

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: P638713

Luminaire Tested: **EPH-VN-08-E-935-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638713
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-935-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42703.6 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

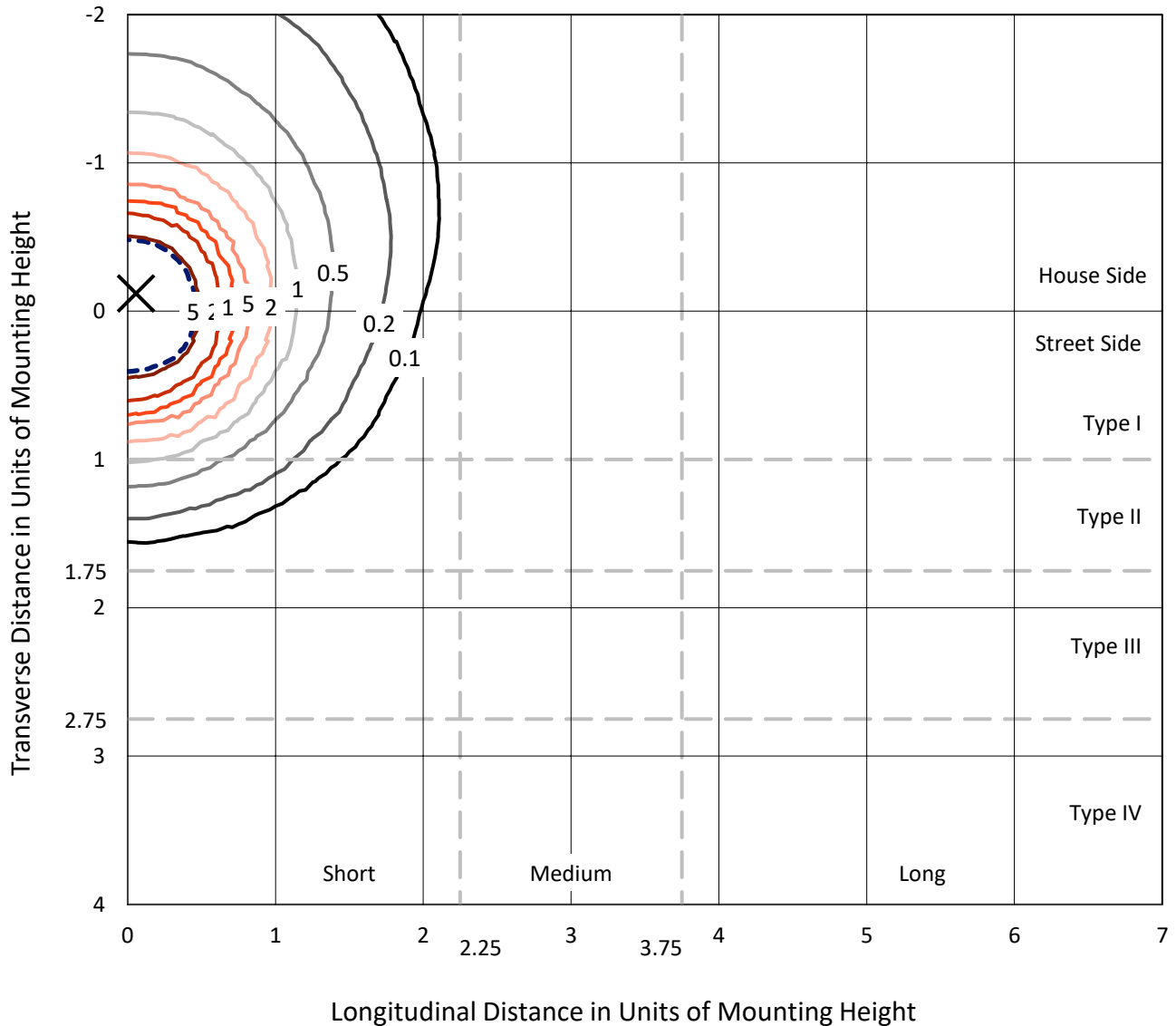
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

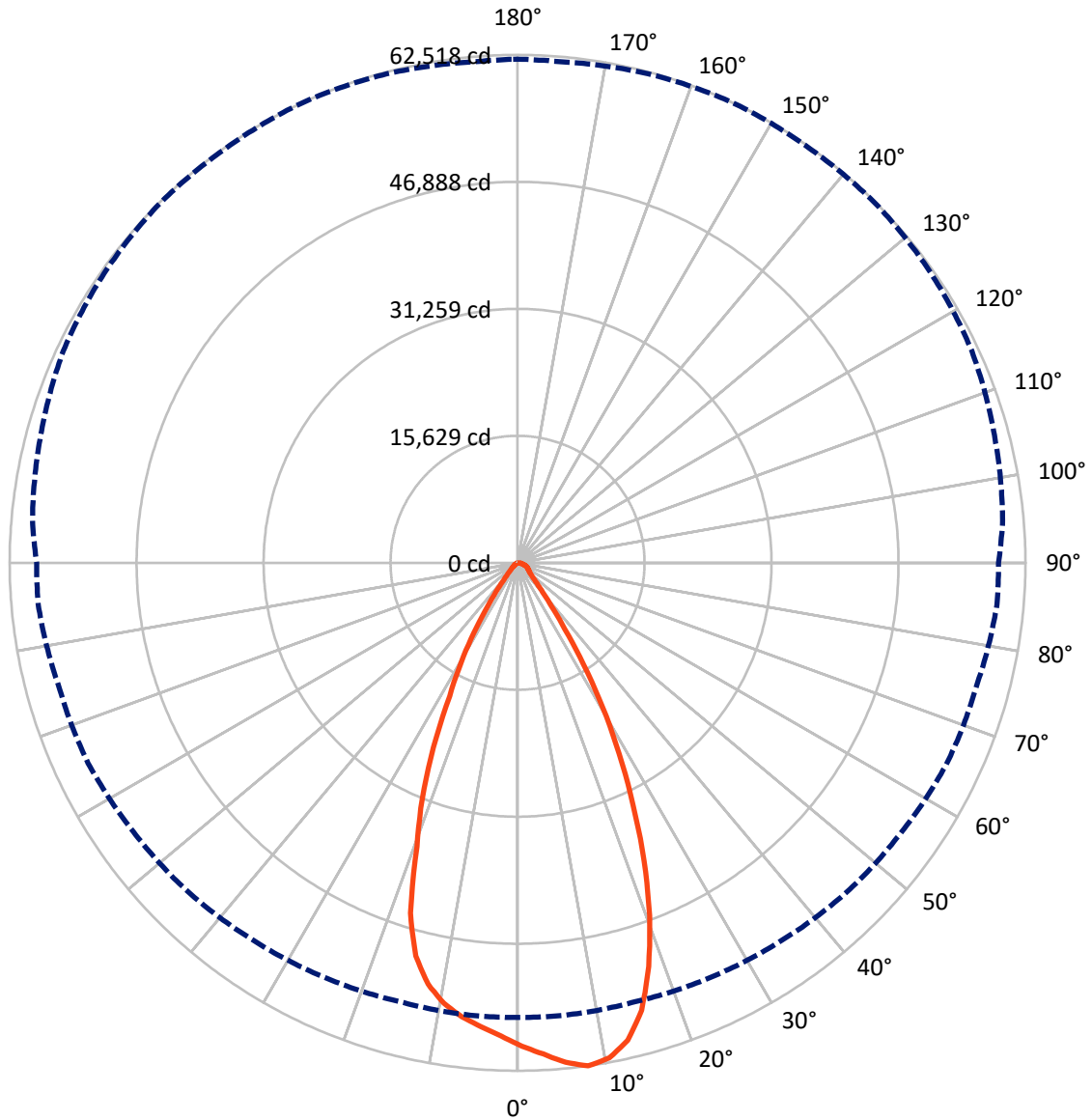
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 151.2 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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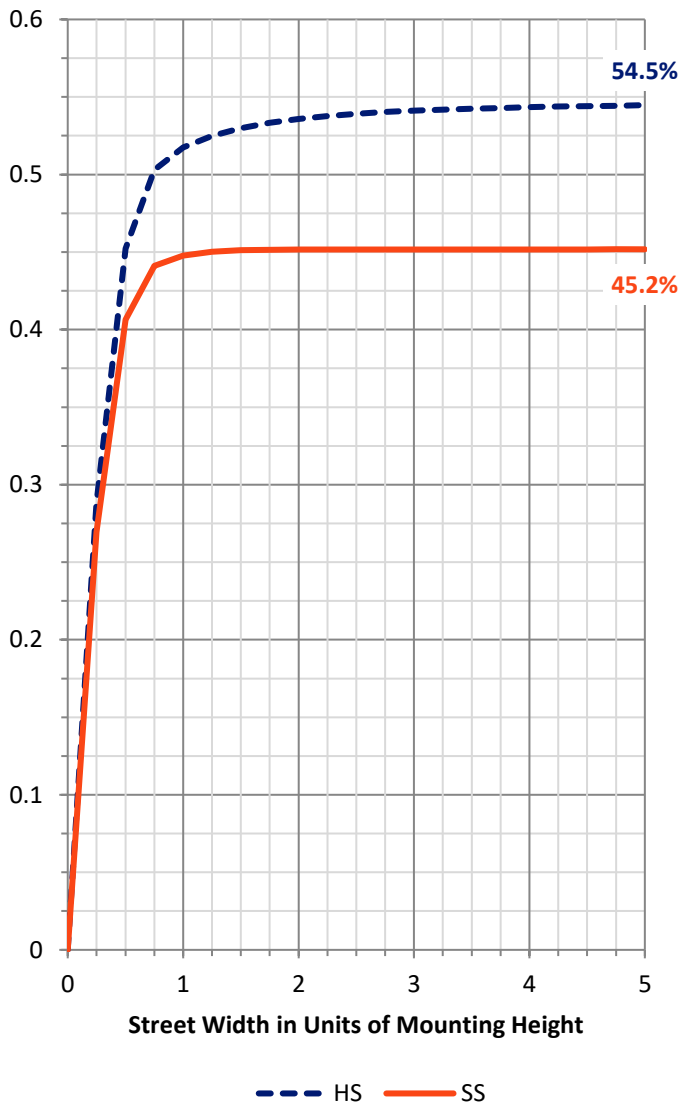
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23573.9	0.0	23573.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	19129.6	0.0	19129.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	42703.6	0.0	42703.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5672.7	13.3
10°-20°	14709.3	34.4
20°-30°	13477.9	31.6
30°-40°	5445.1	12.8
40°-50°	1597.3	3.7
50°-60°	893.1	2.1
60°-70°	542.4	1.3
70°-80°	275.6	0.6
80°-90°	90.1	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°	42703.6	100.0
0°-180°	42703.6	100.0

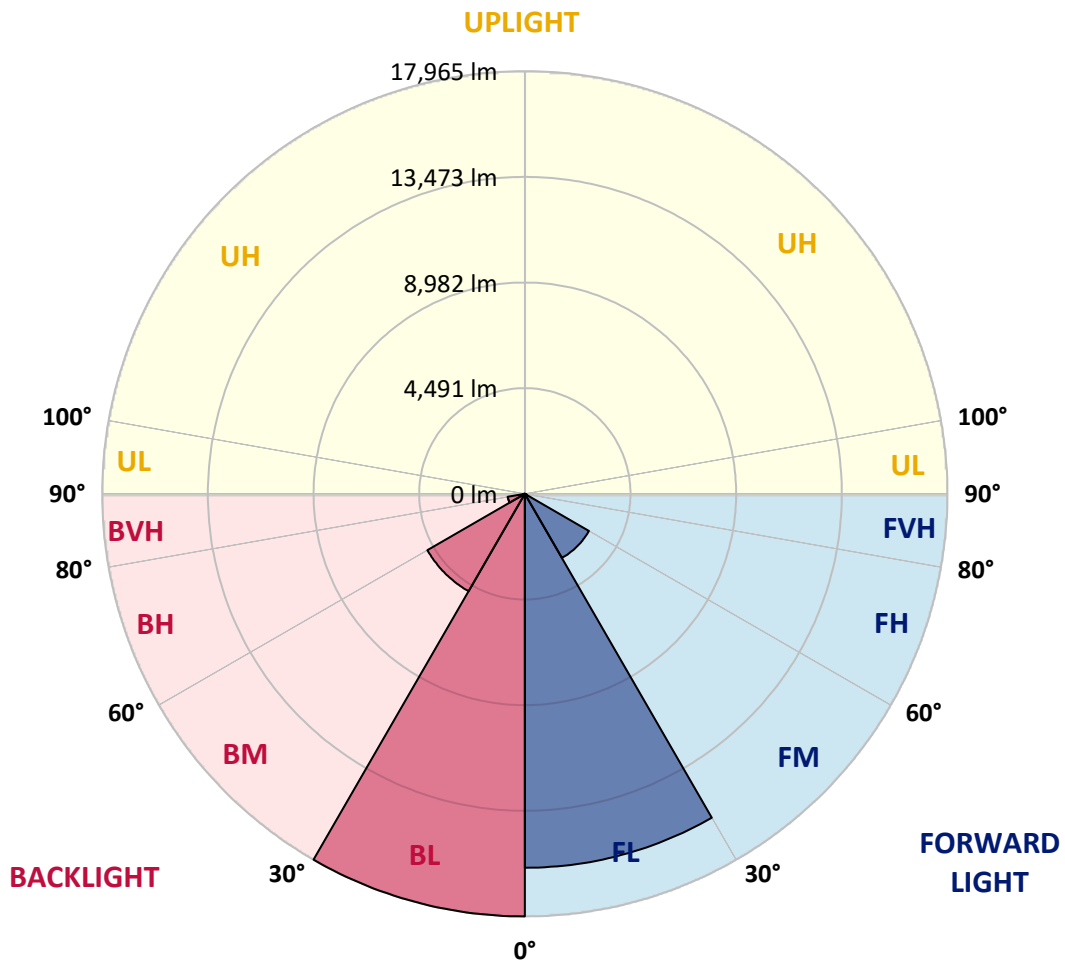


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15895.3	37.2			
FM (30°-60°)	3150.2	7.4			
FH (60°-80°)	76.3	0.2			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	17964.5	42.1	B5		
BM (30°-60°)	4785.3	11.2	B3/5000		
BH (60°-80°)	741.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	82.3	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°	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4
2.5°	58199.2	58396.2	58002.3	58263.2	58465.1	58947.7	58987.1	59154.5	59213.6	59651.9
5°	57096.2	57248.9	56928.8	57278.4	57564.0	57992.4	58322.3	58785.2	59041.3	59558.3
7.5°	55948.9	55983.3	55919.3	56288.6	56717.0	57308.0	57716.7	58322.3	58479.9	59218.5
10°	54560.2	54309.1	54432.2	54973.9	55614.0	56520.1	56800.8	57406.4	57687.1	58440.5
12.5°	52344.3	52472.4	52319.7	53009.1	53540.9	54570.1	54865.5	55476.1	56012.9	56677.7
15°	49222.4	49148.5	49458.8	49995.5	50571.6	51389.1	51866.7	52531.5	52940.2	53629.6
17.5°	42205.4	42456.5	43736.8	45081.1	46263.0	47218.2	47789.5	48341.0	48636.4	49384.9
20°	36449.0	36133.9	36306.2	37064.5	40427.8	41890.3	42491.0	42624.0	42747.1	43338.0
22.5°	30013.1	29909.7	30485.8	31337.7	32135.4	35508.5	36325.9	36015.7	36271.7	36828.2
25°	22287.0	22808.9	23321.1	24955.9	25990.0	27644.5	29195.6	29333.5	29427.1	29776.7
27.5°	18140.8	17958.6	17948.7	18406.7	19933.2	21312.0	22631.7	22937.0	22882.8	23217.6
30°	14260.5	14201.4	13994.6	14102.9	13950.3	15176.4	15796.9	17052.5	16983.6	16993.4
32.5°	10286.7	10065.1	9981.4	10143.9	9986.3	9873.0	10414.7	11832.9	11808.3	11906.7
35°	6224.2	6194.7	6263.6	6406.4	6091.2	6081.4	6194.7	7529.1	7691.6	7849.2
37.5°	3437.1	3407.6	3461.7	3988.6	3885.2	3791.6	3821.2	4525.3	4993.1	5111.3
40°	2265.1	2260.2	2299.6	2393.2	2570.4	2536.0	2550.7	2865.9	3309.1	3412.5
42.5°	1516.7	1521.6	1546.2	1654.5	1679.2	1856.4	1826.9	1900.7	2314.4	2403.0
45°	1211.4	1206.4	1221.2	1172.0	1201.5	1383.7	1403.4	1408.3	1762.9	1817.0
47.5°	955.3	955.3	970.1	906.1	891.3	1004.5	1107.9	1122.7	1408.3	1482.2
50°	669.7	669.7	743.6	714.0	748.5	782.9	896.2	911.0	1152.3	1231.1
52.5°	492.4	502.3	512.1	517.0	630.3	625.4	723.9	792.8	871.6	1009.5
55°	374.2	384.1	359.5	384.1	467.8	522.0	541.7	640.1	694.3	847.0
57.5°	246.2	270.8	251.1	295.5	315.1	403.8	433.3	526.9	561.4	694.3
60°	34.5	39.4	64.0	206.8	221.6	265.9	334.8	418.6	453.0	566.3
62.5°	4.9	4.9	14.8	34.5	147.7	177.3	251.1	290.5	334.8	423.5
65°	0.0	0.0	4.9	9.8	29.5	103.4	128.0	157.6	231.4	305.3
67.5°	0.0	0.0	4.9	9.8	14.8	34.5	54.2	103.4	133.0	211.7
70°	0.0	0.0	4.9	9.8	14.8	19.7	29.5	39.4	78.8	123.1
72.5°	0.0	0.0	4.9	9.8	14.8	19.7	24.6	29.5	34.5	78.8
75°	0.0	0.0	4.9	9.8	14.8	24.6	29.5	29.5	29.5	34.5
77.5°	0.0	0.0	4.9	9.8	19.7	29.5	34.5	29.5	24.6	24.6
80°	0.0	0.0	4.9	14.8	24.6	34.5	39.4	29.5	19.7	14.8
82.5°	0.0	0.0	4.9	14.8	24.6	34.5	39.4	34.5	19.7	14.8
85°	0.0	0.0	4.9	14.8	19.7	24.6	39.4	34.5	19.7	9.8
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	19.7	14.8	9.8	4.9
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°
59489.4	0°	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4	59489.4
59642.0	2.5°	60085.2	60306.8	60695.8	60804.1	61139.0	60754.9	60543.2	60562.9	60104.9
59494.3	5°	60085.2	60592.4	61271.9	61596.9	61843.2	61823.5	61769.3	61631.4	61296.6
59198.8	7.5°	59927.6	60754.9	61690.5	62123.8	62419.3	62394.7	62517.8	62296.2	61887.5
58672.0	10°	59420.4	60139.4	61291.6	61646.2	62123.8	62133.7	61981.0	62025.3	61296.6
56746.6	12.5°	57825.0	58386.4	59395.8	59799.6	60380.7	60474.2	60306.8	60242.8	59553.4
53590.2	15°	54737.5	55062.5	56076.9	56480.7	57056.8	56978.0	57145.5	57076.5	56470.8
49325.8	17.5°	50222.0	50325.4	51389.1	51728.8	52270.5	52482.2	52231.1	52551.2	52029.2
43441.4	20°	43746.7	44303.1	45499.7	46021.7	46336.8	46716.0	46386.1	46745.5	46134.9
36301.3	22.5°	37177.8	37507.7	38591.0	39344.4	39930.4	40004.3	39881.2	40132.3	39310.0
30008.1	25°	30003.2	30549.8	31406.6	32391.5	32967.6	33322.1	33002.1	33164.6	33031.6
23271.8	27.5°	23665.8	24153.2	24798.3	25532.0	26398.7	26861.6	26605.5	26881.3	26231.3
17352.9	30°	17367.7	17613.9	18342.7	19120.7	20071.1	20632.4	20657.1	20937.7	20553.7
12157.9	32.5°	12246.5	12463.2	12911.3	13428.3	14334.4	14959.7	14861.3	14900.7	14664.3
7923.1	35°	7962.4	8253.0	8573.0	8819.3	9365.8	10055.2	10001.1	9951.8	9789.3
5209.8	37.5°	5323.1	5436.3	5613.6	5835.2	6189.7	6623.1	6765.9	6588.6	6519.7
3515.9	40°	3599.6	3796.6	3914.7	4082.2	4249.6	4614.0	4712.5	4678.0	4609.1
2462.1	42.5°	2555.7	2708.3	2856.0	3018.5	3107.2	3333.7	3525.7	3471.6	3442.0
1871.2	45°	1940.1	2078.0	2250.4	2373.5	2462.1	2595.1	2777.3	2797.0	2752.6
1501.9	47.5°	1556.1	1679.2	1817.0	1969.7	2073.1	2156.8	2314.4	2373.5	2343.9
1265.5	50°	1319.7	1413.2	1546.2	1698.9	1812.1	1886.0	2023.9	2087.9	2068.2
1058.7	52.5°	1122.7	1236.0	1359.1	1487.1	1625.0	1698.9	1826.9	1920.4	1905.7
876.5	55°	930.7	1078.4	1206.4	1334.5	1492.0	1565.9	1679.2	1802.3	1777.6
743.6	57.5°	812.5	935.6	1068.6	1191.7	1359.1	1457.6	1561.0	1689.0	1684.1
610.6	60°	679.5	802.6	950.4	1053.8	1231.1	1368.9	1462.5	1595.4	1605.3
462.9	62.5°	541.7	694.3	807.6	950.4	1112.9	1275.4	1364.0	1497.0	1546.2
354.5	65°	403.8	571.2	699.2	842.0	994.7	1176.9	1255.7	1388.6	1437.9
256.1	67.5°	300.4	428.4	590.9	714.0	886.4	1043.9	1137.5	1260.6	1295.1
152.7	70°	226.5	329.9	492.4	600.8	778.0	906.1	999.6	1093.2	1137.5
103.4	72.5°	133.0	246.2	389.0	517.0	669.7	778.0	847.0	920.8	950.4
49.2	75°	93.6	187.1	305.3	428.4	541.7	630.3	694.3	758.3	787.9
24.6	77.5°	49.2	137.9	241.3	344.7	423.5	497.3	561.4	610.6	630.3
19.7	80°	29.5	98.5	197.0	270.8	325.0	389.0	453.0	487.5	482.6
14.8	82.5°	19.7	78.8	142.8	197.0	236.4	285.6	329.9	354.5	354.5
9.8	85°	14.8	54.2	98.5	152.7	157.6	197.0	206.8	231.4	236.4
9.8	87.5°	9.8	34.5	54.2	88.6	83.7	103.4	108.3	123.1	133.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
59489.4
59735.6
61404.9
61981.0
61084.8
59395.8
56662.9
51901.2
46085.7
39196.7
32947.9
26398.7
20622.6
14797.3
9646.5
6504.9
4618.9
3417.4
2747.7
2329.2
2063.2
1895.8
1777.6
1679.2
1605.3
1541.3
1432.9
1295.1
1127.6
940.5
778.0
625.4
477.6
349.6
231.4
128.0
0.0

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