

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: P574791

Luminaire Tested: **EPH-VN-07-760-U-T4FT**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574791  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-760-U-T4FT  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

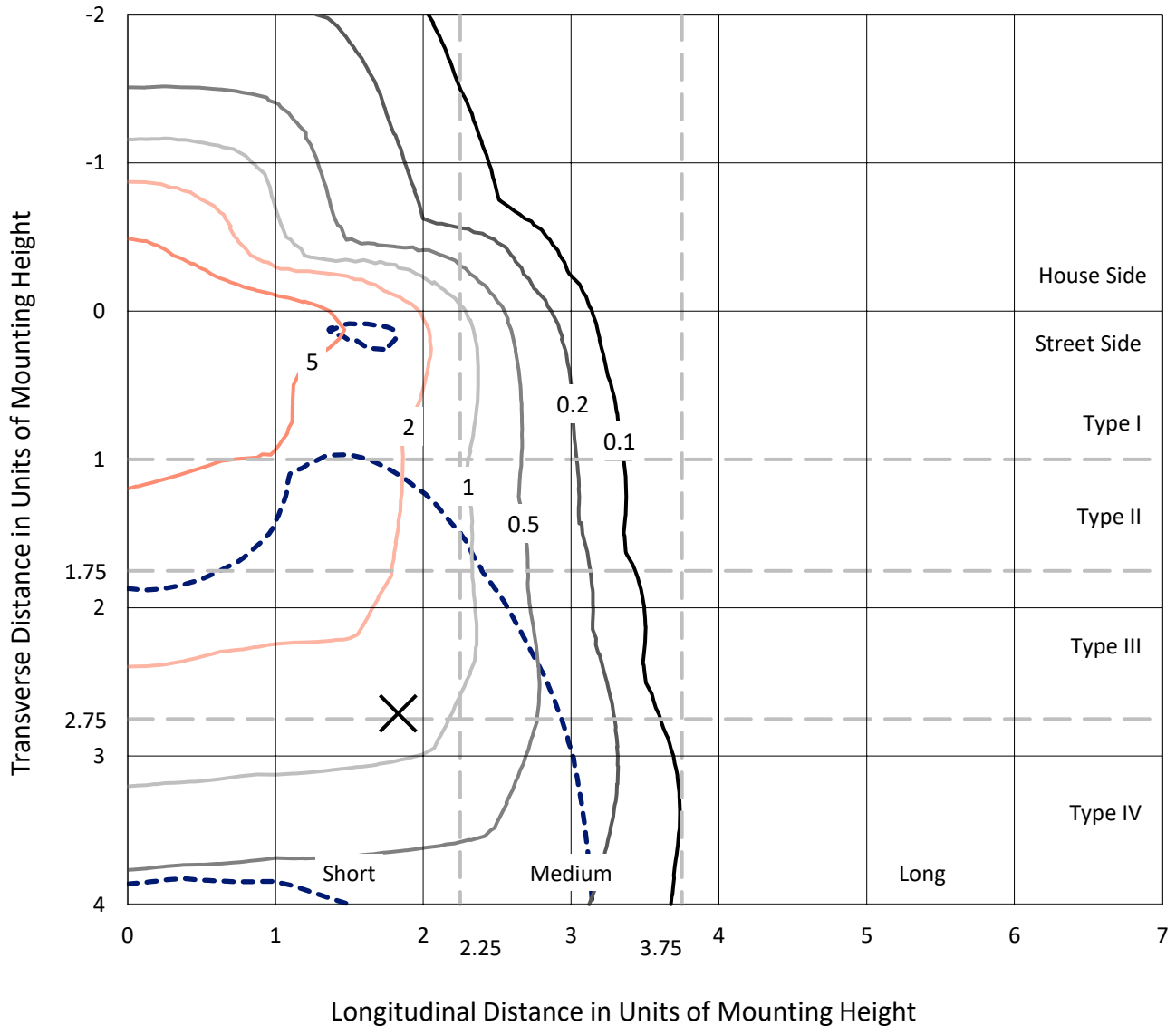
Lumens per Lamp: N/A  
Luminaire Lumens: 59158.4 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

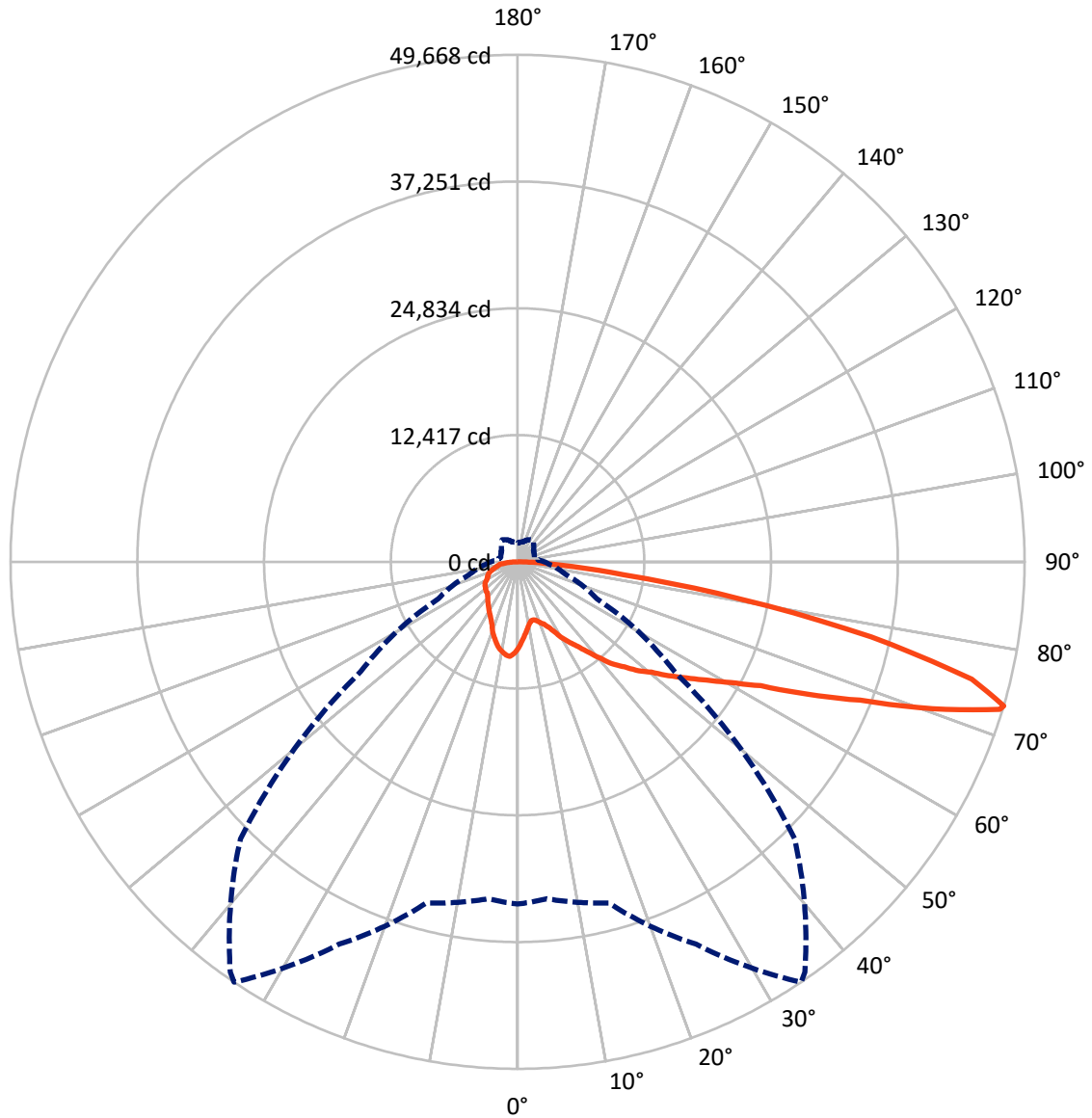
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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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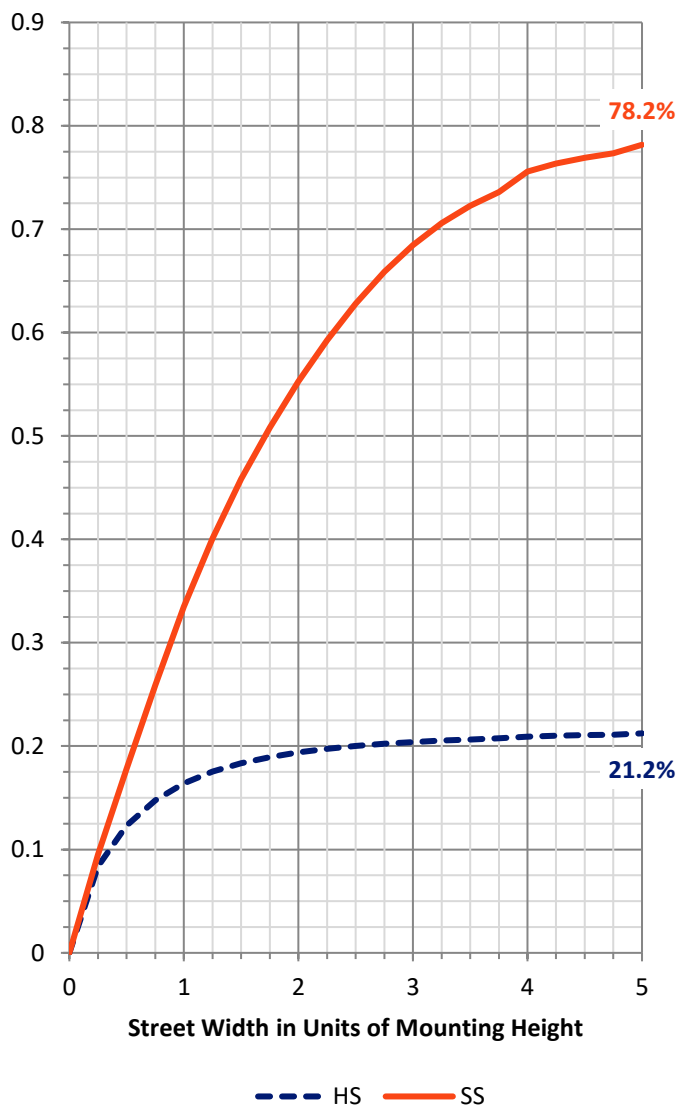
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12778.9	0.0	12778.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	46379.5	0.0	46379.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	59158.4	0.0	59158.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	782.8	1.3
10°-20°	2190.7	3.7
20°-30°	3605.5	6.1
30°-40°	5392.0	9.1
40°-50°	7993.5	13.5
50°-60°	11519.5	19.5
60°-70°	14700.4	24.8
70°-80°	11439.3	19.3
80°-90°	1534.7	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°	59158.4	100.0
0°-180°	59158.4	100.0

**Coefficient of Utilization**

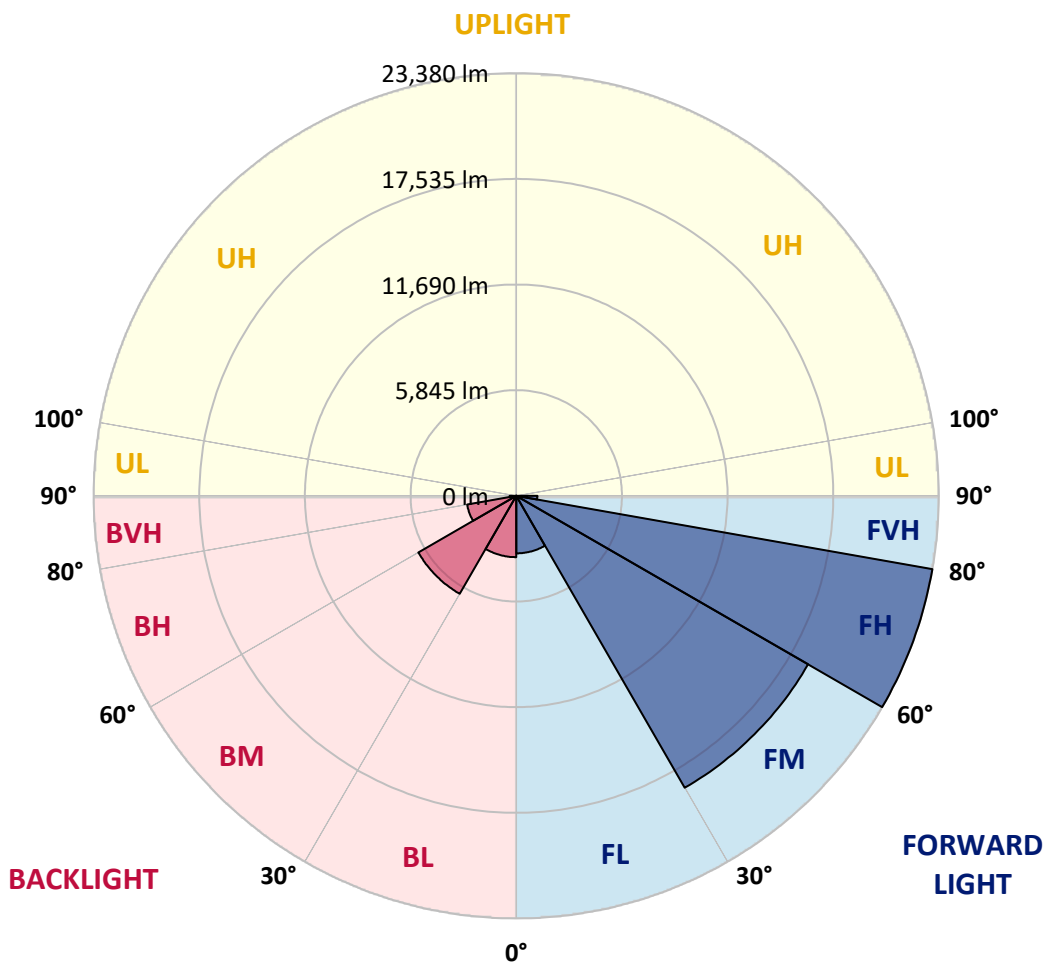


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3183.7	5.4			
FM (30°-60°)	18647.1	31.5			
FH (60°-80°)	23380.5	39.5			G5
FVH (80°-90°)	1168.1	2.0			G5
BL (0°-30°)	3395.3	5.7	B4/5000		
BM (30°-60°)	6257.9	10.6	B4/8500		
BH (60°-80°)	2759.3	4.7	B4/5000		G4/5000
BVH (80°-90°)	366.5	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°	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3
2.5°	7599.4	7624.4	7705.7	7724.5	7812.0	7762.0	7868.3	8056.0	8162.3	8318.7
5°	6998.9	6892.6	6942.6	7136.5	7236.6	7261.6	7374.2	7693.2	7893.4	8124.8
7.5°	6292.2	6273.4	6373.5	6498.6	6698.7	6717.5	6967.7	7249.1	7661.9	8174.8
10°	5810.6	5891.9	5948.2	6079.5	6217.1	6217.1	6536.1	7024.0	7493.1	7987.2
12.5°	5785.5	5735.5	5748.0	5816.8	5916.9	6042.0	6342.2	6780.0	7374.2	7949.6
15°	5866.8	5885.6	5773.0	5860.6	5898.1	5941.9	6273.4	6767.5	7299.2	8081.0
17.5°	6298.4	6192.1	6017.0	5935.7	6067.0	6067.0	6292.2	6680.0	7311.7	8149.8
20°	6636.2	6636.2	6348.5	6260.9	6354.7	6335.9	6492.3	6780.0	7374.2	8287.4
22.5°	7205.3	7286.7	6811.3	6629.9	6623.7	6673.7	6811.3	7055.2	7549.3	8481.3
25°	8024.7	8043.5	7493.1	7305.4	7105.3	7186.6	7211.6	7455.5	7705.7	8706.5
27.5°	8937.9	8925.4	8418.7	7949.6	7818.3	7837.1	7699.5	7862.1	7937.1	8775.3
30°	9951.1	9838.5	9457.0	8794.0	8687.7	8568.9	8268.6	8262.4	8418.7	9163.0
32.5°	10614.1	10470.3	10207.6	9732.2	9438.2	9450.8	8975.4	8969.1	8831.5	9588.4
35°	11264.6	11045.7	10976.9	10489.0	10195.1	10226.3	9844.8	9794.8	9544.6	10232.6
37.5°	12046.4	11852.5	11958.9	11589.8	11227.1	11077.0	10901.8	10839.3	10514.0	11139.5
40°	12909.6	12847.0	12778.2	12596.8	12377.9	12390.4	12202.8	12140.2	11658.6	12234.1
42.5°	14072.9	13835.3	13478.7	13597.6	13710.2	13829.0	13766.5	13603.8	13103.5	13347.4
45°	15155.0	14842.3	14185.5	14223.0	14685.9	14779.7	15536.5	15517.8	14510.8	14760.9
47.5°	15886.8	15742.9	15348.9	15305.1	15968.1	15961.8	17325.3	17325.3	15993.1	16168.2
50°	16975.1	16599.8	16430.9	16649.8	16987.6	17219.0	19151.7	19270.5	17450.4	17638.1
52.5°	18251.0	17781.9	17356.6	17919.5	18520.0	18670.1	20959.3	20909.3	18570.0	19345.6
55°	19308.1	19070.4	18776.4	19101.7	20083.6	20271.3	22773.1	22310.3	19689.6	20759.1
57.5°	20540.2	20684.1	20746.6	20665.3	21834.9	22128.9	24843.4	23517.4	20652.8	21709.8
60°	22397.9	22485.4	22566.7	22760.6	23999.0	24411.8	26482.1	25031.1	21259.5	22260.3
62.5°	25224.9	24887.2	25068.6	25737.8	26732.3	27201.4	28896.4	26094.3	21722.4	22591.7
65°	28458.6	28002.0	27814.4	28677.5	31254.4	30879.1	31911.2	26888.7	21053.1	21353.3
67.5°	31736.0	31786.1	31304.5	33037.0	36195.6	36195.6	34713.2	27270.2	19239.3	17306.6
70°	34338.0	34494.3	34757.0	38115.8	43119.5	43876.3	38184.6	25706.6	15542.8	11521.0
72.5°	34300.4	33831.3	35176.1	41361.9	49411.6	48779.9	38910.1	20327.6	9700.9	5641.7
73°	33531.1	33137.1	34606.9	41330.6	49668.1	49073.9	38378.5	18738.9	8556.3	4891.1
75°	27382.8	26669.8	29171.6	37434.0	45952.8	46409.4	32605.4	12221.6	4691.0	3014.7
77.5°	12484.3	12797.0	16055.7	25112.4	35413.8	35951.7	21434.6	5285.2	2570.7	2114.1
80°	4009.2	4209.4	6248.4	12484.3	22197.7	23167.2	9907.3	2401.8	1832.6	1620.0
82.5°	1532.4	1526.1	2620.7	5191.3	10520.3	11139.5	3621.4	1463.6	1363.5	1194.6
85°	537.9	562.9	988.2	2051.5	4140.6	4334.5	1257.2	813.1	944.5	800.6
87.5°	187.6	193.9	350.3	744.3	1426.1	1507.4	350.3	325.2	469.1	462.8
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°
8481.3	0°	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3	8481.3
8506.3	2.5°	8568.9	8625.1	8643.9	8869.1	8869.1	8869.1	8956.6	8956.6	8931.6	8869.1
8475.0	5°	8606.4	8706.5	8900.3	9094.2	9144.3	9188.1	9306.9	9206.8	9244.4	9181.8
8587.6	7.5°	8712.7	8850.3	9213.1	9331.9	9250.6	9344.4	9219.3	9150.5	9081.7	9106.8
8612.6	10°	8894.1	9069.2	9238.1	9457.0	9300.6	9206.8	8950.4	8887.8	8668.9	8593.9
8719.0	12.5°	9119.3	9331.9	9619.6	9538.3	9238.1	8969.1	8693.9	8431.3	8299.9	8112.3
8900.3	15°	9344.4	9588.4	9632.1	9494.5	9119.3	8781.5	8281.1	7912.1	7780.8	7611.9
9163.0	17.5°	9588.4	9819.8	9744.7	9388.2	8881.6	8368.7	7799.5	7436.8	7161.6	7055.2
9457.0	20°	9951.1	10063.7	9944.9	9213.1	8593.9	7918.4	7368.0	6955.2	6680.0	6636.2
9738.5	22.5°	10232.6	10414.0	9882.3	8956.6	8174.8	7330.4	6698.7	6542.3	6461.0	6392.2
10057.5	25°	10595.4	10589.1	9769.7	8719.0	7455.5	6629.9	6248.4	6235.9	6198.3	6173.3
10514.0	27.5°	10939.4	10795.5	9638.4	8131.0	6711.2	6098.3	5891.9	6029.5	6085.8	6048.2
11145.8	30°	11483.5	11245.8	9450.8	7505.6	6054.5	5560.4	5597.9	5785.5	5879.4	5935.7
11696.2	32.5°	12058.9	11696.2	9063.0	6855.1	5472.8	5222.6	5310.2	5504.1	5616.7	5679.2
12603.1	35°	12890.8	12046.4	8668.9	6004.5	5053.7	5016.2	5066.3	5172.6	5335.2	5379.0
13841.5	37.5°	13916.6	12578.1	8137.3	5322.7	4728.5	4772.3	4822.3	4859.9	4866.1	4947.4
15029.9	40°	14942.3	13028.4	7361.7	4672.2	4390.8	4628.4	4603.4	4534.6	4478.3	4403.3
16355.9	42.5°	15843.0	13422.5	6498.6	4121.8	4090.5	4478.3	4397.0	4221.9	4090.5	4034.2
17863.2	45°	16856.2	13979.1	5629.2	3777.8	3859.1	4296.9	4271.9	4003.0	3834.1	3633.9
19483.2	47.5°	18169.7	14560.8	4797.3	3421.3	3640.2	4228.1	4240.6	3896.6	3652.7	3383.8
21603.5	50°	19852.2	15398.9	4165.6	3271.2	3508.9	4128.1	4146.8	3752.8	3433.8	3158.6
24086.6	52.5°	21465.9	16255.8	3640.2	3039.8	3421.3	4009.2	4053.0	3621.4	3252.4	2908.4
25281.2	55°	22279.0	15943.1	3189.9	2870.9	3221.1	3815.3	3977.9	3527.6	2977.2	2739.5
25981.8	57.5°	22460.4	15173.7	2833.4	2695.7	3052.3	3608.9	3852.9	3246.2	2852.1	2652.0
26038.1	60°	21866.2	13829.0	2551.9	2508.1	2839.6	3396.3	3565.1	3096.0	2727.0	2564.4
24199.2	62.5°	20402.6	12434.2	2358.0	2420.5	2658.2	3164.8	3383.8	2989.7	2608.2	2495.6
20521.5	65°	16731.2	10226.3	2201.6	2251.7	2470.6	2939.7	3271.2	2870.9	2501.9	2395.5
14391.9	67.5°	11589.8	7049.0	2076.5	2170.4	2320.5	2777.1	3158.6	2739.5	2364.3	2326.7
7868.3	70°	5935.7	3759.0	1913.9	1989.0	2157.8	2570.7	2958.4	2601.9	2220.4	2214.1
3608.9	72.5°	3008.5	2201.6	1726.3	1838.9	1957.7	2301.7	2708.3	2420.5	2039.0	1970.2
3208.6	73°	2601.9	2039.0	1695.0	1795.1	1907.7	2226.7	2633.2	2376.8	2014.0	1913.9
2257.9	75°	1895.2	1607.4	1519.9	1620.0	1707.5	2007.7	2383.0	2176.6	1851.4	1745.0
1663.7	77.5°	1419.8	1238.4	1263.4	1376.0	1451.1	1732.5	2120.3	1970.2	1676.2	1532.4
1244.7	80°	1044.5	944.5	1044.5	1150.9	1207.1	1526.1	1932.7	1707.5	1413.5	1250.9
881.9	82.5°	744.3	688.0	806.8	875.6	900.7	1263.4	1738.8	1363.5	1069.5	856.9
506.6	85°	425.3	419.1	544.2	537.9	556.7	738.0	1144.6	906.9	688.0	525.4
256.4	87.5°	187.6	206.4	275.2	218.9	231.4	350.3	487.9	337.8	281.5	156.4
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





<u>180°</u>
8481.3
9019.2
9238.1
9019.2
8662.7
8162.3
7699.5
7055.2
6567.4
6304.7
6292.2
6098.3
5860.6
5748.0
5397.8
4916.1
4384.5
3940.4
3608.9
3346.2
3133.6
2927.2
2733.3
2626.9
2526.9
2414.3
2389.3
2276.7
2151.6
1870.1
1820.1
1657.5
1494.9
1219.7
788.1
512.9
118.8
0.0

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