

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: P574706

Luminaire Tested: **EPH-VN-08-750-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574706
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

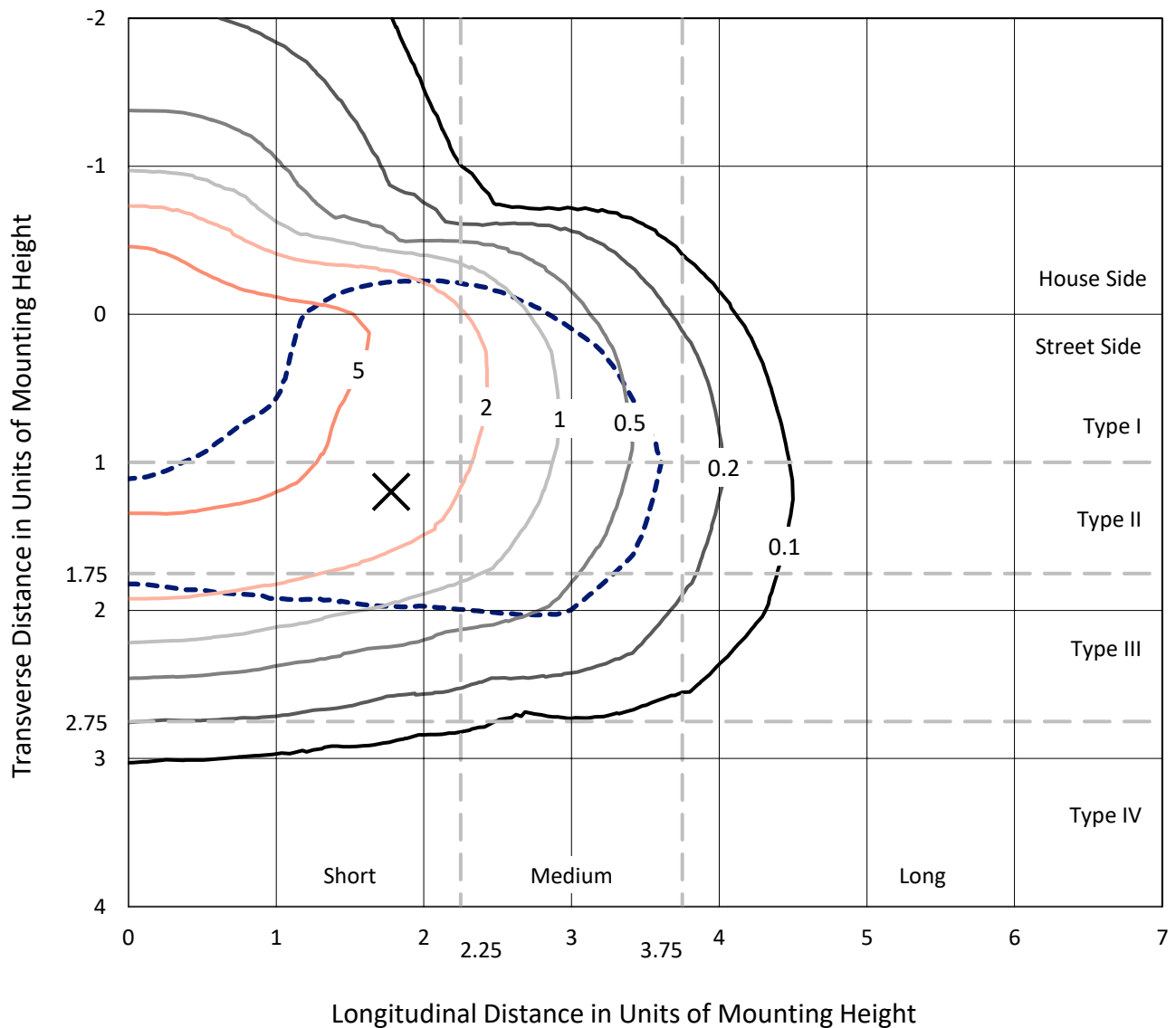
Lumens per Lamp: N/A
Luminaire Lumens: 58080.4 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

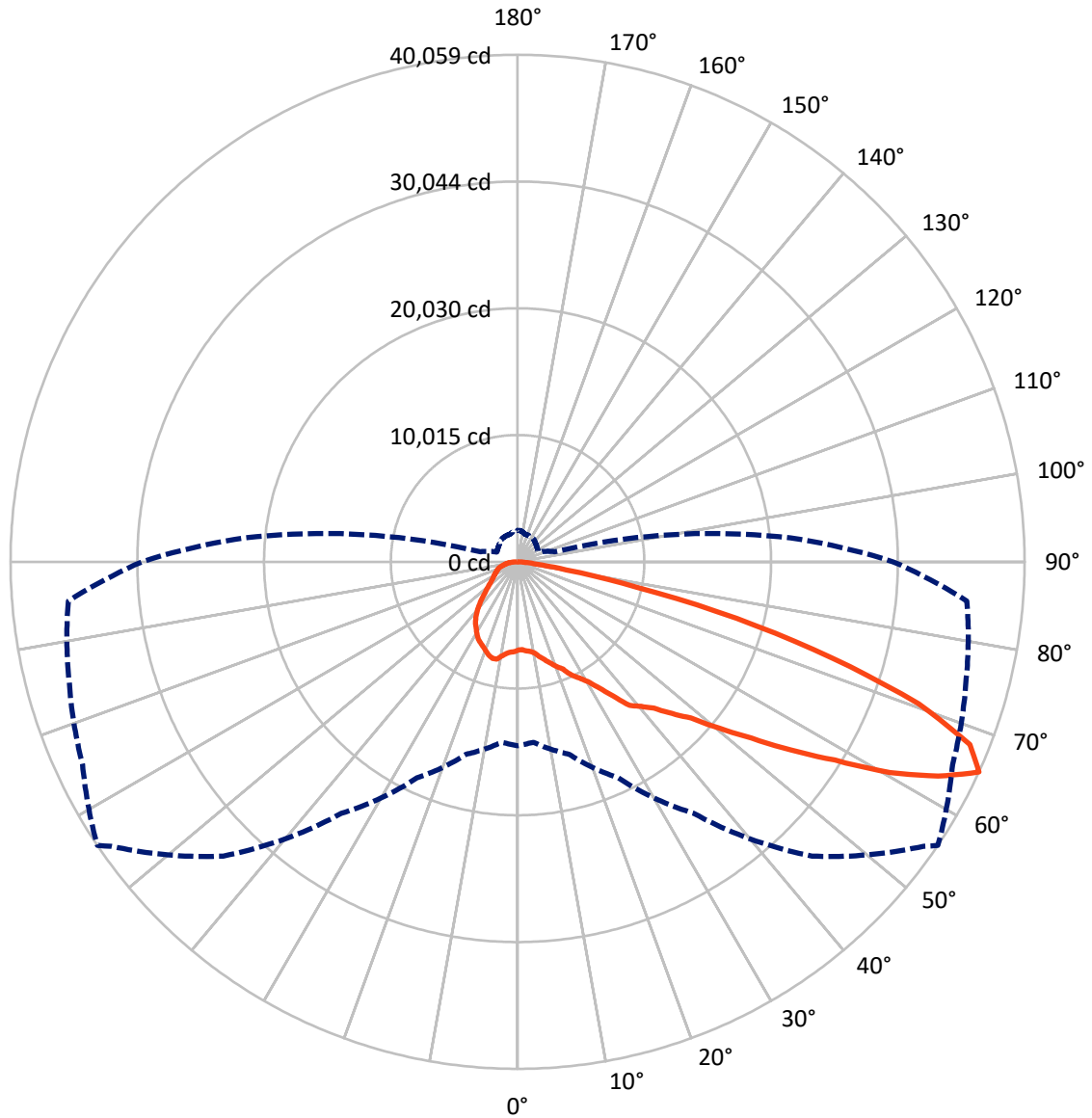
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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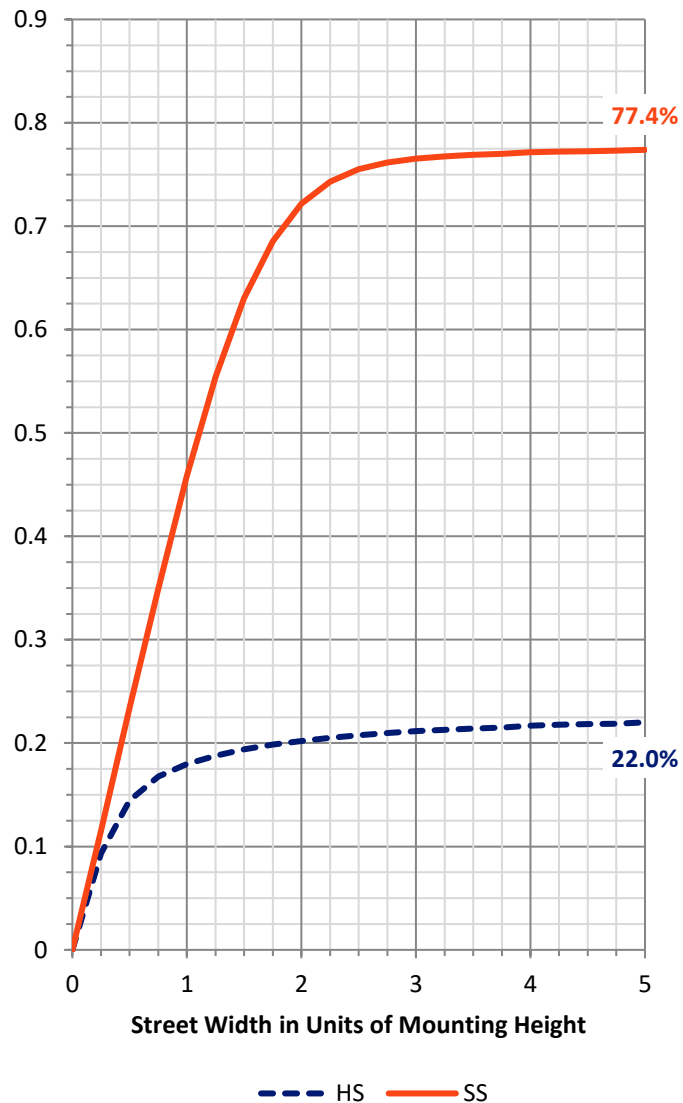
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13025.5	0.0	13025.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	45054.8	0.0	45054.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	58080.4	0.0	58080.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.8	1.2
10°-20°	2243.2	3.9
20°-30°	3994.2	6.9
30°-40°	5981.2	10.3
40°-50°	8861.9	15.3
50°-60°	13654.9	23.5
60°-70°	15459.1	26.6
70°-80°	6415.7	11.0
80°-90°	779.4	1.3
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°	58080.4	100.0
0°-180°	58080.4	100.0

Coefficient of Utilization

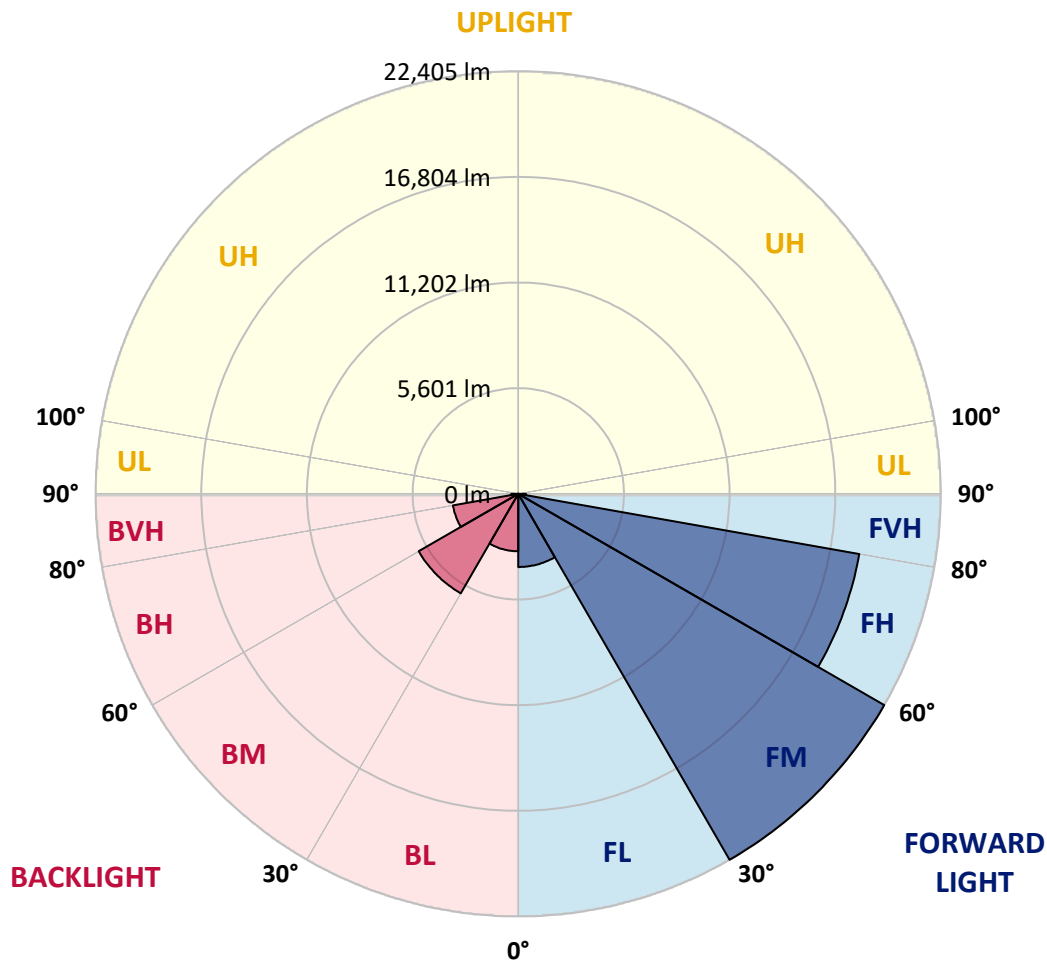


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3881.5	6.7			
FM (30°-60°)	22404.9	38.6			
FH (60°-80°)	18357.4	31.6			G5
FVH (80°-90°)	411.1	0.7			G3/500
BL (0°-30°)	3046.8	5.2	B4/5000		
BM (30°-60°)	6093.1	10.5	B4/8500		
BH (60°-80°)	3517.3	6.1	B4/5000		G4/5000
BVH (80°-90°)	368.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3
2.5°	6789.0	6825.4	6801.1	6874.1	6934.8	6934.8	6983.5	6947.0	6995.6	7062.5
5°	7013.8	6868.0	6947.0	6983.5	6965.2	6995.6	6947.0	7068.5	6989.5	7117.2
7.5°	7068.5	7123.2	7190.1	7129.3	7184.0	7153.6	7159.7	7141.5	7098.9	7202.3
10°	7469.7	7390.7	7542.6	7451.5	7439.3	7427.1	7402.8	7311.7	7415.0	7421.1
12.5°	7931.6	7858.7	7852.6	7779.7	7876.9	7700.6	7737.1	7688.5	7706.7	7731.0
15°	8265.9	8235.5	8375.3	8290.2	8162.6	8083.6	8168.6	8034.9	8101.8	8089.6
17.5°	8928.4	8922.3	8819.0	8679.2	8606.2	8490.8	8472.5	8417.8	8466.5	8442.1
20°	9390.3	9457.1	9475.4	9311.3	9031.7	8904.1	8873.7	8831.1	8885.8	8867.6
22.5°	10095.3	9992.0	10071.0	9785.4	9682.0	9378.1	9268.7	9208.0	9469.3	9402.4
25°	10545.1	10654.5	10575.5	10478.2	10247.3	9870.4	9791.4	9925.1	10028.5	9955.5
27.5°	11560.1	11450.7	11377.8	11086.0	10934.1	10539.0	10447.8	10399.2	10423.5	10466.1
30°	12332.0	12392.8	12228.7	12022.0	11639.1	11238.0	11025.2	10982.7	10897.6	10824.7
32.5°	13432.1	13340.9	13243.7	13109.9	12781.7	12253.0	12046.3	11888.3	11633.0	11292.7
35°	13960.8	14222.2	14149.3	13790.7	13541.5	13340.9	13280.1	13037.0	12824.3	12289.4
37.5°	14842.1	14951.5	14848.2	14732.7	14617.2	14404.5	14331.6	14398.4	13979.1	13097.8
40°	15413.4	15644.4	15857.1	15535.0	15510.7	15553.2	15103.5	15024.5	14161.4	13699.5
42.5°	16580.4	16677.6	16720.2	16708.0	16847.8	16847.8	15990.8	15820.7	15206.8	14830.0
45°	18124.2	18203.2	18355.1	18464.5	18306.5	18385.5	17163.9	17097.0	16550.0	16477.1
47.5°	19461.3	19649.7	19990.1	20312.2	20518.8	20251.4	18914.3	18440.2	18300.4	18738.0
50°	20628.3	20403.4	21199.6	21527.8	22433.4	22877.1	20847.1	20658.6	20433.8	21272.5
52.5°	20743.7	21047.6	22172.0	22828.4	24694.3	25514.8	23217.4	23138.4	22864.9	23831.3
55°	21570.3	21533.9	22664.3	24086.6	26305.0	27684.6	26305.0	26256.3	25660.7	26578.5
57.5°	21430.5	21801.3	22694.7	24682.2	27757.6	30012.5	29884.8	29550.5	28717.9	29465.5
60°	20956.5	21053.7	22141.6	24663.9	28602.4	32401.1	33750.3	33817.2	32115.4	32711.0
62.5°	18270.0	18494.9	19874.6	22725.1	28000.7	34048.2	37524.7	37287.7	35926.2	35245.5
65°	14532.2	14307.3	15741.7	18823.1	24256.7	32881.2	39177.9	40059.2	37919.8	36673.8
67.5°	8910.1	8855.4	10235.1	12951.9	18148.5	27982.5	37859.0	38545.8	37366.7	36369.9
70°	4588.8	4449.0	5312.0	7226.6	11408.1	20531.0	32948.1	33622.7	34747.1	32619.9
72.5°	2139.4	2109.0	2570.9	3555.5	5810.4	12070.6	25514.8	26001.1	28371.4	27502.3
75°	1258.1	1276.4	1537.7	1859.8	2832.3	5688.9	16932.9	17875.0	20445.9	19819.9
77.5°	942.1	942.1	1094.0	1294.6	1653.2	2200.2	8357.1	9603.0	11955.1	10751.7
80°	692.9	705.0	838.7	972.5	1148.7	1136.6	3318.5	3889.8	5482.2	4686.0
82.5°	540.9	559.2	650.3	723.3	808.4	686.8	1361.4	1464.8	2254.9	1793.0
85°	376.8	389.0	510.5	492.3	492.3	382.9	565.2	595.6	893.4	850.9
87.5°	91.2	103.3	249.2	273.5	206.6	115.5	176.3	200.6	322.1	370.7
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°
6971.3	0°	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3	6971.3
7092.9	2.5°	7001.7	7026.0	7129.3	7074.6	7105.0	6977.4	7080.7	6995.6	7068.5	7032.1
7147.6	5°	7196.2	7141.5	7202.3	7159.7	7159.7	7208.3	7281.3	7226.6	7336.0	7287.4
7190.1	7.5°	7275.2	7281.3	7317.7	7323.8	7293.4	7445.4	7451.5	7433.2	7536.5	7512.2
7481.8	10°	7469.7	7475.8	7542.6	7579.1	7548.7	7603.4	7542.6	7494.0	7487.9	7463.6
7712.8	12.5°	7779.7	7840.4	7828.3	7858.7	7864.7	7633.8	7494.0	7257.0	7226.6	7257.0
8053.2	15°	8065.3	8041.0	8053.2	8113.9	7858.7	7487.9	7238.7	7038.2	7050.3	7056.4
8496.8	17.5°	8405.7	8423.9	8442.1	8162.6	7694.6	7257.0	7038.2	7038.2	6977.4	7001.7
8806.8	20°	8794.7	8721.7	8563.7	8168.6	7408.9	6989.5	6922.7	6922.7	6849.7	6801.1
9141.1	22.5°	9098.6	8952.7	8715.6	7980.2	7153.6	6886.2	6722.1	6606.6	6521.5	6424.3
9511.8	25°	9293.0	9214.0	8752.1	7785.7	6965.2	6612.7	6369.6	6193.3	6083.9	5956.3
9803.6	27.5°	9590.9	9438.9	8855.4	7560.9	6758.6	6339.2	5962.4	5688.9	5482.2	5348.5
10247.3	30°	9992.0	9773.2	8782.5	7238.7	6442.5	5865.1	5421.4	5068.9	4831.9	4722.5
10666.6	32.5°	10320.2	10034.5	8721.7	6947.0	6090.0	5385.0	4795.4	4436.8	4303.1	4163.3
11371.7	35°	10946.2	10381.0	8679.2	6782.9	5774.0	4904.8	4284.9	3974.9	3804.7	3598.1
11791.0	37.5°	11426.4	10982.7	8575.9	6442.5	5366.7	4436.8	3895.9	3616.3	3361.1	3142.3
12763.5	40°	12180.0	11821.4	8581.9	5962.4	4886.6	4035.7	3592.0	3300.3	2978.2	2789.7
14204.0	42.5°	13596.2	12648.0	8618.4	5579.5	4345.7	3707.5	3318.5	2972.1	2649.9	2491.9
15845.0	45°	15334.4	13784.6	8393.5	5233.0	3792.6	3397.5	2990.3	2643.9	2437.2	2321.7
18075.6	47.5°	17334.1	14896.8	8089.6	4582.7	3330.7	3069.3	2686.4	2485.8	2333.9	2267.0
20950.4	50°	19570.7	16489.2	8004.5	3987.1	2972.1	2789.7	2540.5	2388.6	2285.3	2206.3
24189.9	52.5°	22451.6	18343.0	7834.4	3373.2	2662.1	2564.9	2485.8	2382.5	2291.4	2224.5
27210.6	55°	25204.9	20397.3	7652.0	2868.7	2443.3	2455.5	2498.0	2406.8	2327.8	2224.5
30595.9	57.5°	28304.6	22494.2	6977.4	2498.0	2279.2	2400.8	2485.8	2382.5	2303.5	2224.5
34060.3	60°	30219.1	23673.3	5658.5	2175.9	2133.3	2297.4	2412.9	2303.5	2218.4	2248.8
35652.7	62.5°	30997.1	23053.3	4266.7	1975.3	2030.0	2157.6	2297.4	2254.9	2194.1	2309.6
35634.5	65°	29672.1	21625.0	3051.1	1805.1	1890.2	2017.8	2194.1	2242.7	2261.0	2485.8
32729.3	67.5°	26402.2	18829.2	2242.7	1665.3	1744.3	1932.8	2267.0	2346.1	2333.9	2613.5
27465.8	70°	21126.6	14726.7	1750.4	1549.9	1689.6	1999.6	2370.4	2370.4	2285.3	2613.5
20950.4	72.5°	15370.9	10381.0	1507.3	1416.1	1549.9	1835.5	2358.2	2352.1	2242.7	2388.6
13340.9	75°	9305.2	6041.4	1331.1	1282.4	1331.1	1574.2	2254.9	2218.4	2066.5	2054.3
6418.2	77.5°	4637.4	3038.9	1087.9	1136.6	1160.9	1318.9	1981.4	2036.1	1829.4	1780.8
2534.5	80°	1957.1	1325.0	905.6	978.5	978.5	1112.2	1647.1	1683.6	1519.5	1428.3
1002.8	82.5°	893.4	759.7	771.9	850.9	796.2	863.1	1306.7	1349.3	1233.8	1081.9
425.5	85°	376.8	431.5	589.6	668.6	589.6	559.2	899.5	948.1	802.3	668.6
182.3	87.5°	170.2	237.0	370.7	486.2	297.8	261.3	480.2	498.4	401.1	297.8
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°
6971.3
6965.2
7220.5
7475.8
7463.6
7269.1
7141.5
7007.8
6728.2
6369.6
5980.6
5409.3
4783.3
4157.3
3579.9
3148.3
2808.0
2504.1
2346.1
2254.9
2218.4
2218.4
2218.4
2218.4
2224.5
2279.2
2485.8
2631.7
2558.8
2303.5
2030.0
1750.4
1397.9
1057.5
674.6
279.6
0.0

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