.8	42.5°	1975.1	2093.1	2207.3	2332.8	2401.4	2576.4	2724.8	2683.0	2660.1
1446.1	45°	1499.4	1606.0	1739.2	1834.3	1902.8	2005.6	2146.4	2161.6	2127.3
1160.7	47.5°	1202.6	1297.7	1404.3	1522.3	1602.2	1666.9	1788.6	1834.3	1811.5
978.0	50°	1019.9	1092.2	1195.0	1312.9	1400.5	1457.6	1564.1	1613.6	1598.4
818.2	52.5°	867.7	955.2	1050.4	1149.3	1255.9	1312.9	1411.9	1484.2	1472.8
677.4	55°	719.3	833.4	932.4	1031.3	1153.1	1210.2	1297.7	1392.9	1373.8
574.6	57.5°	627.9	723.1	825.8	921.0	1050.4	1126.5	1206.4	1305.3	1301.5
471.9	60°	525.2	620.3	734.5	814.4	951.4	1058.0	1130.3	1233.0	1240.6
357.7	62.5°	418.6	536.6	624.1	734.5	860.1	985.7	1054.2	1156.9	1195.0
274.0	65°	312.1	441.5	540.4	650.8	768.7	909.5	970.4	1073.2	1111.2
197.9	67.5°	232.1	331.1	456.7	551.8	685.0	806.8	879.1	974.2	1000.9
118.0	70°	175.1	255.0	380.6	464.3	601.3	700.2	772.5	844.8	879.1
79.9	72.5°	102.8	190.3	300.6	399.6	517.6	601.3	654.6	711.7	734.5
38.1	75°	72.3	144.6	235.9	331.1	418.6	487.1	536.6	586.1	608.9
19.0	77.5°	38.1	106.6	186.5	266.4	327.3	384.4	433.8	471.9	487.1
15.2	80°	22.8	76.1	152.2	209.3	251.2	300.6	350.1	376.8	373.0
11.4	82.5°	15.2	60.9	110.4	152.2	182.7	220.7	255.0	274.0	274.0
7.6	85°	11.4	41.9	76.1	118.0	121.8	152.2	159.8	178.9	182.7
7.6	87.5°	7.6	26.6	41.9	68.5	64.7	79.9	83.7	95.1	102.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
45975.8
46166.1
47456.2
47901.4
47208.8
45903.5
43791.3
40111.3
35616.9
30292.8
25463.4
20402.0
15938.0
11435.9
7455.2
5027.2
3569.7
2641.1
2123.5
1800.1
1594.6
1465.2
1373.8
1297.7
1240.6
1191.2
1107.4
1000.9
871.5
726.9
601.3
483.3
369.1
270.2
178.9
98.9
0.0

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