

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: P574978

Luminaire Tested: **EPH-VN-06-740-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574978
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

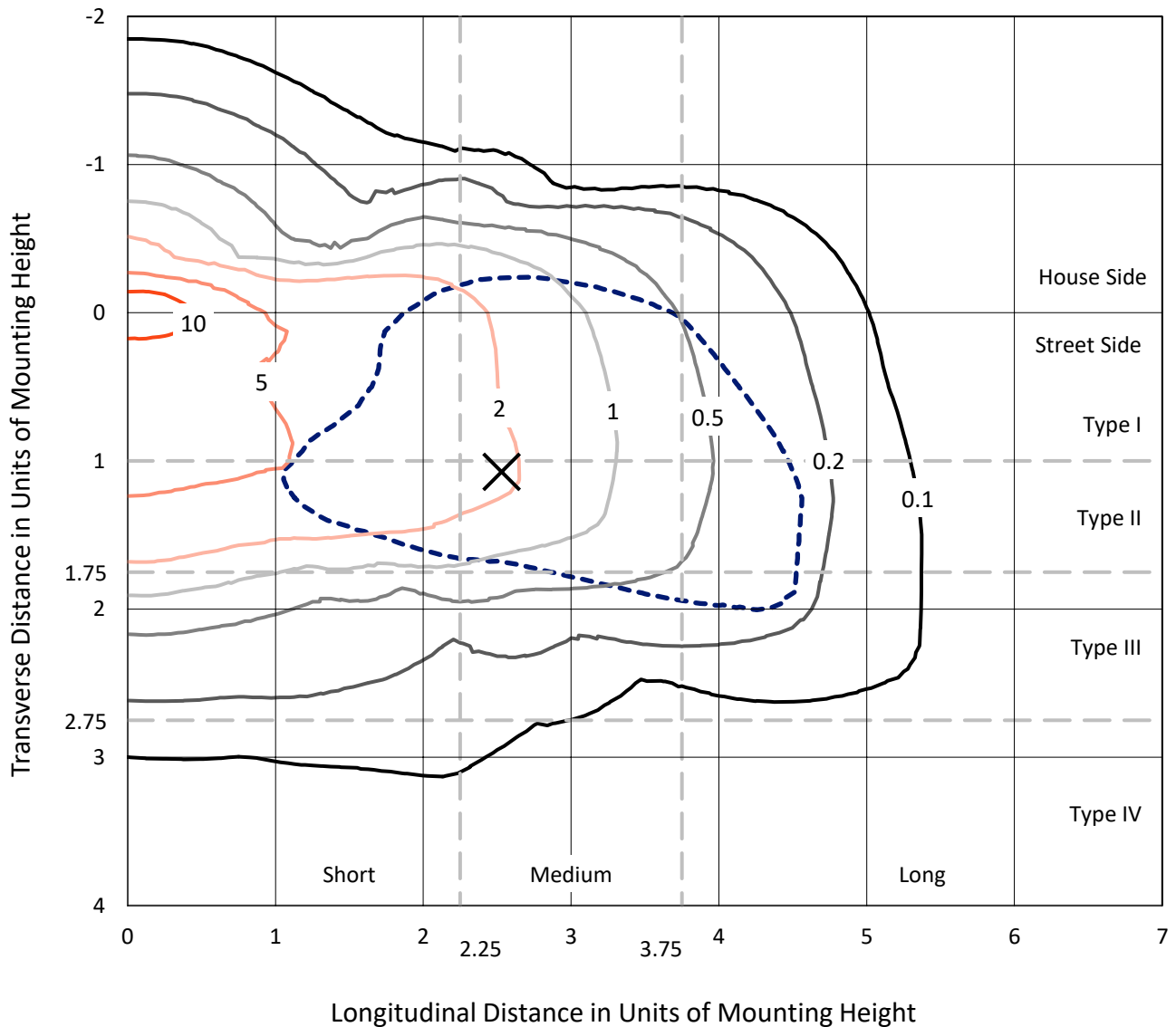
Lumens per Lamp: N/A
Luminaire Lumens: 52757.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

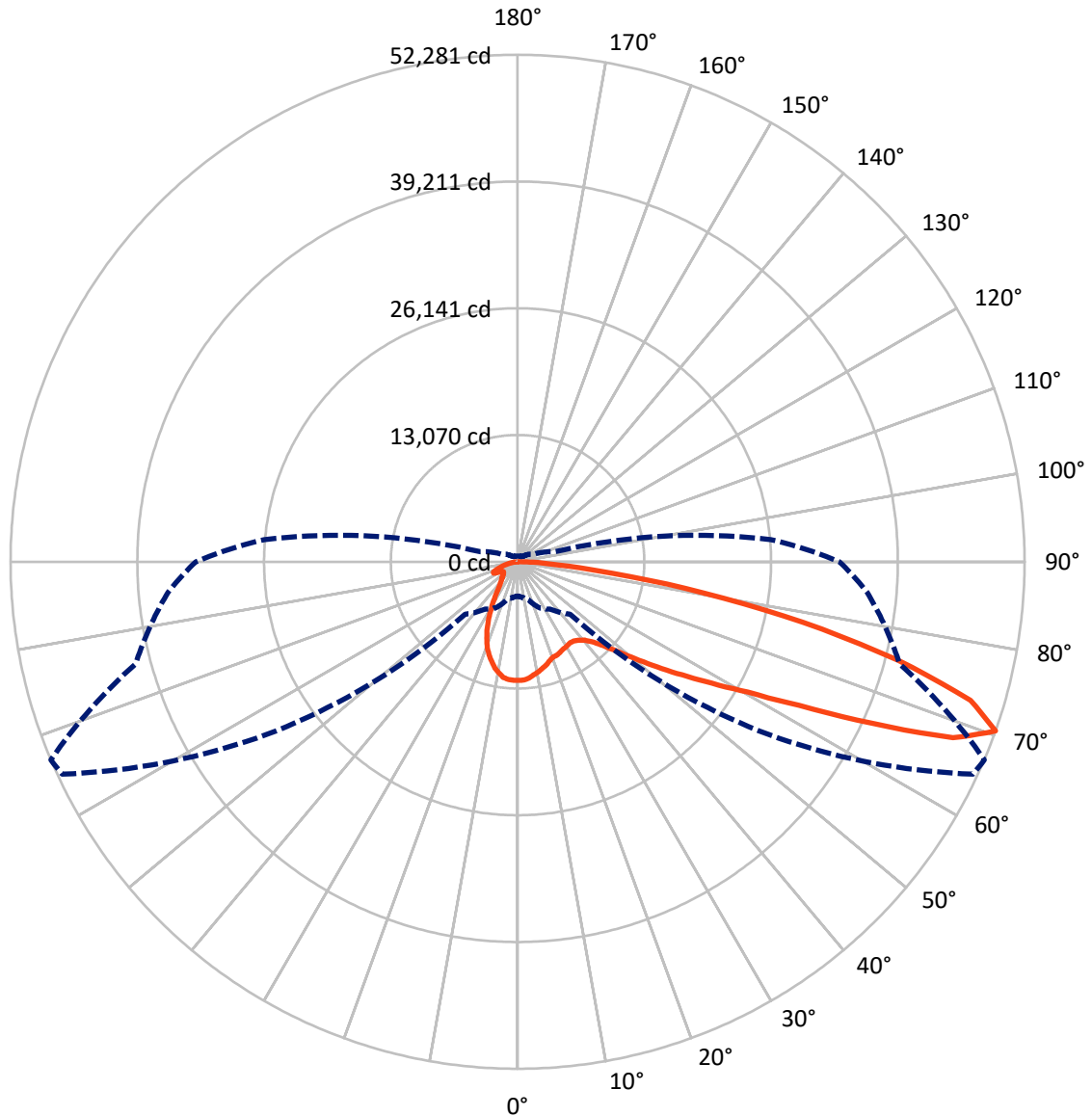
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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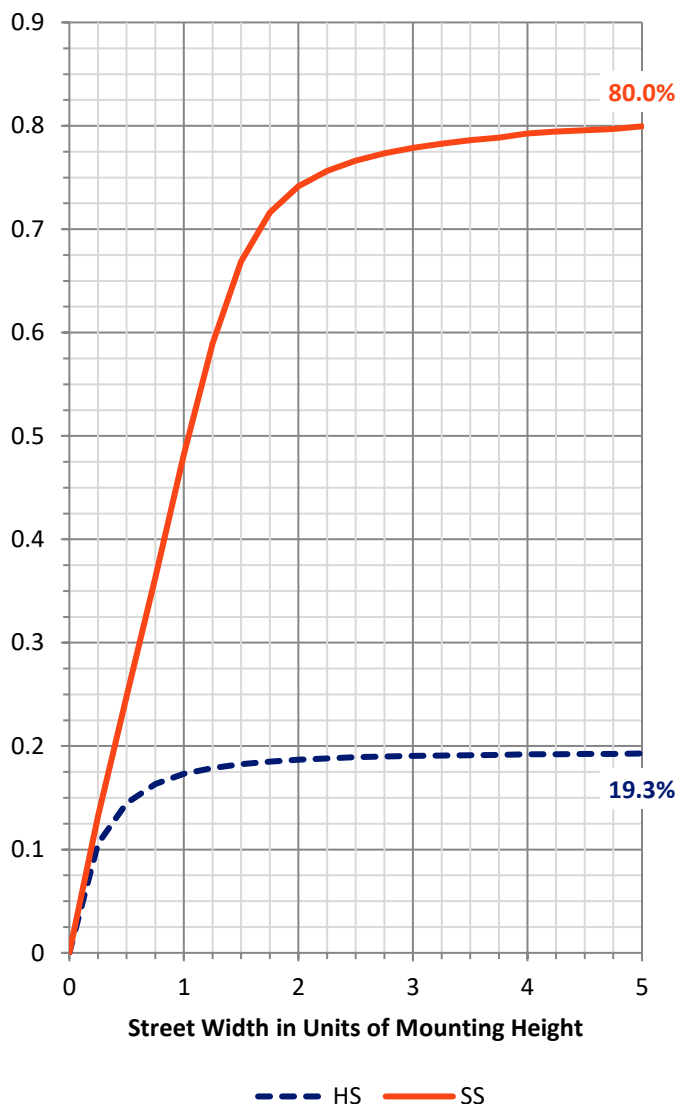
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10275.0	0.0	10275.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	42482.3	0.0	42482.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	52757.3	0.0	52757.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.6	2.0
10°-20°	2552.1	4.8
20°-30°	3446.5	6.5
30°-40°	4611.7	8.7
40°-50°	6781.4	12.9
50°-60°	10570.4	20.0
60°-70°	13021.0	24.7
70°-80°	9200.5	17.4
80°-90°	1508.0	2.9
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°	52757.3	100.0
0°-180°	52757.3	100.0

Coefficient of Utilization

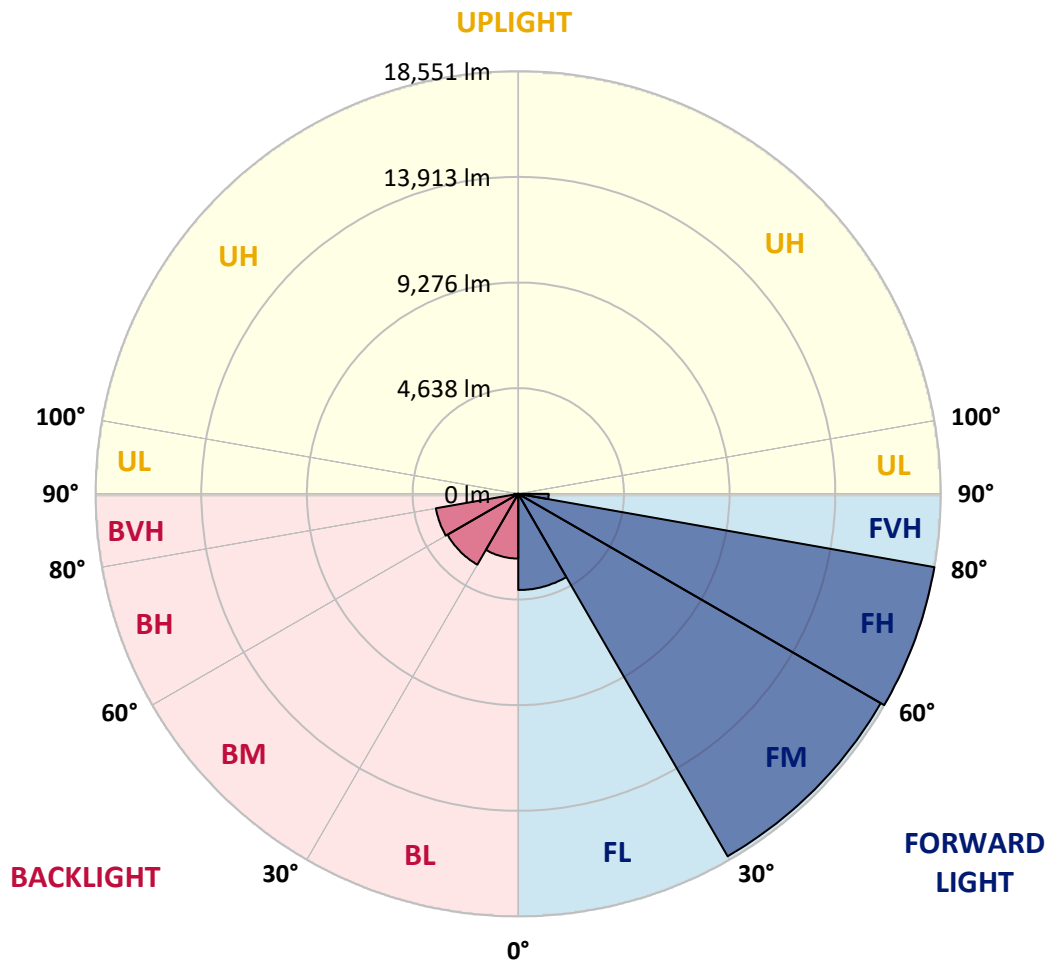


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4222.8	8.0			
FM (30°-60°)	18374.2	34.8			
FH (60°-80°)	18551.2	35.2			G5
FVH (80°-90°)	1334.1	2.5			G5
BL (0°-30°)	2841.4	5.4	B4/5000		
BM (30°-60°)	3589.3	6.8	B3/5000		
BH (60°-80°)	3670.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	174.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1
2.5°	11372.1	11500.6	11547.3	11617.4	11798.4	11932.8	12014.6	12108.0	12219.0	12312.4
5°	10577.7	10647.8	10758.8	10834.7	11062.5	11424.6	11670.0	12067.1	12055.4	12201.5
7.5°	9806.7	9876.8	9929.4	10081.2	10408.3	10735.4	11185.2	11827.7	11780.9	12119.7
10°	9327.8	9275.2	9292.7	9549.7	9806.7	10174.7	10741.3	11395.4	11564.8	12090.5
12.5°	8878.0	8819.6	8959.8	9123.4	9438.8	9771.7	10449.2	11039.1	11296.1	11985.4
15°	8597.7	8556.8	8732.0	8802.1	9175.9	9573.1	10052.0	10770.5	11050.8	11856.9
17.5°	8440.0	8475.0	8539.3	8691.1	8930.6	9269.4	9795.0	10589.4	10712.1	11699.2
20°	8469.2	8510.1	8515.9	8580.2	8743.7	9006.5	9543.9	10396.7	10478.4	11670.0
22.5°	8702.8	8644.4	8667.8	8626.9	8673.6	8878.0	9351.1	10139.7	10455.1	11424.6
25°	9053.3	8971.5	8959.8	8819.6	8732.0	8790.4	9316.1	10075.4	10279.8	11348.7
27.5°	9672.4	9549.7	9549.7	9339.5	8983.2	8889.7	9216.8	9970.3	10151.3	11278.6
30°	10268.2	10268.2	10274.0	9976.1	9578.9	9117.5	9257.7	9929.4	10046.2	11068.3
32.5°	10992.4	10974.9	10945.7	10799.7	10186.4	9497.2	9456.3	9876.8	9935.2	10998.3
35°	11699.2	11652.4	11880.2	11751.7	11126.8	10239.0	9660.7	9900.2	10028.7	10893.1
37.5°	12230.7	12259.9	12733.0	12814.8	12277.4	11080.0	10239.0	10133.8	10256.5	11045.0
40°	12919.9	13036.7	13480.6	13755.1	13428.0	12189.8	11156.0	10525.2	10612.8	11383.8
42.5°	13825.2	13924.5	14491.1	14847.4	14753.9	13603.3	12061.3	11342.9	11272.8	11950.3
45°	15022.6	15040.1	15612.5	16103.1	16295.9	15081.0	13498.1	12376.7	12318.3	12925.7
47.5°	16447.7	16430.2	16786.5	17312.2	17832.0	16844.9	15151.1	13947.9	13737.6	14321.7
50°	17826.2	17750.2	17832.0	18503.7	19502.5	19052.7	17160.3	15869.5	15659.2	15980.5
52.5°	18585.5	18678.9	18457.0	19344.8	21278.1	21663.6	19823.7	18164.9	17983.9	18141.6
55°	18054.0	18246.7	18100.7	18941.8	22054.9	24846.8	23269.8	20822.5	20588.9	20530.5
57.5°	15793.6	16144.0	16173.2	17504.9	21786.2	27311.7	28117.7	23959.0	23608.6	23012.8
60°	12125.5	12476.0	12744.7	14321.7	19485.0	28783.5	33736.6	28421.4	27264.9	25723.0
62.5°	8498.4	8737.9	9006.5	9976.1	15022.6	27919.1	38596.1	34706.1	32574.2	28579.1
65°	6191.3	6378.2	6652.7	7225.1	9228.5	23100.4	40850.7	42170.7	40149.8	32212.1
67.5°	4661.0	4777.8	5139.9	6056.9	6395.7	14269.1	38514.3	50055.8	48420.4	36248.1
70°	3527.9	3627.1	3965.9	5221.7	5975.2	7651.5	30383.9	51813.9	52281.1	40774.7
72.5°	2429.8	2540.8	2920.4	4351.4	5689.0	6068.6	19070.3	47071.1	48840.9	42638.0
75°	1489.4	1565.3	1787.3	3300.1	5648.1	5934.3	10495.9	38572.8	40447.7	39396.3
77.5°	1051.3	1045.5	1086.4	1933.3	4894.6	5969.3	6471.6	28263.7	30086.0	29034.7
80°	765.1	771.0	811.9	1156.5	3323.4	6068.6	5099.0	18930.1	19473.3	15139.4
82.5°	461.4	484.8	584.1	782.7	1997.6	5478.7	4713.5	10519.3	9841.8	4859.6
85°	245.3	245.3	344.6	496.5	1063.0	4088.6	4538.3	5005.6	4193.7	1506.9
87.5°	58.4	58.4	99.3	198.6	426.4	1956.7	3095.6	1991.7	1594.5	508.2
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
12213.1	0°	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1	12213.1
12370.8	2.5°	12347.5	12277.4	12365.0	12189.8	12049.6	12055.4	11839.3	11827.7	11798.4	11646.6
12423.4	5°	12487.7	12429.3	12330.0	12137.2	11827.7	11518.1	11331.2	11091.7	10992.4	10939.8
12464.3	7.5°	12622.0	12516.9	12230.7	11962.0	11483.0	10899.0	10560.2	10239.0	9830.1	9783.4
12581.1	10°	12657.0	12435.1	12067.1	11494.7	10858.1	10209.7	9438.8	8843.0	8527.6	8282.3
12633.7	12.5°	12604.5	12511.0	11804.3	11068.3	10104.6	9088.3	8188.8	7347.7	6763.7	6459.9
12551.9	15°	12598.6	12435.1	11512.2	10420.0	9187.6	7861.7	6582.6	5572.1	4958.9	4707.7
12534.4	17.5°	12604.5	12213.1	11167.6	9765.8	8107.1	6313.9	4906.3	4076.9	3738.1	3703.1
12581.1	20°	12487.7	12049.6	10805.5	8994.9	6752.0	4742.7	3562.9	3224.1	3224.1	3270.9
12481.8	22.5°	12382.5	11804.3	10233.1	8042.8	5373.6	3434.4	2897.0	2797.8	2908.7	2990.5
12476.0	25°	12236.5	11599.9	9649.0	7055.7	4088.6	2768.5	2517.4	2540.8	2645.9	2791.9
12341.6	27.5°	12026.2	11243.6	8954.0	5910.9	3043.1	2388.9	2324.6	2336.3	2447.3	2511.6
12160.6	30°	11786.8	10881.4	8311.5	4771.9	2412.3	2190.3	2184.5	2213.7	2231.2	2266.2
12108.0	32.5°	11483.0	10402.5	7628.1	3708.9	2172.8	2079.3	2056.0	2038.4	2056.0	2050.1
11944.5	35°	11266.9	10145.5	6933.0	2827.0	2038.4	1980.0	1962.5	1933.3	1909.9	1874.9
11944.5	37.5°	11208.5	9888.5	6202.9	2307.1	1933.3	1904.1	1845.7	1793.1	1763.9	1746.4
12201.5	40°	11173.5	9719.1	5490.4	2026.8	1845.7	1816.5	1746.4	1676.3	1647.1	1629.6
12587.0	42.5°	11296.1	9625.7	4766.1	1886.6	1769.8	1717.2	1641.3	1559.5	1553.7	1542.0
13293.7	45°	11728.4	9742.5	4094.4	1787.3	1693.8	1606.2	1506.9	1466.0	1460.2	1448.5
14467.7	47.5°	12709.6	10034.5	3522.0	1723.0	1612.1	1536.1	1431.0	1372.6	1366.8	1360.9
16231.6	50°	14064.7	10934.0	3043.1	1647.1	1559.5	1454.4	1355.1	1290.8	1279.1	1255.8
18579.6	52.5°	16190.7	12446.8	2756.9	1606.2	1466.0	1378.4	1273.3	1203.2	1174.0	1150.6
21248.9	55°	18585.5	14321.7	2704.3	1536.1	1366.8	1285.0	1191.5	1121.4	1092.2	1063.0
23754.6	57.5°	21313.1	16804.0	3078.1	1489.4	1296.7	1191.5	1086.4	1022.1	998.8	969.6
26166.9	60°	23853.9	19280.5	4240.4	1419.3	1232.4	1103.9	998.8	934.5	905.3	876.1
29134.0	62.5°	26791.8	22347.0	6208.8	1419.3	1174.0	1010.5	905.3	858.6	841.1	811.9
32142.0	65°	30267.1	25518.5	7645.6	1506.9	1156.5	928.7	817.7	771.0	753.5	735.9
34560.1	67.5°	32913.0	27340.9	6576.8	1740.6	1232.4	858.6	730.1	700.9	689.2	671.7
36183.9	70°	33193.4	26231.1	3965.9	1880.7	1308.3	788.5	654.2	625.0	625.0	607.4
34443.3	72.5°	30676.0	23275.7	2669.3	1676.3	1185.7	706.7	578.2	554.9	543.2	531.5
30132.8	75°	25670.4	19742.0	2108.5	1337.5	911.2	584.1	502.3	478.9	461.4	455.6
20448.7	77.5°	17242.1	12832.3	1559.5	1045.5	671.7	473.1	420.5	397.2	379.7	373.8
8066.2	80°	6623.5	4888.8	1004.6	759.3	473.1	373.8	332.9	309.6	297.9	280.4
2219.5	82.5°	1950.8	1582.9	560.7	467.3	303.7	257.0	239.5	222.0	204.4	186.9
823.6	85°	806.0	724.3	344.6	245.3	186.9	151.9	140.2	122.7	105.1	93.5
338.8	87.5°	373.8	309.6	157.7	93.5	64.2	35.0	17.5	5.8	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°
12213.1
11699.2
10963.2
9701.6
8188.8
6378.2
4707.7
3732.3
3288.4
3025.5
2780.2
2499.9
2260.4
2032.6
1869.1
1734.7
1635.4
1559.5
1460.2
1360.9
1255.8
1150.6
1051.3
957.9
876.1
806.0
730.1
660.0
595.8
525.7
443.9
356.3
268.7
181.1
81.8
0.0
0.0

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