

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: P574689

Luminaire Tested: **EPH-VN-03-735-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574689
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

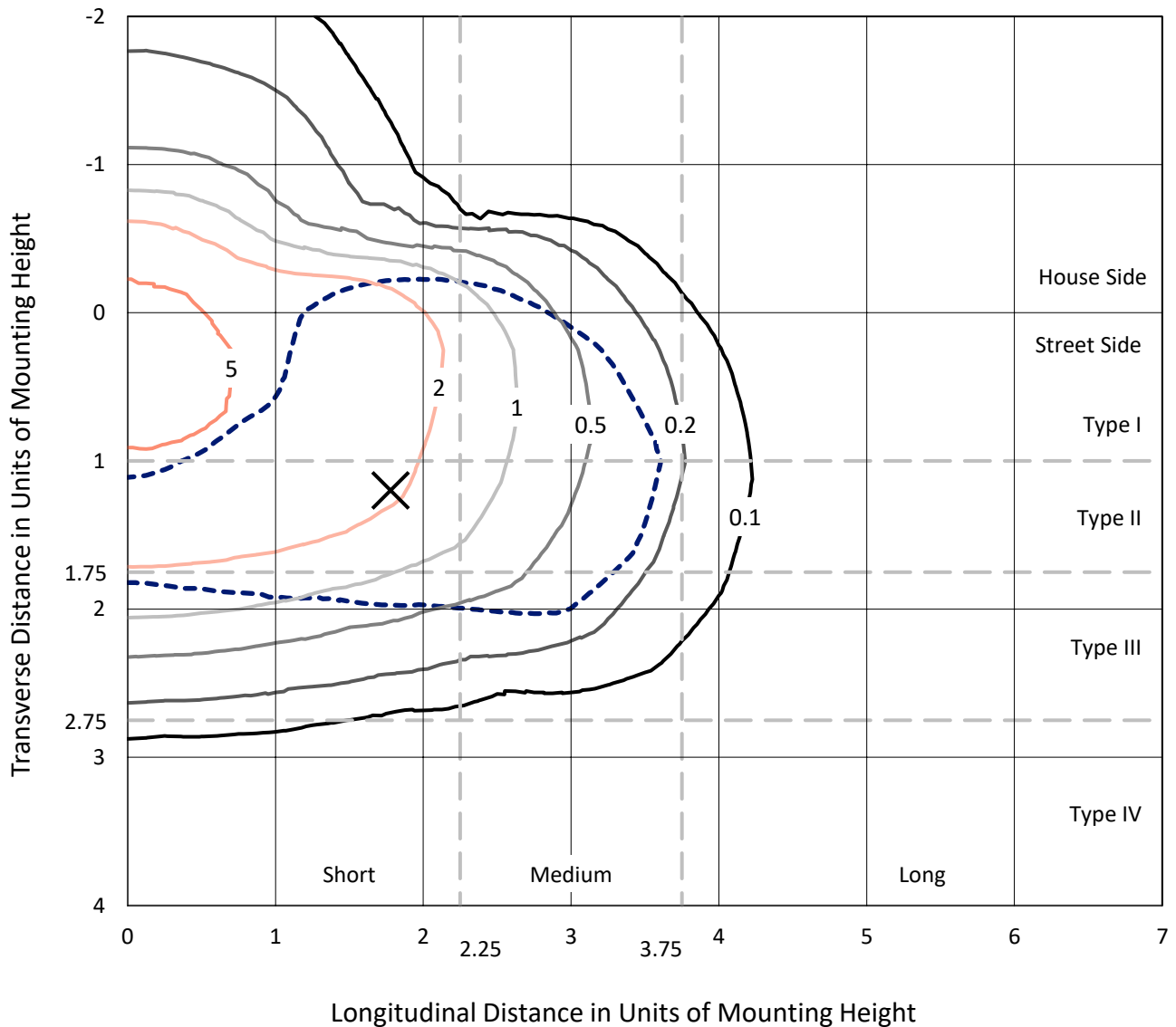
Lumens per Lamp: N/A
Luminaire Lumens: 27096.5 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

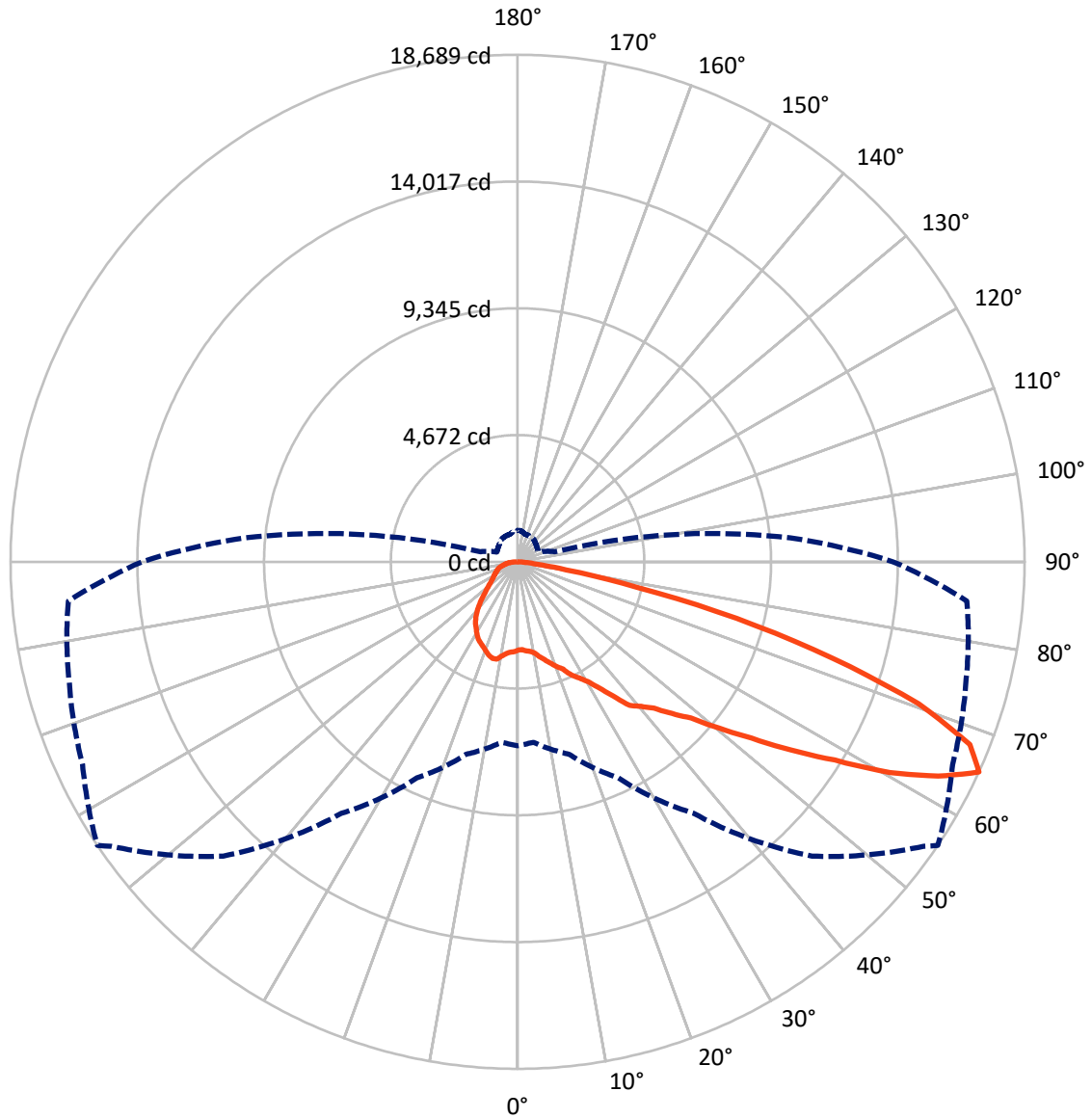
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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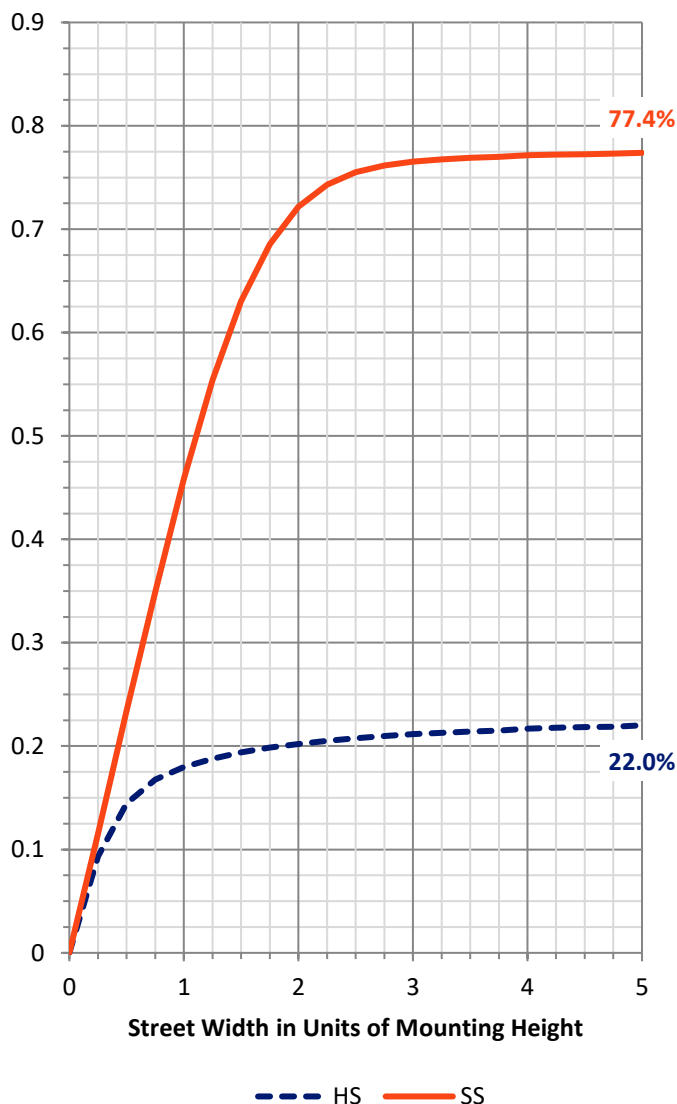
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6076.9	0.0	6076.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	21019.7	0.0	21019.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	27096.5	0.0	27096.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	1.2
10°-20°	1046.5	3.9
20°-30°	1863.4	6.9
30°-40°	2790.4	10.3
40°-50°	4134.4	15.3
50°-60°	6370.5	23.5
60°-70°	7212.2	26.6
70°-80°	2993.1	11.0
80°-90°	363.6	1.3
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°	27096.5	100.0
0°-180°	27096.5	100.0

Coefficient of Utilization



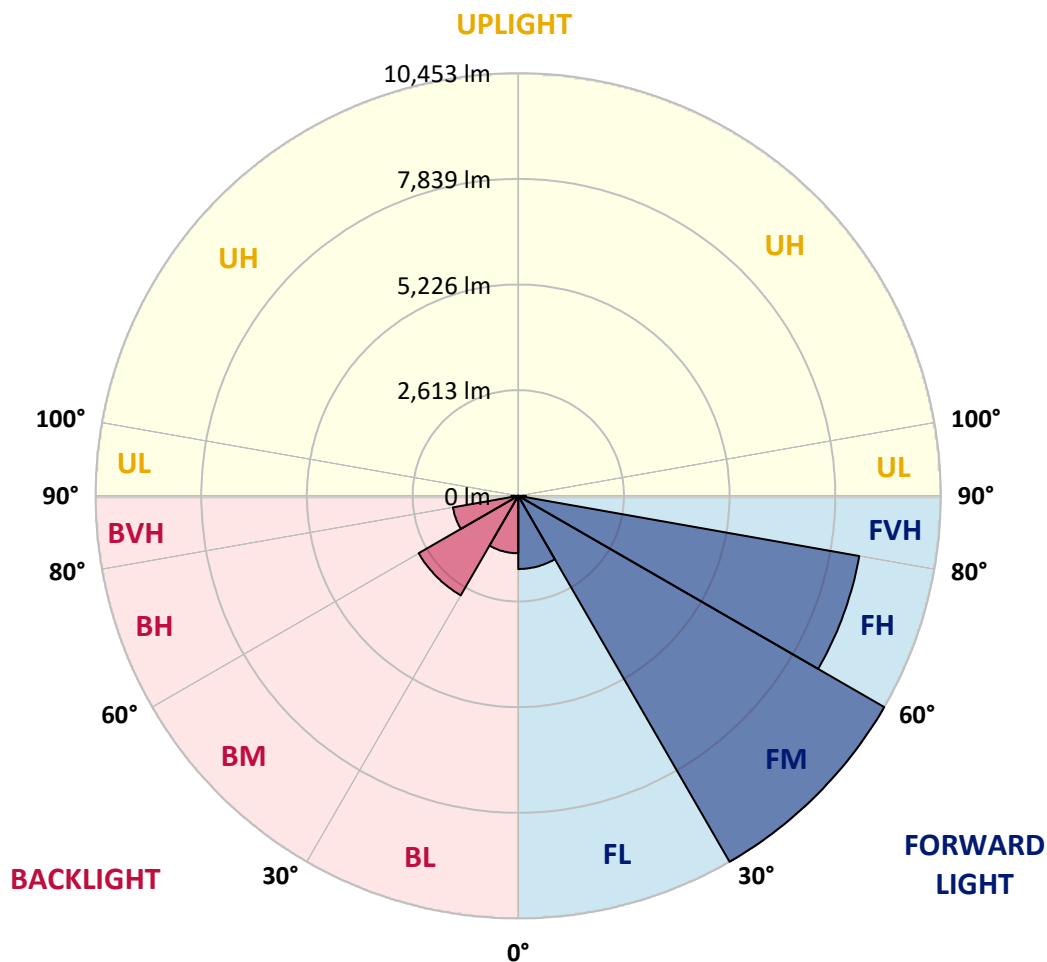
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.8	6.7			
FM (30°-60°)	10452.7	38.6			
FH (60°-80°)	8564.4	31.6			G4/12000
FVH (80°-90°)	191.8	0.7			G2/225
BL (0°-30°)	1421.4	5.2	B3/2500		
BM (30°-60°)	2842.7	10.5	B3/5000		
BH (60°-80°)	1641.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	171.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4
2.5°	3167.3	3184.3	3173.0	3207.0	3235.3	3235.3	3258.0	3241.0	3263.7	3294.9
5°	3272.2	3204.2	3241.0	3258.0	3249.5	3263.7	3241.0	3297.7	3260.9	3320.4
7.5°	3297.7	3323.2	3354.4	3326.1	3351.6	3337.4	3340.3	3331.8	3311.9	3360.1
10°	3484.9	3448.0	3518.9	3476.4	3470.7	3465.0	3453.7	3411.1	3459.4	3462.2
12.5°	3700.4	3666.3	3663.5	3629.5	3674.9	3592.6	3609.6	3586.9	3595.5	3606.8
15°	3856.3	3842.1	3907.4	3867.7	3808.1	3771.3	3811.0	3748.6	3779.8	3774.1
17.5°	4165.4	4162.6	4114.4	4049.1	4015.1	3961.2	3952.7	3927.2	3949.9	3938.6
20°	4380.9	4412.1	4420.6	4344.0	4213.6	4154.1	4139.9	4120.0	4145.5	4137.0
22.5°	4709.8	4661.6	4698.5	4565.2	4517.0	4375.2	4324.2	4295.8	4417.8	4386.6
25°	4919.6	4970.7	4933.8	4888.5	4780.7	4604.9	4568.0	4630.4	4678.6	4644.6
27.5°	5393.2	5342.1	5308.1	5172.0	5101.1	4916.8	4874.3	4851.6	4862.9	4882.8
30°	5753.3	5781.7	5705.1	5608.7	5430.0	5242.9	5143.7	5123.8	5084.1	5050.1
32.5°	6266.5	6224.0	6178.6	6116.2	5963.1	5716.4	5620.0	5546.3	5427.2	5268.4
35°	6513.2	6635.1	6601.1	6433.8	6317.6	6224.0	6195.6	6082.2	5983.0	5733.4
37.5°	6924.4	6975.4	6927.2	6873.3	6819.5	6720.2	6686.2	6717.4	6521.7	6110.6
40°	7190.9	7298.7	7397.9	7247.6	7236.3	7256.1	7046.3	7009.4	6606.8	6391.3
42.5°	7735.3	7780.7	7800.6	7794.9	7860.1	7860.1	7460.3	7380.9	7094.5	6918.7
45°	8455.6	8492.4	8563.3	8614.3	8540.6	8577.5	8007.5	7976.4	7721.2	7687.1
47.5°	9079.4	9167.3	9326.1	9476.4	9572.8	9448.0	8824.2	8603.0	8537.8	8741.9
50°	9623.8	9518.9	9890.3	10043.5	10466.0	10672.9	9725.9	9638.0	9533.1	9924.4
52.5°	9677.7	9819.5	10344.0	10650.3	11520.8	11903.6	10831.7	10794.9	10667.3	11118.1
55°	10063.3	10046.3	10573.7	11237.2	12272.2	12915.9	12272.2	12249.5	11971.6	12399.8
57.5°	9998.1	10171.1	10587.9	11515.1	12949.9	14001.9	13942.3	13786.4	13397.9	13746.7
60°	9776.9	9822.3	10329.8	11506.6	13344.0	15116.2	15745.7	15776.9	14983.0	15260.8
62.5°	8523.6	8628.5	9272.2	10602.1	13063.3	15884.7	17506.6	17396.0	16760.8	16443.3
65°	6779.8	6674.8	7344.0	8781.6	11316.6	15340.2	18277.8	18689.0	17690.9	17109.6
67.5°	4156.9	4131.4	4775.0	6042.5	8466.9	13054.8	17662.5	17982.9	17432.9	16967.8
70°	2140.8	2075.6	2478.3	3371.4	5322.3	9578.4	15371.4	15686.2	16210.7	15218.3
72.5°	998.1	983.9	1199.4	1658.8	2710.8	5631.4	11903.6	12130.4	13236.3	12830.8
75°	587.0	595.5	717.4	867.7	1321.4	2654.1	7899.8	8339.3	9538.7	9246.7
77.5°	439.5	439.5	510.4	604.0	771.3	1026.5	3898.9	4480.1	5577.5	5016.1
80°	323.3	328.9	391.3	453.7	535.9	530.2	1548.2	1814.7	2557.7	2186.2
82.5°	252.4	260.9	303.4	337.4	377.1	320.4	635.2	683.4	1052.0	836.5
85°	175.8	181.5	238.2	229.7	229.7	178.6	263.7	277.9	416.8	397.0
87.5°	42.5	48.2	116.3	127.6	96.4	53.9	82.2	93.6	150.3	173.0
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°
3252.4	0°	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4	3252.4
3309.1	2.5°	3266.5	3277.9	3326.1	3300.6	3314.7	3255.2	3303.4	3263.7	3297.7	3280.7
3334.6	5°	3357.3	3331.8	3360.1	3340.3	3340.3	3362.9	3397.0	3371.4	3422.5	3399.8
3354.4	7.5°	3394.1	3397.0	3414.0	3416.8	3402.6	3473.5	3476.4	3467.9	3516.1	3504.7
3490.5	10°	3484.9	3487.7	3518.9	3535.9	3521.7	3547.3	3518.9	3496.2	3493.4	3482.0
3598.3	12.5°	3629.5	3657.8	3652.2	3666.3	3669.2	3561.4	3496.2	3385.6	3371.4	3385.6
3757.1	15°	3762.8	3751.4	3757.1	3785.4	3666.3	3493.4	3377.1	3283.5	3289.2	3292.1
3964.1	17.5°	3921.5	3930.0	3938.6	3808.1	3589.8	3385.6	3283.5	3283.5	3255.2	3266.5
4108.7	20°	4103.0	4069.0	3995.3	3811.0	3456.5	3260.9	3229.7	3229.7	3195.6	3173.0
4264.6	22.5°	4244.8	4176.7	4066.2	3723.1	3337.4	3212.7	3136.1	3082.2	3042.5	2997.2
4437.6	25°	4335.5	4298.7	4083.2	3632.3	3249.5	3085.1	2971.6	2889.4	2838.4	2778.8
4573.7	27.5°	4474.5	4403.6	4131.4	3527.4	3153.1	2957.5	2781.7	2654.1	2557.7	2495.3
4780.7	30°	4661.6	4559.5	4097.3	3377.1	3005.7	2736.3	2529.3	2364.8	2254.2	2203.2
4976.4	32.5°	4814.7	4681.5	4069.0	3241.0	2841.2	2512.3	2237.2	2069.9	2007.6	1942.3
5305.3	35°	5106.8	4843.1	4049.1	3164.5	2693.8	2288.3	1999.1	1854.4	1775.0	1678.6
5500.9	37.5°	5330.8	5123.8	4000.9	3005.7	2503.8	2069.9	1817.6	1687.1	1568.0	1466.0
5954.6	40°	5682.4	5515.1	4003.8	2781.7	2279.8	1882.8	1675.8	1539.7	1389.4	1301.5
6626.6	42.5°	6343.1	5900.7	4020.8	2603.0	2027.4	1729.7	1548.2	1386.6	1236.3	1162.6
7392.2	45°	7154.0	6431.0	3915.9	2441.4	1769.4	1585.1	1395.1	1233.5	1137.0	1083.2
8432.9	47.5°	8086.9	6949.9	3774.1	2138.0	1553.9	1431.9	1253.3	1159.7	1088.8	1057.7
9774.1	50°	9130.4	7692.8	3734.4	1860.1	1386.6	1301.5	1185.3	1114.4	1066.2	1029.3
11285.4	52.5°	10474.5	8557.6	3655.0	1573.7	1242.0	1196.6	1159.7	1111.5	1069.0	1037.8
12694.7	55°	11759.0	9516.0	3569.9	1338.4	1139.9	1145.6	1165.4	1122.9	1086.0	1037.8
14274.1	57.5°	13205.1	10494.3	3255.2	1165.4	1063.3	1120.0	1159.7	1111.5	1074.7	1037.8
15890.3	60°	14098.3	11044.4	2639.9	1015.1	995.3	1071.8	1125.7	1074.7	1035.0	1049.1
16633.2	62.5°	14461.2	10755.2	1990.5	921.5	947.1	1006.6	1071.8	1052.0	1023.6	1077.5
16624.7	65°	13843.1	10088.8	1423.4	842.2	881.9	941.4	1023.6	1046.3	1054.8	1159.7
15269.3	67.5°	12317.6	8784.5	1046.3	776.9	813.8	901.7	1057.7	1094.5	1088.8	1219.3
12813.8	70°	9856.3	6870.5	816.6	723.1	788.3	932.9	1105.9	1105.9	1066.2	1219.3
9774.1	72.5°	7171.1	4843.1	703.2	660.7	723.1	856.3	1100.2	1097.4	1046.3	1114.4
6224.0	75°	4341.2	2818.5	621.0	598.3	621.0	734.4	1052.0	1035.0	964.1	958.4
2994.3	77.5°	2163.5	1417.8	507.6	530.2	541.6	615.3	924.4	949.9	853.5	830.8
1182.4	80°	913.0	618.1	422.5	456.5	456.5	518.9	768.4	785.4	708.9	666.4
467.9	82.5°	416.8	354.4	360.1	397.0	371.5	402.6	609.6	629.5	575.6	504.7
198.5	85°	175.8	201.3	275.0	311.9	275.0	260.9	419.7	442.3	374.3	311.9
85.1	87.5°	79.4	110.6	173.0	226.8	138.9	121.9	224.0	232.5	187.1	138.9
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°
3252.4
3249.5
3368.6
3487.7
3482.0
3391.3
3331.8
3269.4
3138.9
2971.6
2790.2
2523.6
2231.6
1939.5
1670.1
1468.8
1310.0
1168.2
1094.5
1052.0
1035.0
1035.0
1035.0
1035.0
1037.8
1063.3
1159.7
1227.8
1193.8
1074.7
947.1
816.6
652.2
493.4
314.7
130.4
0.0

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