

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: P574781

Luminaire Tested: **EPH-VN-03-750-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

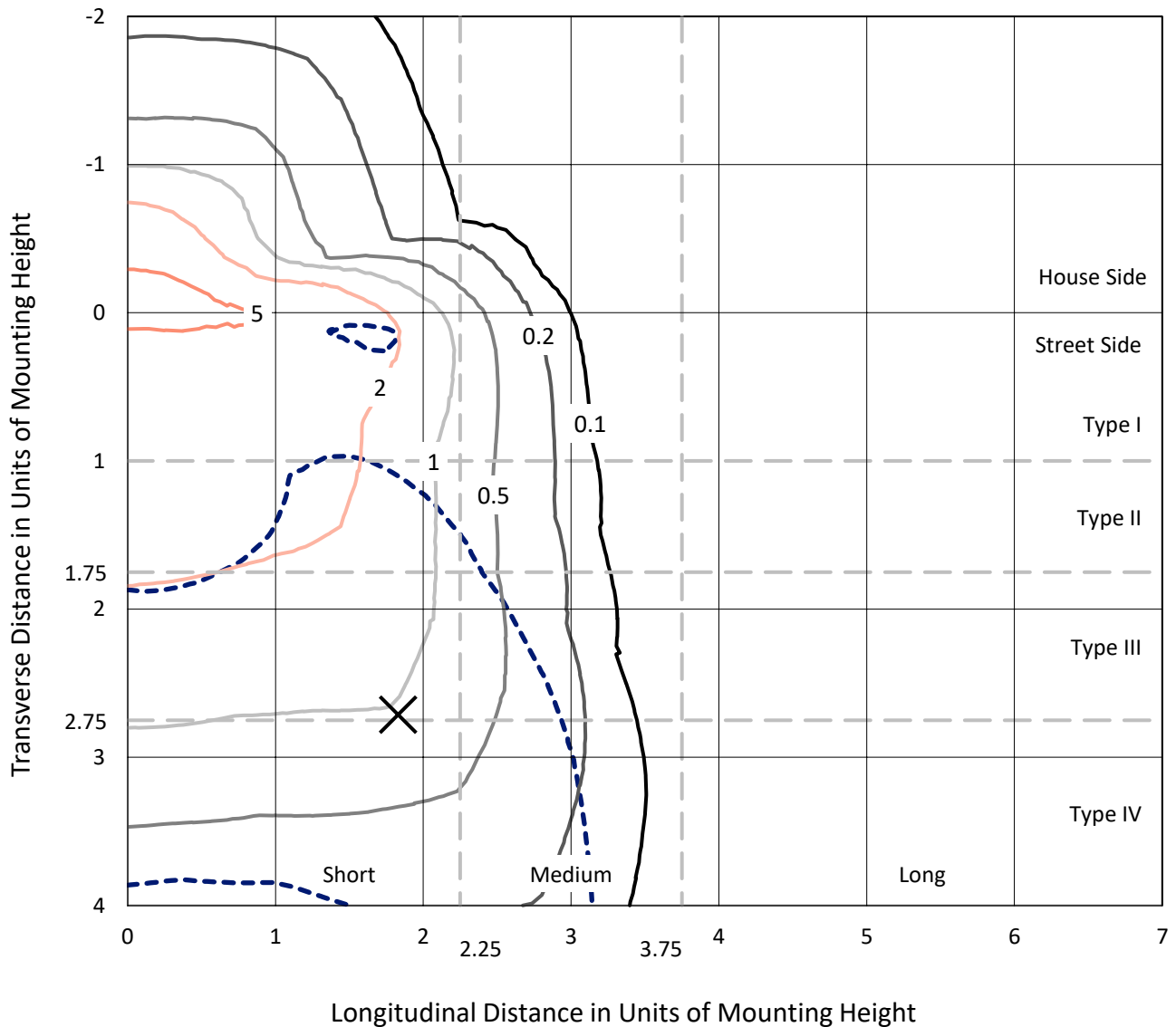
Lumens per Lamp: N/A
Luminaire Lumens: 28266.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

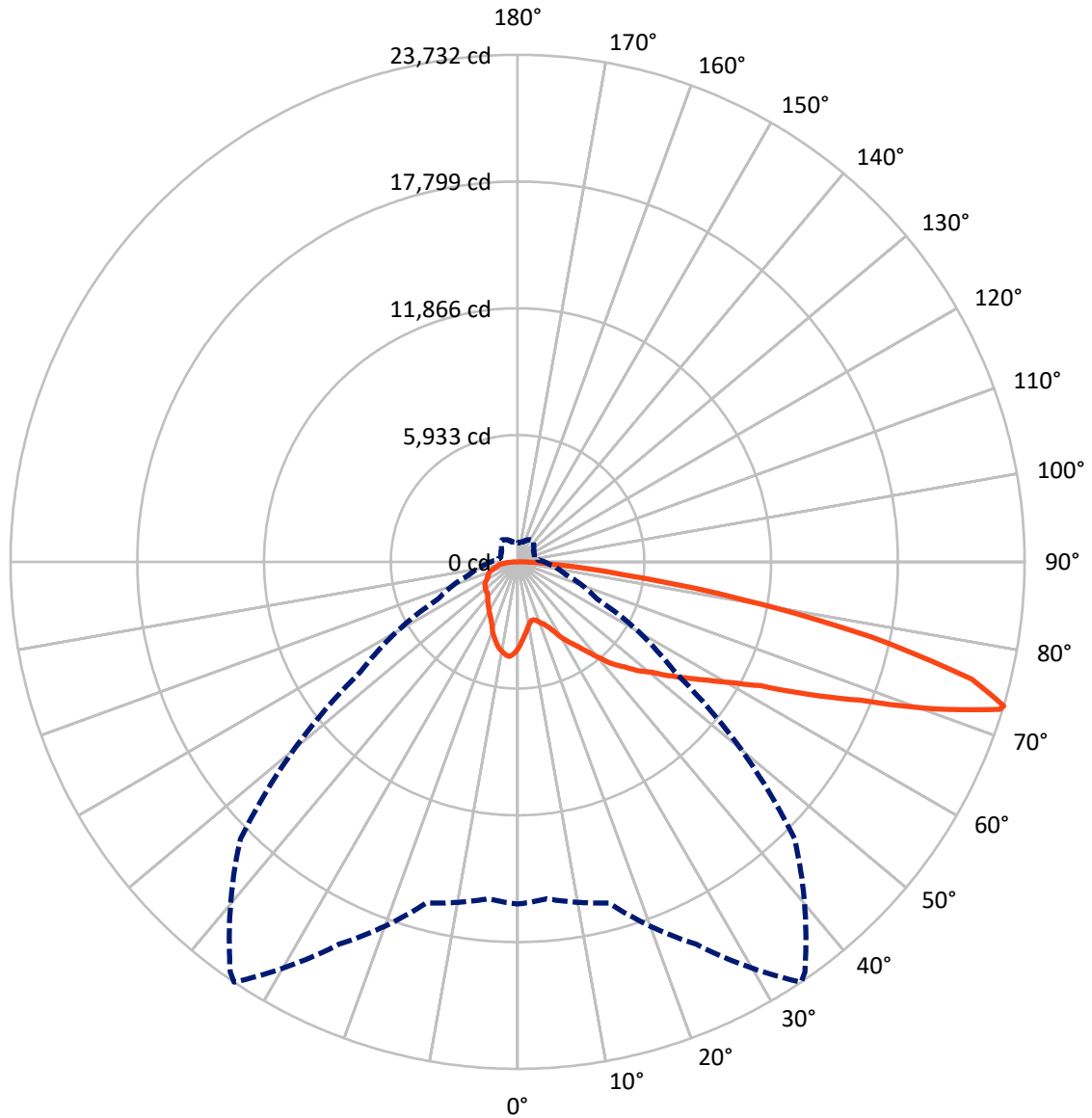
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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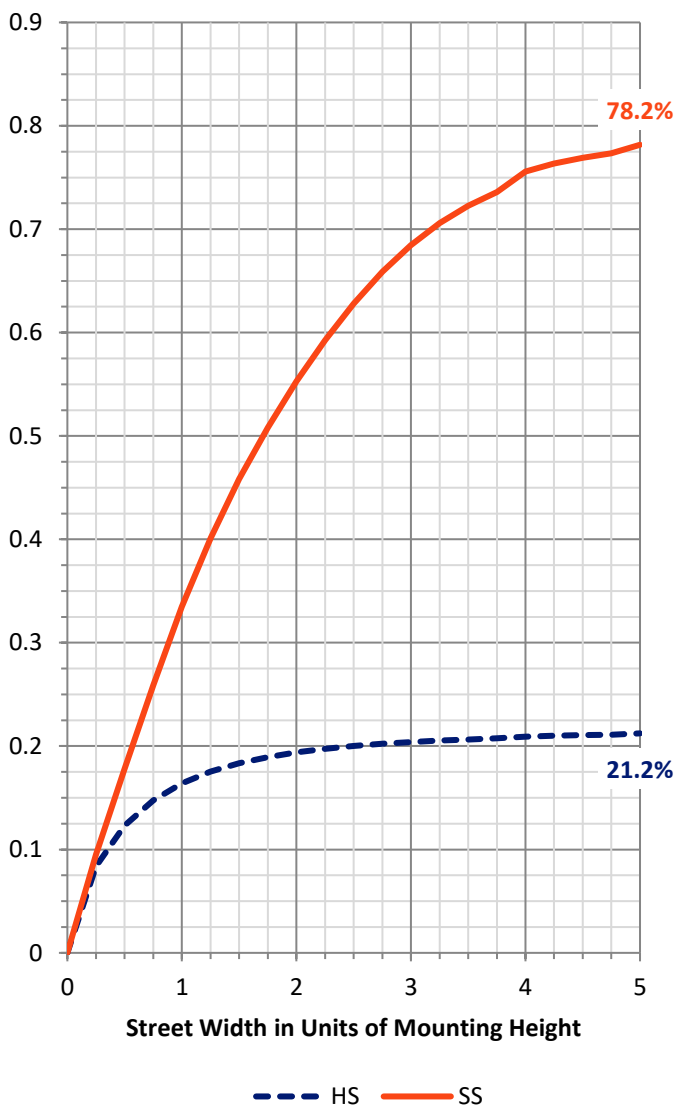
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6106.0	0.0	6106.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22160.8	0.0	22160.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	28266.8	0.0	28266.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	1.3
10°-20°	1046.7	3.7
20°-30°	1722.8	6.1
30°-40°	2576.4	9.1
40°-50°	3819.4	13.5
50°-60°	5504.2	19.5
60°-70°	7024.1	24.8
70°-80°	5465.9	19.3
80°-90°	733.3	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°	28266.8	100.0
0°-180°	28266.8	100.0

Coefficient of Utilization

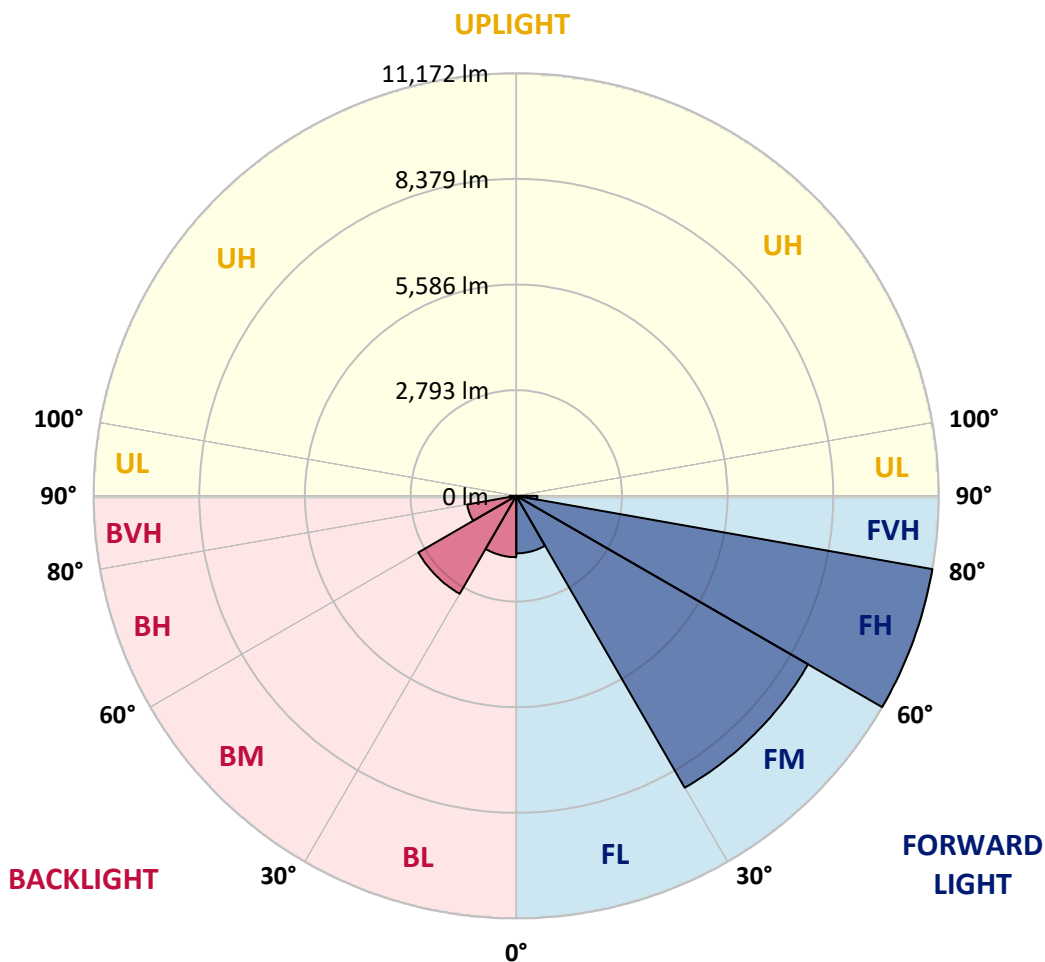


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.2	5.4			
FM (30°-60°)	8909.9	31.5			
FH (60°-80°)	11171.5	39.5			G4/12000
FVH (80°-90°)	558.2	2.0			G4/750
BL (0°-30°)	1622.3	5.7	B3/2500		
BM (30°-60°)	2990.1	10.6	B3/5000		
BH (60°-80°)	1318.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	175.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5
2.5°	3631.1	3643.1	3681.9	3690.9	3732.7	3708.8	3759.6	3849.3	3900.1	3974.8
5°	3344.2	3293.4	3317.3	3409.9	3457.8	3469.7	3523.5	3675.9	3771.6	3882.1
7.5°	3006.5	2997.5	3045.3	3105.1	3200.7	3209.7	3329.3	3463.7	3661.0	3906.0
10°	2776.4	2815.2	2842.1	2904.9	2970.6	2970.6	3123.0	3356.2	3580.3	3816.4
12.5°	2764.4	2740.5	2746.5	2779.4	2827.2	2886.9	3030.4	3239.6	3523.5	3798.5
15°	2803.3	2812.2	2758.4	2800.3	2818.2	2839.1	2997.5	3233.6	3487.6	3861.2
17.5°	3009.5	2958.7	2875.0	2836.1	2898.9	2898.9	3006.5	3191.8	3493.6	3894.1
20°	3170.9	3170.9	3033.4	2991.5	3036.4	3027.4	3102.1	3239.6	3523.5	3959.8
22.5°	3442.8	3481.7	3254.5	3167.9	3164.9	3188.8	3254.5	3371.1	3607.2	4052.5
25°	3834.3	3843.3	3580.3	3490.6	3395.0	3433.9	3445.8	3562.4	3681.9	4160.1
27.5°	4270.7	4264.7	4022.6	3798.5	3735.7	3744.7	3678.9	3756.6	3792.5	4192.9
30°	4754.8	4701.0	4518.7	4201.9	4151.1	4094.3	3950.9	3947.9	4022.6	4378.2
32.5°	5071.6	5002.8	4877.3	4650.2	4509.7	4515.7	4288.6	4285.6	4219.8	4581.5
35°	5382.4	5277.8	5244.9	5011.8	4871.4	4886.3	4704.0	4680.1	4560.5	4889.3
37.5°	5756.0	5663.3	5714.1	5537.8	5364.5	5292.7	5209.1	5179.2	5023.8	5322.6
40°	6168.4	6138.5	6105.6	6019.0	5914.4	5920.3	5830.7	5800.8	5570.7	5845.6
42.5°	6724.3	6610.7	6440.3	6497.1	6550.9	6607.7	6577.8	6500.1	6261.0	6377.6
45°	7241.3	7091.9	6778.1	6796.0	7017.1	7062.0	7423.6	7414.6	6933.5	7053.0
47.5°	7590.9	7522.2	7333.9	7313.0	7629.8	7626.8	8278.3	8278.3	7641.7	7725.4
50°	8111.0	7931.6	7850.9	7955.5	8116.9	8227.5	9151.0	9207.8	8338.1	8427.7
52.5°	8720.6	8496.5	8293.3	8562.2	8849.1	8920.9	10014.7	9990.8	8873.0	9243.6
55°	9225.7	9112.1	8971.7	9127.1	9596.3	9685.9	10881.3	10660.2	9408.0	9919.0
57.5°	9814.4	9883.2	9913.1	9874.2	10433.1	10573.5	11870.6	11237.0	9868.2	10373.3
60°	10702.0	10743.9	10782.7	10875.4	11467.1	11664.3	12653.6	11960.2	10158.1	10636.3
62.5°	12052.9	11891.5	11978.1	12297.9	12773.1	12997.2	13807.1	12468.3	10379.3	10794.7
65°	13597.9	13379.8	13290.1	13702.5	14933.8	14754.5	15247.6	12847.8	10059.5	10202.9
67.5°	15164.0	15187.9	14957.7	15785.6	17294.8	17294.8	16586.5	13030.1	9192.8	8269.3
70°	16407.2	16481.9	16607.4	18212.3	20603.1	20964.7	18245.2	12283.0	7426.6	5504.9
72.5°	16389.3	16165.1	16807.7	19763.3	23609.6	23307.8	18591.8	9712.8	4635.3	2695.7
73°	16021.7	15833.4	16535.7	19748.4	23732.2	23448.2	18337.8	8953.7	4088.3	2337.1
75°	13083.9	12743.2	13938.6	17886.5	21956.9	22175.1	15579.4	5839.6	2241.4	1440.5
77.5°	5965.2	6114.6	7671.6	11999.1	16921.2	17178.2	10241.8	2525.3	1228.3	1010.1
80°	1915.7	2011.3	2985.6	5965.2	10606.4	11069.6	4733.9	1147.6	875.6	774.0
82.5°	732.2	729.2	1252.2	2480.5	5026.8	5322.6	1730.4	699.3	651.5	570.8
85°	257.0	269.0	472.2	980.2	1978.4	2071.1	600.7	388.5	451.3	382.5
87.5°	89.7	92.6	167.4	355.6	681.4	720.2	167.4	155.4	224.1	221.2
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°
4052.5	0°	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5
4064.4	2.5°	4094.3	4121.2	4130.2	4237.8	4237.8	4237.8	4279.6	4279.6	4267.7	4237.8
4049.5	5°	4112.3	4160.1	4252.7	4345.4	4369.3	4390.2	4447.0	4399.2	4417.1	4387.2
4103.3	7.5°	4163.1	4228.8	4402.1	4458.9	4420.1	4464.9	4405.1	4372.3	4339.4	4351.3
4115.2	10°	4249.7	4333.4	4414.1	4518.7	4444.0	4399.2	4276.6	4246.7	4142.1	4106.3
4166.1	12.5°	4357.3	4458.9	4596.4	4557.6	4414.1	4285.6	4154.1	4028.6	3965.8	3876.2
4252.7	15°	4464.9	4581.5	4602.4	4536.6	4357.3	4195.9	3956.9	3780.5	3717.8	3637.1
4378.2	17.5°	4581.5	4692.0	4656.2	4485.8	4243.8	3998.7	3726.7	3553.4	3421.9	3371.1
4518.7	20°	4754.8	4808.6	4751.8	4402.1	4106.3	3783.5	3520.5	3323.3	3191.8	3170.9
4653.2	22.5°	4889.3	4976.0	4721.9	4279.6	3906.0	3502.6	3200.7	3126.0	3087.2	3054.3
4805.6	25°	5062.6	5059.6	4668.1	4166.1	3562.4	3167.9	2985.6	2979.6	2961.7	2949.7
5023.8	27.5°	5227.0	5158.3	4605.4	3885.1	3206.7	2913.8	2815.2	2881.0	2907.9	2889.9
5325.6	30°	5487.0	5373.4	4515.7	3586.3	2892.9	2656.8	2674.8	2764.4	2809.2	2836.1
5588.6	32.5°	5761.9	5588.6	4330.4	3275.5	2615.0	2495.4	2537.3	2629.9	2683.7	2713.6
6021.9	35°	6159.4	5756.0	4142.1	2869.0	2414.8	2396.8	2420.7	2471.5	2549.2	2570.2
6613.7	37.5°	6649.5	6010.0	3888.1	2543.3	2259.4	2280.3	2304.2	2322.1	2325.1	2364.0
7181.5	40°	7139.7	6225.2	3517.5	2232.5	2098.0	2211.5	2199.6	2166.7	2139.8	2103.9
7815.1	42.5°	7570.0	6413.4	3105.1	1969.5	1954.5	2139.8	2101.0	2017.3	1954.5	1927.6
8535.3	45°	8054.2	6679.4	2689.7	1805.1	1843.9	2053.1	2041.2	1912.7	1832.0	1736.4
9309.4	47.5°	8681.8	6957.4	2292.2	1634.7	1739.3	2020.3	2026.2	1861.9	1745.3	1616.8
10322.5	50°	9485.7	7357.8	1990.4	1563.0	1676.6	1972.4	1981.4	1793.1	1640.7	1509.2
11508.9	52.5°	10256.7	7767.3	1739.3	1452.4	1634.7	1915.7	1936.6	1730.4	1554.1	1389.7
12079.8	55°	10645.2	7617.8	1524.2	1371.7	1539.1	1823.0	1900.7	1685.5	1422.6	1309.0
12414.5	57.5°	10731.9	7250.2	1353.8	1288.1	1458.4	1724.4	1841.0	1551.1	1362.8	1267.1
12441.4	60°	10448.0	6607.7	1219.3	1198.4	1356.8	1622.8	1703.5	1479.3	1303.0	1225.3
11562.7	62.5°	9748.7	5941.3	1126.7	1156.6	1270.1	1512.2	1616.8	1428.5	1246.2	1192.4
9805.5	65°	7994.4	4886.3	1052.0	1075.9	1180.5	1404.6	1563.0	1371.7	1195.4	1144.6
6876.7	67.5°	5537.8	3368.1	992.2	1037.0	1108.8	1326.9	1509.2	1309.0	1129.7	1111.7
3759.6	70°	2836.1	1796.1	914.5	950.4	1031.1	1228.3	1413.6	1243.2	1060.9	1058.0
1724.4	72.5°	1437.5	1052.0	824.8	878.6	935.4	1099.8	1294.0	1156.6	974.3	941.4
1533.1	73°	1243.2	974.3	809.9	857.7	911.5	1063.9	1258.2	1135.7	962.3	914.5
1078.9	75°	905.5	768.1	726.2	774.0	815.9	959.3	1138.6	1040.0	884.6	833.8
795.0	77.5°	678.4	591.7	603.7	657.5	693.3	827.8	1013.1	941.4	800.9	732.2
594.7	80°	499.1	451.3	499.1	549.9	576.8	729.2	923.5	815.9	675.4	597.7
421.4	82.5°	355.6	328.7	385.5	418.4	430.4	603.7	830.8	651.5	511.0	409.4
242.1	85°	203.2	200.2	260.0	257.0	266.0	352.7	546.9	433.3	328.7	251.0
122.5	87.5°	89.7	98.6	131.5	104.6	110.6	167.4	233.1	161.4	134.5	74.7
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°
4052.5
4309.5
4414.1
4309.5
4139.2
3900.1
3678.9
3371.1
3138.0
3012.5
3006.5
2913.8
2800.3
2746.5
2579.1
2349.0
2095.0
1882.8
1724.4
1598.9
1497.3
1398.6
1306.0
1255.2
1207.4
1153.6
1141.6
1087.8
1028.1
893.6
869.7
792.0
714.3
582.8
376.6
245.1
56.8
0.0

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