

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: P638818

Luminaire Tested: **EPH-VN-06-E-935-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638818
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-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27024.7 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

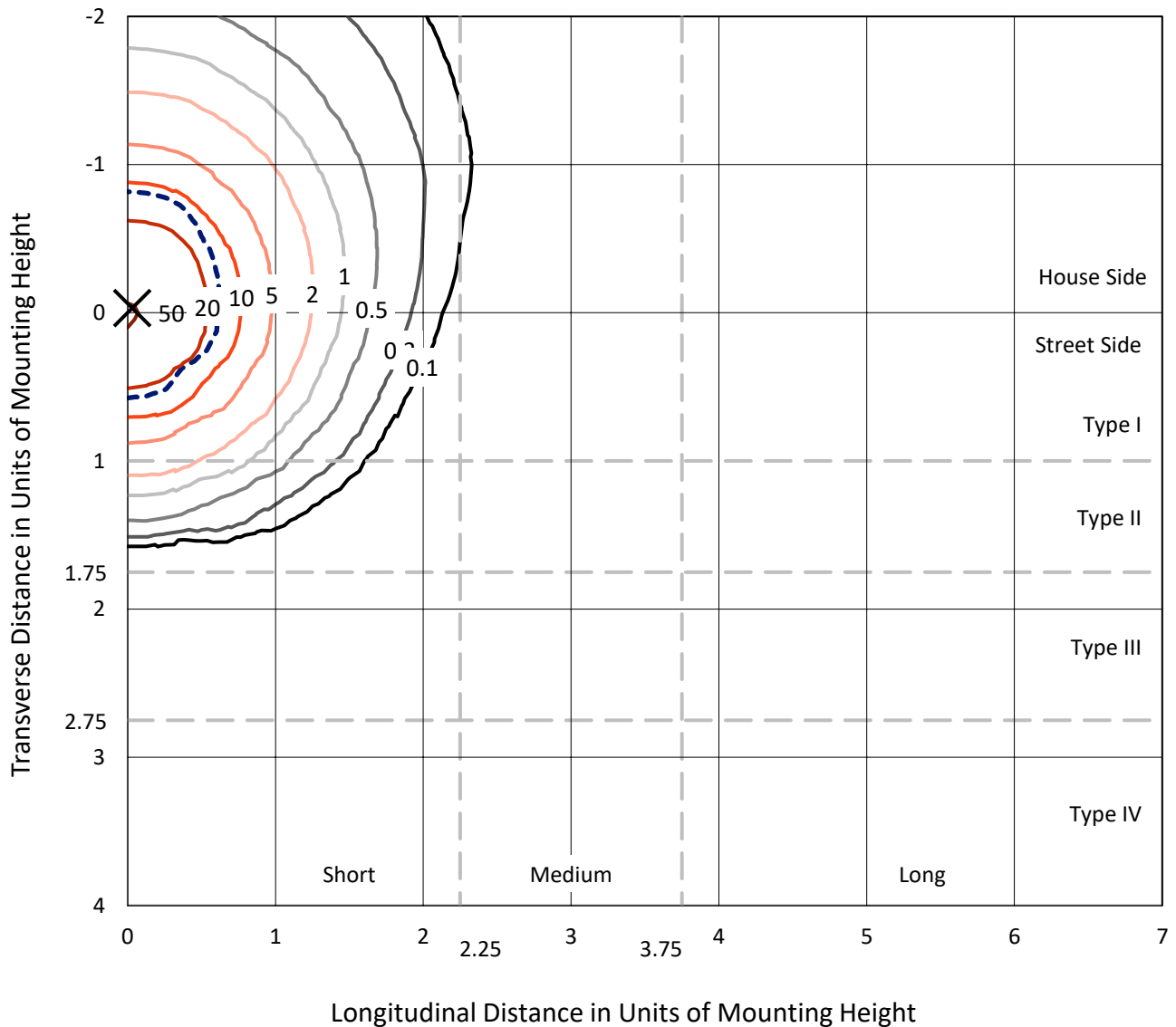
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

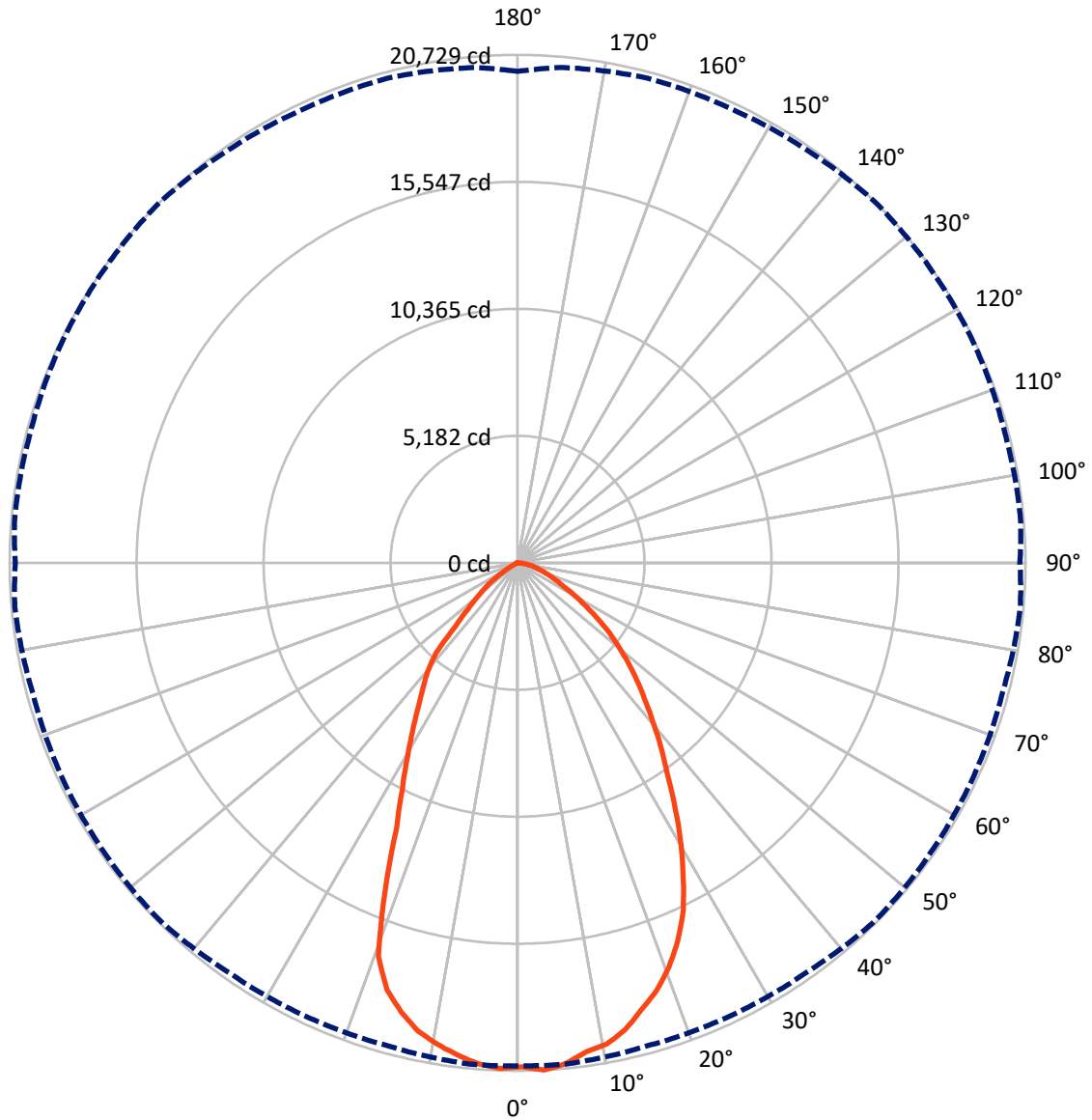
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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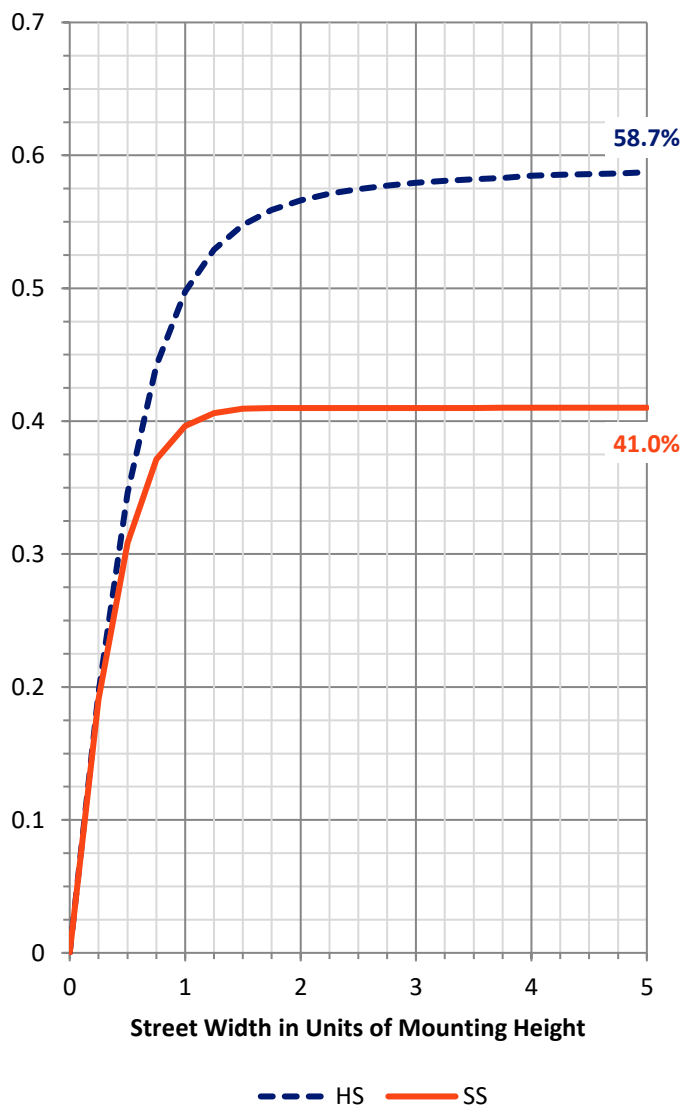
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16005.4	0.0	16005.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11019.3	0.0	11019.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	27024.7	0.0	27024.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1928.7	7.1
10°-20°	5172.0	19.1
20°-30°	6307.6	23.3
30°-40°	5758.7	21.3
40°-50°	4161.7	15.4
50°-60°	2272.3	8.4
60°-70°	939.5	3.5
70°-80°	380.5	1.4
80°-90°	103.5	0.4
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°	27024.7	100.0
0°-180°	27024.7	100.0

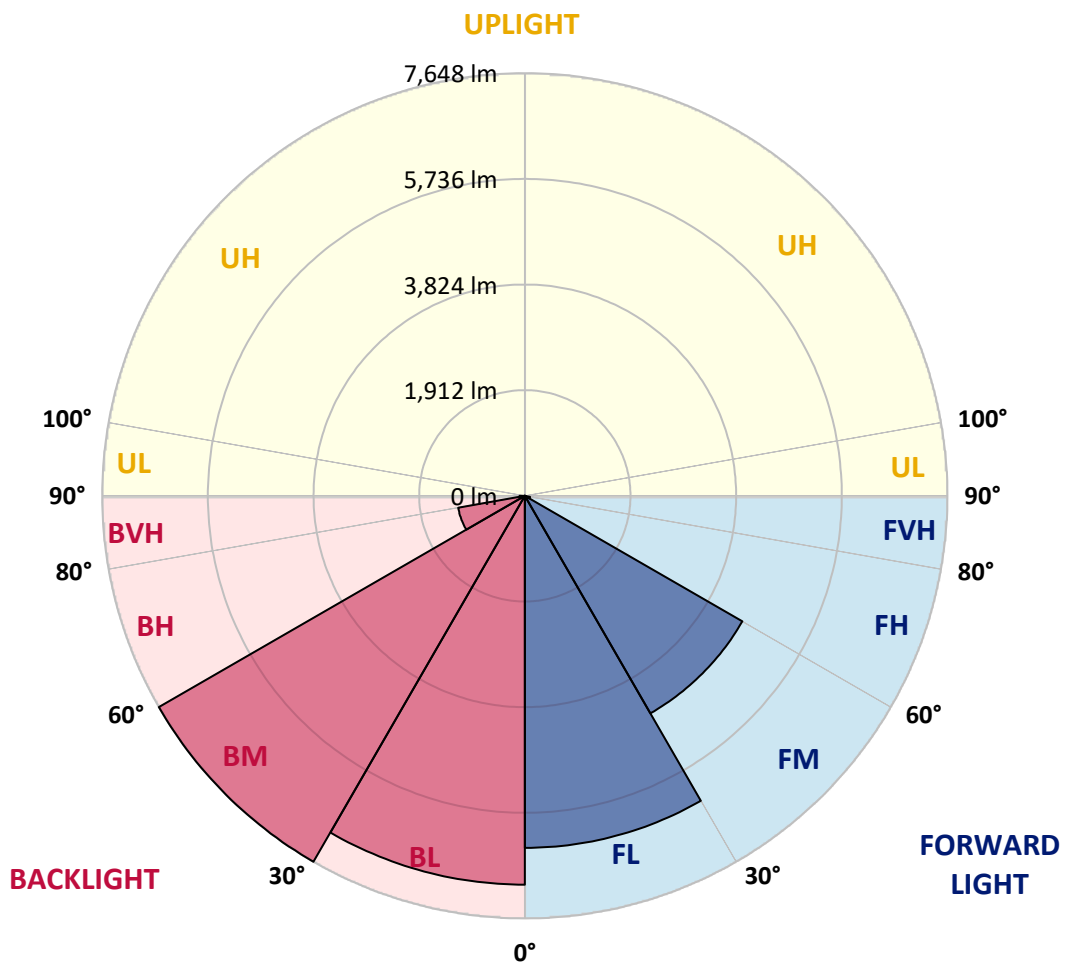


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6370.7	23.6			
FM (30°-60°)	4545.0	16.8			
FH (60°-80°)	95.2	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7037.6	26.0	B5		
BM (30°-60°)	7647.8	28.3	B4/8500		
BH (60°-80°)	1224.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7
2.5°	20527.6	20554.3	20409.7	20424.9	20451.5	20645.6	20596.1	20550.5	20485.8	20596.1
5°	20501.0	20516.2	20364.0	20310.7	20333.6	20508.6	20348.8	20348.8	20333.6	20314.5
7.5°	20295.5	20303.1	20185.1	20090.0	20150.9	20230.8	20112.8	20169.9	20086.2	20150.9
10°	19987.2	19937.8	19797.0	19770.3	19838.8	19914.9	19835.0	19888.3	19812.2	19861.7
12.5°	19534.4	19458.3	19344.1	19309.8	19427.8	19530.6	19465.9	19435.4	19336.5	19458.3
15°	17787.6	17730.5	17989.3	18442.2	18849.4	18936.9	18868.4	18898.8	18693.3	18727.6
17.5°	14640.3	14533.8	14811.6	15884.8	17414.6	18221.4	18160.5	17962.6	17658.2	17726.7
20°	13304.5	13274.1	13243.6	13498.6	14568.0	17015.0	17098.8	16596.4	16162.6	16067.4
22.5°	12551.0	12539.6	12509.2	12566.2	12847.9	14419.6	15378.6	14914.3	14625.1	14598.5
25°	11862.2	11843.2	11751.8	11824.1	11824.1	11915.5	13144.7	13426.3	13171.3	13140.9
27.5°	11162.0	11127.7	11112.5	11146.7	10971.7	10355.2	10667.2	12041.1	11907.9	11915.5
30°	10404.6	10393.2	10351.4	10423.7	9883.3	9118.3	8920.4	10785.2	10811.8	10804.2
32.5°	9278.2	9327.6	9517.9	9597.8	8707.3	8075.6	7744.5	9331.4	9875.6	9864.2
35°	6739.8	6739.8	7360.1	8513.2	7630.3	7154.6	6975.7	7911.9	8950.9	8988.9
37.5°	5541.0	5560.0	5681.8	6207.0	6583.8	6416.3	6363.0	6659.9	7763.5	7824.4
40°	4985.4	4985.4	4985.4	4768.5	4757.1	5780.8	5750.3	5655.2	6705.5	6838.7
42.5°	4479.2	4490.7	4498.3	3950.3	3645.8	4996.8	4928.3	4783.7	5757.9	5914.0
45°	3957.9	3976.9	3999.7	3303.3	3170.1	3596.3	4171.0	4011.1	4821.8	5023.5
47.5°	2416.6	2447.0	2964.6	2801.0	2816.2	2774.3	3402.2	3375.6	3954.1	4239.5
50°	1632.6	1644.0	1693.5	1777.2	2416.6	2180.6	2409.0	2793.3	3002.7	3436.5
52.5°	1370.0	1389.1	1267.3	1153.1	1587.0	1704.9	1682.1	2074.1	2157.8	2694.4
55°	962.8	1023.7	966.6	955.2	901.9	1324.4	1274.9	1594.6	1647.8	2047.4
57.5°	98.9	114.2	197.9	711.7	589.9	749.7	909.5	1168.3	1221.6	1510.8
60°	7.6	7.6	19.0	98.9	430.0	449.1	627.9	719.3	822.0	1054.2
62.5°	0.0	3.8	7.6	15.2	68.5	239.8	315.9	376.8	494.7	681.2
65°	0.0	0.0	3.8	11.4	15.2	91.3	121.8	197.9	270.2	422.4
67.5°	0.0	0.0	3.8	7.6	11.4	22.8	41.9	72.3	144.6	239.8
70°	0.0	0.0	3.8	7.6	11.4	19.0	30.4	45.7	64.7	129.4
72.5°	0.0	0.0	3.8	3.8	7.6	19.0	22.8	30.4	45.7	64.7
75°	0.0	0.0	3.8	3.8	11.4	22.8	19.0	22.8	30.4	41.9
77.5°	0.0	0.0	3.8	7.6	11.4	22.8	19.0	22.8	22.8	26.6
80°	0.0	0.0	3.8	7.6	15.2	26.6	22.8	22.8	19.0	19.0
82.5°	0.0	0.0	3.8	11.4	15.2	34.3	34.3	30.4	15.2	11.4
85°	0.0	0.0	7.6	15.2	22.8	38.1	38.1	30.4	11.4	7.6
87.5°	0.0	0.0	7.6	11.4	19.0	26.6	38.1	30.4	11.4	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°
20565.7	0°	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7	20565.7
20501.0	2.5°	20603.8	20580.9	20657.0	20687.5	20729.3	20569.5	20470.6	20474.4	20291.7
20268.9	5°	20390.6	20394.4	20493.4	20485.8	20527.6	20440.1	20402.1	20337.4	20177.5
19975.8	7.5°	20120.4	20086.2	20181.3	20253.6	20147.1	20208.0	20120.4	20150.9	20055.7
19717.0	10°	19911.1	19831.2	19918.7	19968.2	19972.0	19911.1	19827.4	19747.5	19713.2
19313.6	12.5°	19446.8	19344.1	19492.5	19561.0	19549.6	19431.6	19336.5	19355.5	19245.1
18605.8	15°	18807.5	18811.3	18917.9	18982.6	18921.7	18895.0	18902.6	18857.0	18761.8
17627.7	17.5°	17829.4	17886.5	18168.1	18324.2	18358.4	18305.1	18278.5	18225.2	18130.1
16067.4	20°	16200.6	16543.1	17045.5	17528.8	17623.9	17608.7	17513.6	17490.7	17437.5
14522.3	22.5°	14769.7	15024.7	15606.9	16360.5	16748.6	16786.7	16672.5	16638.3	16581.2
13140.9	25°	13289.3	13563.3	14088.5	14906.7	15709.7	15873.3	15854.3	15751.6	15690.7
11915.5	27.5°	12041.1	12315.1	12790.8	13529.1	14389.1	14914.3	14963.8	14800.2	14796.3
10823.3	30°	10914.6	11291.3	11652.9	12254.2	13087.6	13875.4	13959.1	13844.9	13856.4
9822.4	32.5°	10031.7	10343.7	10652.0	11055.4	11748.0	12665.2	12992.5	12885.9	12844.0
8988.9	35°	9129.7	9342.9	9658.7	10027.9	10499.8	11409.3	11976.4	11896.4	11854.6
7862.5	37.5°	8102.2	8467.6	8695.9	9110.7	9479.9	10202.9	11002.1	10990.7	10903.2
6903.4	40°	7048.1	7432.4	7778.7	8197.4	8482.8	9057.4	9944.1	9940.3	9951.8
5910.2	42.5°	6092.8	6446.8	6865.4	7322.1	7596.1	8014.7	8966.1	9019.4	9084.1
5092.0	45°	5229.0	5548.6	5936.8	6492.4	6823.5	7063.3	7908.1	8151.7	8147.9
4361.3	47.5°	4452.6	4753.2	5080.5	5620.9	6043.4	6260.3	6960.5	7306.8	7284.0
3577.3	50°	3737.1	4003.5	4346.0	4738.0	5305.1	5495.4	6016.7	6473.4	6439.2
2850.4	52.5°	3006.5	3375.6	3664.8	4022.6	4620.1	4806.5	5209.9	5655.2	5628.5
2138.8	55°	2344.3	2702.0	3052.1	3360.4	3862.7	4140.5	4429.8	4886.4	4878.8
1674.5	57.5°	1773.4	2165.4	2496.5	2789.5	3189.1	3531.6	3763.8	4178.6	4231.9
1145.5	60°	1312.9	1613.6	1971.3	2298.6	2614.5	2968.4	3124.4	3531.6	3554.5
784.0	62.5°	894.3	1225.4	1575.5	1872.4	2108.3	2473.7	2614.5	2949.4	2991.2
502.3	65°	620.3	833.4	1233.0	1446.1	1735.4	2047.4	2188.2	2454.6	2538.4
289.2	67.5°	411.0	593.7	962.8	1156.9	1442.3	1655.5	1834.3	2051.2	2142.6
182.7	70°	224.5	437.6	688.8	913.4	1160.7	1366.2	1541.3	1716.3	1796.3
83.7	72.5°	152.2	293.0	479.5	723.1	936.2	1137.9	1293.9	1423.3	1427.1
49.5	75°	76.1	197.9	365.3	559.4	730.7	928.6	1069.4	1145.5	1054.2
30.4	77.5°	45.7	144.6	296.8	449.1	593.7	749.7	829.6	871.5	723.1
22.8	80°	26.6	102.8	232.1	357.7	411.0	551.8	627.9	639.3	483.3
15.2	82.5°	19.0	76.1	182.7	262.6	251.2	388.2	471.9	456.7	308.3
11.4	85°	11.4	53.3	114.2	163.6	152.2	255.0	274.0	281.6	178.9
7.6	87.5°	7.6	30.4	60.9	87.5	72.3	110.4	110.4	133.2	87.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20565.7
20055.7
20139.5
19895.9
19561.0
19150.0
18666.7
18088.2
17315.7
16566.0
15626.0
14788.7
13799.3
12847.9
11797.5
10975.5
9951.8
9049.8
8155.5
7291.6
6469.6
5685.6
4897.9
4209.0
3588.7
2998.8
2519.3
2131.2
1765.8
1392.9
985.7
696.4
452.9
285.4
163.6
76.1
0.0

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