

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: P575018

Luminaire Tested: **EPH-VN-06-740-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575018
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-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

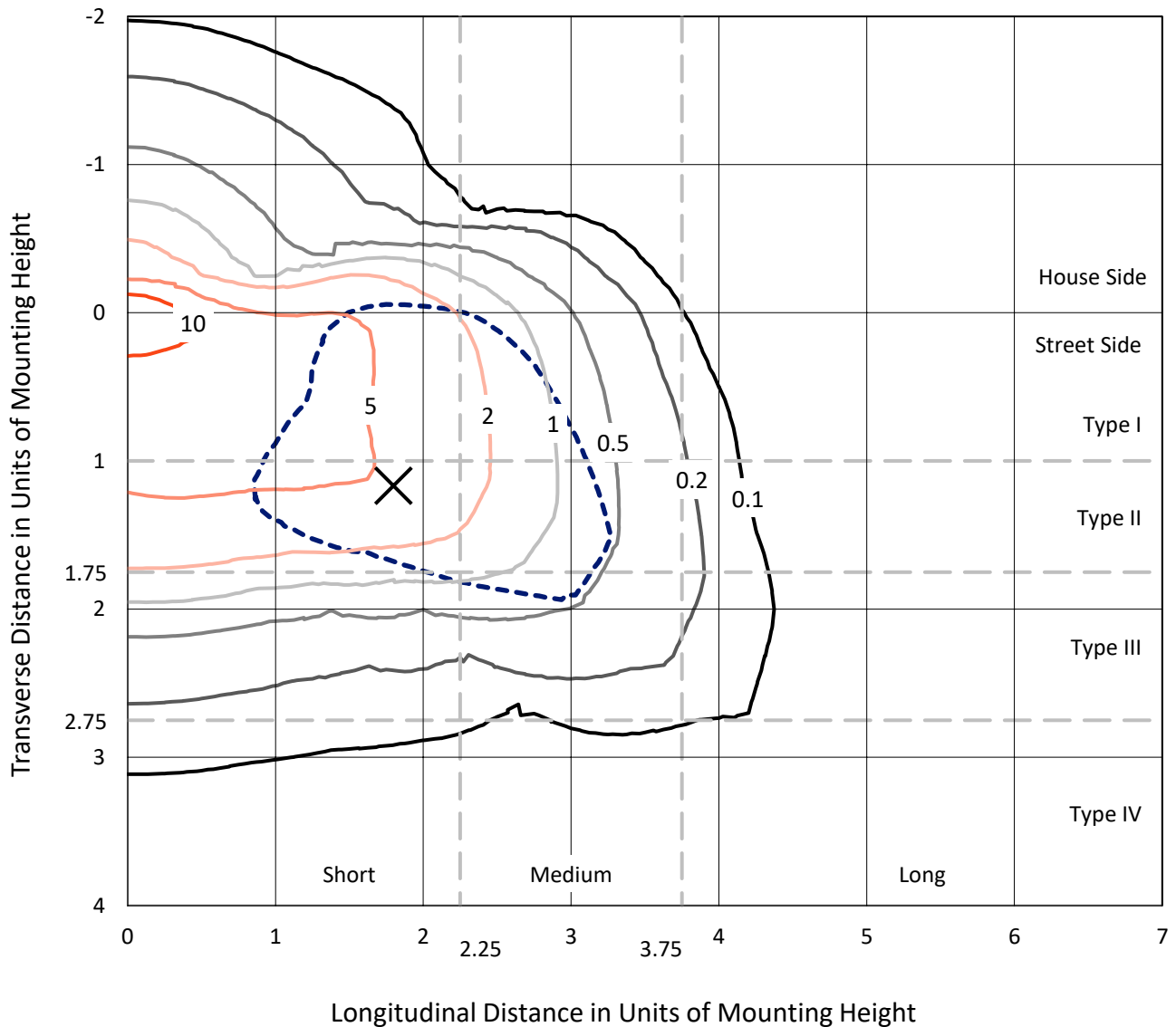
Lumens per Lamp: N/A
Luminaire Lumens: 52210.6 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

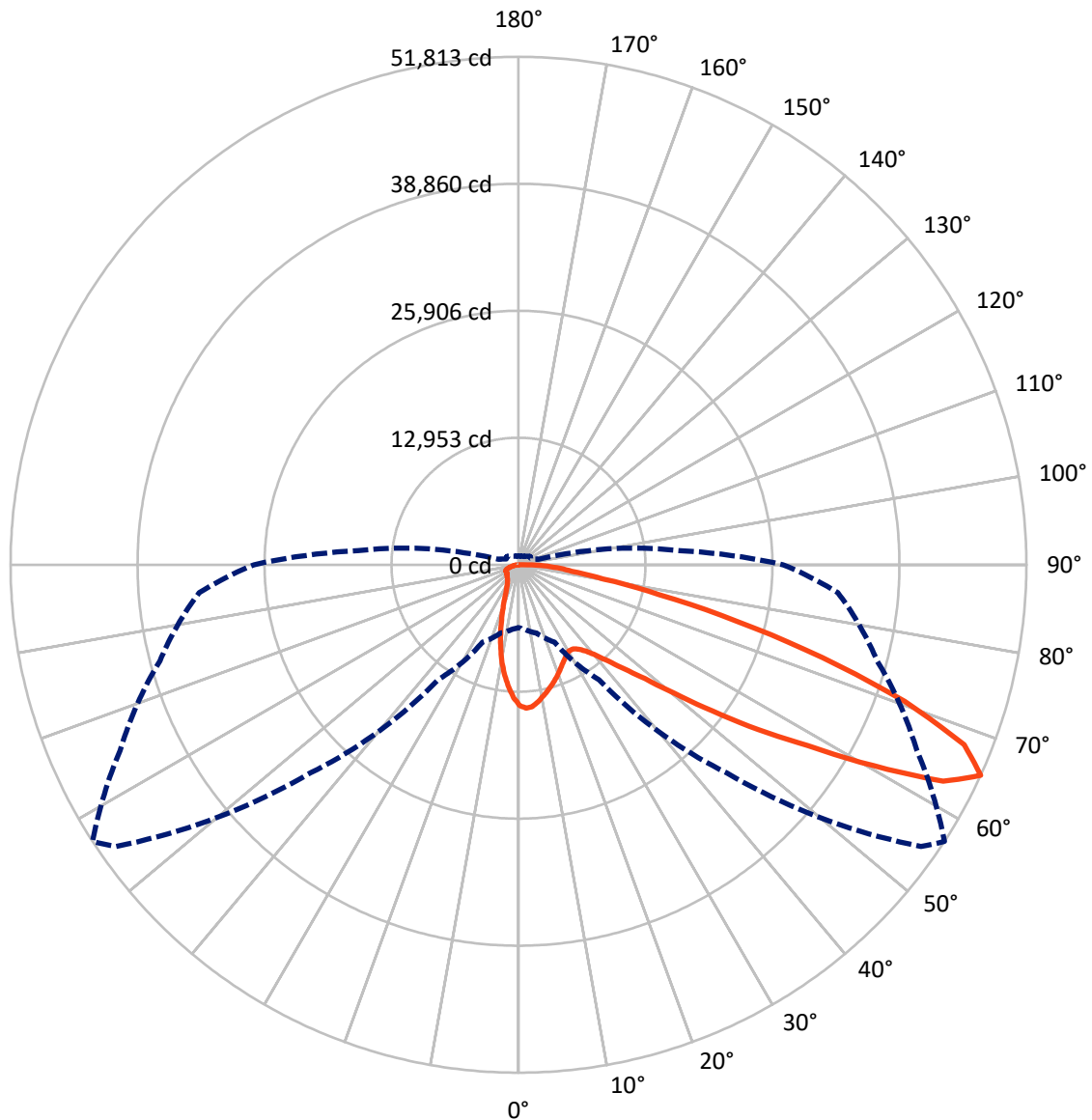
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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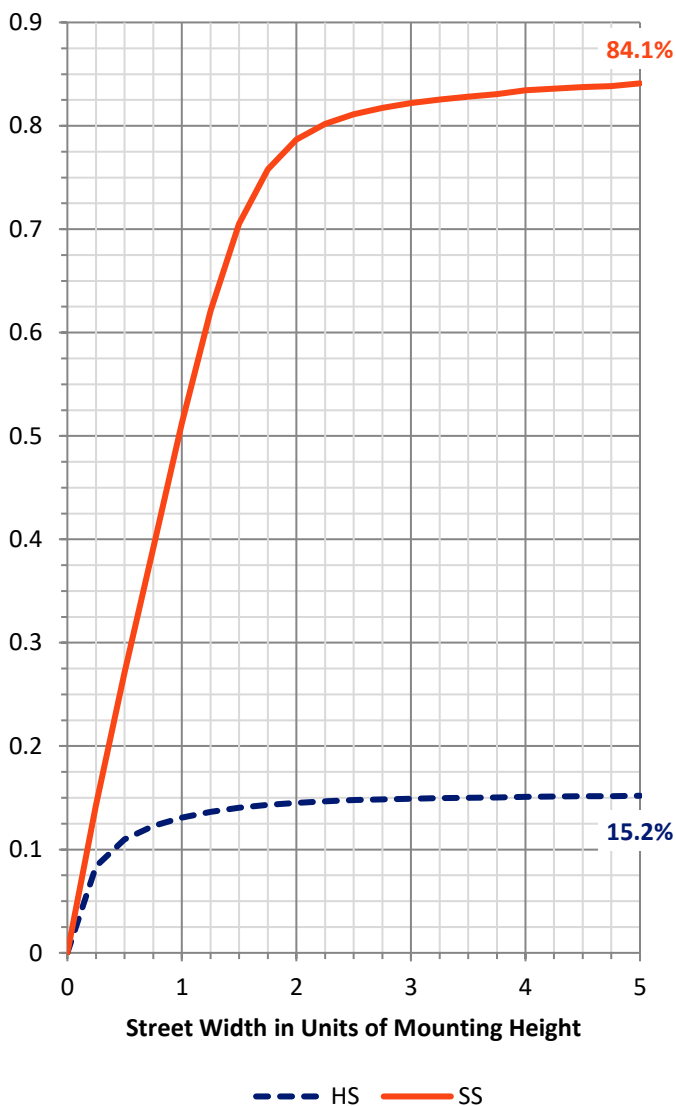
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8007.0	0.0	8007.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	44203.6	0.0	44203.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	52210.6	0.0	52210.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1202.3	2.3
10°-20°	2587.6	5.0
20°-30°	3345.5	6.4
30°-40°	4501.9	8.6
40°-50°	7178.5	13.7
50°-60°	12678.9	24.3
60°-70°	13948.5	26.7
70°-80°	5834.9	11.2
80°-90°	932.5	1.8
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°	52210.6	100.0
0°-180°	52210.6	100.0

Coefficient of Utilization

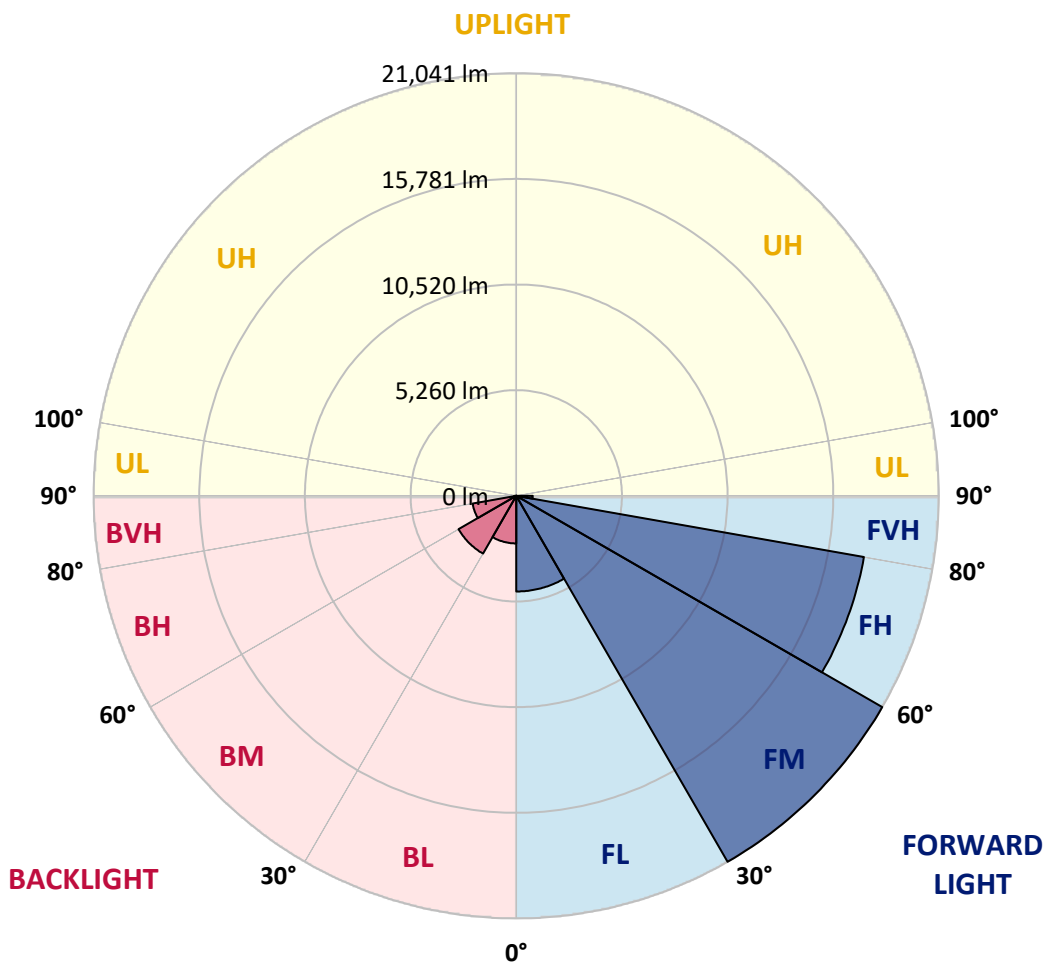


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4764.0	9.1			
FM (30°-60°)	21040.8	40.3			
FH (60°-80°)	17575.6	33.7			G5
FVH (80°-90°)	823.1	1.6			G5
BL (0°-30°)	2371.3	4.5	B3/2500		
BM (30°-60°)	3318.5	6.4	B3/5000		
BH (60°-80°)	2207.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	109.4	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2
2.5°	14744.9	14768.4	14768.4	14815.4	14656.8	14733.1	14721.4	14650.9	14674.4	14551.0
5°	14327.8	14310.2	14404.2	14415.9	14539.3	14574.5	14603.9	14556.9	14568.7	14298.4
7.5°	13258.7	13252.8	13411.4	13546.5	13805.0	14045.8	14204.4	14157.4	14222.1	14051.7
10°	11989.8	12124.9	12289.4	12424.5	12900.3	13205.8	13617.0	13658.1	13904.8	13863.7
12.5°	11038.1	11096.9	11220.2	11607.9	12042.6	12547.8	13135.3	13188.2	13429.0	13546.5
15°	10256.8	10309.7	10468.3	10756.1	11243.7	11842.9	12589.0	12724.1	13205.8	13246.9
17.5°	9687.0	9728.1	9833.8	10121.7	10521.2	11290.7	11995.6	12236.5	12870.9	13070.7
20°	9463.8	9375.6	9434.4	9616.5	10016.0	10609.3	11519.8	11731.3	12542.0	12935.6
22.5°	9363.9	9287.5	9322.8	9311.0	9628.2	10051.2	11008.7	11232.0	12230.6	12776.9
25°	9440.3	9440.3	9405.0	9375.6	9410.9	9687.0	10456.5	10803.1	11813.5	12641.8
27.5°	9851.5	9692.9	9710.5	9587.1	9551.9	9551.9	10209.8	10415.4	11678.4	12565.5
30°	10115.8	10192.2	10198.1	10016.0	9833.8	9504.9	9980.7	10180.4	11566.8	12659.5
32.5°	10791.4	10756.1	10656.3	10621.0	10350.8	9980.7	10092.3	10227.4	11502.2	12870.9
35°	11466.9	11449.3	11455.2	11437.6	11155.6	10609.3	10391.9	10574.0	11619.7	13241.0
37.5°	12166.0	12213.0	12412.7	12412.7	12113.1	11519.8	11232.0	11179.1	12048.5	13846.1
40°	12865.1	12982.6	13235.2	13634.6	13211.7	12659.5	12195.4	12113.1	12565.5	14656.8
42.5°	13534.8	13728.6	14227.9	14821.3	14680.3	14128.1	13511.3	13417.3	13628.7	15861.0
45°	14392.4	14556.9	15344.1	16254.6	16448.5	15960.9	15238.3	15162.0	15150.2	17623.4
47.5°	15696.6	15872.8	16660.0	17576.4	18175.6	18251.9	17441.3	17359.0	17077.0	20002.5
50°	17329.7	17617.5	18281.3	19350.5	20219.9	21036.4	20807.3	20566.5	20014.3	22769.4
52.5°	18522.2	18874.6	19773.4	21142.2	22675.4	23973.7	24796.1	24796.1	23527.2	25806.5
55°	18839.4	19050.9	20184.6	22164.3	24790.2	28074.0	29795.3	29666.0	27709.8	29002.2
57.5°	17576.4	17852.5	19227.1	21300.8	25900.5	31910.1	34759.2	34788.5	32280.1	32714.9
60°	14098.7	14186.8	15808.2	18580.9	24831.3	35000.0	41538.3	41649.9	37479.0	36022.2
62.5°	9745.7	10027.7	11249.6	13681.6	20572.4	34653.4	48076.6	48628.8	41644.0	37766.9
65°	6414.9	6585.3	7237.3	8717.7	14321.9	30036.1	50109.1	51812.7	44828.0	37866.8
67.5°	4652.6	4681.9	4875.8	5639.5	8606.1	21600.4	46637.3	49040.0	46020.5	37032.6
70°	3759.7	3783.2	3853.6	4341.2	5557.2	13517.1	38037.1	41802.6	42443.0	33079.1
72.5°	3054.7	3084.1	3172.2	3630.4	4582.1	7519.3	27815.6	32403.5	34524.2	24473.0
75°	2402.7	2426.2	2637.6	3090.0	4306.0	5163.6	18451.7	22945.6	23233.5	14304.3
77.5°	1644.8	1686.0	1944.4	2620.0	4053.4	4517.5	11502.2	14697.9	13188.2	5598.4
80°	1045.7	1104.4	1257.1	1985.6	3583.4	4311.9	7155.1	8776.4	5774.6	1915.1
82.5°	616.8	675.6	828.3	1286.5	2813.9	4000.5	5040.3	5492.6	2708.1	981.0
85°	340.7	381.8	499.3	775.4	1650.7	3554.0	4035.8	3941.8	1550.9	522.8
87.5°	111.6	129.2	182.1	311.3	681.4	1674.2	2420.3	2273.4	804.8	240.9
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
14357.2	0°	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2	14357.2
14427.7	2.5°	14345.4	14327.8	14063.5	13863.7	13523.0	13241.0	13129.4	12976.7	12970.8	12859.2
14180.9	5°	13998.8	13816.7	13411.4	13023.7	12418.6	12013.3	11643.2	11384.7	11279.0	11049.9
13775.6	7.5°	13552.4	13311.5	12688.8	11960.4	11249.6	10615.1	10039.4	9463.8	9140.7	9029.0
13364.4	10°	13088.3	12665.3	11743.0	10926.5	9933.7	8958.5	8053.9	7243.2	6802.6	6491.3
13111.8	12.5°	12718.2	12154.3	10979.4	9757.5	8447.5	7143.3	6091.8	5240.0	4740.7	4505.7
12782.8	15°	12301.1	11555.1	10145.2	8600.2	6967.1	5486.7	4458.7	3789.0	3589.3	3477.7
12442.1	17.5°	11860.5	10997.0	9240.5	7460.6	5522.0	4129.7	3465.9	3195.7	3107.6	3060.6
12119.0	20°	11449.3	10497.7	8312.4	6191.7	4323.6	3313.2	3001.8	2860.9	2855.0	2878.5
11831.2	22.5°	10867.7	9845.6	7395.9	5016.8	3454.2	2884.4	2684.6	2649.4	2684.6	2714.0
11537.4	25°	10538.8	9311.0	6373.8	3982.9	2855.0	2561.3	2496.6	2484.9	2537.8	2573.0
11296.6	27.5°	10198.1	8758.8	5422.1	3189.8	2502.5	2332.2	2320.4	2332.2	2385.0	2437.9
11155.6	30°	9933.7	8318.2	4529.2	2667.0	2232.3	2167.7	2155.9	2167.7	2197.0	2202.9
11196.7	32.5°	9716.4	7795.4	3771.4	2314.5	2067.8	2014.9	2026.7	2020.8	2026.7	2032.6
11337.7	35°	9587.1	7484.1	3148.7	2097.2	1932.7	1891.6	1885.7	1868.1	1874.0	1879.8
11672.5	37.5°	9863.2	7331.3	2655.3	1944.4	1838.7	1803.5	1791.7	1780.0	1762.3	1762.3
12477.3	40°	10280.3	7249.1	2355.7	1844.6	1768.2	1727.1	1691.8	1680.1	1680.1	1686.0
13599.4	42.5°	11108.6	7384.2	2150.1	1768.2	1680.1	1633.1	1597.9	1603.7	1621.4	1639.0
15144.4	45°	12307.0	7795.4	2056.1	1709.5	1627.2	1562.6	1539.1	1533.2	1550.9	1580.2
17406.0	47.5°	13875.5	8435.7	2020.8	1656.6	1592.0	1503.9	1474.5	1492.1	1515.6	1556.7
20272.8	50°	16442.6	9875.0	2050.2	1609.6	1539.1	1474.5	1439.2	1421.6	1439.2	1468.6
23721.1	52.5°	19796.9	12489.1	2161.8	1586.1	1503.9	1451.0	1392.2	1362.9	1380.5	1404.0
27733.3	55°	23809.2	16060.8	2473.1	1556.7	1445.1	1415.7	1351.1	1292.4	1304.1	1304.1
31692.7	57.5°	27345.6	18757.1	2843.2	1515.6	1409.9	1368.7	1286.5	1216.0	1204.3	1210.1
33707.6	60°	28931.7	19473.8	3019.5	1503.9	1409.9	1310.0	1198.4	1127.9	1110.3	1098.5
34024.9	62.5°	28655.6	18234.3	2661.1	1451.0	1445.1	1263.0	1116.1	1039.8	1016.3	992.8
32697.2	65°	26987.3	16466.1	2097.2	1380.5	1451.0	1233.6	1033.9	957.5	916.4	887.0
29583.8	67.5°	23938.4	14057.6	1662.5	1327.6	1392.2	1180.8	963.4	875.3	840.0	810.7
23826.8	70°	18727.8	11020.5	1445.1	1257.1	1251.3	1051.5	881.2	804.8	751.9	716.7
15837.5	72.5°	12142.5	6967.1	1239.5	1116.1	1080.9	881.2	763.7	716.7	675.6	646.2
7413.6	75°	5498.5	3236.8	998.7	934.0	881.2	704.9	646.2	622.7	587.4	558.1
2549.5	77.5°	1973.8	1380.5	746.1	734.3	657.9	546.3	522.8	505.2	481.7	452.3
1227.8	80°	1104.4	875.3	558.1	534.6	458.2	405.3	376.0	376.0	364.2	346.6
740.2	82.5°	699.1	569.8	411.2	358.3	299.6	270.2	258.5	252.6	246.7	223.2
464.1	85°	440.6	387.7	270.2	211.5	176.2	135.1	129.2	123.4	111.6	99.9
182.1	87.5°	199.7	223.2	105.7	64.6	47.0	29.4	17.6	5.9	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°
14357.2
12829.8
10997.0
8905.7
6356.2
4400.0
3460.1
3037.1
2872.6
2725.7
2567.1
2432.0
2202.9
2038.4
1874.0
1762.3
1691.8
1627.2
1603.7
1539.1
1480.4
1404.0
1298.3
1216.0
1098.5
998.7
881.2
798.9
716.7
646.2
558.1
452.3
340.7
217.4
99.9
0.0
0.0

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