

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: P574773

Luminaire Tested: **EPH-VN-07-735-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574773
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-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

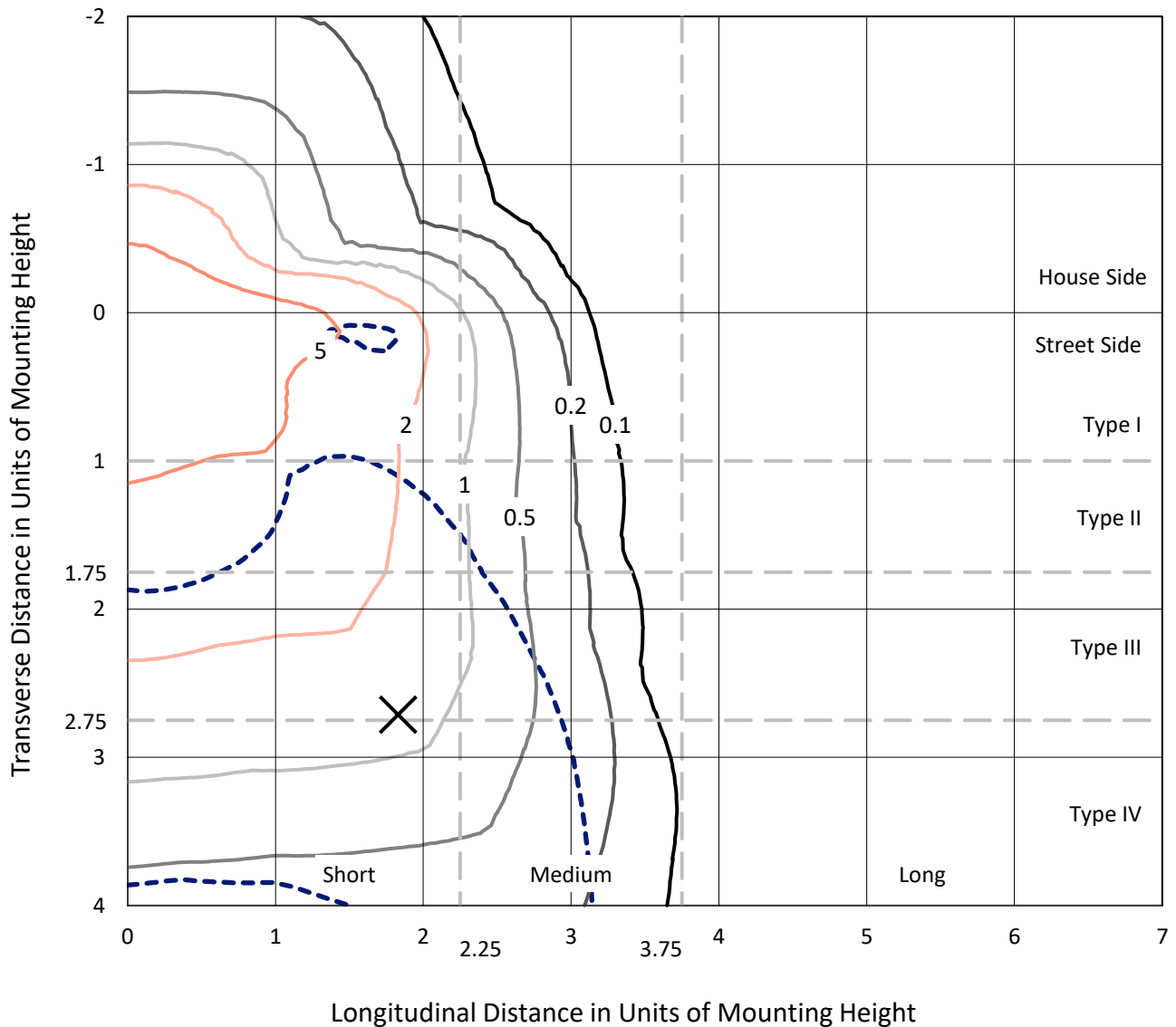
Lumens per Lamp: N/A
Luminaire Lumens: 57041.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

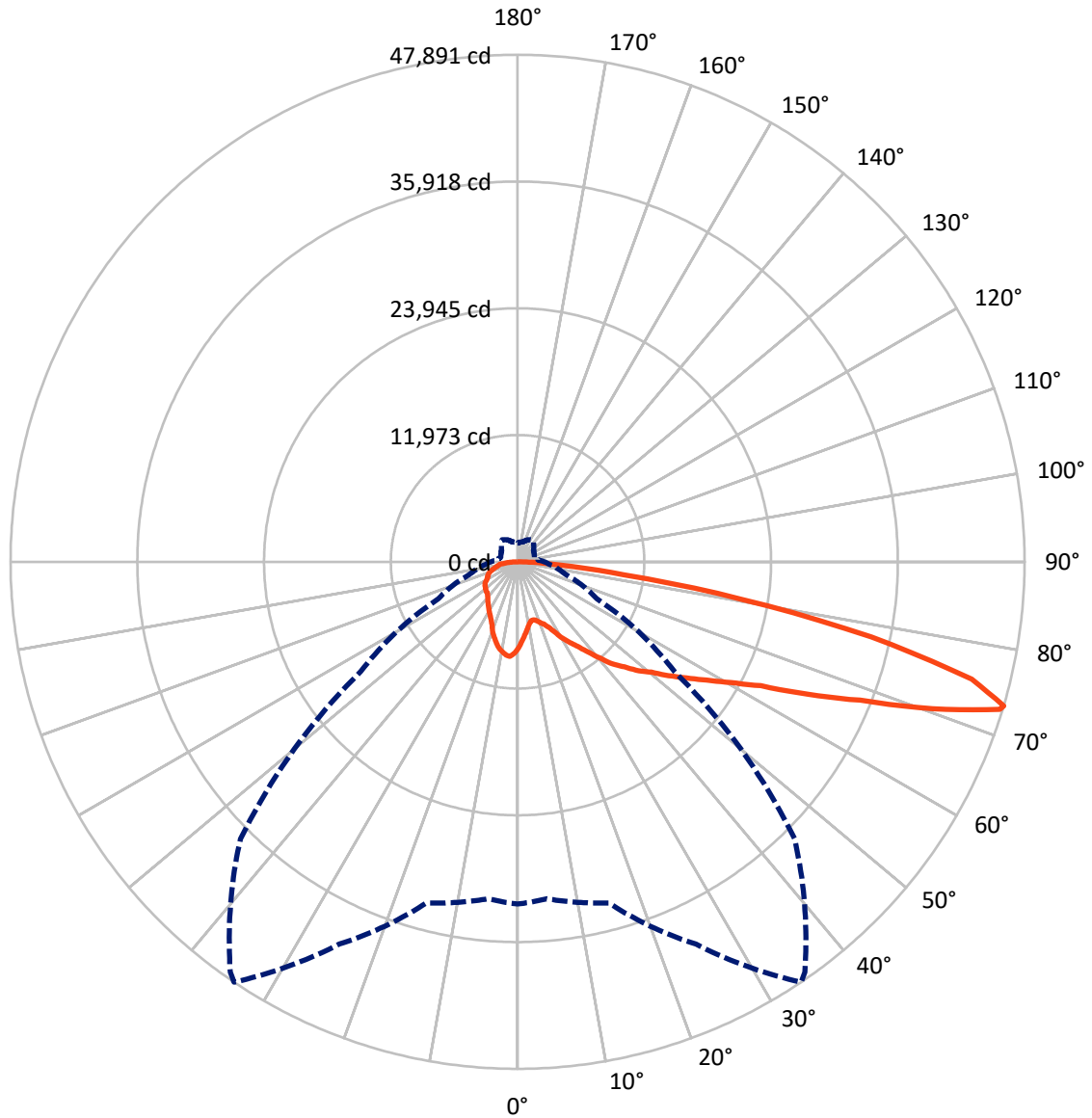
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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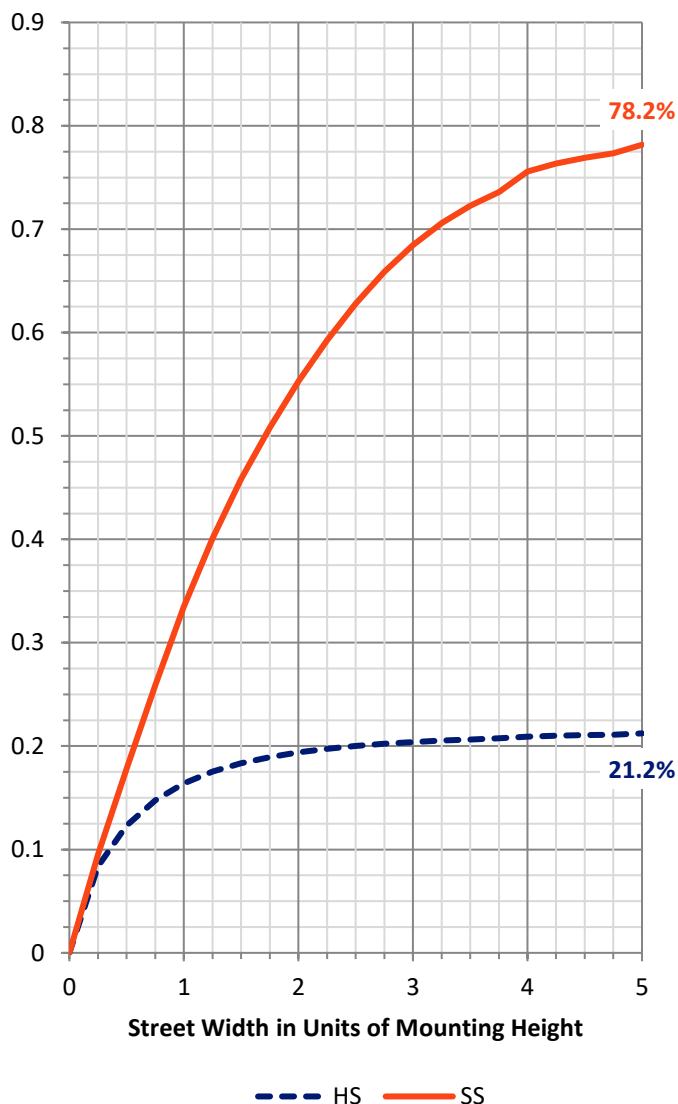
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12321.7	0.0	12321.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	44720.0	0.0	44720.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	57041.7	0.0	57041.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.8	1.3
10°-20°	2112.3	3.7
20°-30°	3476.5	6.1
30°-40°	5199.1	9.1
40°-50°	7707.5	13.5
50°-60°	11107.3	19.5
60°-70°	14174.4	24.8
70°-80°	11030.0	19.3
80°-90°	1479.7	2.6
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°	57041.7	100.0
0°-180°	57041.7	100.0

Coefficient of Utilization

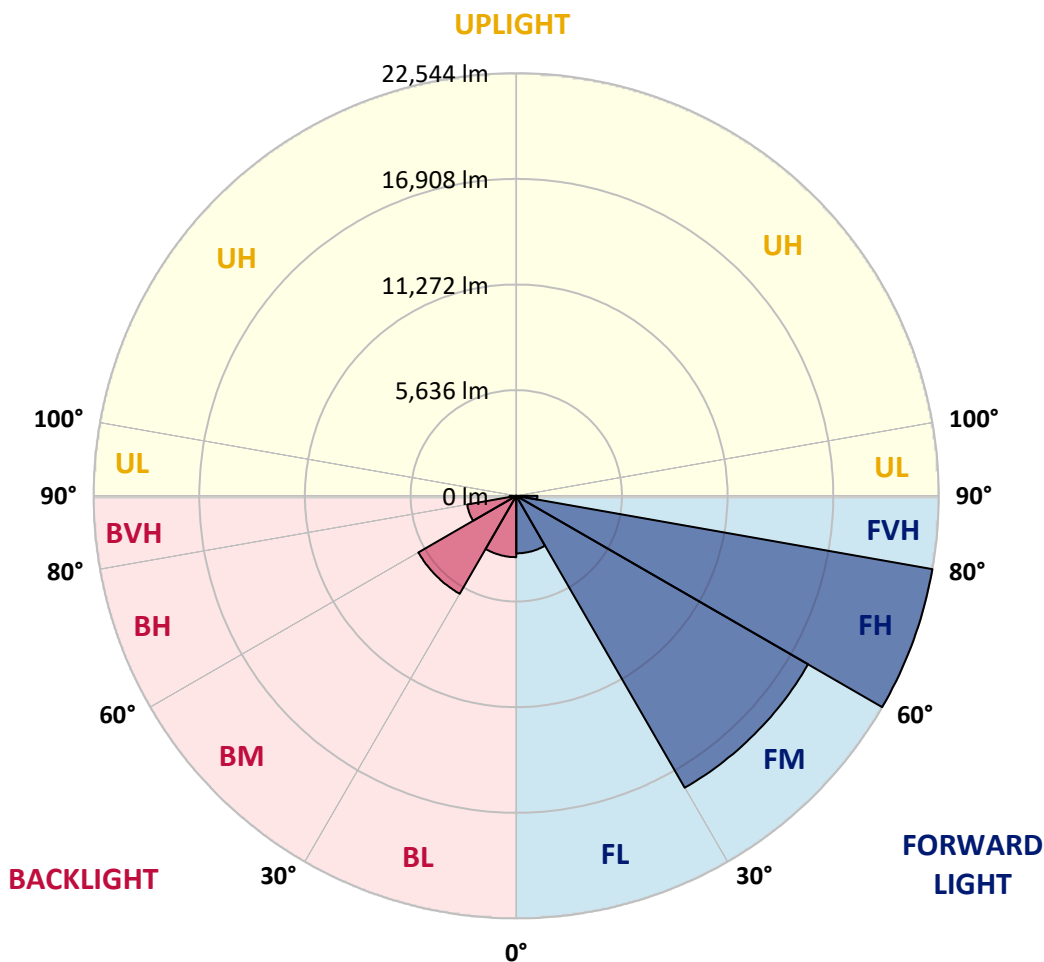


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.8	5.4			
FM (30°-60°)	17979.9	31.5			
FH (60°-80°)	22543.9	39.5			G5
FVH (80°-90°)	1126.3	2.0			G5
BL (0°-30°)	3273.8	5.7	B4/5000		
BM (30°-60°)	6034.0	10.6	B4/8500		
BH (60°-80°)	2660.5	4.7	B4/5000		G4/5000
BVH (80°-90°)	353.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8
2.5°	7327.5	7351.6	7430.0	7448.1	7532.5	7484.3	7586.8	7767.7	7870.2	8021.0
5°	6748.5	6646.0	6694.2	6881.2	6977.7	7001.8	7110.4	7417.9	7610.9	7834.1
7.5°	6067.0	6048.9	6145.4	6266.0	6459.0	6477.1	6718.4	6989.7	7387.8	7882.3
10°	5602.7	5681.1	5735.3	5862.0	5994.7	5994.7	6302.2	6772.6	7224.9	7701.4
12.5°	5578.5	5530.3	5542.3	5608.7	5705.2	5825.8	6115.3	6537.4	7110.4	7665.2
15°	5656.9	5675.0	5566.5	5650.9	5687.1	5729.3	6048.9	6525.4	7038.0	7791.8
17.5°	6073.1	5970.5	5801.7	5723.3	5849.9	5849.9	6067.0	6440.9	7050.1	7858.2
20°	6398.7	6398.7	6121.3	6036.9	6127.3	6109.2	6260.0	6537.4	7110.4	7990.9
22.5°	6947.5	7025.9	6567.6	6392.7	6386.7	6434.9	6567.6	6802.8	7279.2	8177.8
25°	7737.6	7755.7	7224.9	7044.0	6851.0	6929.4	6953.6	7188.8	7430.0	8394.9
27.5°	8618.1	8606.0	8117.5	7665.2	7538.6	7556.6	7424.0	7580.8	7653.1	8461.3
30°	9595.1	9486.5	9118.6	8479.4	8376.8	8262.3	7972.8	7966.7	8117.5	8835.2
32.5°	10234.3	10095.6	9842.3	9384.0	9100.5	9112.6	8654.3	8648.2	8515.5	9245.3
35°	10861.5	10650.5	10584.1	10113.7	9830.3	9860.4	9492.5	9444.3	9203.1	9866.5
37.5°	11615.4	11428.4	11531.0	11175.1	10825.4	10680.6	10511.8	10451.4	10137.8	10740.9
40°	12447.7	12387.3	12321.0	12146.1	11935.0	11947.1	11766.2	11705.9	11241.5	11796.3
42.5°	13569.4	13340.2	12996.5	13111.1	13219.6	13334.2	13273.9	13117.1	12634.6	12869.8
45°	14612.7	14311.2	13677.9	13714.1	14160.4	14250.9	14980.6	14962.5	13991.6	14232.8
47.5°	15318.3	15179.6	14799.7	14757.5	15396.7	15390.7	16705.4	16705.4	15420.9	15589.7
50°	16367.7	16005.9	15843.0	16054.1	16379.8	16602.9	18466.4	18581.0	16826.0	17007.0
52.5°	17598.0	17145.7	16735.6	17278.4	17857.3	18002.1	20209.4	20161.1	17905.6	18653.4
55°	18617.2	18388.0	18104.6	18418.2	19365.0	19546.0	21958.3	21512.0	18985.1	20016.4
57.5°	19805.3	19944.0	20004.3	19925.9	21053.7	21337.1	23954.5	22676.0	19913.8	20933.1
60°	21596.4	21680.9	21759.3	21946.2	23140.3	23538.4	25534.6	24135.4	20498.8	21463.8
62.5°	24322.4	23996.7	24171.6	24816.9	25775.8	26228.1	27862.5	25160.7	20945.1	21783.4
65°	27440.3	27000.1	26819.2	27651.4	30136.1	29774.3	30769.4	25926.6	20299.8	20589.3
67.5°	30600.5	30648.7	30184.4	31854.9	34900.5	34900.5	33471.2	26294.5	18550.9	16687.3
70°	33109.3	33260.1	33513.4	36751.9	41576.6	42306.4	36818.3	24786.8	14986.6	11108.8
72.5°	33073.1	32620.8	33917.5	39882.0	47643.7	47034.5	37517.9	19600.2	9353.8	5439.8
73°	32331.3	31951.4	33368.6	39851.8	47890.9	47318.0	37005.2	18068.4	8250.2	4716.1
75°	26403.0	25715.5	28127.8	36094.6	44308.6	44748.8	31438.8	11784.3	4523.1	2906.9
77.5°	12037.6	12339.1	15481.2	24213.8	34146.6	34665.3	20667.7	5096.1	2478.7	2038.4
80°	3865.8	4058.8	6024.8	12037.6	21403.5	22338.2	9552.9	2315.8	1767.0	1562.0
82.5°	1477.6	1471.5	2526.9	5005.6	10143.9	10740.9	3491.9	1411.2	1314.7	1151.9
85°	518.7	542.8	952.9	1978.1	3992.4	4179.4	1212.2	784.0	910.7	771.9
87.5°	180.9	187.0	337.7	717.7	1375.0	1453.4	337.7	313.6	452.3	446.3
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°
8177.8	0°	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8	8177.8
8201.9	2.5°	8262.3	8316.5	8334.6	8551.7	8551.7	8551.7	8636.2	8636.2	8612.0	8551.7
8171.8	5°	8298.4	8394.9	8581.9	8768.8	8817.1	8859.3	8973.9	8877.4	8913.6	8853.3
8280.3	7.5°	8401.0	8533.6	8883.4	8998.0	8919.6	9010.1	8889.5	8823.1	8756.8	8780.9
8304.5	10°	8575.9	8744.7	8907.6	9118.6	8967.9	8877.4	8630.1	8569.8	8358.7	8286.4
8407.0	12.5°	8793.0	8998.0	9275.4	9197.0	8907.6	8648.2	8382.9	8129.6	8002.9	7822.0
8581.9	15°	9010.1	9245.3	9287.5	9154.8	8793.0	8467.3	7984.8	7629.0	7502.4	7339.5
8835.2	17.5°	9245.3	9468.4	9396.1	9052.3	8563.8	8069.3	7520.5	7170.7	6905.3	6802.8
9118.6	20°	9595.1	9703.6	9589.0	8883.4	8286.4	7635.0	7104.3	6706.3	6440.9	6398.7
9390.0	22.5°	9866.5	10041.4	9528.7	8636.2	7882.3	7068.1	6459.0	6308.3	6229.9	6163.5
9697.6	25°	10216.2	10210.2	9420.2	8407.0	7188.8	6392.7	6024.8	6012.7	5976.6	5952.4
10137.8	27.5°	10547.9	10409.2	9293.5	7840.1	6471.1	5880.1	5681.1	5813.7	5868.0	5831.8
10747.0	30°	11072.6	10843.5	9112.6	7237.0	5837.9	5361.4	5397.6	5578.5	5669.0	5723.3
11277.7	32.5°	11627.5	11277.7	8738.7	6609.8	5277.0	5035.8	5120.2	5307.1	5415.7	5476.0
12152.1	35°	12429.6	11615.4	8358.7	5789.6	4872.9	4836.7	4885.0	4987.5	5144.3	5186.5
13346.3	37.5°	13418.6	12128.0	7846.1	5132.2	4559.3	4601.5	4649.8	4686.0	4692.0	4770.4
14492.1	40°	14407.7	12562.2	7098.3	4505.0	4233.7	4462.8	4438.7	4372.4	4318.1	4245.7
15770.7	42.5°	15276.1	12942.2	6266.0	3974.3	3944.2	4318.1	4239.7	4070.8	3944.2	3889.9
17224.1	45°	16253.1	13478.9	5427.8	3642.6	3721.0	4143.2	4119.1	3859.7	3696.9	3503.9
18786.1	47.5°	17519.6	14039.8	4625.7	3298.9	3509.9	4076.8	4088.9	3757.2	3522.0	3262.7
20830.5	50°	19141.9	14847.9	4016.5	3154.1	3383.3	3980.4	3998.4	3618.5	3310.9	3045.6
23224.8	52.5°	20697.8	15674.2	3509.9	2931.0	3298.9	3865.8	3908.0	3491.9	3136.0	2804.3
24376.7	55°	21481.9	15372.6	3075.7	2768.2	3105.9	3678.8	3835.6	3401.4	2870.7	2641.5
25052.1	57.5°	21656.8	14630.8	2732.0	2599.3	2943.1	3479.8	3715.0	3130.0	2750.1	2557.1
25106.4	60°	21083.8	13334.2	2460.6	2418.4	2738.0	3274.7	3437.6	2985.3	2629.4	2472.6
23333.3	62.5°	19672.6	11989.3	2273.6	2333.9	2563.1	3051.6	3262.7	2882.7	2514.9	2406.3
19787.2	65°	16132.5	9860.4	2122.9	2171.1	2382.2	2834.5	3154.1	2768.2	2412.3	2309.8
13877.0	67.5°	11175.1	6796.8	2002.2	2092.7	2237.4	2677.7	3045.6	2641.5	2279.7	2243.5
7586.8	70°	5723.3	3624.5	1845.4	1917.8	2080.6	2478.7	2852.6	2508.8	2140.9	2134.9
3479.8	72.5°	2900.8	2122.9	1664.5	1773.1	1887.7	2219.3	2611.4	2333.9	1966.1	1899.7
3093.8	73°	2508.8	1966.1	1634.4	1730.9	1839.4	2147.0	2539.0	2291.7	1941.9	1845.4
2177.1	75°	1827.3	1549.9	1465.5	1562.0	1646.4	1935.9	2297.8	2098.7	1785.1	1682.6
1604.2	77.5°	1369.0	1194.1	1218.2	1326.8	1399.2	1670.5	2044.5	1899.7	1616.3	1477.6
1200.1	80°	1007.2	910.7	1007.2	1109.7	1164.0	1471.5	1863.5	1646.4	1363.0	1206.2
850.3	82.5°	717.7	663.4	778.0	844.3	868.4	1218.2	1676.6	1314.7	1031.3	826.2
488.5	85°	410.1	404.1	524.7	518.7	536.7	711.6	1103.6	874.5	663.4	506.6
247.3	87.5°	180.9	199.0	265.4	211.1	223.1	337.7	470.4	325.7	271.4	150.8
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°
8177.8
8696.5
8907.6
8696.5
8352.7
7870.2
7424.0
6802.8
6332.4
6079.1
6067.0
5880.1
5650.9
5542.3
5204.6
4740.2
4227.6
3799.4
3479.8
3226.5
3021.5
2822.4
2635.5
2533.0
2436.5
2327.9
2303.8
2195.2
2074.6
1803.2
1755.0
1598.2
1441.4
1176.0
759.9
494.5
114.6
0.0

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