

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: P574656

Luminaire Tested: **EPH-VN-04-740-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574656
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

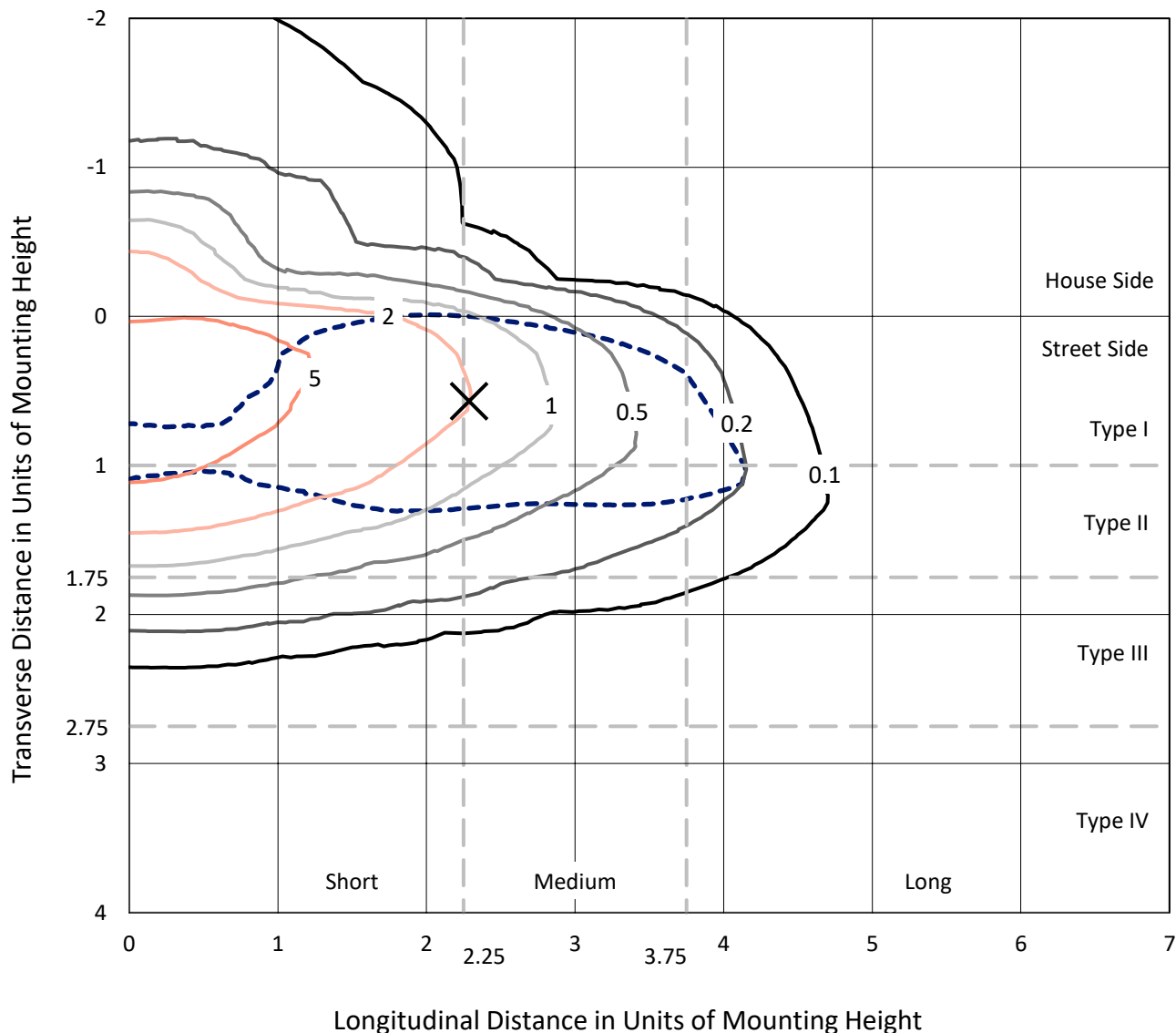
Lumens per Lamp: N/A
Luminaire Lumens: 35171.2 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 303.8
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

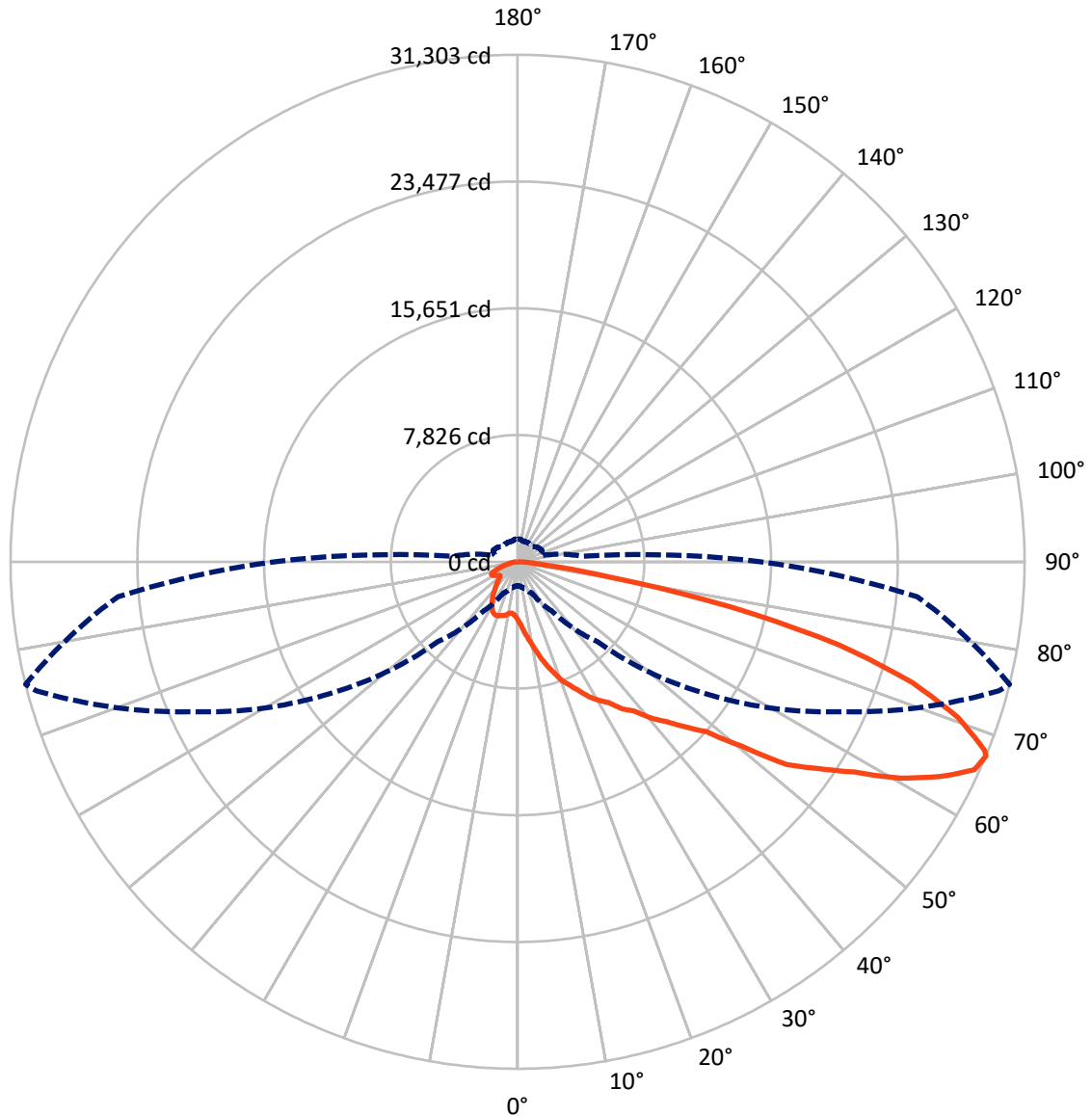
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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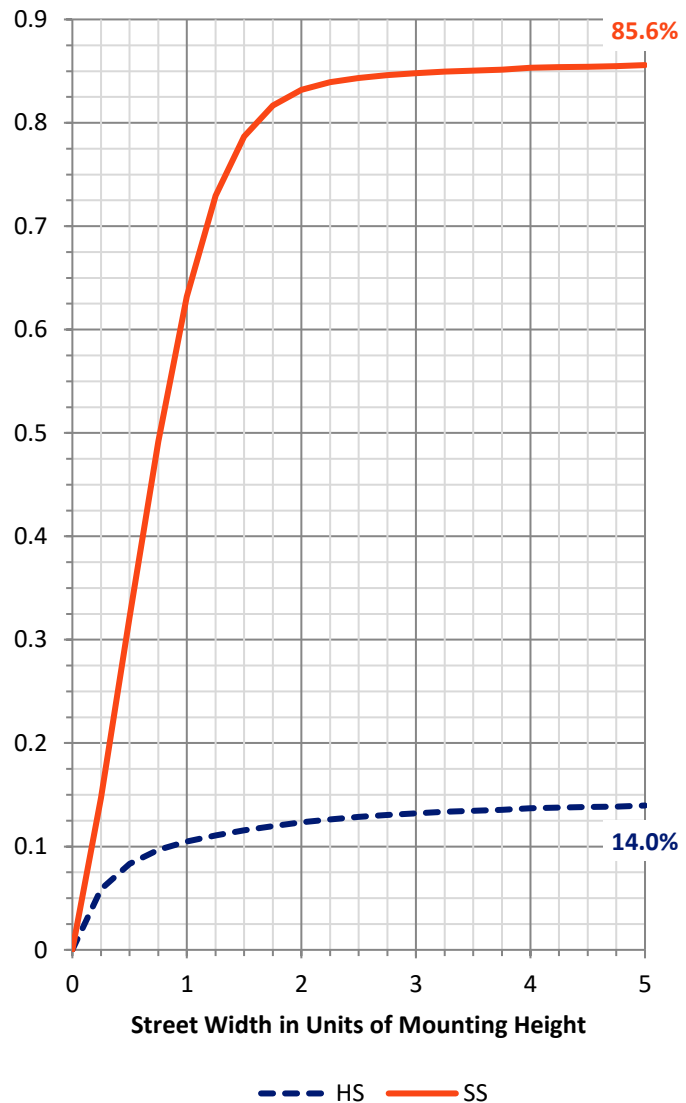
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5003.5	0.0	5003.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30167.7	0.0	30167.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	35171.2	0.0	35171.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.9	1.2
10°-20°	1563.7	4.4
20°-30°	2907.1	8.3
30°-40°	4608.4	13.1
40°-50°	6373.8	18.1
50°-60°	7840.1	22.3
60°-70°	7295.6	20.7
70°-80°	3660.9	10.4
80°-90°	504.8	1.4
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°	35171.2	100.0
0°-180°	35171.2	100.0

Coefficient of Utilization



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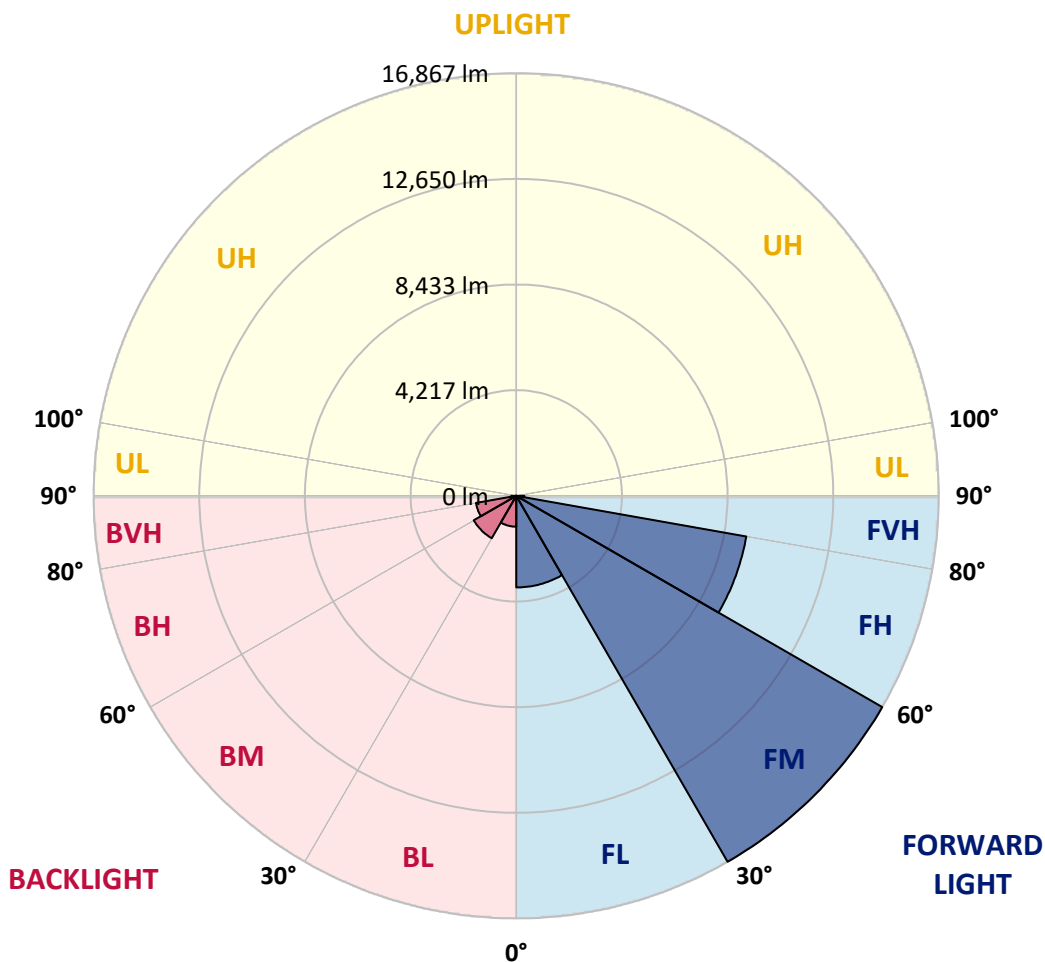
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3655.5	10.4			
FM (30°-60°)	16867.0	48.0			
FH (60°-80°)	9323.6	26.5			G4/12000
FVH (80°-90°)	321.6	0.9			G3/500
BL (0°-30°)	1232.2	3.5	B3/2500		
BM (30°-60°)	1955.3	5.6	B2/2500		
BH (60°-80°)	1632.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	183.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2
2.5°	4994.0	4933.9	4873.8	4745.5	4701.5	4581.2	4360.8	4116.3	3915.9	3887.8
5°	6196.5	6108.3	6088.2	6016.1	5787.6	5555.2	5194.4	4801.7	4312.7	4348.7
7.5°	7098.3	7046.2	6938.0	6869.8	6733.5	6424.9	6052.2	5531.1	4909.9	4789.6
10°	7779.6	7707.5	7703.5	7643.4	7571.2	7254.6	6970.0	6268.6	5471.0	5306.7
12.5°	8124.3	8112.3	8324.7	8324.7	8296.7	8164.4	7675.4	7034.1	6004.1	5948.0
15°	8497.1	8396.9	8581.3	8721.5	8793.7	8861.8	8457.0	7779.6	6685.4	6577.2
17.5°	8497.1	8489.1	8673.4	8905.9	9282.7	9370.8	9150.4	8465.0	7250.6	7170.4
20°	8352.8	8469.0	8597.3	8909.9	9318.7	9675.5	9739.6	9166.4	7875.8	7811.7
22.5°	9026.2	8913.9	9046.2	9166.4	9483.1	10024.2	10200.5	9783.7	8533.2	8288.7
25°	10156.4	10080.3	9984.1	9807.7	9940.0	10176.5	10445.0	10240.6	9094.3	8821.7
27.5°	11258.6	11262.6	11054.2	10669.5	10384.9	10433.0	10749.6	10641.4	9567.2	9447.0
30°	12825.8	12729.6	12497.1	11976.1	11419.0	10962.0	10909.9	11014.1	10168.4	9936.0
32.5°	14000.2	14020.2	13691.5	12942.0	12180.5	11807.7	11350.8	11394.9	10549.2	10376.9
35°	14950.1	14926.0	14693.5	14072.3	13170.5	12721.6	12104.3	11851.8	11435.0	11162.4
37.5°	15976.1	15779.7	15403.0	14701.6	14124.4	13503.2	12901.9	12332.8	12024.2	11695.5
40°	16389.0	16389.0	15883.9	15563.3	14877.9	14409.0	14020.2	12966.1	12741.6	12677.5
42.5°	16096.4	16276.7	16068.3	15703.6	15423.0	14829.8	14725.6	13623.4	13627.4	13499.1
45°	16068.3	15819.8	15647.5	15739.7	15607.4	15575.3	15839.9	14533.2	14557.3	14541.2
47.5°	15262.7	15150.5	15407.0	15559.3	15667.5	16164.5	16926.0	15619.4	15791.8	15671.5
50°	14461.1	14441.0	14601.4	15154.5	15623.4	16441.1	17960.1	17294.8	17859.9	17851.9
52.5°	12264.7	12477.1	13106.4	14276.7	15435.0	16817.8	18741.7	19435.1	20513.3	20805.8
55°	10164.4	10052.2	10982.1	12681.5	14613.4	16966.1	19615.4	20721.7	22308.9	22521.3
57.5°	7907.9	8116.3	8849.8	10481.1	12914.0	16232.6	20256.7	21992.2	24336.9	24501.3
60°	5899.9	5927.9	6733.5	8048.2	10653.4	14577.3	20465.2	23294.8	26661.6	27130.6
62.5°	3711.5	3879.8	4493.0	5787.6	8020.1	12260.7	19531.3	24084.4	29098.5	29222.8
65°	2000.0	2108.2	2569.2	3382.8	5603.3	9274.7	17054.3	23611.5	30244.8	30982.3
67°	1479.0	1499.0	1711.4	2160.3	3747.5	6982.0	14220.6	21900.0	30765.9	31302.9
67.5°	1386.8	1414.8	1583.2	1939.9	3322.7	6428.9	13479.1	21290.8	30533.4	31110.6
70°	1186.4	1194.4	1234.5	1334.7	1863.7	3867.8	9178.5	17447.1	28300.9	28854.0
72.5°	1054.1	1062.1	1078.2	1098.2	1262.5	2236.5	5583.2	13427.0	24597.5	25479.2
75°	925.9	953.9	961.9	945.9	1074.2	1454.9	2970.0	9867.8	20064.3	20493.2
77.5°	785.6	797.6	813.6	829.7	957.9	1086.2	1426.9	6661.4	13771.7	13511.2
80°	661.3	665.3	677.4	689.4	829.7	829.7	809.6	3599.2	6016.1	5751.6
82.5°	473.0	501.0	529.1	561.1	689.4	557.1	529.1	1603.2	1903.8	1811.6
85°	184.4	224.5	348.7	384.8	436.9	300.6	352.7	693.4	793.6	785.6
87.5°	32.1	36.1	96.2	148.3	160.3	104.2	168.3	248.5	296.6	320.6
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°
3599.2	0°	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2	3599.2
3747.5	2.5°	3631.3	3507.1	3358.8	3210.5	3114.3	2962.0	2949.9	2857.7	2845.7	2813.7
3867.8	5°	3659.4	3511.1	3210.5	2974.0	2865.8	2777.6	2797.6	2757.5	2745.5	2725.5
4136.3	7.5°	3879.8	3587.2	3138.3	2933.9	2853.7	2813.7	2813.7	2765.6	2729.5	2753.5
4465.0	10°	4024.1	3623.3	3194.4	2990.0	2925.9	2837.7	2869.8	2809.7	2829.7	2781.6
4845.7	12.5°	4256.6	3827.7	3310.7	3074.2	2970.0	2889.8	2921.9	2853.7	2837.7	2841.7
5254.6	15°	4569.2	3964.0	3362.8	3122.3	3050.1	2949.9	2925.9	2865.8	2805.6	2785.6
5703.5	17.5°	4861.8	4132.3	3398.8	3150.3	3034.1	2921.9	2893.8	2817.7	2797.6	2737.5
6212.5	20°	5210.5	4332.7	3446.9	3174.4	2974.0	2861.8	2789.6	2713.5	2645.3	2609.2
6673.4	22.5°	5442.9	4436.9	3471.0	3126.3	2885.8	2781.6	2629.3	2577.2	2481.0	2440.9
7118.3	25°	5823.7	4565.2	3410.9	2994.0	2729.5	2561.2	2424.9	2352.7	2284.6	2232.5
7422.9	27.5°	5919.9	4661.4	3270.6	2769.6	2481.0	2304.6	2188.4	2100.2	2056.1	1976.0
7859.8	30°	6200.5	4565.2	3062.2	2497.0	2244.5	2064.2	1947.9	1883.8	1779.6	1759.5
8208.5	32.5°	6380.8	4593.2	2797.6	2232.5	1972.0	1811.6	1735.5	1671.4	1643.3	1547.1
8741.6	35°	6681.4	4497.0	2529.1	1988.0	1747.5	1623.3	1559.1	1539.1	1446.9	1402.8
9198.5	37.5°	6873.8	4440.9	2260.5	1711.4	1503.0	1450.9	1471.0	1386.8	1274.6	1190.4
9783.7	40°	7210.5	4420.9	1955.9	1483.0	1334.7	1322.7	1386.8	1226.5	1022.1	949.9
10485.1	42.5°	7695.5	4284.6	1719.5	1278.6	1202.4	1254.5	1266.5	1022.1	905.8	845.7
11427.0	45°	8160.4	4312.7	1487.0	1058.1	1046.1	1122.3	1094.2	865.7	797.6	753.5
12513.2	47.5°	9054.2	4453.0	1258.5	881.8	941.9	1014.0	849.7	773.6	709.4	677.4
14481.1	50°	10437.0	4589.2	1058.1	805.6	889.8	917.8	729.5	701.4	697.4	633.3
16112.4	52.5°	11266.7	4537.1	1022.1	901.8	953.9	917.8	793.6	773.6	741.5	713.4
17787.8	55°	12585.3	4689.4	1098.2	1054.1	1082.2	881.8	889.8	881.8	857.7	785.6
19731.7	57.5°	13635.4	4789.6	1198.4	1178.4	1162.3	917.8	929.9	933.9	917.8	885.8
21767.8	60°	15078.3	4990.0	1302.6	1306.6	1310.6	998.0	1018.0	1042.1	1038.1	1026.1
23819.9	62.5°	15964.1	4897.8	1418.9	1483.0	1462.9	1162.3	1158.3	1174.4	1174.4	1194.4
24733.7	65°	15831.8	4557.2	1479.0	1639.3	1535.1	1282.6	1282.6	1290.6	1294.6	1334.7
24769.8	67°	15038.2	3947.9	1446.9	1663.3	1535.1	1330.7	1330.7	1338.7	1310.6	1414.8
24489.2	67.5°	14669.5	3767.6	1418.9	1643.3	1523.1	1326.7	1326.7	1330.7	1306.6	1406.8
22521.3	70°	12757.7	2797.6	1222.5	1454.9	1410.8	1290.6	1290.6	1266.5	1246.5	1378.8
19431.1	72.5°	10889.9	2032.1	982.0	1238.5	1274.6	1242.5	1250.5	1190.4	1134.3	1226.5
15110.4	75°	8340.8	1495.0	765.5	953.9	1078.2	1162.3	1214.4	1062.1	990.0	1014.0
8172.4	77.5°	4653.4	974.0	605.2	705.4	821.7	1082.2	1166.3	957.9	809.6	781.6
2761.6	80°	1579.2	569.1	444.9	525.1	565.1	957.9	1090.2	777.6	637.3	609.2
933.9	82.5°	597.2	348.7	304.6	360.7	360.7	757.5	889.8	597.2	481.0	621.2
348.7	85°	272.5	208.4	200.4	208.4	208.4	464.9	629.3	388.8	432.9	372.7
128.3	87.5°	108.2	100.2	92.2	88.2	72.1	80.2	216.4	104.2	196.4	52.1
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°
3599.2
2829.7
2693.4
2777.6
2781.6
2829.7
2809.7
2689.4
2625.3
2408.8
2216.5
1959.9
1715.4
1523.1
1362.7
1162.3
909.8
817.6
777.6
681.4
629.3
681.4
805.6
913.8
1034.1
1206.4
1338.7
1382.8
1374.8
1350.7
1202.4
970.0
781.6
589.2
633.3
328.7
48.1
0.0

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