

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: P574779

Luminaire Tested: **EPH-VN-07-740-U-T4FT**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574779  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-T4FT  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

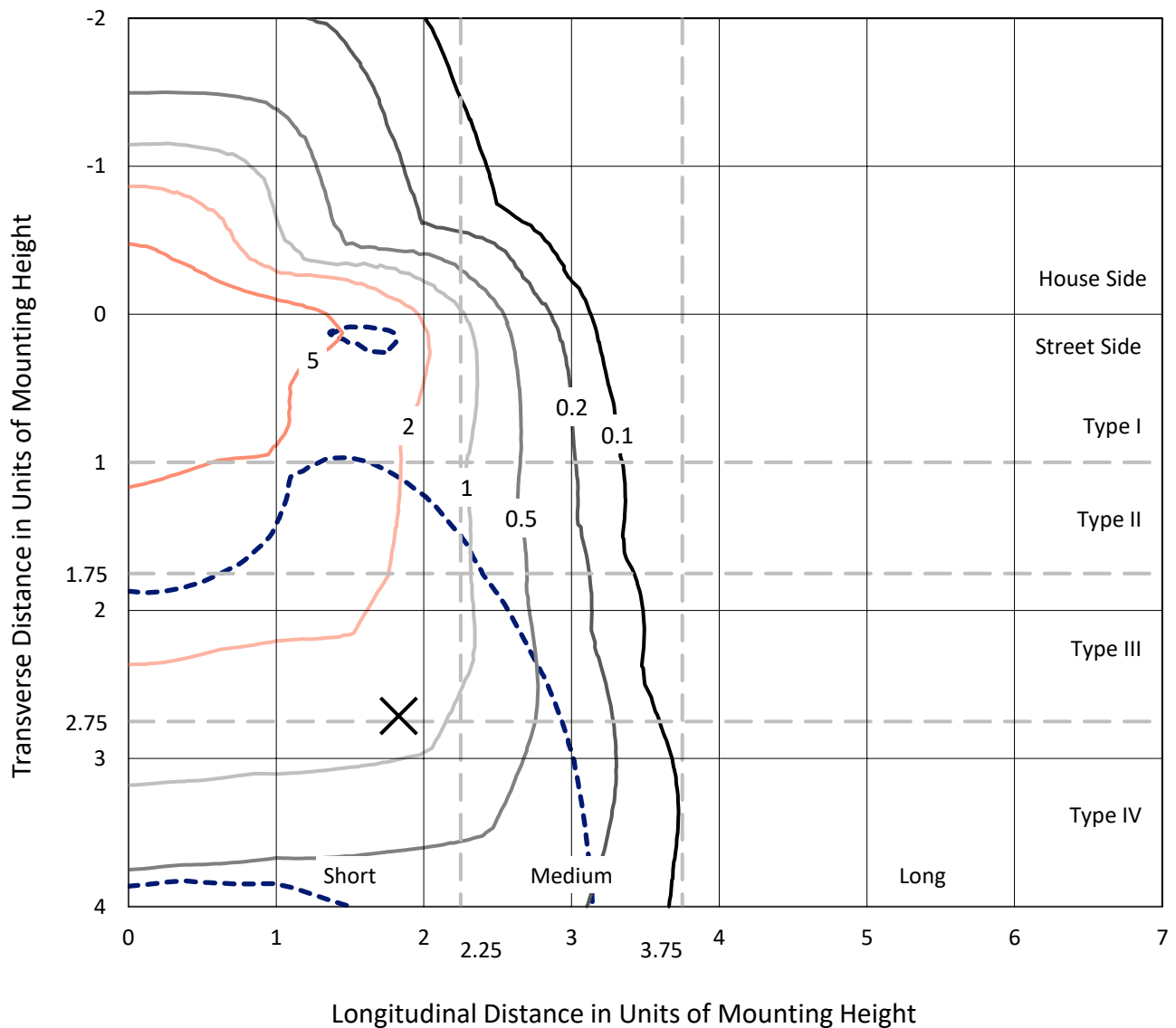
Lumens per Lamp: N/A  
Luminaire Lumens: 57834 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

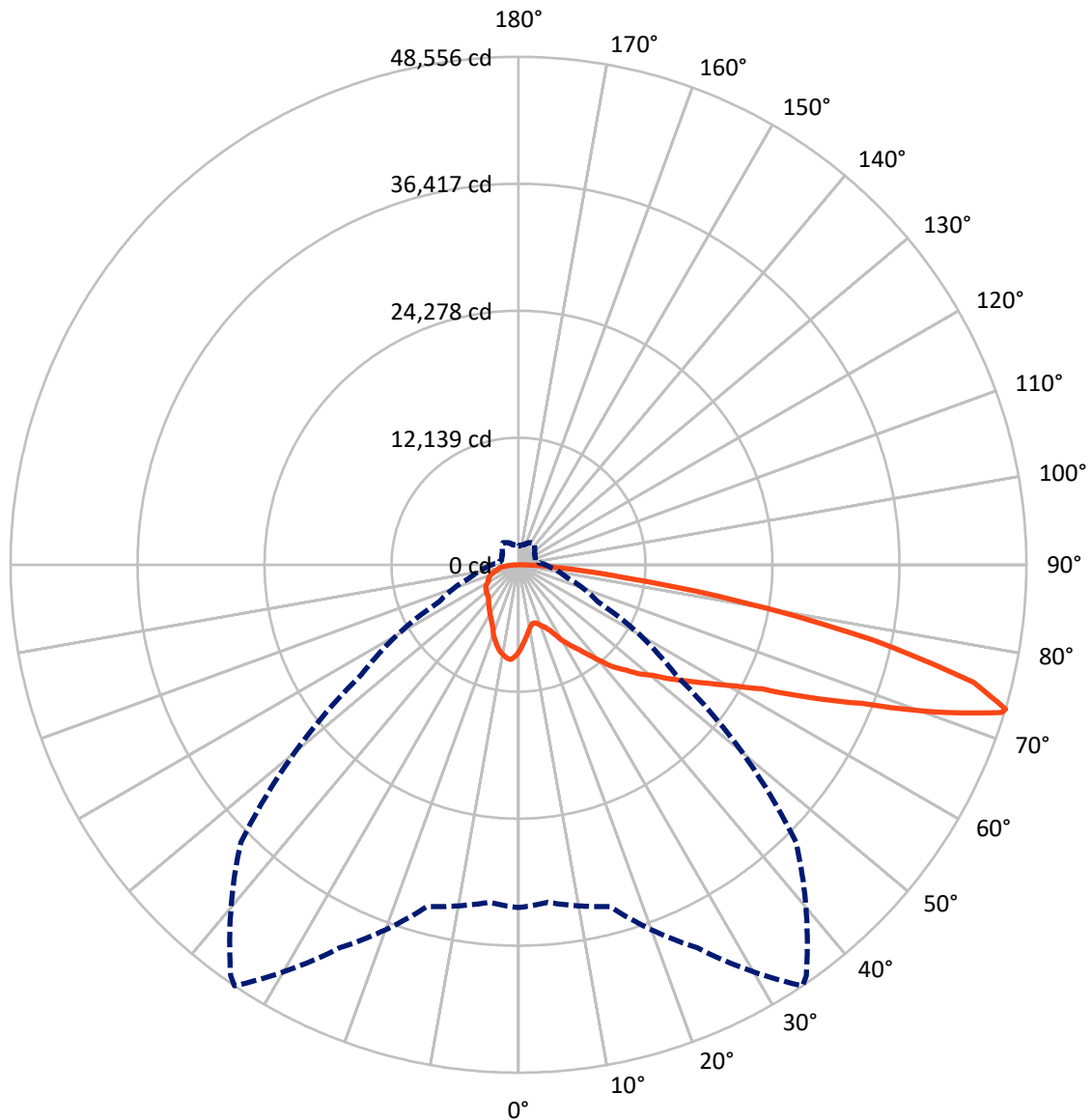
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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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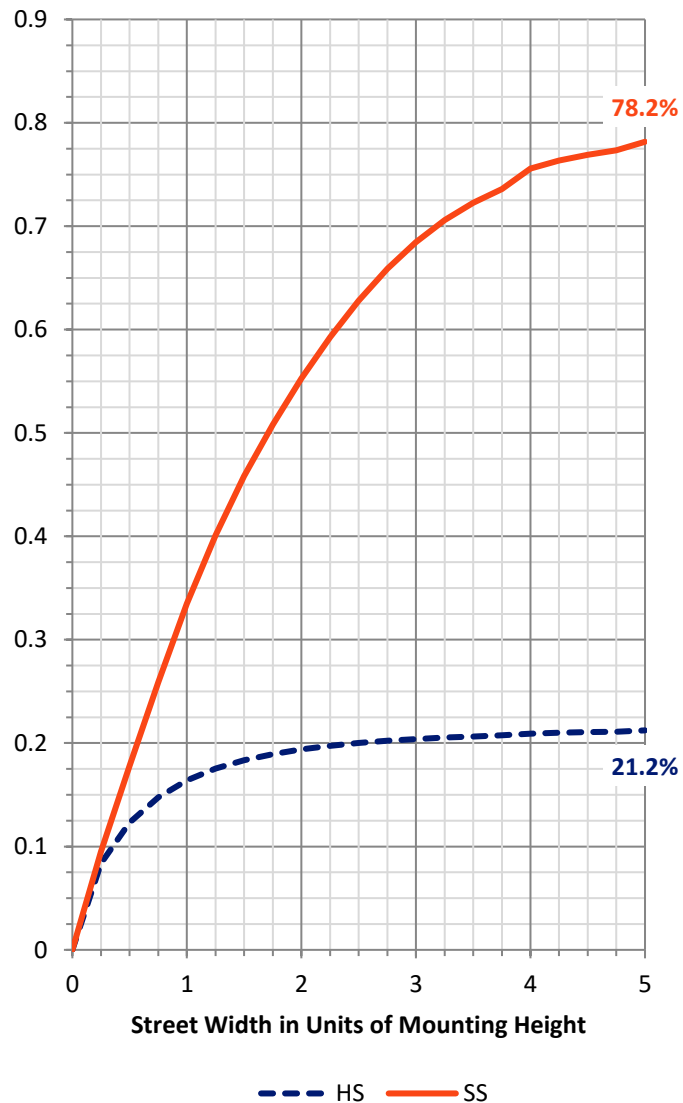
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12492.9	0.0	12492.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	45341.1	0.0	45341.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	57834.0	0.0	57834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	765.3	1.3
10°-20°	2141.6	3.7
20°-30°	3524.8	6.1
30°-40°	5271.3	9.1
40°-50°	7814.6	13.5
50°-60°	11261.6	19.5
60°-70°	14371.3	24.8
70°-80°	11183.3	19.3
80°-90°	1500.3	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°	57834.0	100.0
0°-180°	57834.0	100.0

**Coefficient of Utilization**

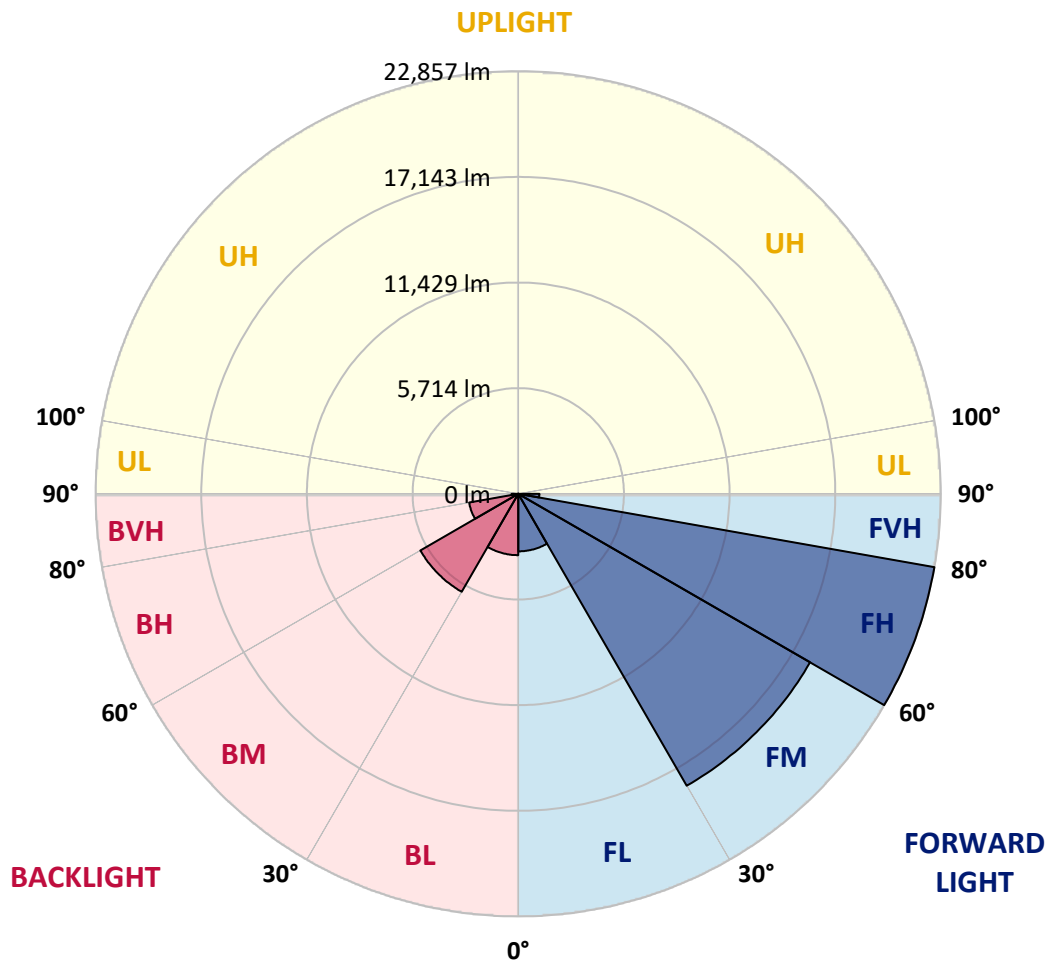


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.5	5.4			
FM (30°-60°)	18229.7	31.5			
FH (60°-80°)	22857.1	39.5			G5
FVH (80°-90°)	1142.0	2.0			G5
BL (0°-30°)	3319.3	5.7	B4/5000		
BM (30°-60°)	6117.8	10.6	B4/8500		
BH (60°-80°)	2697.5	4.7	B4/5000		G4/5000
BVH (80°-90°)	358.3	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°	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4
2.5°	7429.3	7453.7	7533.2	7551.5	7637.2	7588.2	7692.2	7875.6	7979.6	8132.4
5°	6842.3	6738.3	6787.2	6976.8	7074.6	7099.1	7209.1	7521.0	7716.6	7942.9
7.5°	6151.3	6133.0	6230.8	6353.1	6548.7	6567.1	6811.7	7086.8	7490.4	7991.8
10°	5680.5	5760.0	5815.0	5943.4	6077.9	6077.9	6389.8	6866.7	7325.3	7808.4
12.5°	5656.0	5607.1	5619.3	5686.6	5784.4	5906.7	6200.2	6628.2	7209.1	7771.7
15°	5735.5	5753.8	5643.8	5729.4	5766.1	5808.9	6133.0	6616.0	7135.8	7900.1
17.5°	6157.4	6053.5	5882.3	5802.8	5931.2	5931.2	6151.3	6530.4	7148.0	7967.3
20°	6487.6	6487.6	6206.3	6120.7	6212.4	6194.1	6347.0	6628.2	7209.1	8101.9
22.5°	7044.0	7123.5	6658.8	6481.5	6475.4	6524.3	6658.8	6897.3	7380.3	8291.4
25°	7845.0	7863.4	7325.3	7141.9	6946.2	7025.7	7050.1	7288.6	7533.2	8511.5
27.5°	8737.8	8725.6	8230.3	7771.7	7643.3	7661.6	7527.1	7686.1	7759.4	8578.8
30°	9728.3	9618.3	9245.3	8597.1	8493.2	8377.0	8083.5	8077.4	8230.3	8957.9
32.5°	10376.5	10235.9	9979.0	9514.3	9226.9	9239.2	8774.5	8768.4	8633.8	9373.7
35°	11012.4	10798.4	10731.1	10254.2	9966.8	9997.4	9624.4	9575.5	9330.9	10003.5
37.5°	11776.7	11587.2	11691.1	11330.4	10975.7	10829.0	10657.8	10596.6	10278.7	10890.1
40°	12620.6	12559.4	12492.2	12314.8	12100.8	12113.0	11929.6	11868.5	11397.6	11960.2
42.5°	13757.9	13525.5	13177.0	13293.2	13403.2	13519.4	13458.3	13299.3	12810.1	13048.6
45°	14815.7	14510.0	13867.9	13904.6	14357.1	14448.8	15188.7	15170.4	14185.9	14430.5
47.5°	15531.1	15390.5	15005.3	14962.5	15610.6	15604.5	16937.5	16937.5	15635.1	15806.3
50°	16595.1	16228.2	16063.1	16277.1	16607.3	16833.5	18722.9	18839.1	17059.8	17243.2
52.5°	17842.4	17383.8	16968.0	17518.4	18105.4	18252.1	20490.1	20441.1	18154.3	18912.5
55°	18875.8	18643.5	18356.1	18674.0	19634.0	19817.5	22263.3	21810.8	19248.8	20294.4
57.5°	20080.4	20221.0	20282.2	20202.7	21346.1	21633.5	24287.2	22990.9	20190.4	21223.8
60°	21896.4	21982.0	22061.5	22251.1	23461.8	23865.3	25889.3	24470.7	20783.6	21761.9
62.5°	24660.2	24330.0	24507.4	25161.6	26133.9	26592.4	28249.5	25510.2	21236.0	22086.0
65°	27821.5	27375.1	27191.7	28035.5	30554.7	30187.8	31196.8	26286.7	20581.8	20875.3
67.5°	31025.5	31074.5	30603.6	32297.4	35385.3	35385.3	33936.1	26659.7	18808.5	16919.1
70°	33569.2	33722.1	33978.9	37262.4	42154.1	42894.0	37329.7	25131.1	15194.8	11263.1
72.5°	33532.5	33073.9	34388.6	40435.9	48305.4	47687.9	38039.0	19872.5	9483.8	5515.4
73°	32780.4	32395.2	33832.1	40405.4	48556.1	47975.2	37519.3	18319.4	8364.8	4781.6
75°	26769.8	26072.7	28518.6	36596.0	44924.1	45370.4	31875.5	11948.0	4586.0	2947.2
77.5°	12204.8	12510.5	15696.2	24550.2	34620.9	35146.8	20954.8	5166.8	2513.1	2066.7
80°	3919.5	4115.1	6108.5	12204.8	21700.8	22648.5	9685.5	2348.0	1791.6	1583.7
82.5°	1498.1	1492.0	2562.0	5075.1	10284.8	10890.1	3540.4	1430.8	1333.0	1167.9
85°	525.9	550.3	966.1	2005.6	4047.9	4237.4	1229.0	794.9	923.3	782.7
87.5°	183.4	189.6	342.4	727.6	1394.1	1473.6	342.4	318.0	458.6	452.5
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°
8291.4	0°	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4	8291.4
8315.9	2.5°	8377.0	8432.0	8450.4	8670.5	8670.5	8670.5	8756.1	8756.1	8731.7	8670.5
8285.3	5°	8413.7	8511.5	8701.1	8890.6	8939.6	8982.4	9098.5	9000.7	9037.4	8976.3
8395.4	7.5°	8517.7	8652.2	9006.8	9123.0	9043.5	9135.2	9012.9	8945.7	8878.4	8902.9
8419.8	10°	8695.0	8866.2	9031.3	9245.3	9092.4	9000.7	8750.0	8688.9	8474.9	8401.5
8523.8	12.5°	8915.1	9123.0	9404.3	9324.8	9031.3	8768.4	8499.3	8242.5	8114.1	7930.7
8701.1	15°	9135.2	9373.7	9416.5	9282.0	8915.1	8584.9	8095.7	7735.0	7606.6	7441.5
8957.9	17.5°	9373.7	9599.9	9526.6	9178.0	8682.7	8181.4	7624.9	7270.3	7001.2	6897.3
9245.3	20°	9728.3	9838.4	9722.2	9006.8	8401.5	7741.1	7203.0	6799.4	6530.4	6487.6
9520.5	22.5°	10003.5	10180.8	9661.1	8756.1	7991.8	7166.3	6548.7	6395.9	6316.4	6249.1
9832.3	25°	10358.2	10352.0	9551.0	8523.8	7288.6	6481.5	6108.5	6096.3	6059.6	6035.1
10278.7	27.5°	10694.5	10553.8	9422.6	7949.0	6561.0	5961.7	5760.0	5894.5	5949.5	5912.8
10896.2	30°	11226.4	10994.1	9239.2	7337.5	5918.9	5435.9	5472.6	5656.0	5747.7	5802.8
11434.3	32.5°	11789.0	11434.3	8860.1	6701.6	5350.3	5105.7	5191.3	5380.9	5490.9	5552.1
12320.9	35°	12602.2	11776.7	8474.9	5870.0	4940.6	4903.9	4952.8	5056.8	5215.8	5258.6
13531.6	37.5°	13605.0	12296.5	7955.1	5203.5	4622.6	4665.4	4714.4	4751.1	4757.2	4836.7
14693.4	40°	14607.8	12736.7	7196.9	4567.6	4292.5	4524.8	4500.4	4433.1	4378.1	4304.7
15989.7	42.5°	15488.3	13122.0	6353.1	4029.5	3999.0	4378.1	4298.6	4127.4	3999.0	3943.9
17463.3	45°	16478.9	13666.2	5503.2	3693.2	3772.7	4200.7	4176.3	3913.4	3748.3	3552.6
19047.0	47.5°	17762.9	14234.8	4689.9	3344.7	3558.7	4133.5	4145.7	3809.4	3570.9	3308.0
21119.9	50°	19407.8	15054.2	4072.3	3197.9	3430.3	4035.6	4054.0	3668.8	3356.9	3087.9
23547.4	52.5°	20985.3	15891.9	3558.7	2971.7	3344.7	3919.5	3962.3	3540.4	3179.6	2843.3
24715.3	55°	21780.2	15586.1	3118.5	2806.6	3149.0	3729.9	3888.9	3448.6	2910.6	2678.2
25400.1	57.5°	21957.6	14834.0	2769.9	2635.4	2983.9	3528.1	3766.6	3173.5	2788.3	2592.6
25455.1	60°	21376.7	13519.4	2494.8	2452.0	2776.0	3320.2	3485.3	3026.7	2666.0	2507.0
23657.4	62.5°	19945.9	12155.8	2305.2	2366.4	2598.7	3094.0	3308.0	2922.8	2549.8	2439.7
20062.0	65°	16356.6	9997.4	2152.3	2201.3	2415.3	2873.9	3197.9	2806.6	2445.8	2341.9
14069.7	67.5°	11330.4	6891.2	2030.1	2121.8	2268.5	2714.9	3087.9	2678.2	2311.3	2274.6
7692.2	70°	5802.8	3674.9	1871.1	1944.4	2109.5	2513.1	2892.2	2543.7	2170.7	2164.6
3528.1	72.5°	2941.1	2152.3	1687.6	1797.7	1913.9	2250.2	2647.6	2366.4	1993.4	1926.1
3136.8	73°	2543.7	1993.4	1657.1	1754.9	1865.0	2176.8	2574.3	2323.6	1968.9	1871.1
2207.4	75°	1852.7	1571.5	1485.9	1583.7	1669.3	1962.8	2329.7	2127.9	1809.9	1706.0
1626.5	77.5°	1388.0	1210.7	1235.2	1345.2	1418.6	1693.7	2072.9	1926.1	1638.7	1498.1
1216.8	80°	1021.1	923.3	1021.1	1125.1	1180.1	1492.0	1889.4	1669.3	1381.9	1222.9
862.2	82.5°	727.6	672.6	788.8	856.0	880.5	1235.2	1699.9	1333.0	1045.6	837.7
495.3	85°	415.8	409.7	532.0	525.9	544.2	721.5	1119.0	886.6	672.6	513.6
250.7	87.5°	183.4	201.8	269.0	214.0	226.2	342.4	476.9	330.2	275.2	152.9
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>
8291.4
8817.3
9031.3
8817.3
8468.7
7979.6
7527.1
6897.3
6420.3
6163.5
6151.3
5961.7
5729.4
5619.3
5276.9
4806.1
4286.3
3852.2
3528.1
3271.3
3063.4
2861.6
2672.1
2568.1
2470.3
2360.2
2335.8
2225.7
2103.4
1828.3
1779.4
1620.4
1461.4
1192.3
770.4
501.4
116.2
0.0

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