

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: P575013

Luminaire Tested: **EPH-VN-07-735-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575013  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-735-U-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

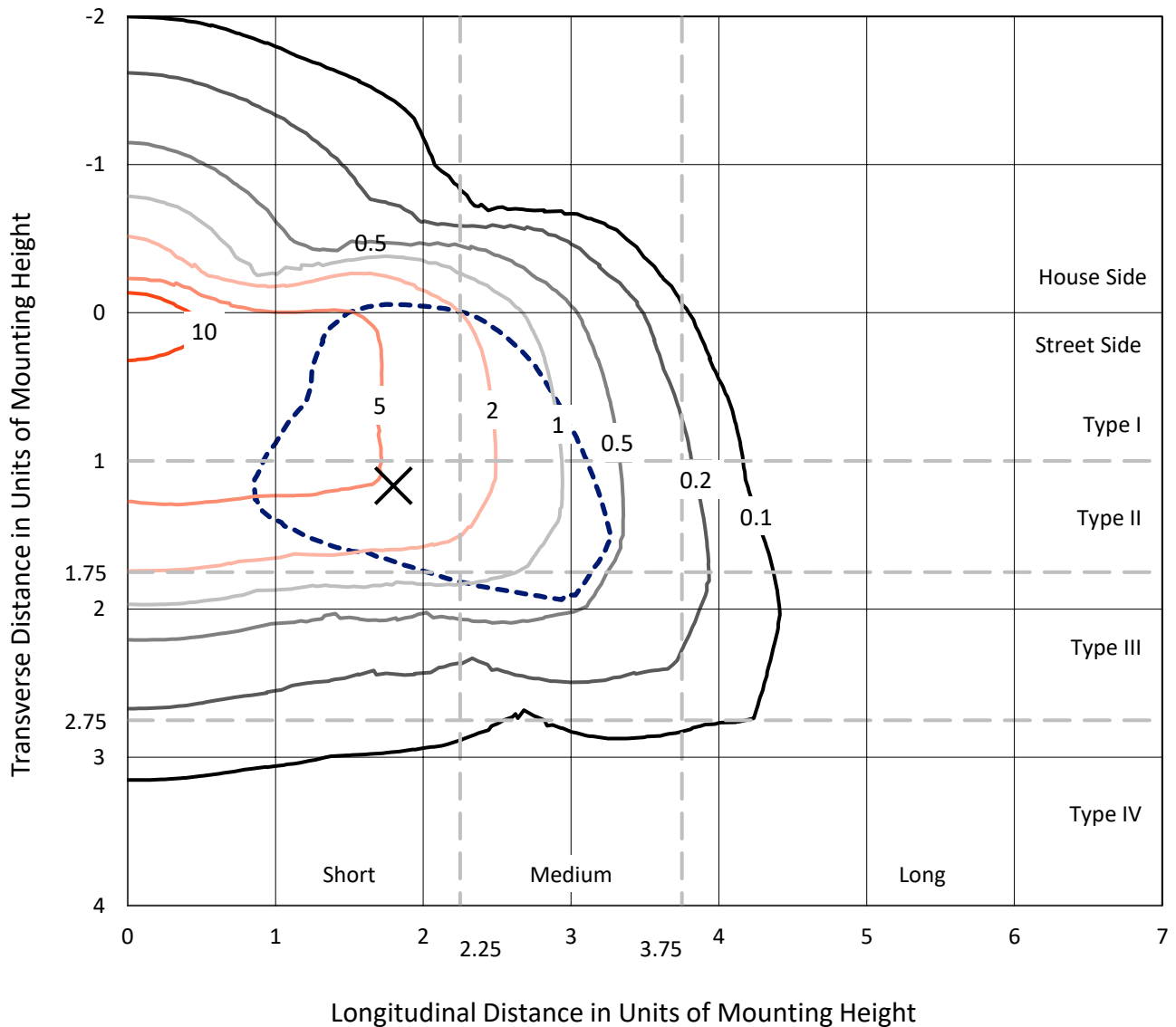
Lumens per Lamp: N/A  
Luminaire Lumens: 54939 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7  
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

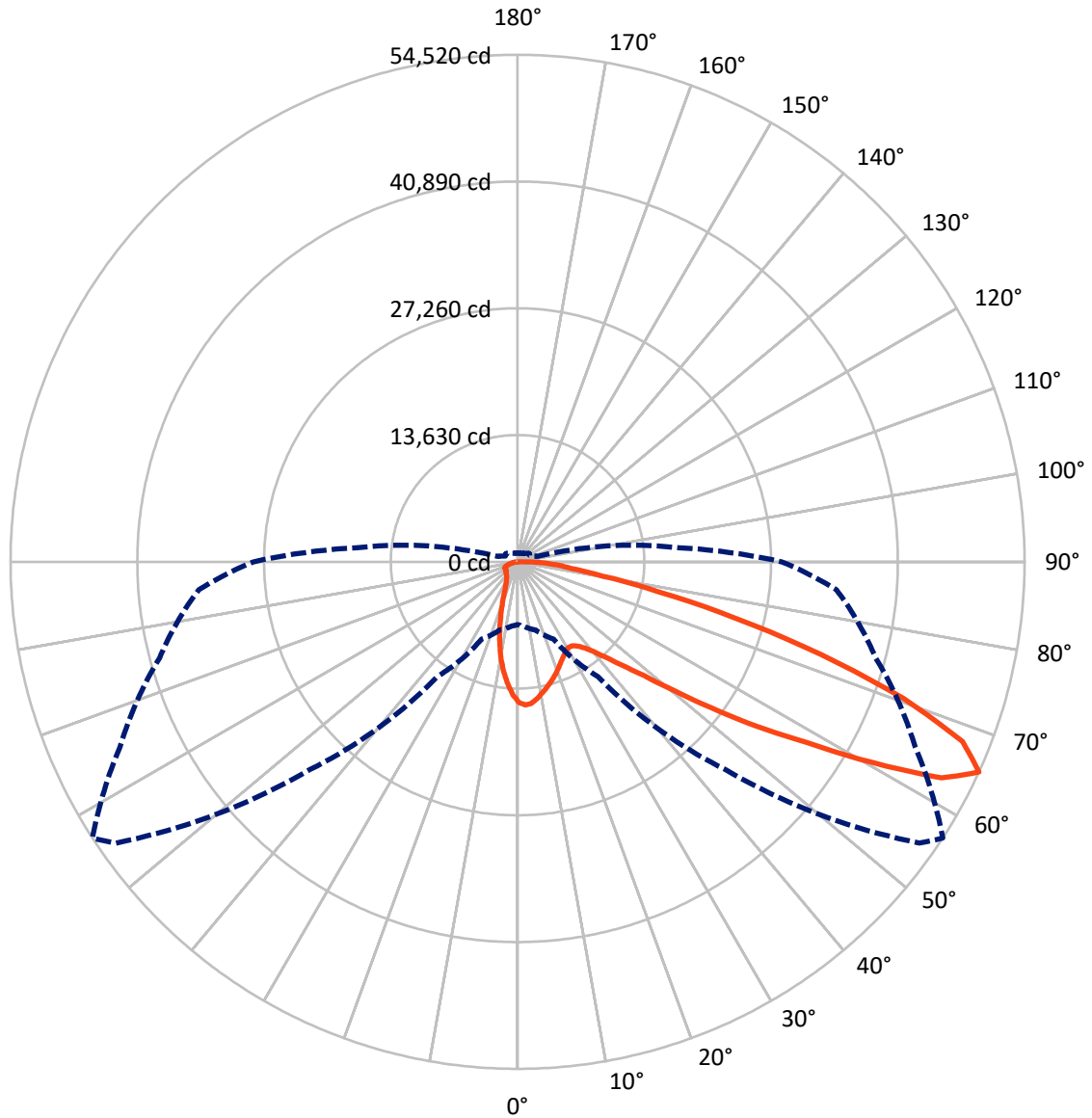
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.8 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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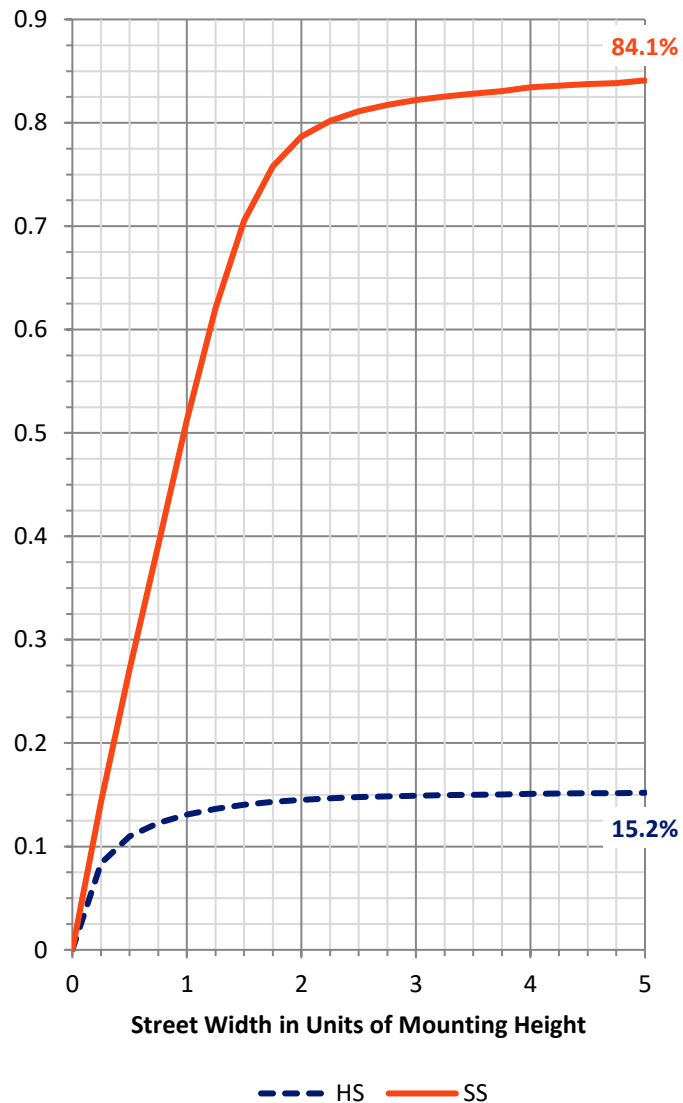
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8425.4	0.0	8425.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	46513.6	0.0	46513.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	54939.0	0.0	54939.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1265.1	2.3
10°-20°	2722.8	5.0
20°-30°	3520.3	6.4
30°-40°	4737.2	8.6
40°-50°	7553.6	13.7
50°-60°	13341.5	24.3
60°-70°	14677.4	26.7
70°-80°	6139.8	11.2
80°-90°	981.3	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°	54939.0	100.0
0°-180°	54939.0	100.0

**Coefficient of Utilization**



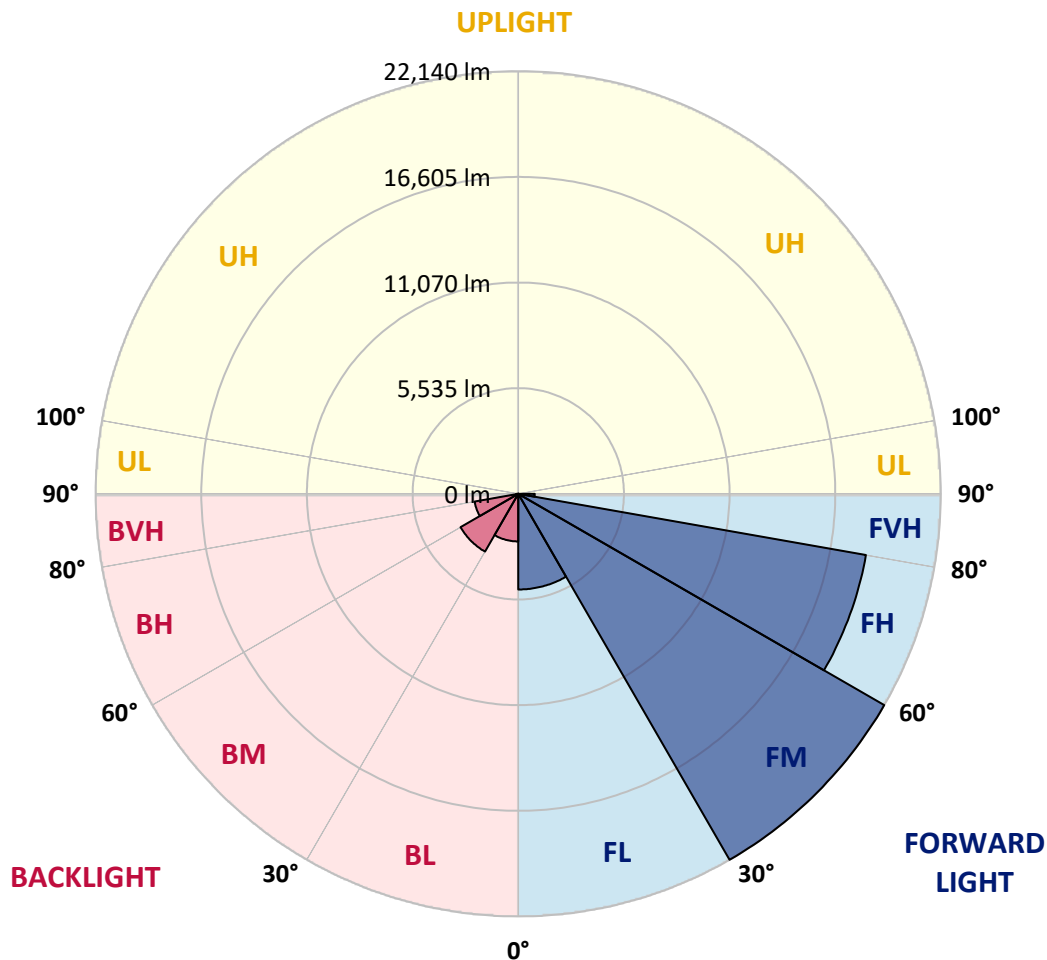
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5013.0	9.1			
FM (30°-60°)	22140.3	40.3			
FH (60°-80°)	18494.1	33.7			G5
FVH (80°-90°)	866.1	1.6			G5
BL (0°-30°)	2495.2	4.5	B3/2500		
BM (30°-60°)	3491.9	6.4	B3/5000		
BH (60°-80°)	2323.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	115.1	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°	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4
2.5°	15515.4	15540.1	15540.1	15589.6	15422.7	15503.1	15490.7	15416.5	15441.2	15311.4
5°	15076.5	15058.0	15156.9	15169.3	15299.1	15336.2	15367.1	15317.6	15330.0	15045.6
7.5°	13951.5	13945.3	14112.2	14254.4	14526.4	14779.8	14946.7	14897.3	14965.3	14786.0
10°	12616.3	12758.5	12931.6	13073.7	13574.4	13895.9	14328.6	14371.8	14631.5	14588.2
12.5°	11614.9	11676.7	11806.6	12214.5	12672.0	13203.6	13821.7	13877.3	14130.8	14254.4
15°	10792.8	10848.4	11015.3	11318.2	11831.3	12461.8	13246.8	13389.0	13895.9	13939.1
17.5°	10193.2	10236.5	10347.7	10650.6	11071.0	11880.7	12622.5	12875.9	13543.5	13753.7
20°	9958.3	9865.6	9927.4	10119.0	10539.4	11163.7	12121.8	12344.3	13197.4	13611.5
22.5°	9853.2	9772.9	9809.9	9797.6	10131.4	10576.4	11584.0	11818.9	12869.8	13444.6
25°	9933.6	9933.6	9896.5	9865.6	9902.7	10193.2	11003.0	11367.7	12430.9	13302.5
27.5°	10366.3	10199.4	10217.9	10088.1	10051.0	10051.0	10743.3	10959.7	12288.7	13222.1
30°	10644.4	10724.8	10731.0	10539.4	10347.7	10001.6	10502.3	10712.4	12171.3	13321.0
32.5°	11355.3	11318.2	11213.1	11176.0	10891.7	10502.3	10619.7	10761.9	12103.3	13543.5
35°	12066.2	12047.6	12053.8	12035.3	11738.6	11163.7	10935.0	11126.6	12226.9	13933.0
37.5°	12801.8	12851.2	13061.4	13061.4	12746.1	12121.8	11818.9	11763.3	12678.1	14569.7
40°	13537.4	13661.0	13926.8	14347.1	13902.1	13321.0	12832.7	12746.1	13222.1	15422.7
42.5°	14242.0	14446.0	14971.4	15595.8	15447.4	14866.4	14217.3	14118.4	14340.9	16689.9
45°	15144.5	15317.6	16145.9	17104.0	17308.0	16795.0	16034.7	15954.3	15941.9	18544.3
47.5°	16516.8	16702.3	17530.6	18494.9	19125.4	19205.7	18352.7	18266.2	17969.4	21047.8
50°	18235.2	18538.1	19236.6	20361.7	21276.5	22135.7	21894.7	21641.2	21060.2	23959.3
52.5°	19490.1	19861.0	20806.7	22247.0	23860.4	25226.5	26091.9	26091.9	24756.7	27155.1
55°	19823.9	20046.4	21239.4	23322.6	26085.7	29541.1	31352.3	31216.3	29157.9	30517.8
57.5°	18494.9	18785.4	20231.9	22413.9	27254.0	33577.6	36575.6	36606.5	33967.0	34424.4
60°	14835.5	14928.2	16634.3	19551.9	26128.9	36829.0	43709.0	43826.4	39437.6	37904.6
62.5°	10255.0	10551.7	11837.5	14396.6	21647.4	36464.3	50588.9	51170.0	43820.2	39740.5
65°	6750.1	6929.4	7615.5	9173.3	15070.4	31605.7	52727.7	54520.3	47170.6	39845.6
67.5°	4895.7	4926.6	5130.6	5934.2	9055.8	22729.2	49074.5	51602.7	48425.4	38967.8
70°	3956.1	3980.8	4055.0	4568.1	5847.6	14223.5	40024.8	43987.1	44660.9	34807.7
72.5°	3214.3	3245.3	3338.0	3820.1	4821.5	7912.2	29269.1	34096.8	36328.3	25751.9
75°	2528.2	2552.9	2775.5	3251.4	4531.0	5433.5	19415.9	24144.7	24447.6	15051.8
77.5°	1730.8	1774.1	2046.1	2756.9	4265.2	4753.5	12103.3	15466.0	13877.3	5890.9
80°	1100.3	1162.1	1322.8	2089.3	3770.7	4537.2	7529.0	9235.1	6076.4	2015.1
82.5°	649.1	710.9	871.6	1353.7	2960.9	4209.6	5303.7	5779.6	2849.6	1032.3
85°	358.5	401.8	525.4	816.0	1737.0	3739.8	4246.6	4147.7	1631.9	550.1
87.5°	117.4	136.0	191.6	327.6	717.0	1761.7	2546.8	2392.2	846.9	253.4
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°
15107.4	0°	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4	15107.4
15181.6	2.5°	15095.1	15076.5	14798.4	14588.2	14229.7	13933.0	13815.5	13654.8	13648.6	13531.2
14922.0	5°	14730.4	14538.7	14112.2	13704.3	13067.6	12641.0	12251.6	11979.6	11868.4	11627.3
14495.5	7.5°	14260.6	14007.1	13351.9	12585.4	11837.5	11169.9	10564.1	9958.3	9618.3	9500.9
14062.8	10°	13772.2	13327.2	12356.7	11497.5	10452.8	9426.7	8474.8	7621.7	7158.1	6830.5
13797.0	12.5°	13382.8	12789.4	11553.1	10267.4	8888.9	7516.6	6410.2	5513.8	4988.4	4741.2
13450.8	15°	12943.9	12158.9	10675.3	9049.6	7331.2	5773.5	4691.7	3987.0	3776.9	3659.4
13092.3	17.5°	12480.3	11571.7	9723.4	7850.4	5810.6	4345.6	3647.0	3362.7	3270.0	3220.5
12752.3	20°	12047.6	11046.2	8746.7	6515.2	4549.5	3486.3	3158.7	3010.4	3004.2	3028.9
12449.4	22.5°	11435.7	10360.1	7782.4	5278.9	3634.7	3035.1	2824.9	2787.8	2824.9	2855.8
12140.3	25°	11089.5	9797.6	6706.9	4191.0	3004.2	2695.1	2627.1	2614.7	2670.4	2707.5
11886.9	27.5°	10731.0	9216.5	5705.5	3356.5	2633.3	2454.0	2441.7	2454.0	2509.7	2565.3
11738.6	30°	10452.8	8752.9	4765.9	2806.4	2348.9	2281.0	2268.6	2281.0	2311.9	2318.0
11781.8	32.5°	10224.1	8202.8	3968.5	2435.5	2175.9	2120.2	2132.6	2126.4	2132.6	2138.8
11930.2	35°	10088.1	7875.2	3313.3	2206.8	2033.7	1990.4	1984.2	1965.7	1971.9	1978.1
12282.5	37.5°	10378.6	7714.4	2794.0	2046.1	1934.8	1897.7	1885.3	1873.0	1854.4	1854.4
13129.4	40°	10817.5	7627.9	2478.8	1941.0	1860.6	1817.3	1780.3	1767.9	1767.9	1774.1
14310.0	42.5°	11689.1	7770.1	2262.4	1860.6	1767.9	1718.4	1681.4	1687.5	1706.1	1724.6
15935.8	45°	12950.1	8202.8	2163.5	1798.8	1712.3	1644.3	1619.5	1613.4	1631.9	1662.8
18315.6	47.5°	14600.6	8876.5	2126.4	1743.2	1675.2	1582.4	1551.5	1570.1	1594.8	1638.1
21332.2	50°	17301.9	10391.0	2157.3	1693.7	1619.5	1551.5	1514.5	1495.9	1514.5	1545.4
24960.7	52.5°	20831.5	13141.7	2274.8	1669.0	1582.4	1526.8	1465.0	1434.1	1452.6	1477.4
29182.6	55°	25053.4	16900.1	2602.4	1638.1	1520.6	1489.7	1421.7	1359.9	1372.3	1372.3
33348.9	57.5°	28774.6	19737.3	2991.8	1594.8	1483.5	1440.3	1353.7	1279.6	1267.2	1273.4
35469.1	60°	30443.6	20491.5	3177.3	1582.4	1483.5	1378.5	1261.0	1186.8	1168.3	1155.9
35802.9	62.5°	30153.1	19187.2	2800.2	1526.8	1520.6	1329.0	1174.5	1094.1	1069.4	1044.7
34405.9	65°	28397.5	17326.6	2206.8	1452.6	1526.8	1298.1	1087.9	1007.6	964.3	933.4
31129.7	67.5°	25189.4	14792.2	1749.3	1397.0	1465.0	1242.5	1013.8	921.0	883.9	853.0
25071.9	70°	19706.4	11596.4	1520.6	1322.8	1316.6	1106.5	927.2	846.9	791.2	754.1
16665.2	72.5°	12777.0	7331.2	1304.3	1174.5	1137.4	927.2	803.6	754.1	710.9	680.0
7801.0	75°	5785.8	3406.0	1050.8	982.8	927.2	741.8	680.0	655.2	618.1	587.2
2682.7	77.5°	2077.0	1452.6	785.0	772.7	692.3	574.9	550.1	531.6	506.9	476.0
1291.9	80°	1162.1	921.0	587.2	562.5	482.2	426.5	395.6	395.6	383.2	364.7
778.9	82.5°	735.6	599.6	432.7	377.1	315.3	284.3	272.0	265.8	259.6	234.9
488.3	85°	463.6	408.0	284.3	222.5	185.4	142.2	136.0	129.8	117.4	105.1
191.6	87.5°	210.2	234.9	111.3	68.0	49.5	30.9	18.5	6.2	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°
15107.4
13500.3
11571.7
9371.1
6688.3
4629.9
3640.9
3195.8
3022.7
2868.2
2701.3
2559.1
2318.0
2145.0
1971.9
1854.4
1780.3
1712.3
1687.5
1619.5
1557.7
1477.4
1366.1
1279.6
1155.9
1050.8
927.2
840.7
754.1
680.0
587.2
476.0
358.5
228.7
105.1
0.0
0.0

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