

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: P574810

Luminaire Tested: **EPH-VN-04-735-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574810
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

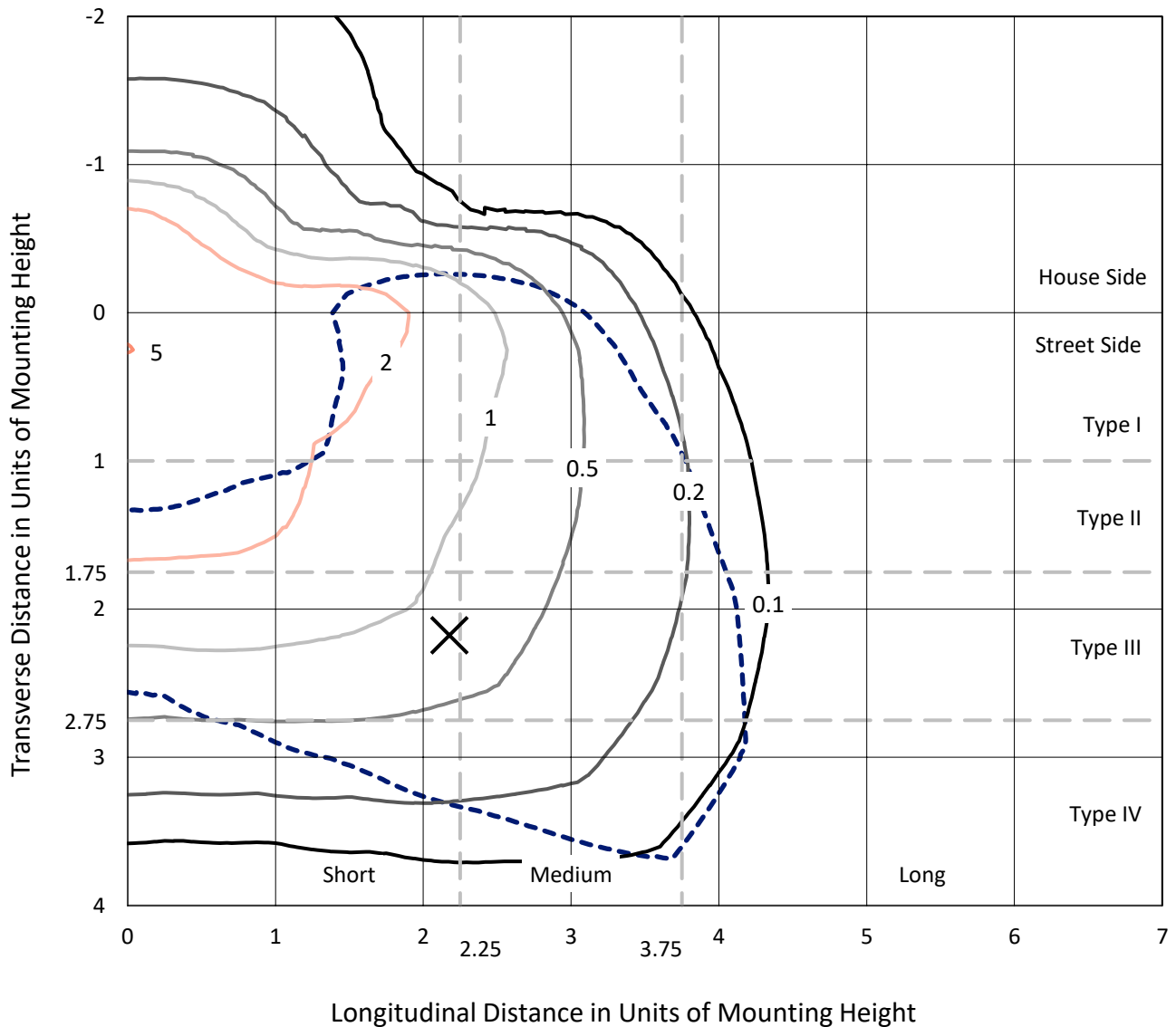
Lumens per Lamp: N/A
Luminaire Lumens: 34867.4 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P574810
 CATALOG NUMBER: EPH-VN-04-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

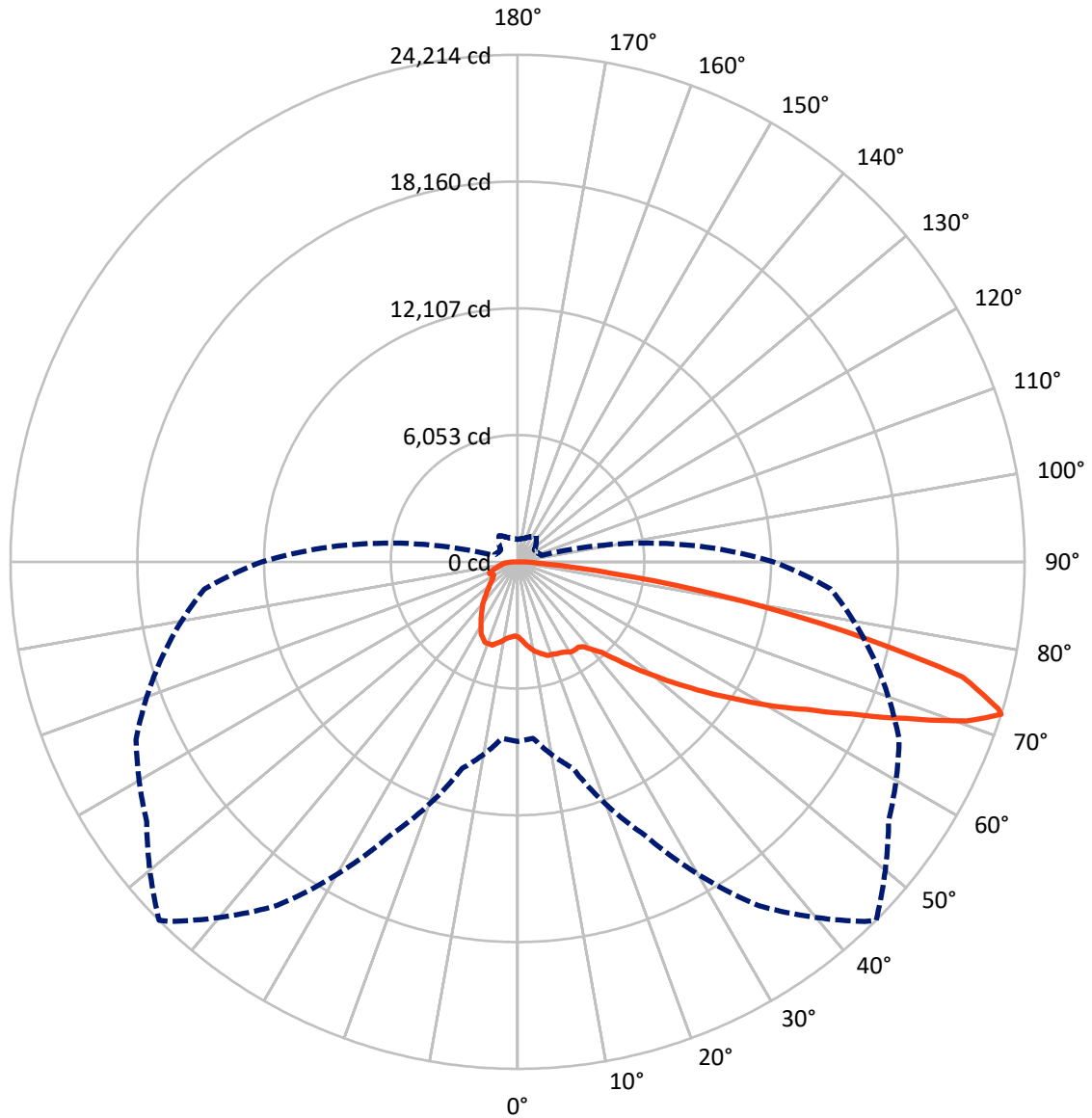
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P574810
CATALOG NUMBER: EPH-VN-04-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P574810
 CATALOG NUMBER: EPH-VN-04-735-U-T4W

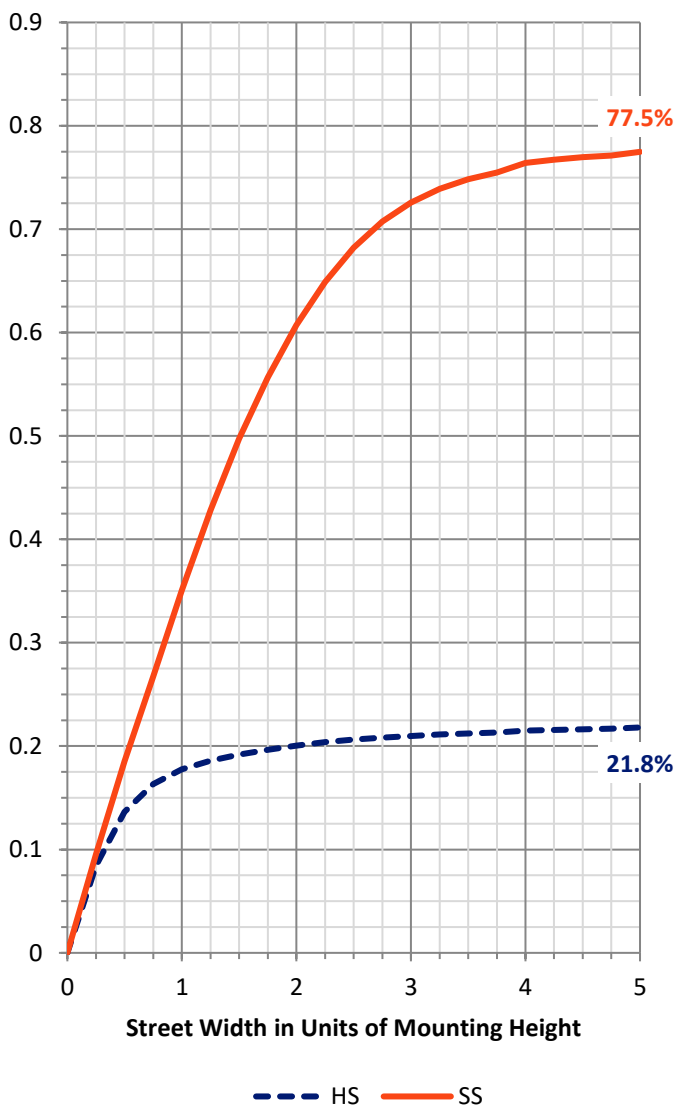
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7761.7	0.0	7761.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27105.7	0.0	27105.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	34867.4	0.0	34867.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.4	1.1
10°-20°	1222.5	3.5
20°-30°	2064.4	5.9
30°-40°	2856.8	8.2
40°-50°	4086.4	11.7
50°-60°	6590.8	18.9
60°-70°	9720.5	27.9
70°-80°	7058.8	20.2
80°-90°	899.8	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°	34867.4	100.0
0°-180°	34867.4	100.0

Coefficient of Utilization

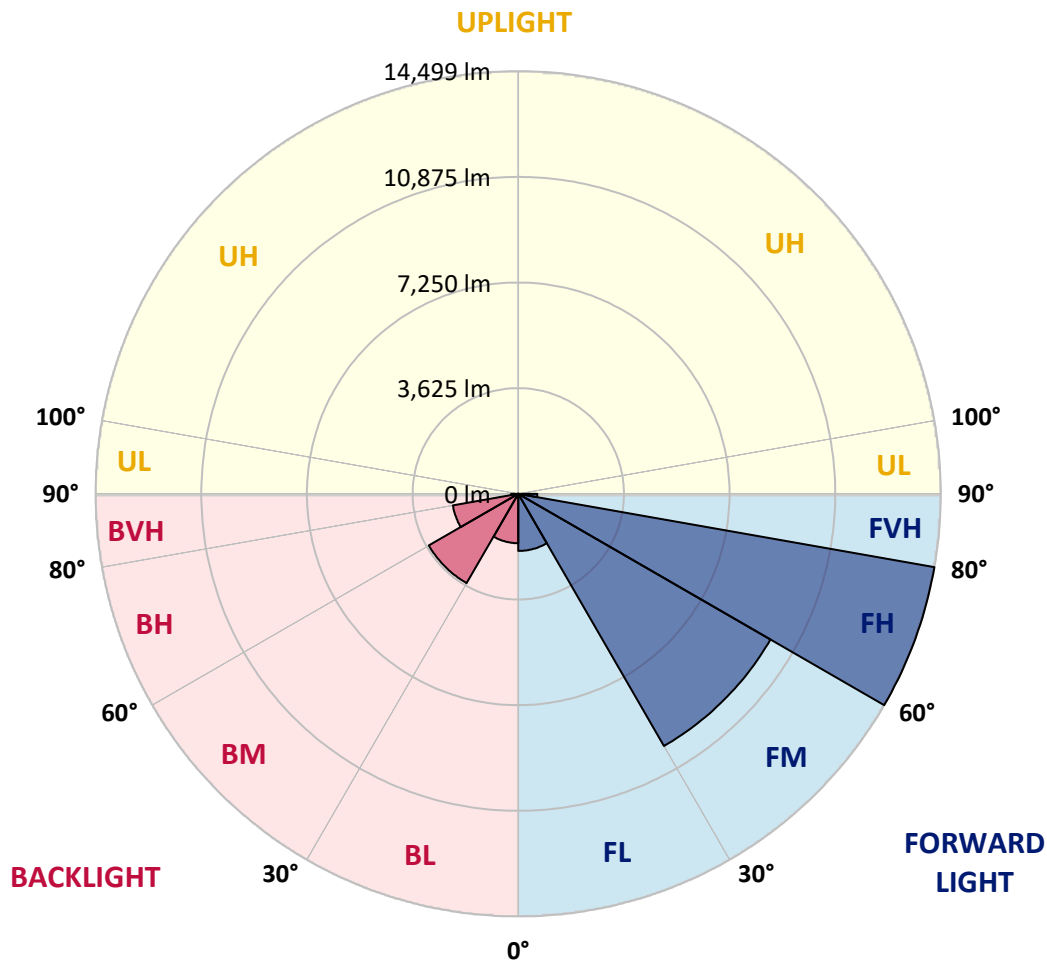


REPORT NUMBER: P574810
 CATALOG NUMBER: EPH-VN-04-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.6	5.6			
FM (30°-60°)	9991.8	28.7			
FH (60°-80°)	14499.4	41.6			G5
FVH (80°-90°)	654.9	1.9			G4/750
BL (0°-30°)	1694.7	4.9	B3/2500		
BM (30°-60°)	3542.2	10.2	B3/5000		
BH (60°-80°)	2279.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	244.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





REPORT NUMBER: P574810
 CATALOG NUMBER: EPH-VN-04-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7
2.5°	3782.5	3805.0	3782.5	3778.7	3741.1	3714.8	3737.3	3703.5	3665.9	3650.9
5°	4128.4	4132.1	4090.8	4094.5	4015.6	3932.9	3947.9	3846.4	3737.3	3696.0
7.5°	4481.8	4440.4	4380.3	4361.5	4237.4	4147.2	4135.9	4045.7	3876.5	3782.5
10°	4711.2	4726.2	4628.4	4545.7	4440.4	4331.4	4327.6	4158.5	4060.7	3921.6
12.5°	4914.2	4918.0	4835.2	4703.6	4572.0	4436.7	4455.5	4380.3	4214.9	4083.3
15°	5072.1	5049.6	4959.3	4839.0	4699.9	4594.6	4583.3	4519.4	4380.3	4271.3
17.5°	5117.2	5105.9	5015.7	4887.9	4752.5	4673.6	4703.6	4598.4	4542.0	4444.2
20°	5030.8	5004.4	4989.4	4846.5	4748.8	4741.2	4714.9	4737.5	4643.5	4553.2
22.5°	4872.8	4861.6	4854.0	4741.2	4696.1	4730.0	4775.1	4808.9	4793.9	4707.4
25°	4711.2	4763.8	4714.9	4662.3	4726.2	4812.7	4801.4	4910.4	4910.4	4884.1
27.5°	4824.0	4790.1	4752.5	4726.2	4748.8	4884.1	4876.6	5008.2	5057.1	5008.2
30°	5105.9	5072.1	4963.1	4846.5	4816.4	4963.1	5000.7	5117.2	5139.8	5019.5
32.5°	5636.1	5617.3	5444.3	5102.2	4918.0	5000.7	5019.5	5151.1	5132.3	5057.1
35°	6421.9	6358.0	6117.4	5538.3	5132.3	5049.6	5000.7	5105.9	5177.4	5139.8
37.5°	7282.9	7211.5	6914.5	6181.3	5519.5	5181.1	5143.5	5230.0	5312.7	5293.9
40°	8106.4	8106.4	7839.4	6985.9	6094.8	5500.7	5508.3	5410.5	5485.7	5451.9
42.5°	8918.5	8888.4	8779.4	7929.6	6711.4	6034.6	5914.3	5669.9	5805.3	5794.0
45°	9741.9	9719.4	9689.3	8809.5	7595.0	6756.5	6692.6	6252.7	6376.8	6324.2
47.5°	10399.9	10426.2	10426.2	9790.8	8538.7	7719.1	7625.1	6929.5	7166.4	7192.7
50°	10960.1	10971.4	10960.1	10727.0	9591.5	8820.7	8629.0	7922.1	8159.0	8365.8
52.5°	11734.7	11749.7	11697.1	11606.8	11020.3	9978.8	9764.5	8978.6	9463.7	9681.8
55°	12689.7	12576.9	12479.1	12546.8	12392.6	11253.4	11031.6	10069.0	10798.4	11088.0
57.5°	12866.4	12964.1	13212.3	13750.0	13971.8	12494.2	12366.3	11407.5	12306.2	12558.1
60°	13490.5	13328.9	13938.0	15103.5	15351.7	14110.9	13979.3	12873.9	13806.4	14069.6
62.5°	13900.4	13892.8	14795.2	16178.9	16742.9	15787.8	15520.9	14780.2	15426.9	15682.6
65°	13780.0	13889.1	15490.8	16810.5	17904.7	17694.1	17539.9	16419.5	17273.0	17250.4
67.5°	12682.2	12990.5	15050.9	17265.5	19634.2	20017.7	19968.8	18724.3	18773.2	18295.7
70°	11159.4	11054.1	13189.7	16791.7	20499.0	22773.7	22762.5	20438.8	20123.0	18525.0
72°	8572.6	8456.0	10211.9	14419.2	20044.0	23875.4	24213.8	21627.0	20108.0	17573.8
72.5°	7783.0	7681.5	9429.8	13573.3	19540.2	24161.1	24003.2	21672.1	19950.0	17126.4
75°	3583.2	3466.6	4711.2	8309.4	15242.6	21408.9	21946.6	20280.9	17423.4	13633.4
77.5°	1067.8	1034.0	1515.2	3353.8	8858.3	15772.8	15979.6	15302.8	12163.3	7467.2
80°	594.1	597.8	782.1	1255.8	3895.3	9117.8	9862.2	9452.4	5967.0	2466.5
82.5°	330.9	349.7	488.8	744.5	1789.7	4184.8	4504.4	4342.7	2158.2	1158.1
85°	173.0	180.5	255.7	398.5	1015.2	1323.5	1361.1	1458.8	1120.5	789.6
87.5°	67.7	67.7	94.0	165.4	376.0	409.8	368.5	447.4	642.9	511.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574810

CATALOG NUMBER: EPH-VN-04-735-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3590.7	0°	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7	3590.7
3617.0	2.5°	3647.1	3617.0	3613.3	3564.4	3579.4	3538.1	3541.8	3534.3	3538.1	3530.5
3628.3	5°	3628.3	3605.7	3541.8	3583.2	3545.6	3598.2	3639.6	3624.5	3635.8	3632.1
3688.5	7.5°	3654.6	3624.5	3617.0	3594.5	3628.3	3650.9	3684.7	3778.7	3771.2	3782.5
3801.3	10°	3733.6	3699.7	3677.2	3711.0	3692.2	3763.7	3801.3	3850.1	3936.6	3940.4
3962.9	12.5°	3887.7	3865.2	3820.1	3827.6	3891.5	3914.1	3936.6	3966.7	4023.1	4011.8
4072.0	15°	4064.5	4015.6	3989.3	3981.7	3996.8	4023.1	4019.3	4049.4	4079.5	4105.8
4252.5	17.5°	4192.3	4128.4	4135.9	4173.5	4169.7	4162.2	4113.3	4098.3	4113.3	4128.4
4414.1	20°	4323.9	4331.4	4275.0	4241.2	4226.1	4150.9	4113.3	4068.2	4023.1	4045.7
4549.5	22.5°	4489.3	4455.5	4372.8	4271.3	4196.1	4150.9	4034.4	3955.4	3955.4	3978.0
4752.5	25°	4677.3	4605.9	4463.0	4278.8	4184.8	3993.0	3910.3	3899.0	3868.9	3902.8
4857.8	27.5°	4824.0	4760.0	4564.5	4252.5	3993.0	3838.9	3790.0	3774.9	3823.8	3827.6
4891.6	30°	4884.1	4865.3	4579.6	4184.8	3797.5	3549.3	3519.3	3586.9	3639.6	3718.5
5004.4	32.5°	4963.1	4970.6	4602.1	4026.9	3541.8	3293.7	3248.6	3331.3	3481.7	3545.6
5090.9	35°	5094.7	5132.3	4583.3	3831.3	3271.1	3034.2	3026.7	3049.3	3195.9	3308.7
5192.4	37.5°	5324.0	5316.5	4579.6	3598.2	3056.8	2808.6	2748.5	2756.0	2853.8	2947.8
5470.7	40°	5632.3	5602.3	4568.3	3293.7	2778.6	2616.9	2515.4	2477.8	2470.3	2443.9
5820.3	42.5°	6053.4	5993.3	4564.5	2985.4	2526.7	2353.7	2282.3	2184.5	2113.1	1977.7
6437.0	45°	6640.0	6534.7	4466.8	2695.9	2278.5	2135.6	2026.6	1955.1	1801.0	1631.8
7219.0	47.5°	7546.1	7204.0	4470.5	2376.3	2037.9	1921.3	1846.1	1722.0	1556.6	1421.2
8606.4	50°	8880.9	8098.8	4342.7	2124.3	1842.4	1763.4	1684.4	1541.6	1383.6	1289.6
10114.1	52.5°	10602.9	9433.6	4338.9	1898.8	1688.2	1631.8	1545.3	1417.5	1300.9	1240.8
11952.7	55°	12655.8	11200.8	4474.3	1714.5	1530.3	1500.2	1462.6	1357.3	1244.5	1191.9
14001.9	57.5°	14757.6	12926.5	4692.4	1582.9	1394.9	1417.5	1391.2	1308.4	1218.2	1158.1
15893.1	60°	16626.3	14295.2	4252.5	1425.0	1274.6	1323.5	1361.1	1289.6	1240.8	1237.0
17953.5	62.5°	18036.3	14881.7	3233.5	1304.7	1210.7	1300.9	1402.4	1447.6	1425.0	1455.1
19295.8	65°	18551.4	14528.3	2225.9	1240.8	1161.8	1353.6	1579.2	1564.1	1432.5	1376.1
19893.6	67.5°	17829.5	13095.7	1650.6	1165.6	1128.0	1462.6	1680.7	1492.7	1293.4	1285.9
18179.1	70°	15332.9	11099.2	1346.0	1086.6	1071.6	1402.4	1635.6	1383.6	1218.2	1169.3
15017.1	72°	12215.9	8644.0	1180.6	1030.2	981.3	1252.0	1530.3	1297.2	1154.3	1094.1
14028.2	72.5°	11151.9	8012.4	1158.1	1003.9	962.5	1218.2	1477.6	1270.8	1139.3	1086.6
8403.4	75°	6117.4	4102.1	1018.9	921.2	812.1	1052.8	1368.6	1191.9	1075.3	1000.1
3117.0	77.5°	2274.7	1590.4	879.8	815.9	703.1	909.9	1244.5	1131.7	977.6	883.6
1037.7	80°	872.3	838.5	718.1	688.1	590.3	797.1	1146.8	1015.2	830.9	736.9
567.7	82.5°	530.1	488.8	545.2	537.7	451.2	725.7	1079.1	951.3	736.9	597.8
304.6	85°	289.5	289.5	379.8	364.7	315.8	579.0	815.9	631.7	466.2	383.5
150.4	87.5°	127.8	150.4	203.0	191.8	173.0	327.1	398.5	334.6	233.1	157.9
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



180°
3590.7
3511.7
3635.8
3805.0
3895.3
4053.2
4094.5
4120.9
4079.5
3966.7
3917.8
3887.7
3722.3
3594.5
3372.6
2936.5
2451.5
1985.2
1631.8
1406.2
1300.9
1218.2
1188.1
1150.5
1210.7
1458.8
1406.2
1263.3
1146.8
1067.8
1045.3
992.6
864.8
706.9
579.0
391.0
169.2
0.0

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