

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: P574824

Luminaire Tested: **EPH-VN-06-750-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574824
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

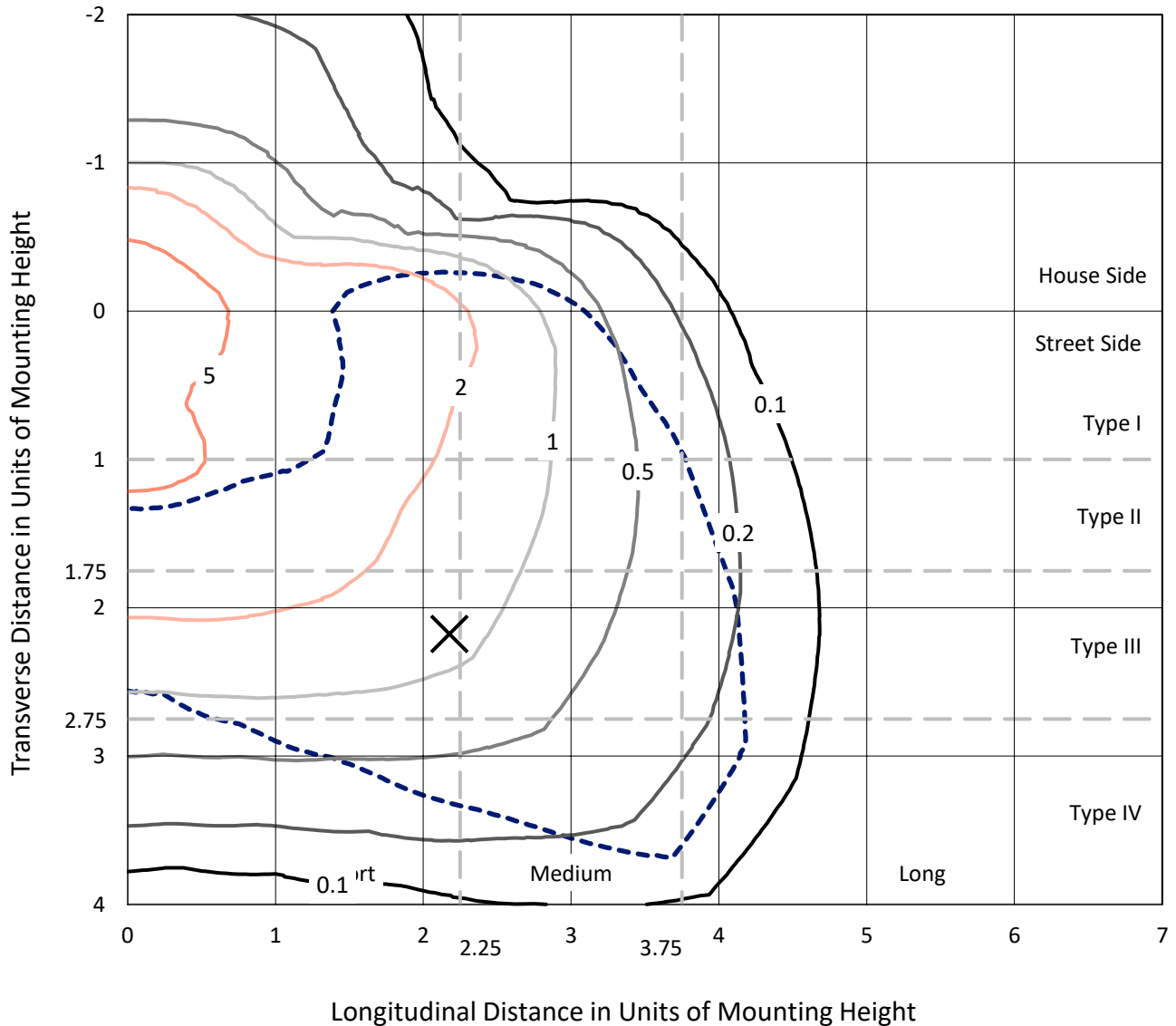
Lumens per Lamp: N/A
Luminaire Lumens: 54708.1 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

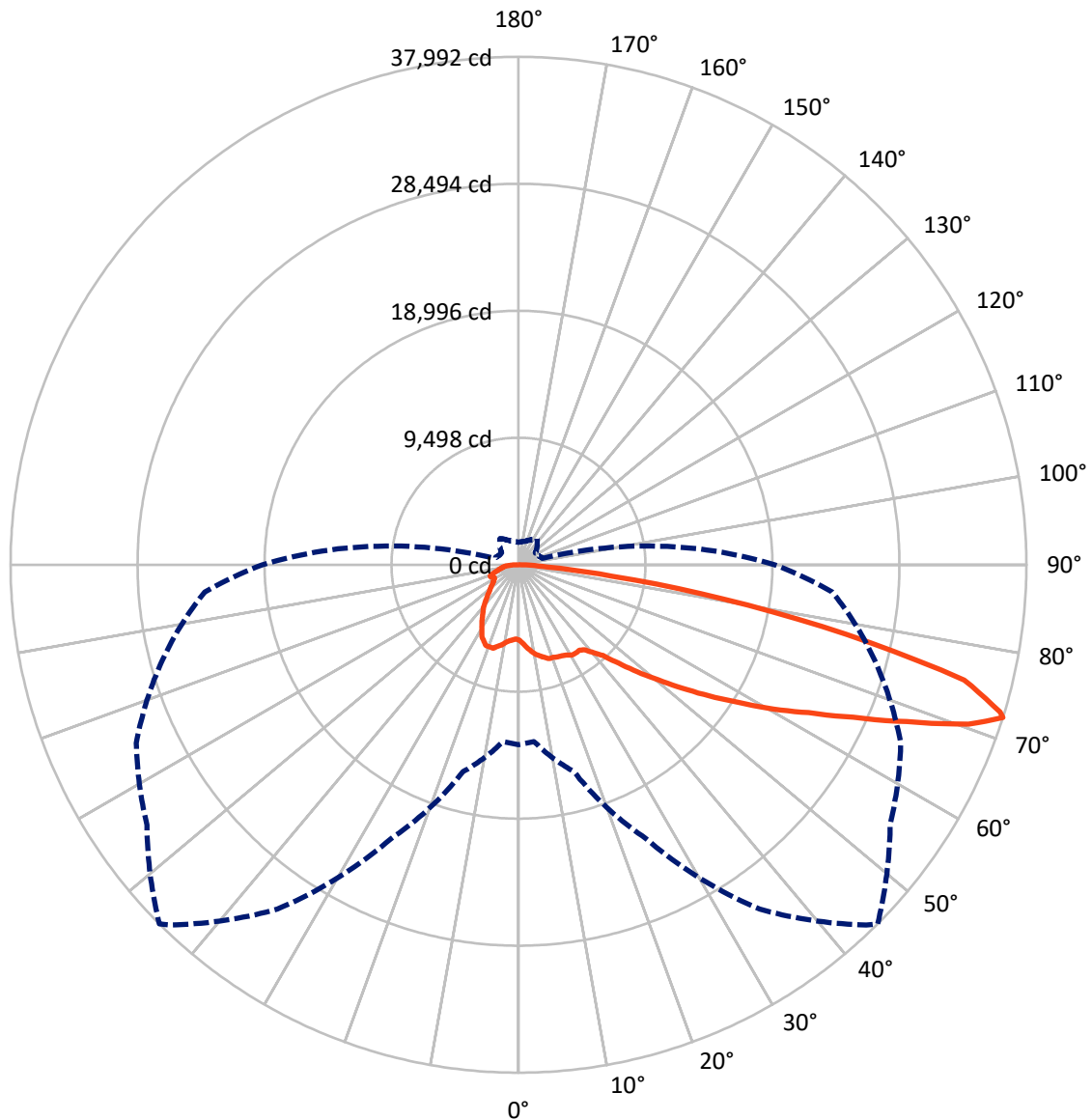
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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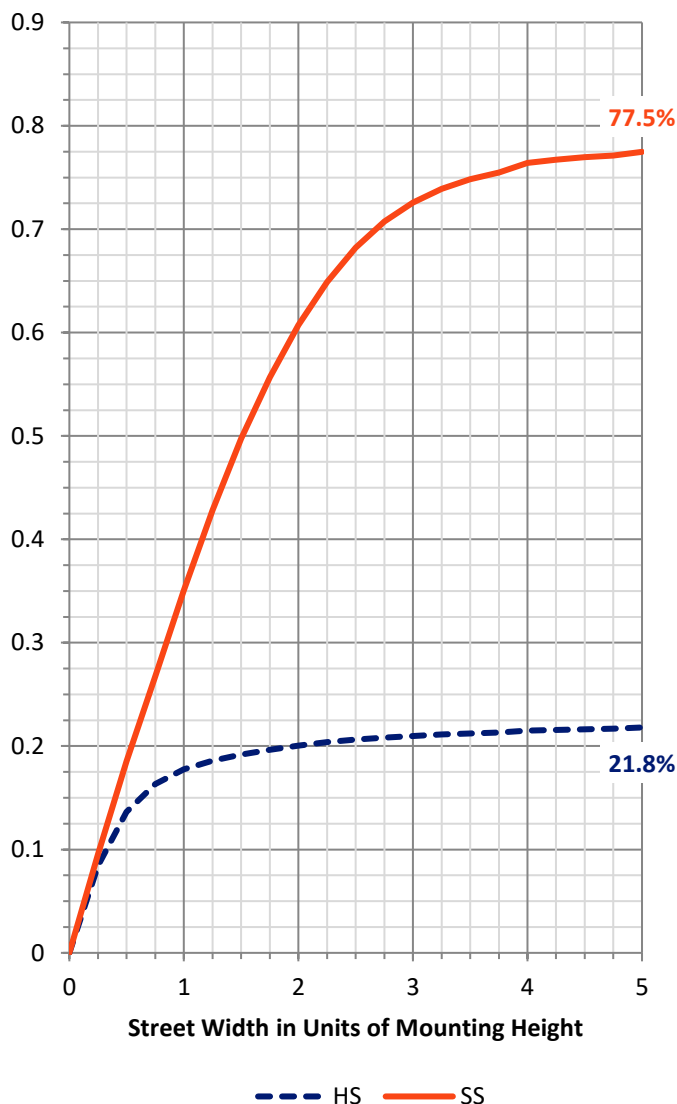
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12178.4	0.0	12178.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	42529.8	0.0	42529.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	54708.1	0.0	54708.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.5	1.1
10°-20°	1918.1	3.5
20°-30°	3239.1	5.9
30°-40°	4482.4	8.2
40°-50°	6411.6	11.7
50°-60°	10341.2	18.9
60°-70°	15251.8	27.9
70°-80°	11075.5	20.2
80°-90°	1411.8	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°	54708.1	100.0
0°-180°	54708.1	100.0

Coefficient of Utilization

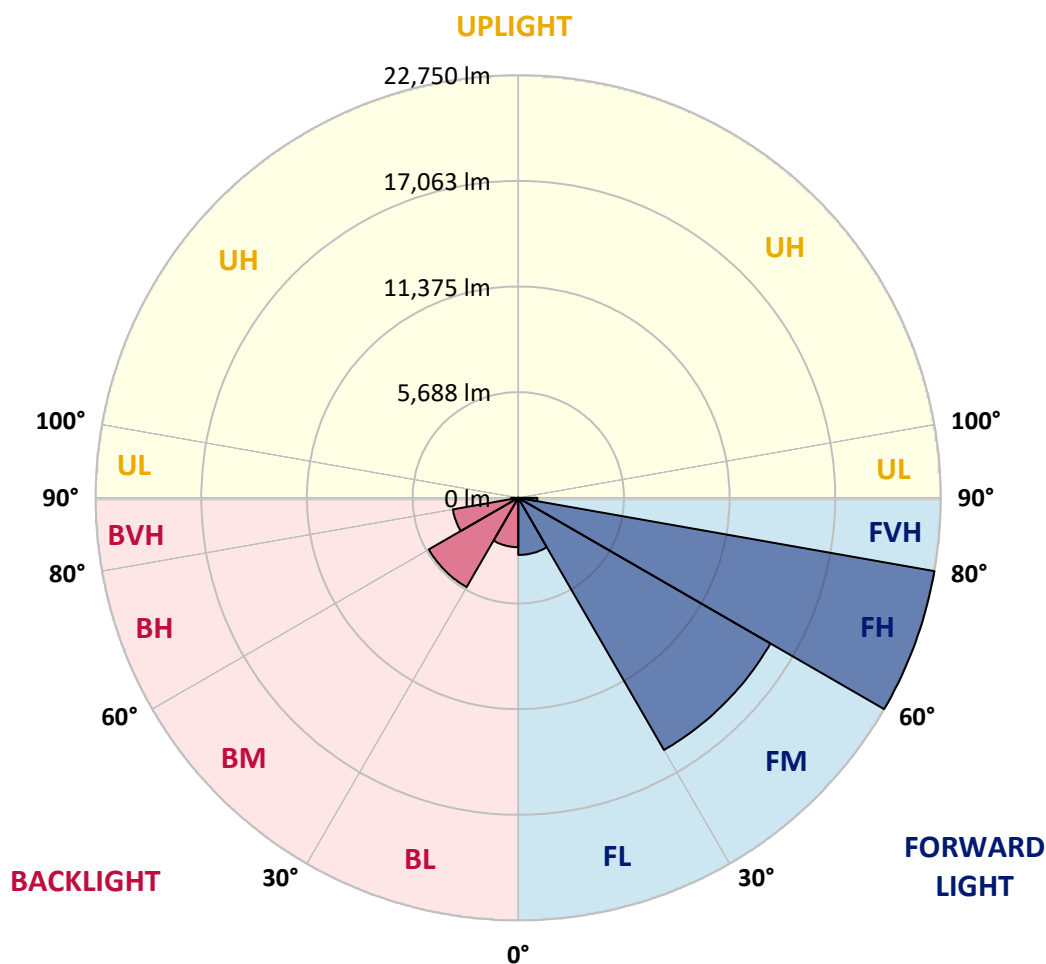


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3074.6	5.6			
FM (30°-60°)	15677.4	28.7			
FH (60°-80°)	22750.1	41.6			G5
FVH (80°-90°)	1027.6	1.9			G5
BL (0°-30°)	2659.1	4.9	B4/5000		
BM (30°-60°)	5557.8	10.2	B4/8500		
BH (60°-80°)	3577.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	384.2	0.7			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°	35°	44°	45°	55°	65°	75°
0°	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9
2.5°	5934.8	5970.2	5934.8	5928.9	5869.9	5828.6	5864.0	5810.9	5751.9	5728.3
5°	6477.6	6483.5	6418.6	6424.5	6300.6	6170.8	6194.4	6035.1	5864.0	5799.1
7.5°	7032.1	6967.2	6872.8	6843.3	6648.6	6507.1	6489.4	6347.8	6082.3	5934.8
10°	7392.0	7415.6	7262.2	7132.4	6967.2	6796.1	6790.2	6524.8	6371.4	6153.1
12.5°	7710.5	7716.4	7586.7	7380.2	7173.7	6961.3	6990.8	6872.8	6613.3	6406.8
15°	7958.3	7922.9	7781.3	7592.6	7374.3	7209.1	7191.4	7091.1	6872.8	6701.7
17.5°	8029.1	8011.4	7869.8	7669.2	7456.9	7333.0	7380.2	7215.0	7126.5	6973.1
20°	7893.4	7852.1	7828.5	7604.4	7451.0	7439.2	7397.9	7433.3	7285.8	7144.2
22.5°	7645.6	7628.0	7616.2	7439.2	7368.4	7421.5	7492.3	7545.4	7521.8	7386.1
25°	7392.0	7474.6	7397.9	7315.3	7415.6	7551.3	7533.6	7704.6	7704.6	7663.3
27.5°	7569.0	7515.9	7456.9	7415.6	7451.0	7663.3	7651.5	7858.0	7934.7	7858.0
30°	8011.4	7958.3	7787.2	7604.4	7557.2	7787.2	7846.2	8029.1	8064.5	7875.7
32.5°	8843.2	8813.7	8542.4	8005.5	7716.4	7846.2	7875.7	8082.2	8052.7	7934.7
35°	10076.2	9975.9	9598.4	8689.8	8052.7	7922.9	7846.2	8011.4	8123.5	8064.5
37.5°	11427.2	11315.1	10849.0	9698.6	8660.4	8129.4	8070.4	8206.1	8335.9	8306.4
40°	12719.2	12719.2	12300.3	10961.1	9563.0	8630.9	8642.7	8489.3	8607.3	8554.2
42.5°	13993.4	13946.2	13775.1	12441.9	10530.5	9468.6	9279.8	8896.3	9108.7	9091.0
45°	15285.4	15250.0	15202.8	13822.3	11916.8	10601.3	10501.0	9810.7	10005.4	9922.8
47.5°	16317.8	16359.1	16359.1	15362.1	13397.6	12111.5	11964.0	10872.6	11244.3	11285.6
50°	17196.8	17214.5	17196.8	16831.0	15049.4	13840.0	13539.2	12430.1	12801.7	13126.2
52.5°	18412.1	18435.7	18353.1	18211.5	17291.2	15657.1	15320.8	14087.8	14848.8	15191.0
55°	19910.5	19733.6	19580.2	19686.4	19444.5	17657.0	17308.9	15798.6	16943.1	17397.4
57.5°	20187.8	20341.2	20730.6	21574.2	21922.2	19603.8	19403.2	17898.8	19308.8	19704.1
60°	21167.1	20913.4	21869.2	23698.0	24087.3	22140.5	21934.0	20199.6	21662.7	22075.6
62.5°	21810.2	21798.4	23214.2	25385.2	26270.1	24771.7	24352.8	23190.6	24205.3	24606.5
65°	21621.4	21792.5	24305.6	26376.3	28093.0	27762.7	27520.8	25762.8	27101.9	27066.5
67.5°	19898.7	20382.5	23615.4	27090.1	30806.8	31408.5	31331.8	29379.1	29455.8	28706.6
70°	17509.5	17344.3	20695.2	26346.8	32163.6	35732.8	35715.1	32069.3	31573.7	29066.4
72°	13450.7	13267.8	16022.8	22624.3	31449.8	37461.3	37992.3	33933.5	31550.1	27573.9
72.5°	12211.8	12052.5	14795.7	21296.9	30659.3	37909.7	37661.9	34004.3	31302.3	26871.9
75°	5622.1	5439.3	7392.0	13037.7	23916.3	33591.3	34434.9	31821.5	27337.9	21391.3
77.5°	1675.4	1622.3	2377.5	5262.3	13899.0	24748.1	25072.5	24010.6	19084.6	11716.3
80°	932.1	938.0	1227.1	1970.4	6111.8	14306.1	15474.2	14831.1	9362.4	3870.0
82.5°	519.1	548.6	766.9	1168.1	2808.1	6566.1	7067.5	6813.8	3386.3	1817.0
85°	271.4	283.2	401.2	625.3	1592.8	2076.6	2135.6	2289.0	1758.0	1238.9
87.5°	106.2	106.2	147.5	259.6	589.9	643.0	578.1	702.0	1008.8	802.3
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°
5633.9	0°	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9	5633.9
5675.2	2.5°	5722.4	5675.2	5669.3	5592.7	5616.2	5551.4	5557.3	5545.5	5551.4	5539.6
5692.9	5°	5692.9	5657.5	5557.3	5622.1	5563.2	5645.7	5710.6	5687.0	5704.7	5698.8
5787.3	7.5°	5734.2	5687.0	5675.2	5639.8	5692.9	5728.3	5781.4	5928.9	5917.1	5934.8
5964.3	10°	5858.1	5805.0	5769.6	5822.7	5793.2	5905.3	5964.3	6041.0	6176.7	6182.6
6218.0	12.5°	6100.0	6064.6	5993.8	6005.6	6105.9	6141.3	6176.7	6223.9	6312.4	6294.7
6389.1	15°	6377.3	6300.6	6259.3	6247.5	6271.1	6312.4	6306.5	6353.7	6400.9	6442.2
6672.2	17.5°	6577.9	6477.6	6489.4	6548.4	6542.5	6530.7	6454.0	6430.4	6454.0	6477.6
6925.9	20°	6784.3	6796.1	6707.6	6654.5	6630.9	6513.0	6454.0	6383.2	6312.4	6347.8
7138.3	22.5°	7043.9	6990.8	6861.0	6701.7	6583.8	6513.0	6330.1	6206.2	6206.2	6241.6
7456.9	25°	7338.9	7226.8	7002.6	6713.5	6566.1	6265.2	6135.4	6117.7	6070.5	6123.6
7622.1	27.5°	7569.0	7468.7	7161.9	6672.2	6265.2	6023.3	5946.6	5923.0	5999.7	6005.6
7675.1	30°	7663.3	7633.9	7185.5	6566.1	5958.4	5569.1	5521.9	5628.0	5710.6	5834.5
7852.1	32.5°	7787.2	7799.0	7220.9	6318.3	5557.3	5167.9	5097.1	5226.9	5462.9	5563.2
7987.8	35°	7993.7	8052.7	7191.4	6011.5	5132.5	4760.8	4749.0	4784.4	5014.5	5191.5
8147.1	37.5°	8353.6	8341.8	7185.5	5645.7	4796.2	4406.9	4312.5	4324.3	4477.7	4625.1
8583.7	40°	8837.3	8790.1	7167.8	5167.9	4359.7	4106.0	3946.7	3887.7	3875.9	3834.6
9132.3	42.5°	9498.1	9403.7	7161.9	4684.1	3964.4	3693.0	3580.9	3427.6	3315.5	3103.1
10099.8	45°	10418.4	10253.2	7008.5	4229.9	3575.0	3350.9	3179.8	3067.7	2825.8	2560.3
11326.9	47.5°	11840.1	11303.3	7014.4	3728.4	3197.5	3014.6	2896.6	2701.9	2442.4	2230.0
13503.8	50°	13934.4	12707.4	6813.8	3333.2	2890.7	2766.8	2642.9	2418.8	2171.0	2023.5
15869.4	52.5°	16636.4	14801.6	6807.9	2979.2	2648.8	2560.3	2424.7	2224.1	2041.2	1946.8
18754.3	55°	19857.5	17574.4	7020.3	2690.1	2401.1	2353.9	2294.9	2129.7	1952.7	1870.1
21969.4	57.5°	23155.2	20282.2	7362.5	2483.7	2188.7	2224.1	2182.8	2053.0	1911.4	1817.0
24936.9	60°	26087.2	22429.6	6672.2	2235.9	1999.9	2076.6	2135.6	2023.5	1946.8	1940.9
28169.7	62.5°	28299.5	23349.9	5073.5	2047.1	1899.6	2041.2	2200.5	2271.3	2235.9	2283.1
30275.8	65°	29107.7	22795.4	3492.5	1946.8	1822.9	2123.8	2477.8	2454.2	2247.7	2159.2
31213.8	67.5°	27975.1	20547.7	2589.8	1828.8	1769.8	2294.9	2637.0	2342.1	2029.4	2017.6
28523.7	70°	24057.8	17415.1	2112.0	1704.9	1681.3	2200.5	2566.2	2171.0	1911.4	1834.7
23562.3	72°	19167.2	13562.8	1852.4	1616.4	1539.7	1964.5	2401.1	2035.3	1811.1	1716.7
22010.7	72.5°	17497.7	12571.7	1817.0	1575.1	1510.3	1911.4	2318.5	1994.0	1787.5	1704.9
13185.2	75°	9598.4	6436.3	1598.7	1445.4	1274.3	1651.8	2147.4	1870.1	1687.2	1569.2
4890.6	77.5°	3569.1	2495.5	1380.5	1280.2	1103.2	1427.7	1952.7	1775.7	1533.8	1386.4
1628.2	80°	1368.7	1315.6	1126.8	1079.6	926.2	1250.7	1799.3	1592.8	1303.8	1156.3
890.8	82.5°	831.8	766.9	855.4	843.6	707.9	1138.6	1693.1	1492.6	1156.3	938.0
477.9	85°	454.3	454.3	595.8	572.2	495.6	908.5	1280.2	991.1	731.5	601.7
236.0	87.5°	200.6	236.0	318.6	300.9	271.4	513.2	625.3	525.0	365.8	247.8
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°
5633.9
5510.1
5704.7
5970.2
6111.8
6359.6
6424.5
6465.8
6400.9
6223.9
6147.2
6100.0
5840.4
5639.8
5291.8
4607.4
3846.4
3114.9
2560.3
2206.4
2041.2
1911.4
1864.2
1805.2
1899.6
2289.0
2206.4
1982.2
1799.3
1675.4
1640.0
1557.4
1356.9
1109.1
908.5
613.5
265.5
0.0

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