

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: P574662

Luminaire Tested: **EPH-VN-04-750-U-T2R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574662  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-750-U-T2R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35976.7 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

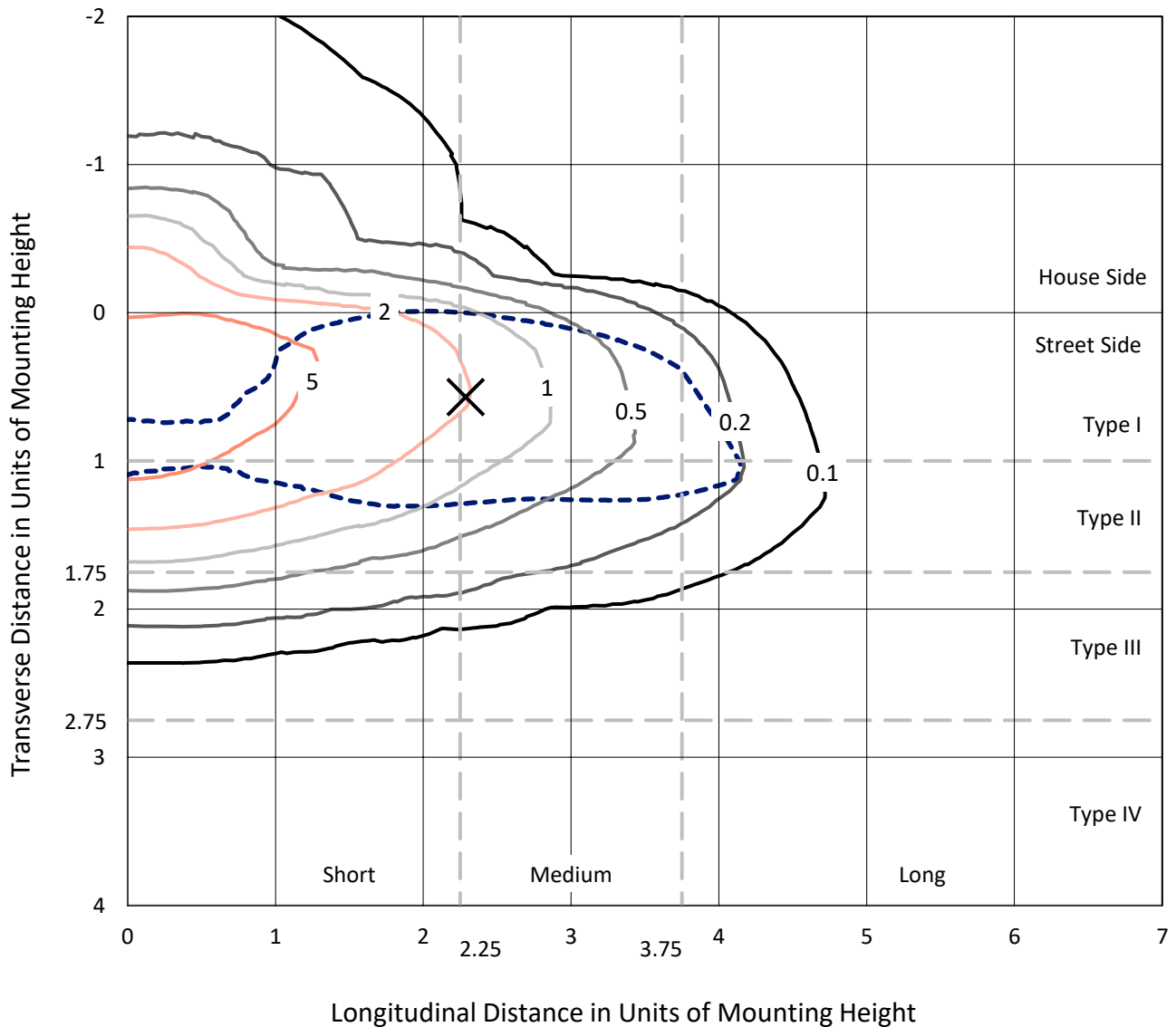
Input Watts (W): 303.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

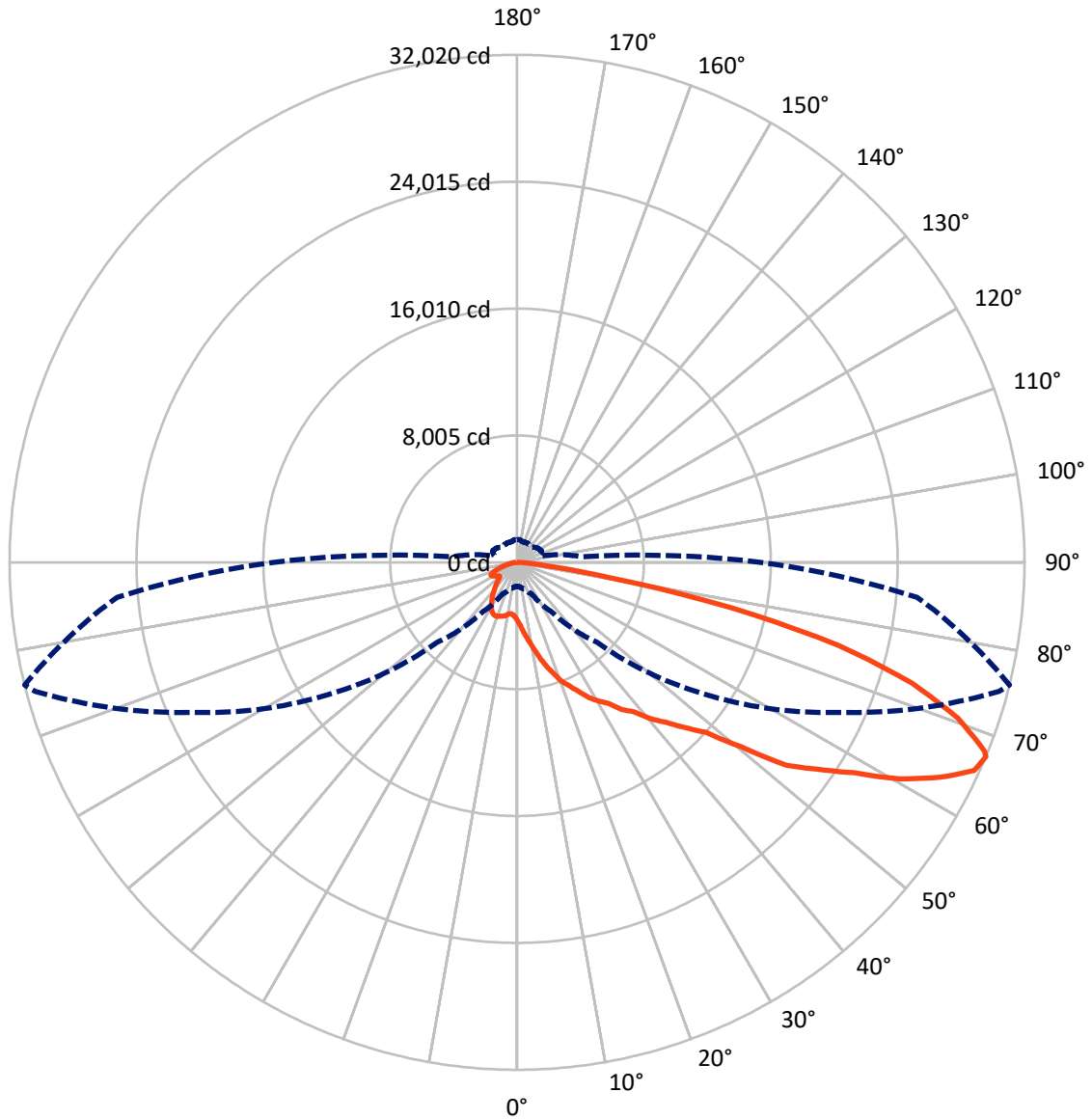
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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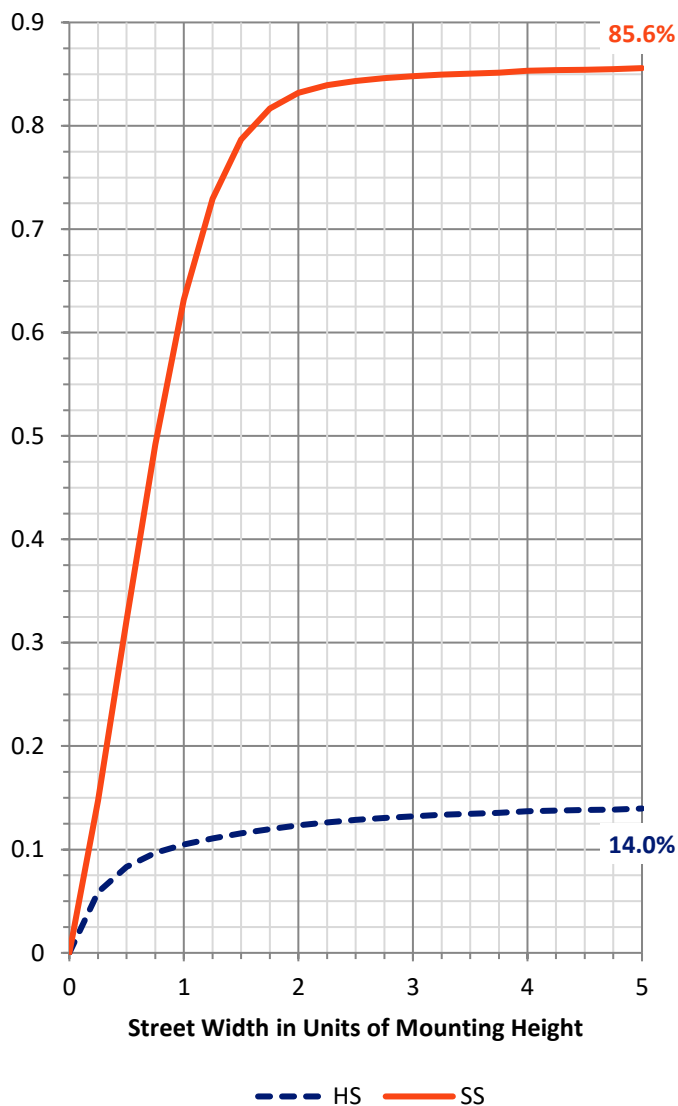
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5118.2	0.0	5118.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	30858.5	0.0	30858.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	35976.7	0.0	35976.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.5	1.2
10°-20°	1599.5	4.4
20°-30°	2973.6	8.3
30°-40°	4713.9	13.1
40°-50°	6519.7	18.1
50°-60°	8019.7	22.3
60°-70°	7462.7	20.7
70°-80°	3744.8	10.4
80°-90°	516.4	1.4
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°	35976.7	100.0
0°-180°	35976.7	100.0

**Coefficient of Utilization**

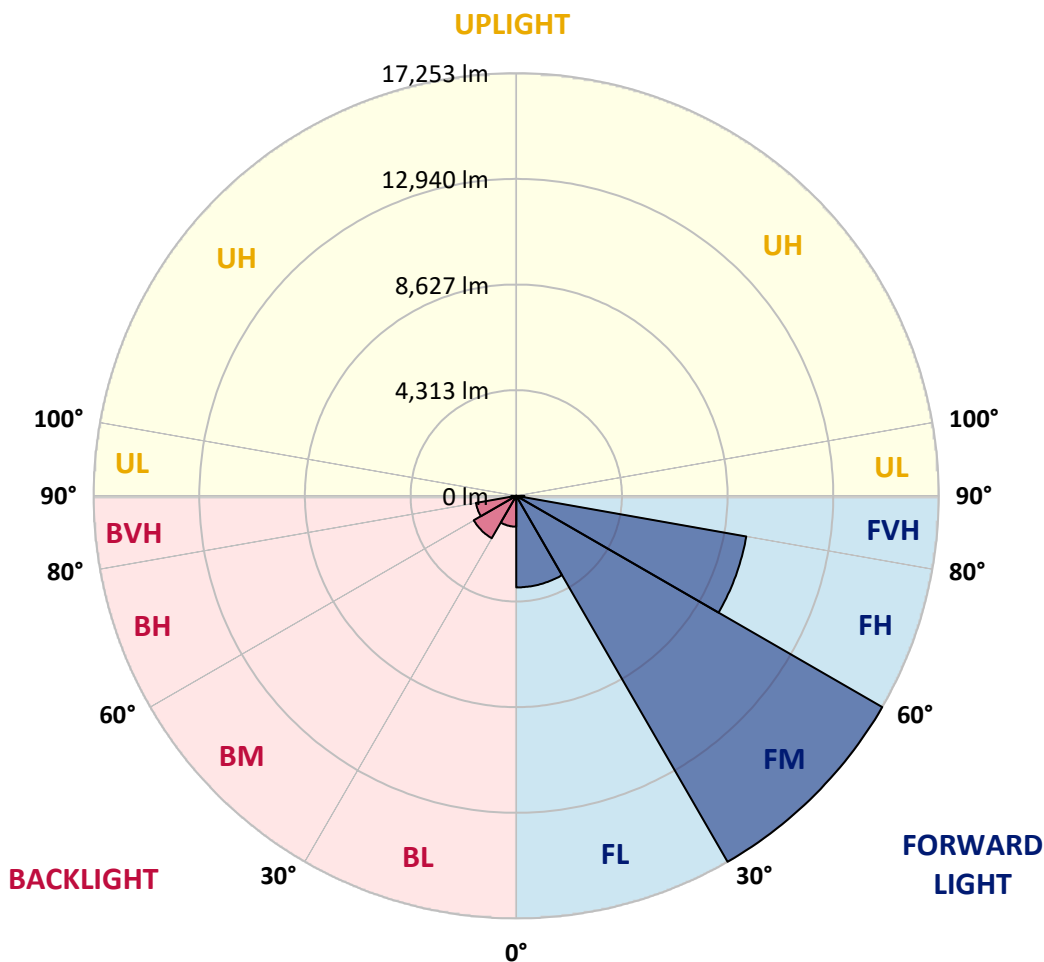


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3739.2	10.4			
FM (30°-60°)	17253.2	48.0			
FH (60°-80°)	9537.1	26.5			G4/12000
FVH (80°-90°)	329.0	0.9			G3/500
BL (0°-30°)	1260.4	3.5	B3/2500		
BM (30°-60°)	2000.1	5.6	B2/2500		
BH (60°-80°)	1670.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	187.4	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7
2.5°	5108.4	5046.9	4985.4	4854.2	4809.1	4686.1	4460.6	4210.5	4005.5	3976.8
5°	6338.4	6248.2	6227.7	6153.9	5920.2	5682.4	5313.4	4911.6	4411.4	4448.3
7.5°	7260.8	7207.5	7096.8	7027.1	6887.7	6572.1	6190.8	5657.8	5022.3	4899.3
10°	7957.8	7884.0	7879.9	7818.4	7744.6	7420.7	7129.6	6412.2	5596.3	5428.2
12.5°	8310.4	8298.1	8515.4	8515.4	8486.7	8351.4	7851.2	7195.2	6141.6	6084.2
15°	8691.7	8589.2	8777.8	8921.3	8995.1	9064.8	8650.7	7957.8	6838.5	6727.8
17.5°	8691.7	8683.5	8872.1	9109.9	9495.2	9585.4	9359.9	8658.9	7416.6	7334.6
20°	8544.1	8663.0	8794.2	9114.0	9532.1	9897.0	9962.6	9376.3	8056.2	7990.6
22.5°	9232.9	9118.1	9253.3	9376.3	9700.2	10253.7	10434.1	10007.7	8728.6	8478.5
25°	10389.0	10311.1	10212.7	10032.3	10167.6	10409.5	10684.2	10475.1	9302.5	9023.8
27.5°	11516.5	11520.6	11307.4	10913.8	10622.7	10671.9	10995.8	10885.1	9786.3	9663.3
30°	13119.5	13021.1	12783.3	12250.3	11680.5	11213.1	11159.8	11266.4	10401.3	10163.5
32.5°	14320.8	14341.3	14005.1	13238.4	12459.4	12078.1	11610.8	11655.9	10790.8	10614.5
35°	15292.4	15267.8	15030.0	14394.6	13472.1	13012.9	12381.5	12123.2	11696.9	11418.1
37.5°	16342.0	16141.1	15755.7	15038.2	14447.9	13812.4	13197.4	12615.2	12299.5	11963.3
40°	16764.3	16764.3	16247.7	15919.7	15218.6	14738.9	14341.3	13263.0	13033.4	12967.8
42.5°	16465.0	16649.5	16436.3	16063.2	15776.2	15169.4	15062.8	13935.4	13939.5	13808.3
45°	16436.3	16182.1	16005.8	16100.1	15964.8	15932.0	16202.6	14866.0	14890.6	14874.2
47.5°	15612.2	15497.4	15759.8	15915.6	16026.3	16534.7	17313.6	15977.1	16153.4	16030.4
50°	14792.2	14771.7	14935.7	15501.5	15981.2	16817.6	18371.4	17690.8	18268.9	18260.7
52.5°	12545.5	12762.8	13406.5	14603.6	15788.5	17202.9	19170.9	19880.1	20983.0	21282.3
55°	10397.2	10282.4	11233.6	12971.9	14948.0	17354.6	20064.6	21196.2	22819.7	23037.0
57.5°	8089.0	8302.2	9052.5	10721.1	13209.7	16604.4	20720.6	22495.8	24894.3	25062.4
60°	6035.0	6063.7	6887.7	8232.5	10897.4	14911.1	20933.8	23828.3	27272.2	27751.8
62.5°	3796.5	3968.6	4595.9	5920.2	8203.8	12541.4	19978.5	24636.0	29764.9	29892.0
65°	2045.8	2156.5	2628.0	3460.3	5731.6	9487.0	17444.8	24152.2	30937.4	31691.8
67°	1512.8	1533.3	1750.6	2209.8	3833.4	7141.9	14546.2	22401.6	31470.4	32019.8
67.5°	1418.5	1447.2	1619.4	1984.3	3398.8	6576.2	13787.8	21778.4	31232.6	31823.0
70°	1213.6	1221.8	1262.8	1365.2	1906.4	3956.4	9388.6	17846.6	28949.0	29514.8
72.5°	1078.3	1086.5	1102.9	1123.4	1291.5	2287.7	5711.1	13734.5	25160.7	26062.7
75°	947.1	975.8	984.0	967.6	1098.8	1488.2	3038.0	10093.8	20523.8	20962.5
77.5°	803.6	815.9	832.3	848.7	979.9	1111.1	1459.5	6813.9	14087.1	13820.6
80°	676.5	680.6	692.9	705.2	848.7	848.7	828.2	3681.7	6153.9	5883.3
82.5°	483.8	512.5	541.2	574.0	705.2	569.9	541.2	1639.9	1947.4	1853.1
85°	188.6	229.6	356.7	393.6	446.9	307.5	360.8	709.3	811.8	803.6
87.5°	32.8	36.9	98.4	151.7	164.0	106.6	172.2	254.2	303.4	328.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574662

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3681.7	0°	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7	3681.7
3833.4	2.5°	3714.5	3587.4	3435.7	3284.0	3185.6	3029.8	3017.5	2923.2	2910.9	2878.1
3956.4	5°	3743.2	3591.5	3284.0	3042.1	2931.4	2841.2	2861.7	2820.7	2808.4	2787.9
4231.0	7.5°	3968.6	3669.4	3210.2	3001.1	2919.1	2878.1	2878.1	2828.9	2792.0	2816.6
4567.2	10°	4116.2	3706.3	3267.6	3058.5	2992.9	2902.7	2935.5	2874.0	2894.5	2845.3
4956.7	12.5°	4354.0	3915.4	3386.5	3144.6	3038.0	2956.0	2988.8	2919.1	2902.7	2906.8
5374.9	15°	4673.8	4054.7	3439.8	3193.8	3120.0	3017.5	2992.9	2931.4	2869.9	2849.4
5834.1	17.5°	4973.1	4226.9	3476.7	3222.5	3103.6	2988.8	2960.1	2882.2	2861.7	2800.2
6354.8	20°	5329.8	4431.9	3525.9	3247.1	3042.1	2927.3	2853.5	2775.6	2705.9	2669.0
6826.2	22.5°	5567.6	4538.5	3550.5	3197.9	2951.9	2845.3	2689.5	2636.2	2537.8	2496.8
7281.3	25°	5957.1	4669.7	3489.0	3062.6	2792.0	2619.8	2480.4	2406.6	2336.9	2283.6
7592.9	27.5°	6055.5	4768.1	3345.5	2833.0	2537.8	2357.4	2238.5	2148.3	2103.2	2021.2
8039.8	30°	6342.5	4669.7	3132.3	2554.2	2295.9	2111.4	1992.5	1926.9	1820.3	1799.8
8396.5	32.5°	6527.0	4698.4	2861.7	2283.6	2017.1	1853.1	1775.2	1709.6	1680.9	1582.5
8941.8	35°	6834.4	4600.0	2587.0	2033.5	1787.5	1660.4	1594.8	1574.3	1480.0	1434.9
9409.1	37.5°	7031.2	4542.6	2312.3	1750.6	1537.4	1484.1	1504.6	1418.5	1303.8	1217.7
10007.7	40°	7375.6	4522.1	2000.7	1516.9	1365.2	1352.9	1418.5	1254.6	1045.5	971.7
10725.2	42.5°	7871.7	4382.7	1758.8	1307.9	1230.0	1283.3	1295.6	1045.5	926.6	865.1
11688.7	45°	8347.3	4411.4	1521.0	1082.4	1070.1	1148.0	1119.3	885.6	815.9	770.8
12799.7	47.5°	9261.5	4554.9	1287.4	902.0	963.5	1037.3	869.2	791.3	725.7	692.9
14812.7	50°	10676.0	4694.3	1082.4	824.1	910.2	938.9	746.2	717.5	713.4	647.8
16481.4	52.5°	11524.7	4641.0	1045.5	922.5	975.8	938.9	811.8	791.3	758.5	729.8
18195.1	55°	12873.5	4796.8	1123.4	1078.3	1107.0	902.0	910.2	902.0	877.4	803.6
20183.5	57.5°	13947.7	4899.3	1225.9	1205.4	1189.0	938.9	951.2	955.3	938.9	906.1
22266.3	60°	15423.6	5104.3	1332.4	1336.5	1340.6	1020.9	1041.4	1066.0	1061.9	1049.6
24365.4	62.5°	16329.7	5010.0	1451.3	1516.9	1496.4	1189.0	1184.9	1201.3	1201.3	1221.8
25300.1	65°	16194.4	4661.5	1512.8	1676.8	1570.2	1312.0	1312.0	1320.2	1324.2	1365.2
25337.0	67°	15382.6	4038.3	1480.0	1701.4	1570.2	1361.1	1361.1	1369.3	1340.6	1447.2
25050.1	67.5°	15005.4	3853.9	1451.3	1680.9	1557.9	1357.0	1357.0	1361.1	1336.5	1439.0
23037.0	70°	13049.8	2861.7	1250.5	1488.2	1443.1	1320.2	1320.2	1295.6	1275.1	1410.3
19876.0	72.5°	11139.3	2078.6	1004.5	1266.9	1303.8	1271.0	1279.2	1217.7	1160.3	1254.6
15456.4	75°	8531.8	1529.2	783.1	975.8	1102.9	1189.0	1242.3	1086.5	1012.7	1037.3
8359.6	77.5°	4759.9	996.3	619.1	721.6	840.5	1107.0	1193.1	979.9	828.2	799.5
2824.8	80°	1615.3	582.2	455.1	537.1	578.1	979.9	1115.2	795.4	651.9	623.2
955.3	82.5°	610.9	356.7	311.6	369.0	369.0	774.9	910.2	610.9	492.0	635.5
356.7	85°	278.8	213.2	205.0	213.2	213.2	475.6	643.7	397.7	442.8	381.3
131.2	87.5°	110.7	102.5	94.3	90.2	73.8	82.0	221.4	106.6	200.9	53.3
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>
3681.7
2894.5
2755.1
2841.2
2845.3
2894.5
2874.0
2751.0
2685.4
2464.0
2267.2
2004.8
1754.7
1557.9
1393.9
1189.0
930.7
836.4
795.4
697.0
643.7
697.0
824.1
934.8
1057.8
1234.1
1369.3
1414.4
1406.2
1381.6
1230.0
992.2
799.5
602.7
647.8
336.2
49.2
0.0

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