

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: P574767

Luminaire Tested: **EPH-VN-07-730-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574767
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

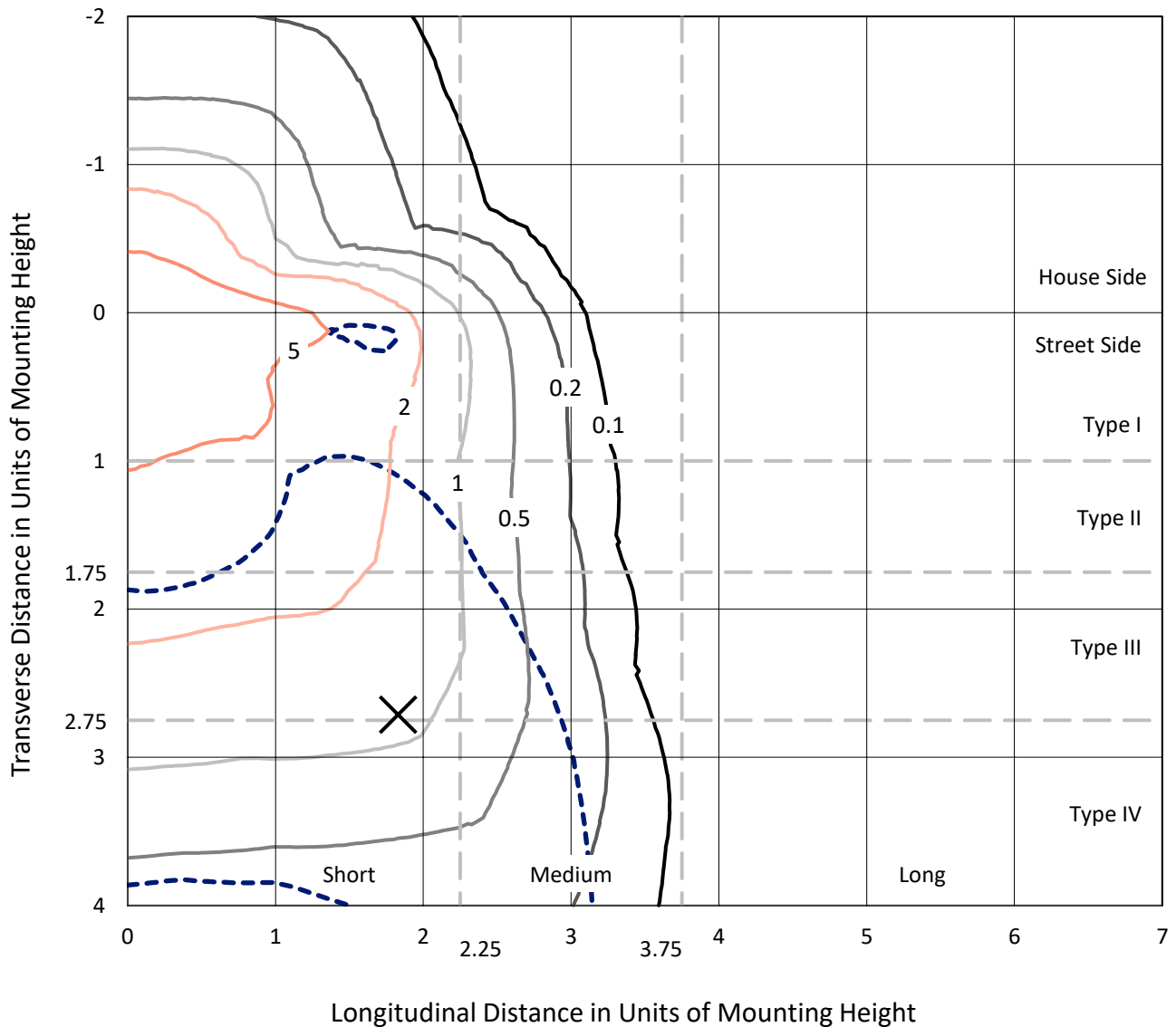
Lumens per Lamp: N/A
Luminaire Lumens: 52663.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

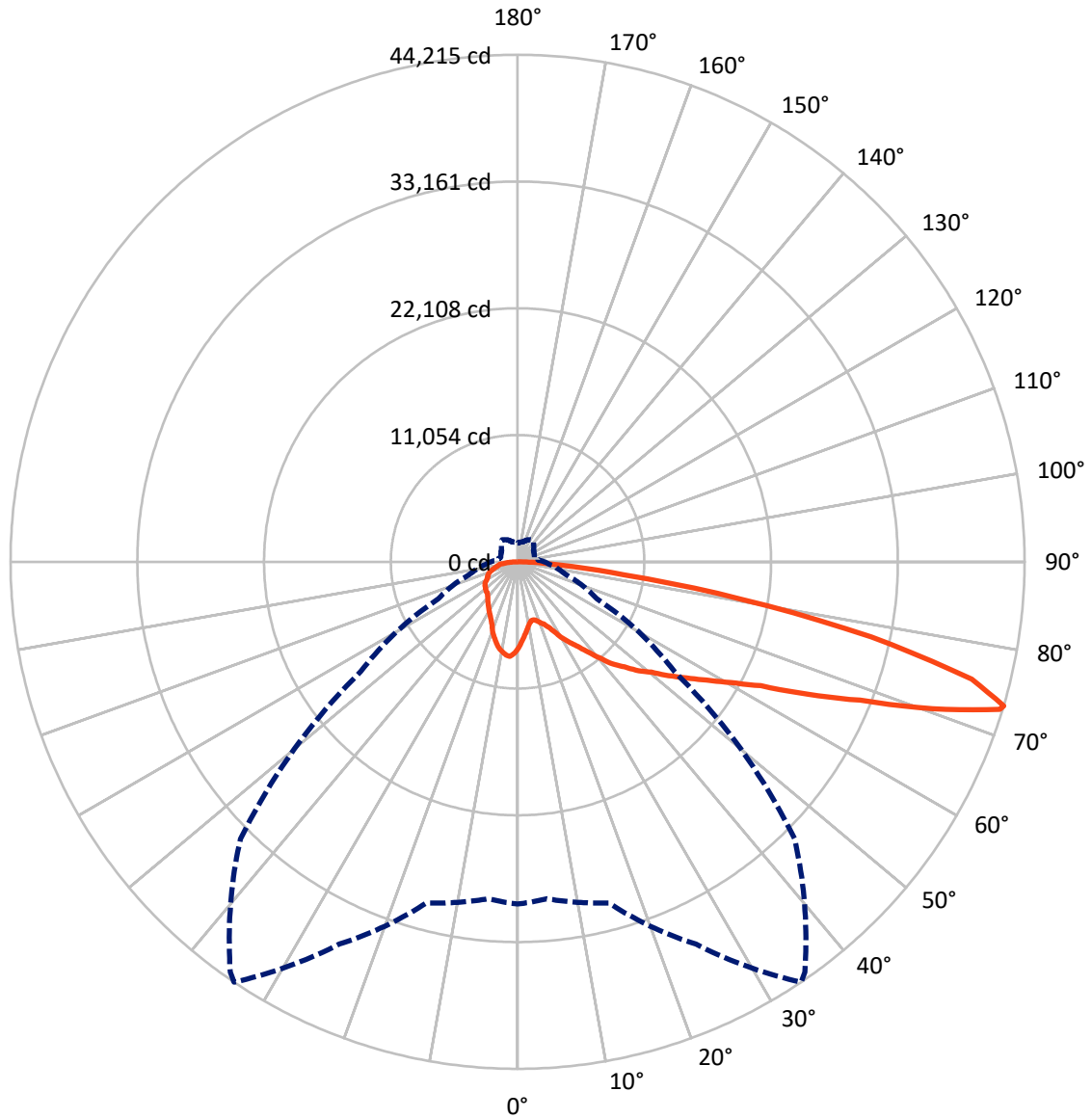
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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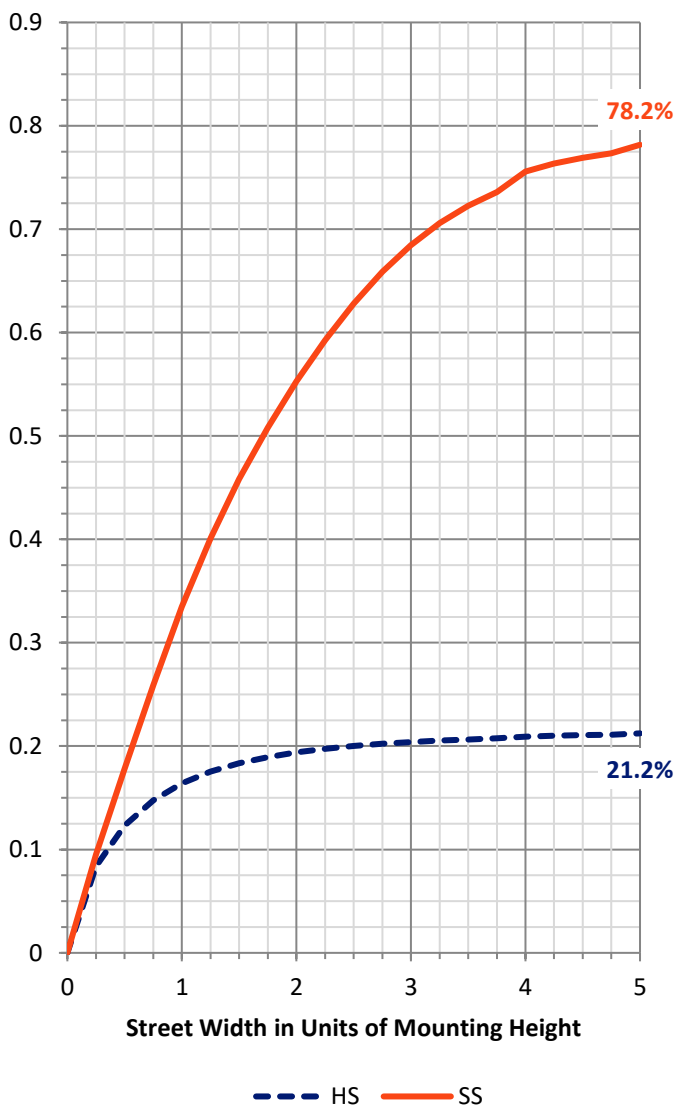
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11376.0	0.0	11376.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41287.7	0.0	41287.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	52663.7	0.0	52663.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.8	1.3
10°-20°	1950.2	3.7
20°-30°	3209.7	6.1
30°-40°	4800.1	9.1
40°-50°	7115.9	13.5
50°-60°	10254.8	19.5
60°-70°	13086.5	24.8
70°-80°	10183.5	19.3
80°-90°	1366.2	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°	52663.7	100.0
0°-180°	52663.7	100.0

Coefficient of Utilization

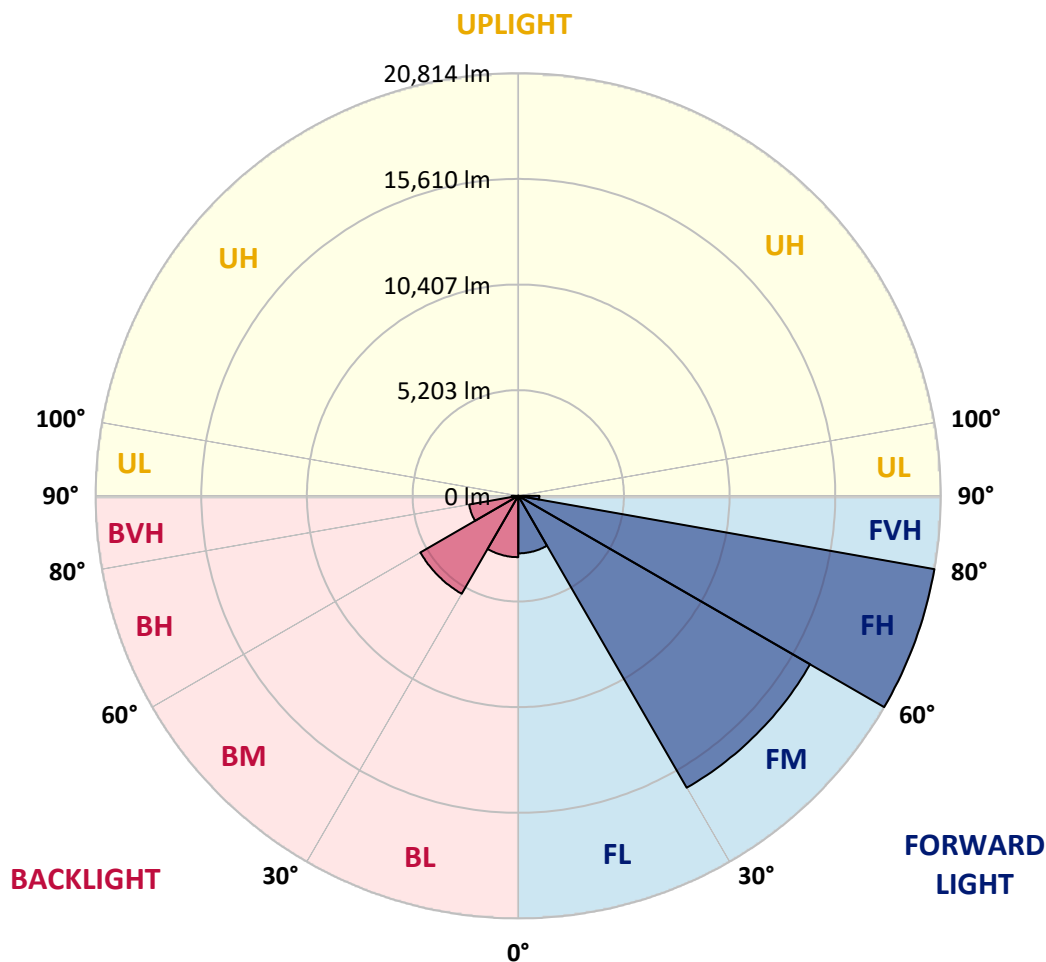


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.2	5.4			
FM (30°-60°)	16599.9	31.5			
FH (60°-80°)	20813.6	39.5			G5
FVH (80°-90°)	1039.9	2.0			G5
BL (0°-30°)	3022.5	5.7	B4/5000		
BM (30°-60°)	5570.9	10.6	B4/8500		
BH (60°-80°)	2456.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	326.3	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°	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2
2.5°	6765.1	6787.4	6859.7	6876.4	6954.4	6909.8	7004.5	7171.5	7266.2	7405.4
5°	6230.6	6135.9	6180.4	6353.0	6442.1	6464.4	6564.6	6848.6	7026.8	7232.8
7.5°	5601.4	5584.7	5673.8	5785.1	5963.3	5980.0	6202.7	6453.3	6820.8	7277.3
10°	5172.6	5245.0	5295.1	5412.1	5534.6	5534.6	5818.5	6252.8	6670.4	7110.3
12.5°	5150.4	5105.8	5117.0	5178.2	5267.3	5378.7	5645.9	6035.7	6564.6	7076.9
15°	5222.8	5239.5	5139.2	5217.2	5250.6	5289.6	5584.7	6024.5	6497.8	7193.8
17.5°	5606.9	5512.3	5356.4	5284.0	5400.9	5400.9	5601.4	5946.6	6509.0	7255.1
20°	5907.6	5907.6	5651.5	5573.5	5657.1	5640.3	5779.5	6035.7	6564.6	7377.6
22.5°	6414.3	6486.7	6063.5	5902.0	5896.5	5941.0	6063.5	6280.7	6720.5	7550.2
25°	7143.7	7160.4	6670.4	6503.4	6325.2	6397.6	6419.9	6637.0	6859.7	7750.6
27.5°	7956.6	7945.5	7494.5	7076.9	6960.0	6976.7	6854.2	6998.9	7065.7	7811.9
30°	8858.6	8758.4	8418.8	7828.6	7733.9	7628.1	7360.9	7355.3	7494.5	8157.1
32.5°	9448.8	9320.8	9086.9	8663.8	8402.1	8413.2	7990.0	7984.5	7862.0	8535.7
35°	10027.9	9833.0	9771.8	9337.5	9075.8	9103.6	8764.0	8719.4	8496.7	9109.2
37.5°	10723.9	10551.3	10646.0	10317.4	9994.5	9860.9	9705.0	9649.3	9359.8	9916.5
40°	11492.3	11436.6	11375.4	11213.9	11019.0	11030.1	10863.1	10807.4	10378.7	10890.9
42.5°	12527.9	12316.3	11999.0	12104.8	12205.0	12310.8	12255.1	12110.3	11664.9	11882.0
45°	13491.2	13212.8	12628.1	12661.6	13073.6	13157.1	13830.8	13814.1	12917.7	13140.4
47.5°	14142.6	14014.6	13663.8	13624.8	14215.0	14209.4	15423.3	15423.3	14237.3	14393.2
50°	15111.5	14777.4	14627.0	14821.9	15122.6	15328.6	17049.1	17154.9	15534.6	15701.7
52.5°	16247.3	15829.7	15451.1	15952.2	16486.7	16620.4	18658.3	18613.7	16531.3	17221.7
55°	17188.3	16976.7	16715.0	17004.6	17878.7	18045.8	20273.0	19860.9	17528.0	18480.1
57.5°	18285.2	18413.3	18468.9	18396.6	19437.8	19699.5	22116.0	20935.6	18385.4	19326.4
60°	19938.9	20016.8	20089.2	20261.8	21364.3	21731.8	23574.8	22283.0	18925.5	19816.4
62.5°	22455.6	22154.9	22316.4	22912.2	23797.5	24215.1	25724.0	23229.6	19337.5	20111.5
65°	25334.2	24927.8	24760.7	25529.1	27823.1	27489.0	28407.8	23936.7	18741.8	19009.0
67.5°	28251.9	28296.4	27867.7	29410.0	32221.8	32221.8	30902.2	24276.3	17127.1	15406.6
70°	30568.1	30707.3	30941.2	33931.2	38385.6	39059.3	33992.4	22884.3	13836.4	10256.2
72.5°	30534.7	30117.1	31314.2	36821.0	43986.9	43424.6	34638.3	18095.9	8635.9	5022.3
73°	29849.9	29499.1	30807.6	36793.1	44215.2	43686.3	34165.0	16681.6	7617.0	4354.1
75°	24376.6	23741.8	25969.0	33324.3	40907.8	41314.3	29025.8	10879.8	4176.0	2683.8
77.5°	11113.7	11392.1	14293.0	22355.4	31525.8	32004.7	19081.4	4704.9	2288.4	1882.0
80°	3569.1	3747.2	5562.4	11113.7	19760.7	20623.7	8819.7	2138.1	1631.4	1442.1
82.5°	1364.2	1358.6	2333.0	4621.4	9365.3	9916.5	3223.9	1302.9	1213.8	1063.5
85°	478.8	501.1	879.7	1826.3	3686.0	3858.6	1119.2	723.8	840.8	712.7
87.5°	167.0	172.6	311.8	662.6	1269.5	1341.9	311.8	289.5	417.6	412.0
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°
7550.2	0°	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2	7550.2
7572.4	2.5°	7628.1	7678.2	7694.9	7895.4	7895.4	7895.4	7973.3	7973.3	7951.1	7895.4
7544.6	5°	7661.5	7750.6	7923.2	8095.8	8140.4	8179.3	8285.1	8196.0	8229.5	8173.8
7644.8	7.5°	7756.2	7878.7	8201.6	8307.4	8235.0	8318.5	8207.2	8145.9	8084.7	8107.0
7667.1	10°	7917.6	8073.6	8223.9	8418.8	8279.6	8196.0	7967.8	7912.1	7717.2	7650.4
7761.7	12.5°	8118.1	8307.4	8563.5	8491.1	8223.9	7984.5	7739.5	7505.6	7388.7	7221.7
7923.2	15°	8318.5	8535.7	8574.7	8452.2	8118.1	7817.4	7372.0	7043.5	6926.5	6776.2
8157.1	17.5°	8535.7	8741.7	8674.9	8357.5	7906.5	7449.9	6943.3	6620.3	6375.3	6280.7
8418.8	20°	8858.6	8958.9	8853.1	8201.6	7650.4	7049.0	6559.1	6191.6	5946.6	5907.6
8669.3	22.5°	9109.2	9270.7	8797.4	7973.3	7277.3	6525.7	5963.3	5824.1	5751.7	5690.5
8953.3	25°	9432.1	9426.6	8697.2	7761.7	6637.0	5902.0	5562.4	5551.3	5517.9	5495.6
9359.8	27.5°	9738.4	9610.3	8580.2	7238.4	5974.4	5428.8	5245.0	5367.5	5417.6	5384.2
9922.1	30°	10222.8	10011.2	8413.2	6681.6	5389.8	4949.9	4983.3	5150.4	5233.9	5284.0
10412.1	32.5°	10735.0	10412.1	8068.0	6102.5	4872.0	4649.3	4727.2	4899.8	5000.0	5055.7
11219.5	35°	11475.6	10723.9	7717.2	5345.2	4498.9	4465.5	4510.1	4604.7	4749.5	4788.5
12321.9	37.5°	12388.7	11197.2	7243.9	4738.3	4209.4	4248.4	4292.9	4326.3	4331.9	4404.3
13379.8	40°	13301.9	11598.1	6553.5	4159.3	3908.7	4120.3	4098.0	4036.8	3986.7	3919.8
14560.2	42.5°	14103.7	11948.9	5785.1	3669.3	3641.4	3986.7	3914.3	3758.4	3641.4	3591.3
15902.1	45°	15005.7	12444.4	5011.2	3363.1	3435.4	3825.2	3802.9	3563.5	3413.2	3235.0
17344.2	47.5°	16174.9	12962.2	4270.6	3045.7	3240.6	3763.9	3775.1	3468.8	3251.7	3012.3
19231.8	50°	17672.7	13708.3	3708.3	2912.0	3123.6	3674.9	3691.6	3340.8	3056.8	2811.8
21442.2	52.5°	19109.3	14471.1	3240.6	2706.0	3045.7	3569.1	3608.0	3223.9	2895.3	2589.1
22505.7	55°	19833.1	14192.7	2839.7	2555.7	2867.5	3396.5	3541.2	3140.3	2650.4	2438.8
23129.3	57.5°	19994.6	13507.9	2522.3	2399.8	2717.2	3212.7	3429.9	2889.8	2539.0	2360.8
23179.4	60°	19465.6	12310.8	2271.7	2232.8	2527.9	3023.4	3173.7	2756.1	2427.6	2282.9
21542.5	62.5°	18162.7	11069.1	2099.1	2154.8	2366.4	2817.4	3012.3	2661.5	2321.8	2221.6
18268.5	65°	14894.3	9103.6	1959.9	2004.5	2199.3	2616.9	2912.0	2555.7	2227.2	2132.5
12811.9	67.5°	10317.4	6275.1	1848.6	1932.1	2065.7	2472.2	2811.8	2438.8	2104.7	2071.3
7004.5	70°	5284.0	3346.3	1703.8	1770.6	1920.9	2288.4	2633.6	2316.3	1976.6	1971.1
3212.7	72.5°	2678.2	1959.9	1536.8	1637.0	1742.8	2049.0	2410.9	2154.8	1815.2	1753.9
2856.4	73°	2316.3	1815.2	1508.9	1598.0	1698.2	1982.2	2344.1	2115.8	1792.9	1703.8
2010.0	75°	1687.1	1431.0	1353.0	1442.1	1520.1	1787.3	2121.4	1937.7	1648.1	1553.5
1481.1	77.5°	1263.9	1102.5	1124.7	1225.0	1291.8	1542.3	1887.5	1753.9	1492.2	1364.2
1108.0	80°	929.9	840.8	929.9	1024.5	1074.6	1358.6	1720.5	1520.1	1258.4	1113.6
785.1	82.5°	662.6	612.5	718.3	779.5	801.8	1124.7	1547.9	1213.8	952.1	762.8
451.0	85°	378.6	373.1	484.4	478.8	495.5	657.0	1018.9	807.4	612.5	467.7
228.3	87.5°	167.0	183.7	245.0	194.9	206.0	311.8	434.3	300.7	250.6	139.2
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°
7550.2
8029.0
8223.9
8029.0
7711.6
7266.2
6854.2
6280.7
5846.4
5612.5
5601.4
5428.8
5217.2
5117.0
4805.2
4376.4
3903.1
3507.8
3212.7
2978.9
2789.6
2605.8
2433.2
2338.5
2249.5
2149.2
2127.0
2026.7
1915.4
1664.8
1620.3
1475.5
1330.7
1085.8
701.6
456.6
105.8
0.0

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