

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: P574974

Luminaire Tested: **EPH-VN-08-735-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

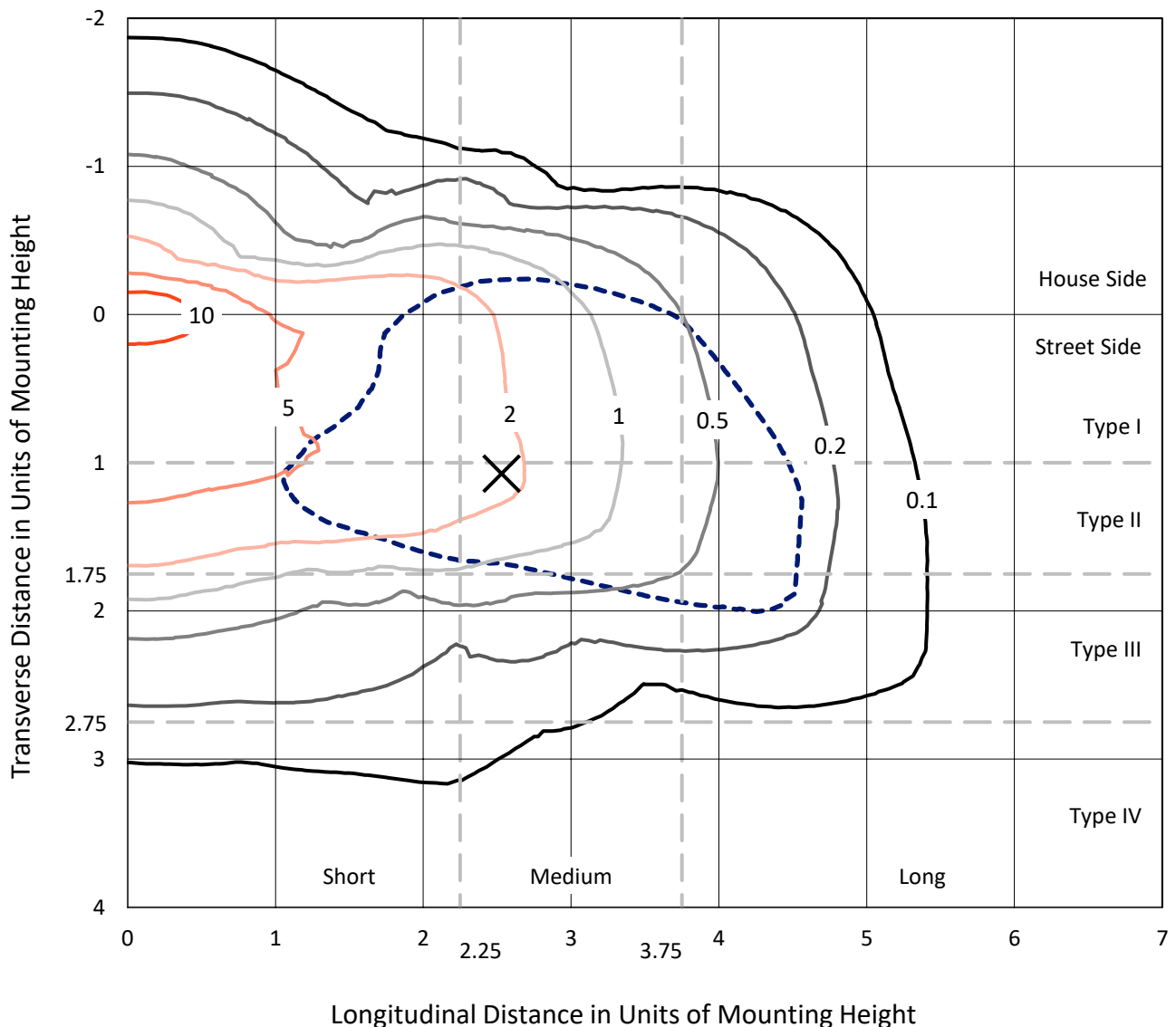
Lumens per Lamp: N/A
Luminaire Lumens: 54822.1 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

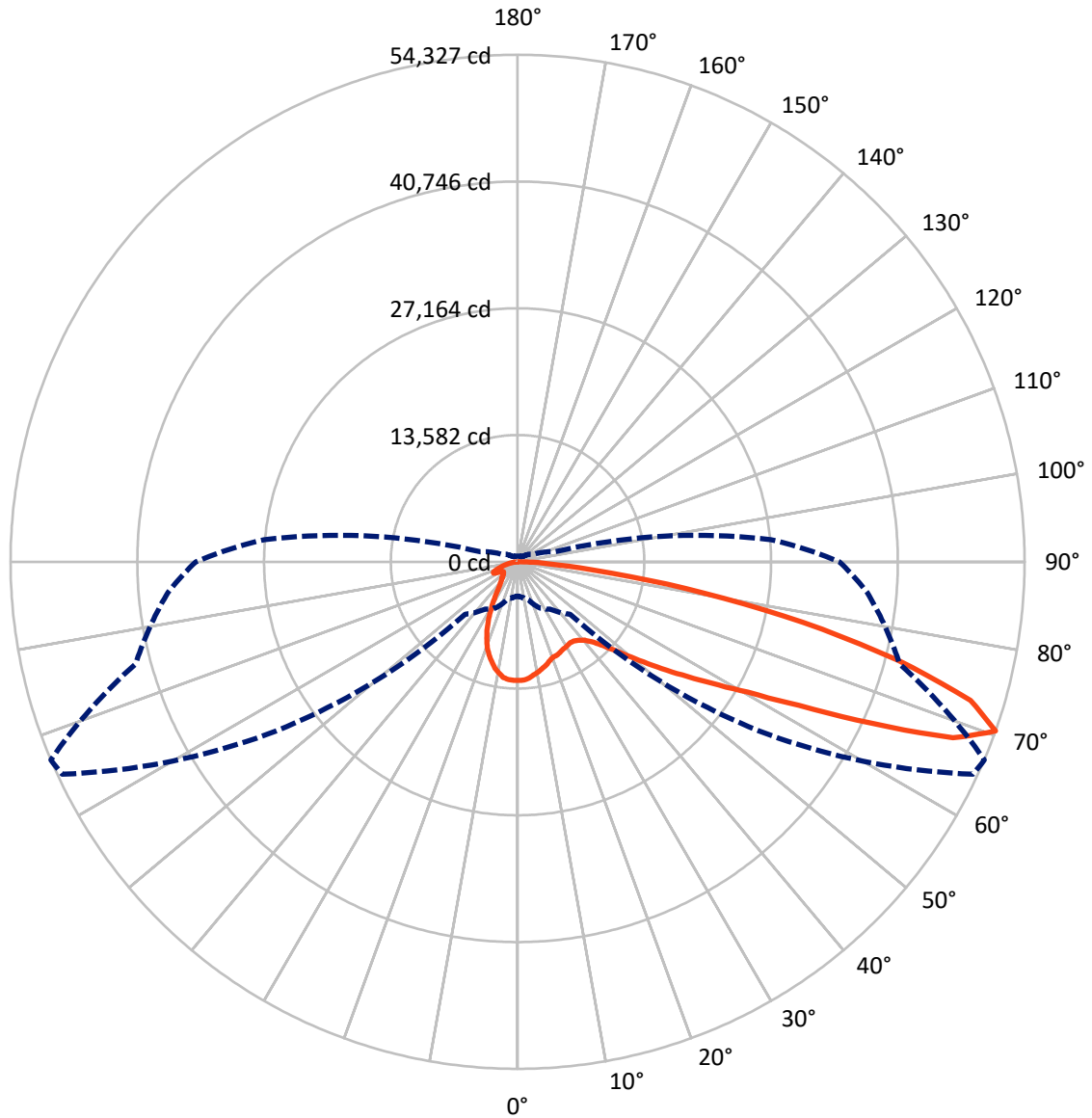
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.2 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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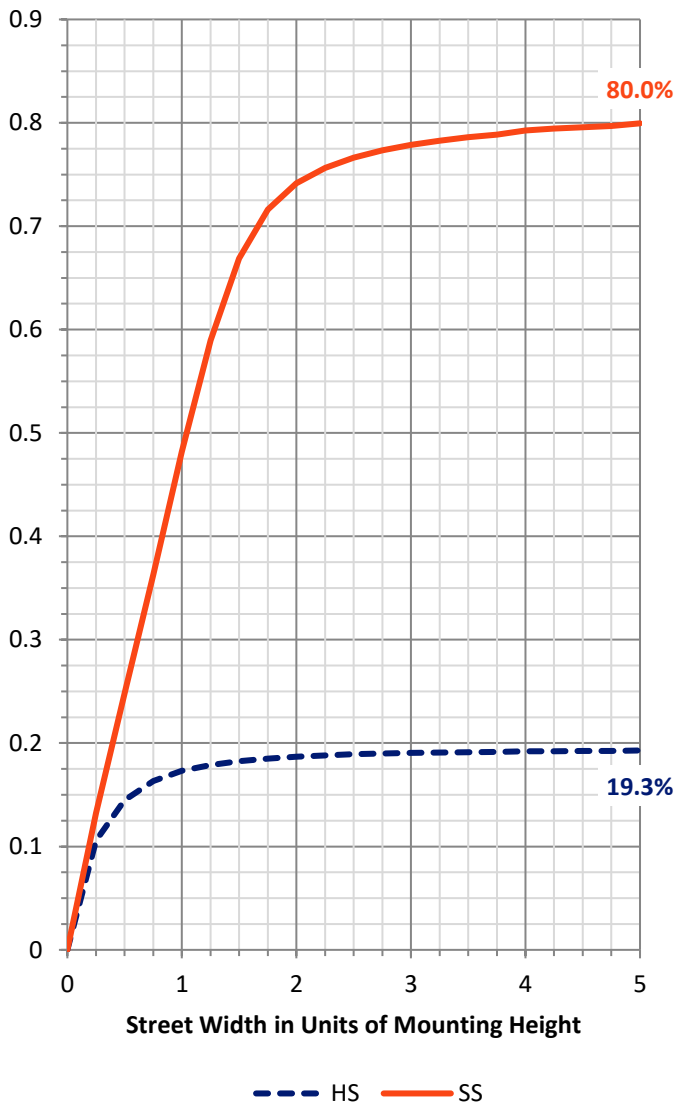
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10677.1	0.0	10677.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	44145.0	0.0	44145.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	54822.1	0.0	54822.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1107.3	2.0
10°-20°	2652.0	4.8
20°-30°	3581.4	6.5
30°-40°	4792.2	8.7
40°-50°	7046.8	12.9
50°-60°	10984.2	20.0
60°-70°	13530.7	24.7
70°-80°	9560.6	17.4
80°-90°	1567.0	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°	54822.1	100.0
0°-180°	54822.1	100.0

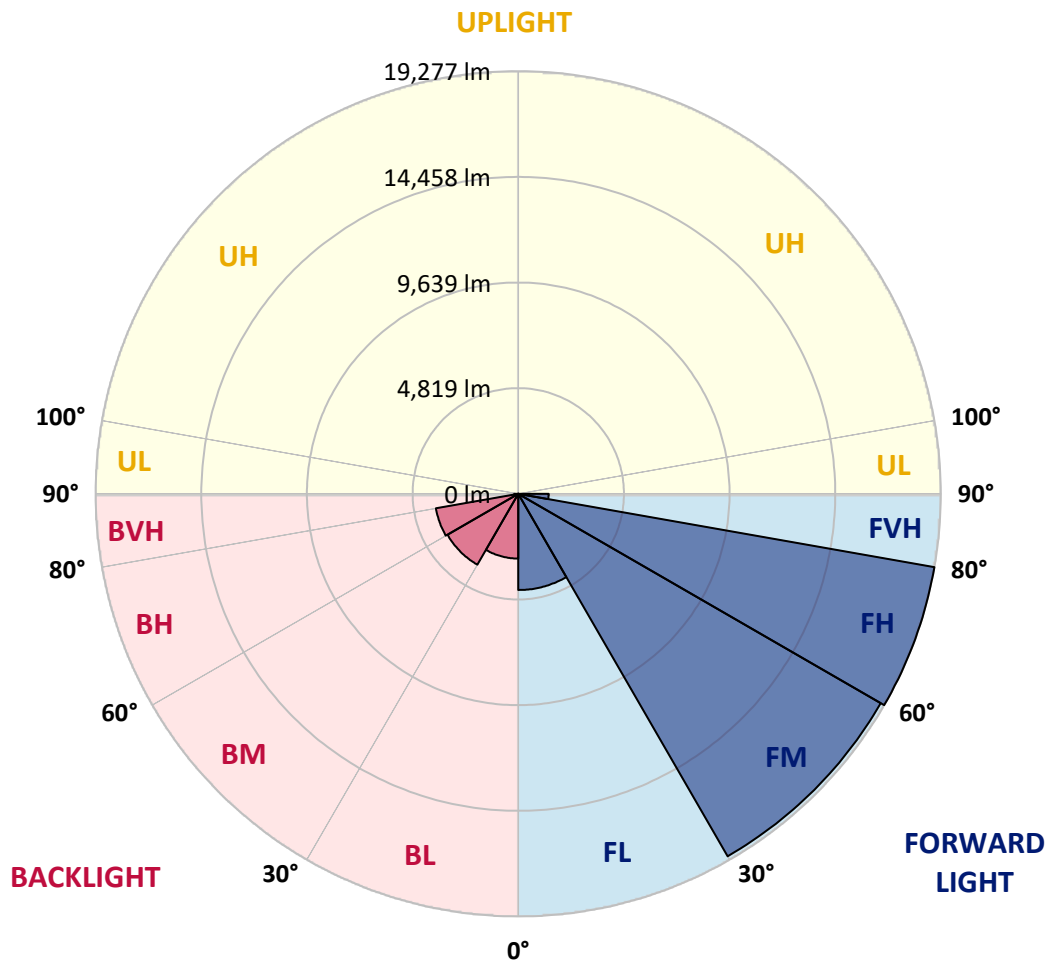


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4388.1	8.0			
FM (30°-60°)	19093.4	34.8			
FH (60°-80°)	19277.3	35.2			G5
FVH (80°-90°)	1386.3	2.5			G5
BL (0°-30°)	2952.6	5.4	B4/5000		
BM (30°-60°)	3729.8	6.8	B3/5000		
BH (60°-80°)	3814.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	180.8	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°	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2
2.5°	11817.2	11950.7	11999.2	12072.1	12260.2	12399.8	12484.8	12581.9	12697.2	12794.3
5°	10991.7	11064.5	11179.9	11258.8	11495.5	11871.8	12126.7	12539.4	12527.3	12679.0
7.5°	10190.6	10263.4	10318.0	10475.8	10815.7	11155.6	11622.9	12290.6	12242.0	12594.0
10°	9692.9	9638.2	9656.4	9923.5	10190.6	10572.9	11161.7	11841.4	12017.4	12563.7
12.5°	9225.5	9164.8	9310.5	9480.4	9808.2	10154.1	10858.2	11471.2	11738.3	12454.4
15°	8934.2	8891.7	9073.8	9146.6	9535.1	9947.8	10445.5	11192.0	11483.3	12320.9
17.5°	8770.3	8806.7	8873.5	9031.3	9280.1	9632.2	10178.4	11003.9	11131.3	12157.0
20°	8800.7	8843.1	8849.2	8916.0	9085.9	9359.0	9917.4	10803.6	10888.5	12126.7
22.5°	9043.4	8982.7	9007.0	8964.5	9013.1	9225.5	9717.1	10536.5	10864.3	11871.8
25°	9407.6	9322.6	9310.5	9164.8	9073.8	9134.5	9680.7	10469.7	10682.2	11792.9
27.5°	10051.0	9923.5	9923.5	9705.0	9334.8	9237.7	9577.5	10360.5	10548.6	11720.0
30°	10670.0	10670.0	10676.1	10366.6	9953.8	9474.4	9620.0	10318.0	10439.4	11501.5
32.5°	11422.6	11404.4	11374.1	11222.4	10585.1	9868.9	9826.4	10263.4	10324.1	11428.7
35°	12157.0	12108.5	12345.2	12211.7	11562.2	10639.7	10038.8	10287.7	10421.2	11319.5
37.5°	12709.4	12739.7	13231.3	13316.3	12757.9	11513.7	10639.7	10530.4	10657.9	11477.3
40°	13425.6	13546.9	14008.2	14293.5	13953.6	12666.9	11592.6	10937.1	11028.1	11829.3
42.5°	14366.3	14469.5	15058.2	15428.5	15331.3	14135.7	12533.3	11786.8	11714.0	12418.0
45°	15610.5	15628.7	16223.6	16733.4	16933.7	15671.2	14026.4	12861.1	12800.4	13431.6
47.5°	17091.5	17073.3	17443.5	17989.8	18529.9	17504.2	15744.1	14493.8	14275.3	14882.2
50°	18523.9	18445.0	18529.9	19227.9	20265.8	19798.4	17831.9	16490.6	16272.1	16605.9
52.5°	19312.9	19410.0	19179.4	20101.9	22110.9	22511.5	20599.6	18875.9	18687.7	18851.6
55°	18760.6	18960.9	18809.1	19683.1	22918.1	25819.3	24180.6	21637.5	21394.7	21334.0
57.5°	16411.7	16775.9	16806.2	18190.0	22638.9	28380.6	29218.2	24896.7	24532.6	23913.5
60°	12600.1	12964.3	13243.5	14882.2	20247.6	29910.1	35057.0	29533.8	28332.0	26729.7
62.5°	8831.0	9079.8	9359.0	10366.6	15610.5	29011.8	40106.7	36064.5	33849.1	29697.7
65°	6433.6	6627.8	6913.1	7507.9	9589.7	24004.5	42449.5	43821.2	41721.2	33472.8
67.5°	4843.4	4964.8	5341.1	6294.0	6646.0	14827.6	40021.7	52014.9	50315.5	37666.8
70°	3665.9	3769.1	4121.1	5426.1	6209.0	7950.9	31573.1	53841.8	54327.4	42370.6
72.5°	2524.9	2640.2	3034.7	4521.7	5911.6	6306.1	19816.6	48913.4	50752.5	44306.7
75°	1547.7	1626.6	1857.2	3429.2	5869.1	6166.5	10906.7	40082.4	42030.7	40938.2
77.5°	1092.5	1086.4	1128.9	2009.0	5086.2	6202.9	6724.9	29369.9	31263.6	30171.1
80°	795.1	801.2	843.6	1201.7	3453.5	6306.1	5298.6	19671.0	20235.4	15731.9
82.5°	479.5	503.8	606.9	813.3	2075.7	5693.1	4898.0	10931.0	10227.0	5049.8
85°	254.9	254.9	358.1	515.9	1104.6	4248.6	4715.9	5201.5	4357.8	1565.9
87.5°	60.7	60.7	103.2	206.4	443.1	2033.3	3216.8	2069.7	1657.0	528.0
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°
12691.2	0°	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2	12691.2
12855.0	2.5°	12830.7	12757.9	12849.0	12666.9	12521.2	12527.3	12302.7	12290.6	12260.2	12102.4
12909.6	5°	12976.4	12915.7	12812.5	12612.2	12290.6	11968.9	11774.7	11525.8	11422.6	11368.0
12952.1	7.5°	13116.0	13006.8	12709.4	12430.2	11932.5	11325.5	10973.5	10639.7	10214.8	10166.3
13073.5	10°	13152.4	12921.8	12539.4	11944.6	11283.0	10609.3	9808.2	9189.1	8861.3	8606.4
13128.1	12.5°	13097.8	13000.7	12266.3	11501.5	10500.1	9444.0	8509.3	7635.3	7028.4	6712.8
13043.2	15°	13091.7	12921.8	11962.8	10827.8	9547.2	8169.4	6840.2	5790.2	5152.9	4892.0
13025.0	17.5°	13097.8	12691.2	11604.7	10148.1	8424.4	6561.0	5098.3	4236.5	3884.4	3848.0
13073.5	20°	12976.4	12521.2	11228.4	9346.9	7016.2	4928.4	3702.3	3350.3	3350.3	3398.9
12970.3	22.5°	12867.2	12266.3	10633.6	8357.6	5583.9	3568.8	3010.4	2907.3	3022.6	3107.5
12964.3	25°	12715.4	12053.9	10026.7	7331.9	4248.6	2876.9	2615.9	2640.2	2749.4	2901.2
12824.7	27.5°	12496.9	11683.6	9304.4	6142.2	3162.2	2482.4	2415.6	2427.8	2543.1	2609.8
12636.5	30°	12248.1	11307.3	8636.8	4958.7	2506.7	2276.0	2270.0	2300.3	2318.5	2354.9
12581.9	32.5°	11932.5	10809.6	7926.7	3854.1	2257.8	2160.7	2136.4	2118.2	2136.4	2130.4
12412.0	35°	11707.9	10542.6	7204.4	2937.6	2118.2	2057.5	2039.3	2009.0	1984.7	1948.3
12412.0	37.5°	11647.2	10275.5	6445.7	2397.4	2009.0	1978.6	1917.9	1863.3	1833.0	1814.8
12679.0	40°	11610.8	10099.5	5705.3	2106.1	1917.9	1887.6	1814.8	1741.9	1711.6	1693.4
13079.6	42.5°	11738.3	10002.4	4952.6	1960.4	1839.0	1784.4	1705.5	1620.5	1614.5	1602.3
13814.0	45°	12187.4	10123.8	4254.7	1857.2	1760.1	1669.1	1565.9	1523.4	1517.4	1505.2
15033.9	47.5°	13207.1	10427.3	3659.9	1790.5	1675.2	1596.3	1487.0	1426.3	1420.2	1414.2
16866.9	50°	14615.2	11361.9	3162.2	1711.6	1620.5	1511.3	1408.1	1341.3	1329.2	1304.9
19306.8	52.5°	16824.4	12933.9	2864.8	1669.1	1523.4	1432.4	1323.1	1250.3	1220.0	1195.7
22080.5	55°	19312.9	14882.2	2810.1	1596.3	1420.2	1335.3	1238.2	1165.3	1135.0	1104.6
24684.3	57.5°	22147.3	17461.7	3198.6	1547.7	1347.4	1238.2	1128.9	1062.1	1037.9	1007.5
27191.0	60°	24787.5	20035.1	4406.4	1474.9	1280.6	1147.1	1037.9	971.1	940.8	910.4
30274.3	62.5°	27840.4	23221.6	6451.8	1474.9	1220.0	1050.0	940.8	892.2	874.0	843.6
33400.0	65°	31451.7	26517.3	7944.9	1565.9	1201.7	965.0	849.7	801.2	783.0	764.7
35912.7	67.5°	34201.2	28410.9	6834.2	1808.7	1280.6	892.2	758.7	728.3	716.2	698.0
37600.0	70°	34492.5	27257.8	4121.1	1954.4	1359.5	819.4	679.8	649.4	649.4	631.2
35791.4	72.5°	31876.6	24186.6	2773.7	1741.9	1232.1	734.4	600.9	576.6	564.5	552.3
31312.1	75°	26675.1	20514.6	2191.1	1389.9	946.8	606.9	522.0	497.7	479.5	473.4
21249.0	77.5°	17916.9	13334.5	1620.5	1086.4	698.0	491.6	437.0	412.7	394.5	388.4
8381.9	80°	6882.7	5080.1	1043.9	789.0	491.6	388.4	346.0	321.7	309.5	291.3
2306.4	82.5°	2027.2	1644.8	582.7	485.6	315.6	267.1	248.8	230.6	212.4	194.2
855.8	85°	837.6	752.6	358.1	254.9	194.2	157.8	145.7	127.5	109.2	97.1
352.0	87.5°	388.4	321.7	163.9	97.1	66.8	36.4	18.2	6.1	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°
12691.2
12157.0
11392.3
10081.3
8509.3
6627.8
4892.0
3878.4
3417.1
3144.0
2889.0
2597.7
2348.9
2112.2
1942.2
1802.6
1699.4
1620.5
1517.4
1414.2
1304.9
1195.7
1092.5
995.4
910.4
837.6
758.7
685.8
619.1
546.2
461.3
370.2
279.2
188.2
85.0
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