

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: P574982

Luminaire Tested: **EPH-VN-04-750-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574982
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

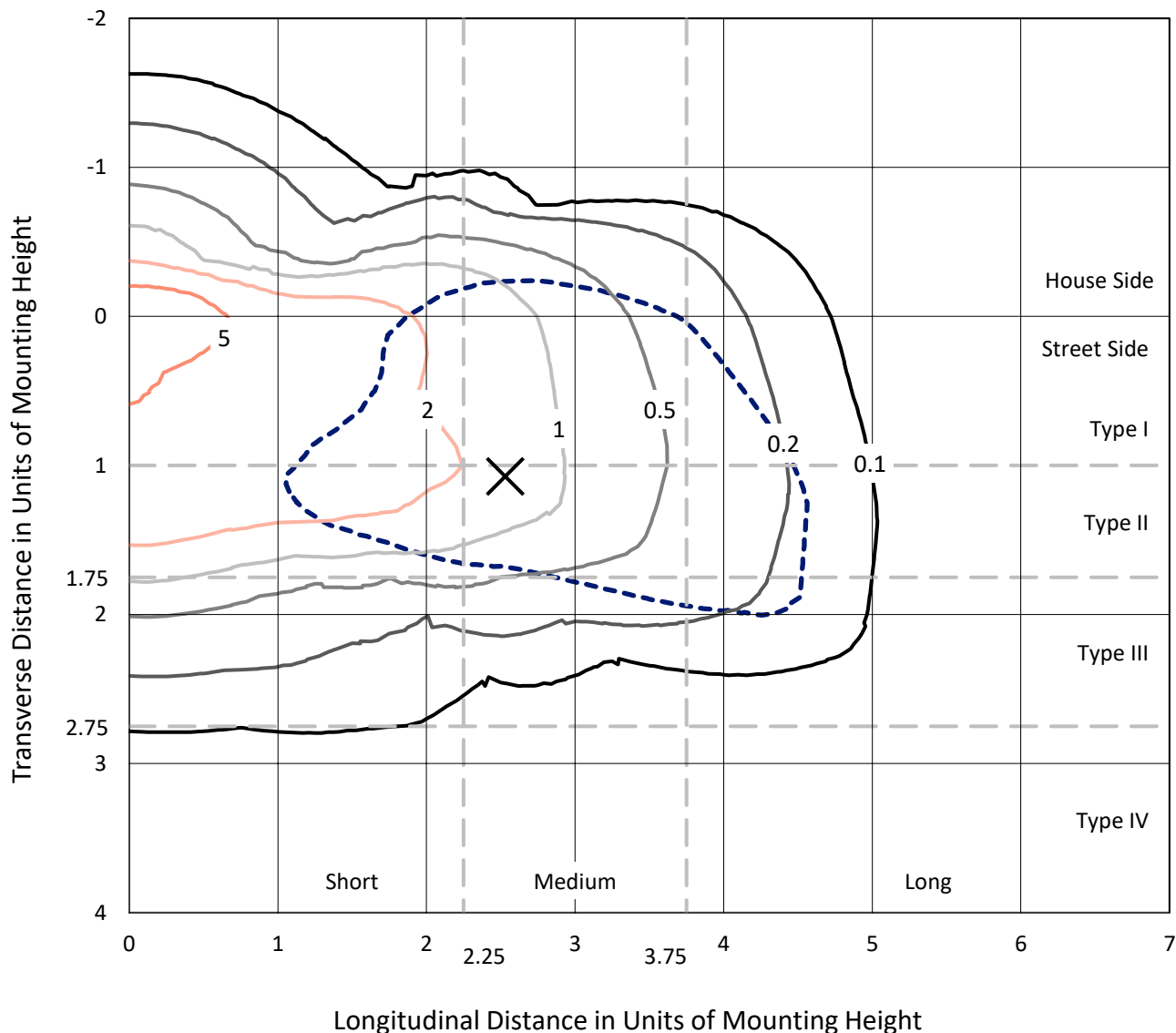
Lumens per Lamp: N/A
Luminaire Lumens: 35670.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

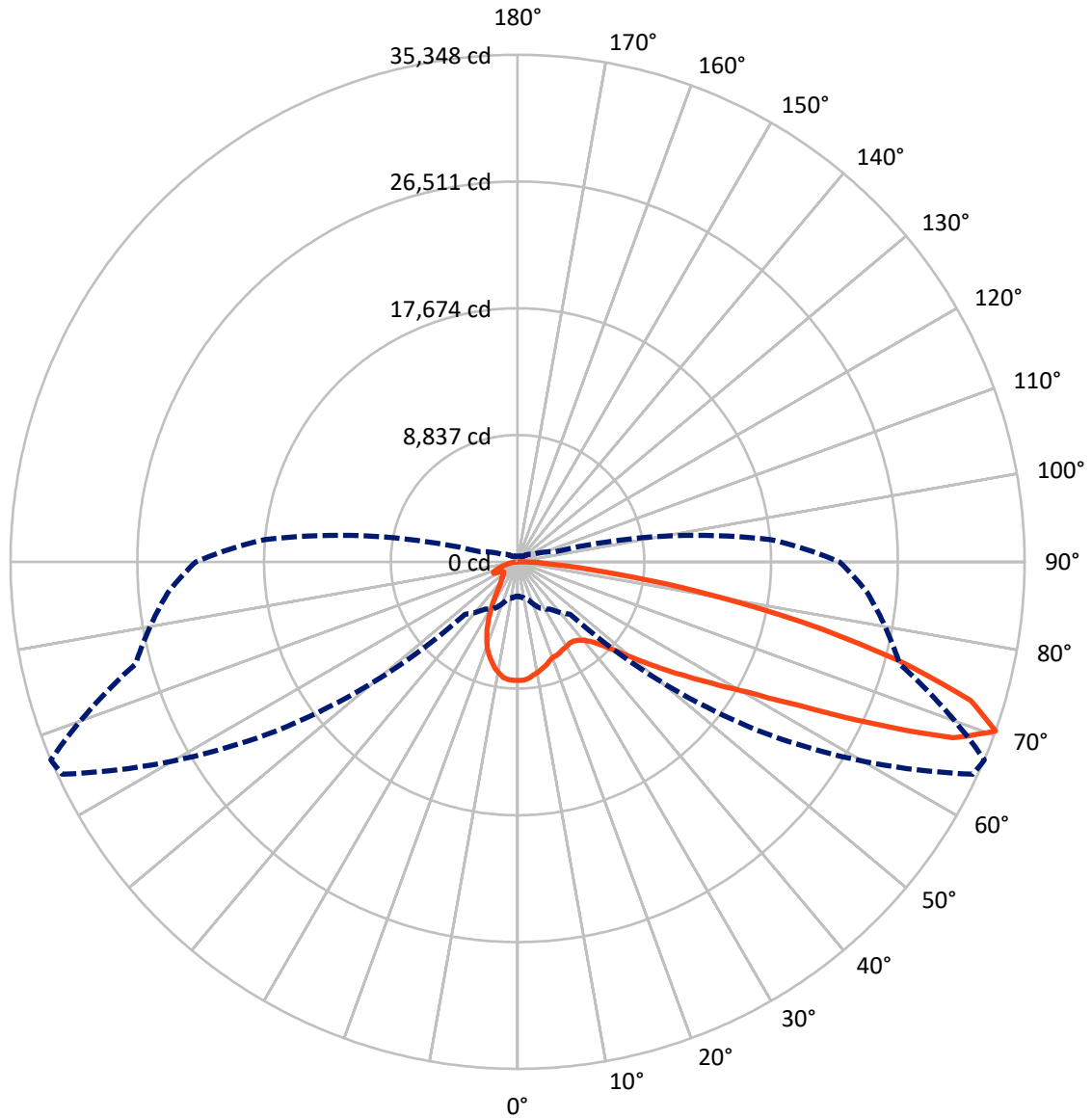
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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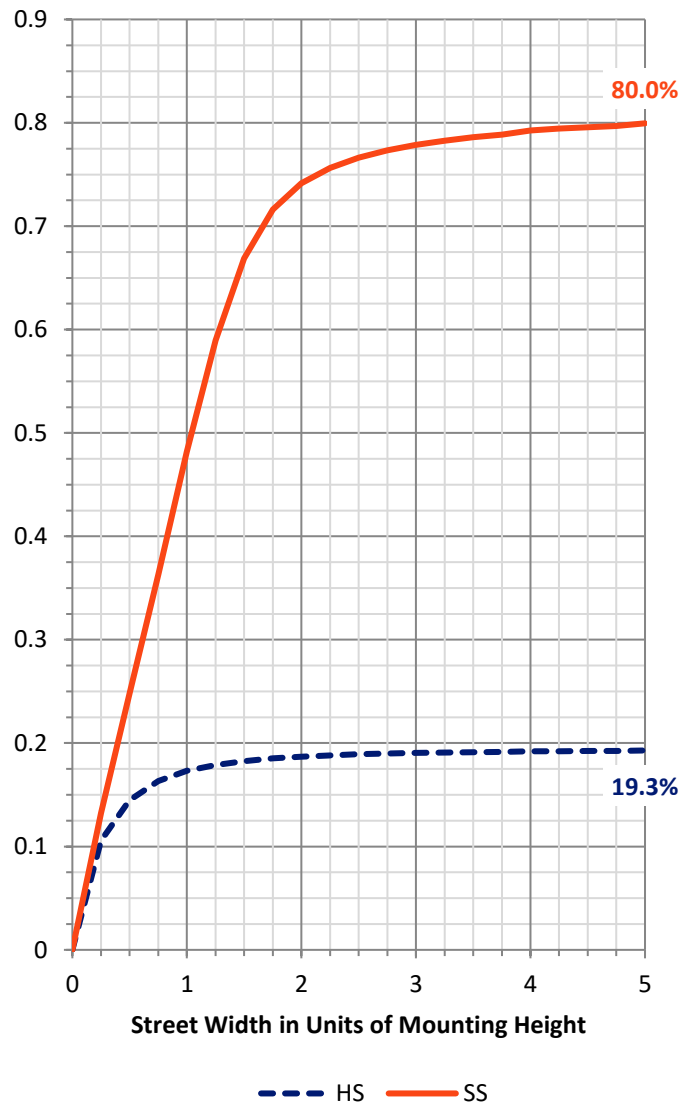
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6947.1	0.0	6947.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	28723.2	0.0	28723.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	35670.3	0.0	35670.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.5	2.0
10°-20°	1725.5	4.8
20°-30°	2330.2	6.5
30°-40°	3118.1	8.7
40°-50°	4585.0	12.9
50°-60°	7146.9	20.0
60°-70°	8803.8	24.7
70°-80°	6220.7	17.4
80°-90°	1019.6	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°	35670.3	100.0
0°-180°	35670.3	100.0

Coefficient of Utilization

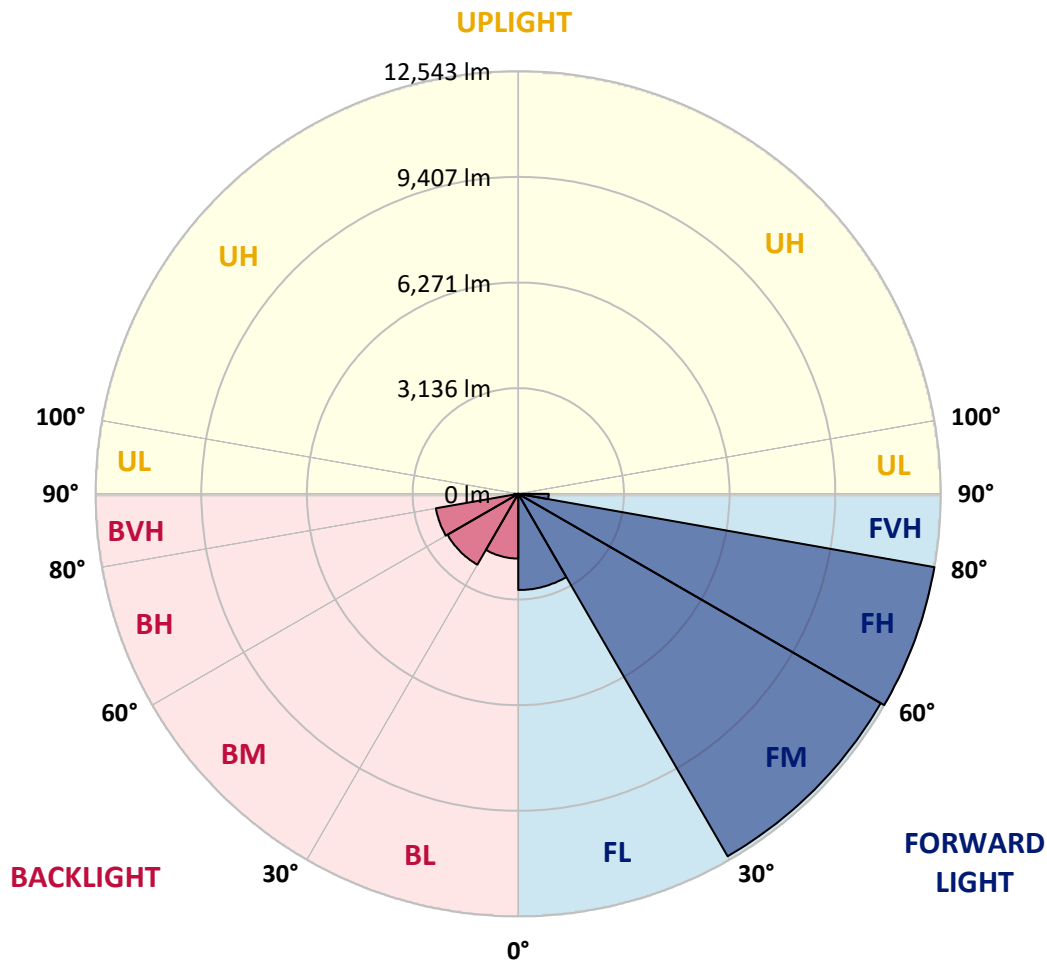


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.1	8.0			
FM (30°-60°)	12423.2	34.8			
FH (60°-80°)	12542.9	35.2			G5
FVH (80°-90°)	902.0	2.5			G5
BL (0°-30°)	1921.1	5.4	B3/2500		
BM (30°-60°)	2426.8	6.8	B2/2500		
BH (60°-80°)	2481.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.6	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6
2.5°	7688.9	7775.8	7807.4	7854.8	7977.2	8068.0	8123.3	8186.5	8261.5	8324.7
5°	7151.8	7199.2	7274.2	7325.6	7479.6	7724.4	7890.3	8158.8	8150.9	8249.7
7.5°	6630.5	6677.9	6713.5	6816.1	7037.3	7258.4	7562.5	7996.9	7965.3	8194.4
10°	6306.7	6271.2	6283.0	6456.8	6630.5	6879.3	7262.4	7704.7	7819.2	8174.6
12.5°	6002.6	5963.1	6057.9	6168.5	6381.7	6606.8	7064.9	7463.8	7637.6	8103.6
15°	5813.1	5785.4	5903.9	5951.3	6204.0	6472.6	6796.4	7282.1	7471.7	8016.7
17.5°	5706.4	5730.1	5773.6	5876.3	6038.2	6267.2	6622.6	7159.7	7242.6	7910.0
20°	5726.2	5753.8	5757.8	5801.2	5911.8	6089.5	6452.8	7029.4	7084.7	7890.3
22.5°	5884.2	5844.7	5860.5	5832.8	5864.4	6002.6	6322.5	6855.6	7068.9	7724.4
25°	6121.1	6065.8	6057.9	5963.1	5903.9	5943.4	6298.8	6812.2	6950.4	7673.1
27.5°	6539.7	6456.8	6456.8	6314.6	6073.7	6010.5	6231.7	6741.1	6863.5	7625.7
30°	6942.5	6942.5	6946.5	6745.1	6476.5	6164.5	6259.3	6713.5	6792.5	7483.5
32.5°	7432.2	7420.4	7400.6	7301.9	6887.2	6421.2	6393.6	6677.9	6717.4	7436.2
35°	7910.0	7878.5	8032.5	7945.6	7523.0	6922.8	6531.8	6693.7	6780.6	7365.1
37.5°	8269.4	8289.2	8609.0	8664.3	8301.0	7491.4	6922.8	6851.7	6934.6	7467.7
40°	8735.4	8814.4	9114.5	9300.1	9079.0	8241.8	7542.8	7116.3	7175.5	7696.8
42.5°	9347.5	9414.7	9797.7	10038.6	9975.4	9197.5	8154.9	7669.2	7621.8	8079.9
45°	10157.1	10168.9	10555.9	10887.7	11018.0	10196.6	9126.4	8368.1	8328.7	8739.4
47.5°	11120.7	11108.8	11349.7	11705.1	12056.6	11389.2	10244.0	9430.5	9288.3	9683.2
50°	12052.7	12001.3	12056.6	12510.7	13186.0	12882.0	11602.5	10729.7	10587.5	10804.7
52.5°	12566.0	12629.2	12479.2	13079.4	14386.6	14647.2	13403.2	12281.7	12159.3	12265.9
55°	12206.7	12337.0	12238.3	12806.9	14911.8	16799.5	15733.2	14078.5	13920.6	13881.1
57.5°	10678.4	10915.3	10935.1	11835.5	14730.1	18466.0	19011.0	16199.2	15962.3	15559.5
60°	8198.3	8435.3	8616.9	9683.2	13174.2	19461.2	22810.0	19216.3	18434.4	17391.8
62.5°	5745.9	5907.9	6089.5	6745.1	10157.1	18876.7	26095.7	23465.6	22024.1	19322.9
65°	4186.0	4312.4	4498.0	4885.0	6239.6	15618.7	27620.0	28512.5	27146.1	21779.3
67.5°	3151.4	3230.4	3475.2	4095.2	4324.3	9647.7	26040.4	33843.8	32738.0	24508.1
70°	2385.3	2452.4	2681.4	3530.5	4039.9	5173.3	20543.2	35032.5	35348.4	27568.7
72.5°	1642.8	1717.9	1974.6	2942.1	3846.4	4103.1	12893.8	31825.8	33022.4	28828.4
75°	1007.0	1058.4	1208.4	2231.2	3818.8	4012.3	7096.5	26079.9	27347.5	26636.7
77.5°	710.8	706.9	734.5	1307.2	3309.3	4036.0	4375.6	19109.7	20341.8	19631.0
80°	517.3	521.3	548.9	781.9	2247.0	4103.1	3447.6	12799.0	13166.3	10236.1
82.5°	312.0	327.8	394.9	529.2	1350.6	3704.3	3186.9	7112.3	6654.2	3285.7
85°	165.9	165.9	233.0	335.7	718.7	2764.4	3068.5	3384.4	2835.5	1018.9
87.5°	39.5	39.5	67.1	134.3	288.3	1322.9	2093.0	1346.6	1078.1	343.6
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°
8257.6	0°	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6	8257.6
8364.2	2.5°	8348.4	8301.0	8360.2	8241.8	8147.0	8150.9	8004.8	7996.9	7977.2	7874.5
8399.7	5°	8443.2	8403.7	8336.6	8206.2	7996.9	7787.6	7661.3	7499.3	7432.2	7396.7
8427.4	7.5°	8534.0	8462.9	8269.4	8087.8	7763.9	7369.0	7140.0	6922.8	6646.3	6614.7
8506.4	10°	8557.7	8407.6	8158.8	7771.8	7341.4	6903.0	6381.7	5978.9	5765.7	5599.8
8541.9	12.5°	8522.2	8459.0	7981.1	7483.5	6831.9	6144.8	5536.6	4968.0	4573.1	4367.7
8486.6	15°	8518.2	8407.6	7783.7	7045.2	6211.9	5315.5	4450.6	3767.4	3352.8	3183.0
8474.8	17.5°	8522.2	8257.6	7550.7	6602.9	5481.4	4269.0	3317.2	2756.5	2527.4	2503.7
8506.4	20°	8443.2	8147.0	7305.8	6081.6	4565.2	3206.7	2409.0	2179.9	2179.9	2211.5
8439.2	22.5°	8372.1	7981.1	6918.8	5437.9	3633.2	2322.1	1958.8	1891.6	1966.7	2021.9
8435.3	25°	8273.4	7842.9	6523.9	4770.5	2764.4	1871.9	1702.1	1717.9	1788.9	1887.7
8344.4	27.5°	8131.2	7602.0	6054.0	3996.5	2057.5	1615.2	1571.7	1579.6	1654.7	1698.1
8222.0	30°	7969.3	7357.2	5619.6	3226.4	1631.0	1480.9	1477.0	1496.7	1508.6	1532.3
8186.5	32.5°	7763.9	7033.3	5157.5	2507.7	1469.1	1405.9	1390.1	1378.2	1390.1	1386.1
8075.9	35°	7617.8	6859.6	4687.6	1911.4	1378.2	1338.7	1326.9	1307.2	1291.4	1267.7
8075.9	37.5°	7578.3	6685.8	4193.9	1559.9	1307.2	1287.4	1247.9	1212.4	1192.6	1180.8
8249.7	40°	7554.6	6571.3	3712.2	1370.3	1247.9	1228.2	1180.8	1133.4	1113.6	1101.8
8510.3	42.5°	7637.6	6508.1	3222.5	1275.6	1196.6	1161.0	1109.7	1054.4	1050.5	1042.6
8988.2	45°	7929.8	6587.1	2768.3	1208.4	1145.2	1086.0	1018.9	991.2	987.3	979.4
9781.9	47.5°	8593.2	6784.6	2381.3	1165.0	1090.0	1038.6	967.5	928.0	924.1	920.1
10974.5	50°	9509.4	7392.7	2057.5	1113.6	1054.4	983.3	916.2	872.8	864.9	849.1
12562.1	52.5°	10946.9	8415.5	1864.0	1086.0	991.2	932.0	860.9	813.5	793.8	778.0
14366.8	55°	12566.0	9683.2	1828.4	1038.6	924.1	868.8	805.6	758.2	738.5	718.7
16061.0	57.5°	14410.3	11361.6	2081.2	1007.0	876.7	805.6	734.5	691.1	675.3	655.6
17692.0	60°	16128.1	13036.0	2867.0	959.6	833.3	746.4	675.3	631.9	612.1	592.4
19698.1	62.5°	18114.5	15109.3	4197.9	959.6	793.8	683.2	612.1	580.5	568.7	548.9
21731.9	65°	20464.2	17253.6	5169.4	1018.9	781.9	627.9	552.9	521.3	509.4	497.6
23366.8	67.5°	22253.2	18485.7	4446.7	1176.8	833.3	580.5	493.6	473.9	466.0	454.1
24464.7	70°	22442.7	17735.4	2681.4	1271.6	884.6	533.1	442.3	422.6	422.6	410.7
23287.8	72.5°	20740.7	15737.2	1804.7	1133.4	801.7	477.8	391.0	375.2	367.3	359.4
20373.4	75°	17356.3	13348.0	1425.6	904.3	616.1	394.9	339.6	323.8	312.0	308.0
13825.8	77.5°	11657.7	8676.2	1054.4	706.9	454.1	319.9	284.3	268.5	256.7	252.7
5453.7	80°	4478.3	3305.4	679.2	513.4	319.9	252.7	225.1	209.3	201.4	189.6
1500.7	82.5°	1319.0	1070.2	379.1	315.9	205.4	173.8	161.9	150.1	138.2	126.4
556.8	85°	545.0	489.7	233.0	165.9	126.4	102.7	94.8	82.9	71.1	63.2
229.0	87.5°	252.7	209.3	106.6	63.2	43.4	23.7	11.8	3.9	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°
8257.6
7910.0
7412.5
6559.5
5536.6
4312.4
3183.0
2523.5
2223.3
2045.6
1879.8
1690.2
1528.3
1374.3
1263.7
1172.9
1105.7
1054.4
987.3
920.1
849.1
778.0
710.8
647.7
592.4
545.0
493.6
446.2
402.8
355.4
300.1
240.9
181.7
122.4
55.3
0.0
0.0

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