

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: P574690

Luminaire Tested: **EPH-VN-04-735-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574690
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-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

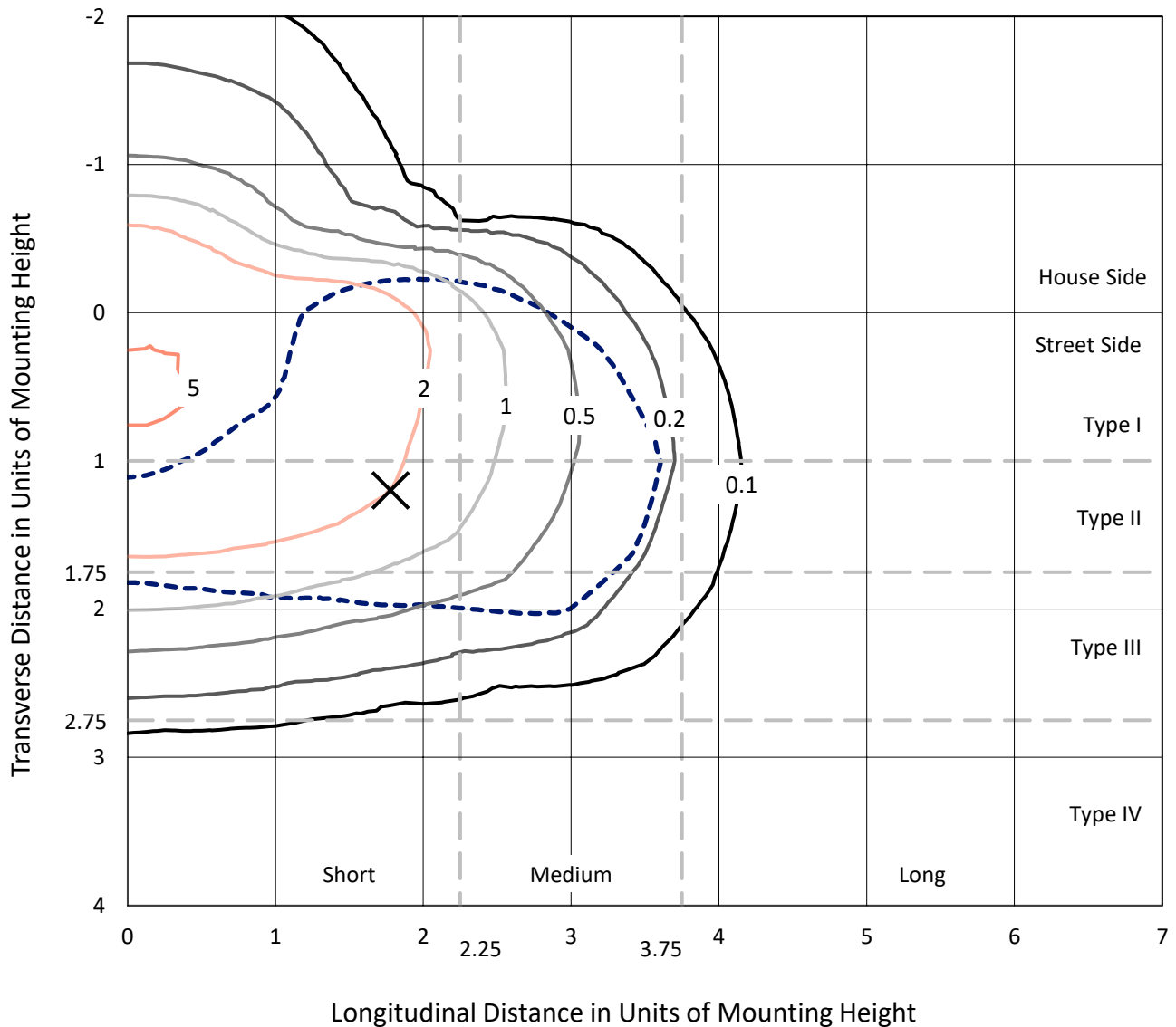
Lumens per Lamp: N/A
Luminaire Lumens: 35134.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

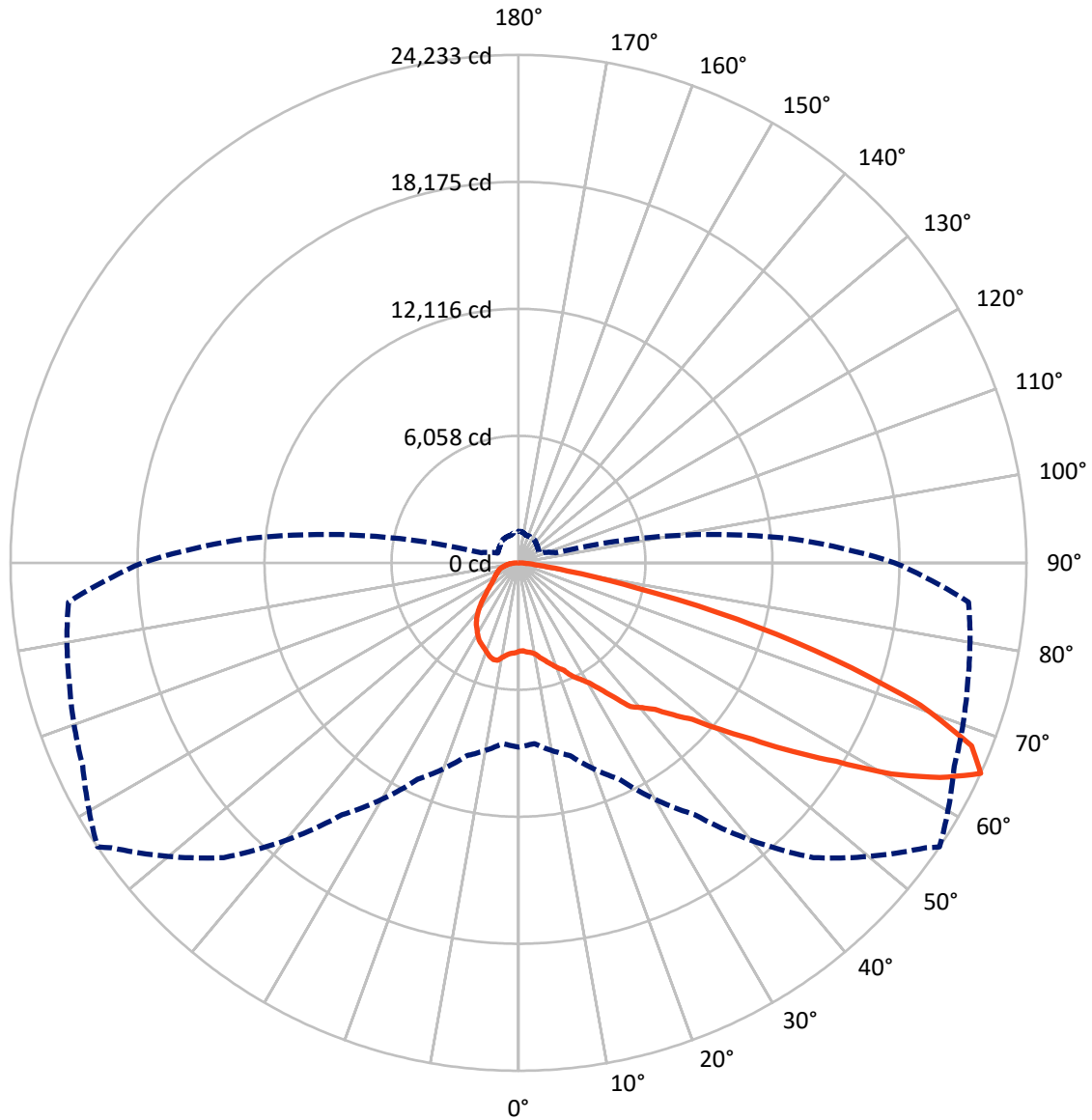
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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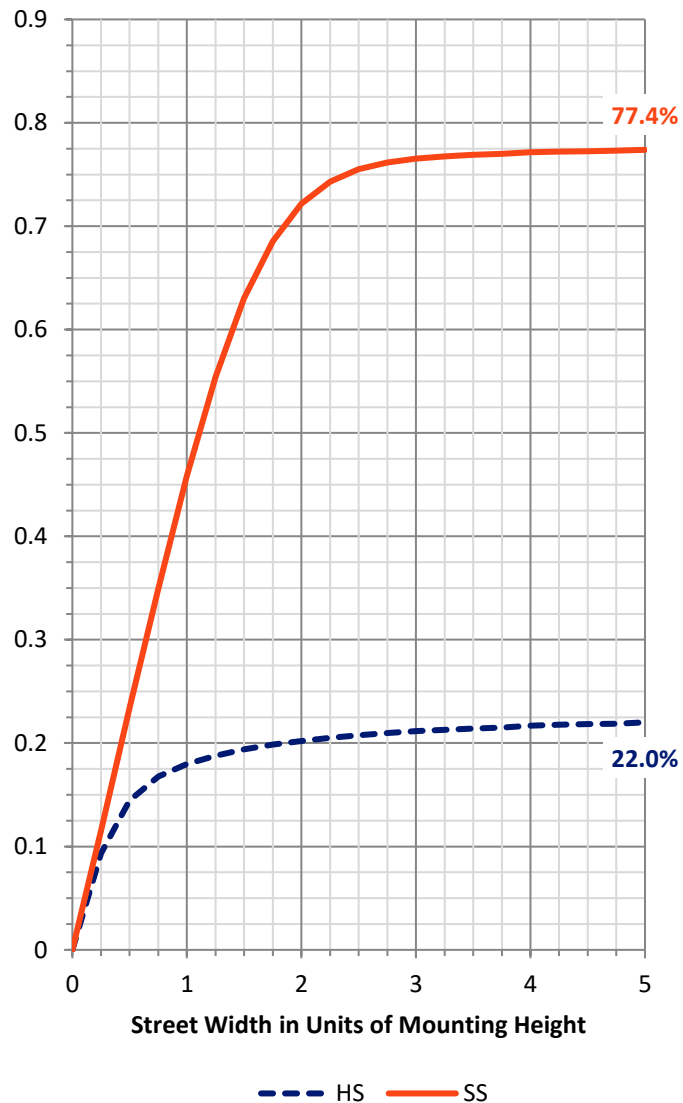
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7879.5	0.0	7879.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	27254.9	0.0	27254.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	35134.4	0.0	35134.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.2
10°-20°	1357.0	3.9
20°-30°	2416.2	6.9
30°-40°	3618.2	10.3
40°-50°	5360.8	15.3
50°-60°	8260.2	23.5
60°-70°	9351.6	26.6
70°-80°	3881.0	11.0
80°-90°	471.5	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°	35134.4	100.0
0°-180°	35134.4	100.0

Coefficient of Utilization



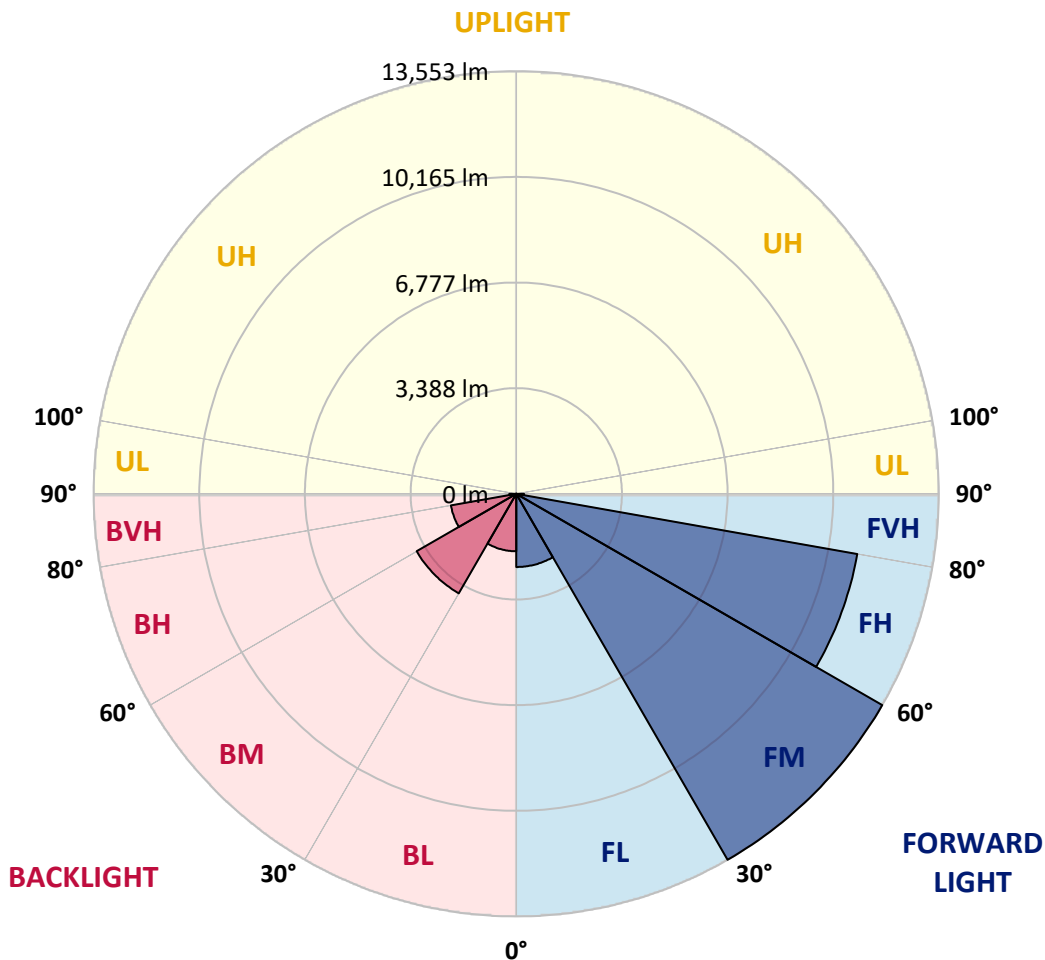
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2348.0	6.7			
FM (30°-60°)	13553.3	38.6			
FH (60°-80°)	11104.9	31.6			G4/12000
FVH (80°-90°)	248.7	0.7			G3/500
BL (0°-30°)	1843.1	5.2	B3/2500		
BM (30°-60°)	3685.9	10.5	B3/5000		
BH (60°-80°)	2127.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	222.8	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°	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1
2.5°	4106.8	4128.9	4114.2	4158.3	4195.1	4195.1	4224.5	4202.4	4231.8	4272.3
5°	4242.9	4154.6	4202.4	4224.5	4213.5	4231.8	4202.4	4276.0	4228.2	4305.4
7.5°	4276.0	4309.0	4349.5	4312.7	4345.8	4327.4	4331.1	4320.1	4294.3	4356.8
10°	4518.6	4470.8	4562.7	4507.6	4500.2	4492.9	4478.2	4423.0	4485.5	4489.2
12.5°	4798.0	4753.9	4750.2	4706.1	4765.0	4658.3	4680.4	4651.0	4662.0	4676.7
15°	5000.3	4981.9	5066.4	5015.0	4937.8	4890.0	4941.4	4860.5	4901.0	4893.6
17.5°	5401.0	5397.3	5334.8	5250.3	5206.2	5136.3	5125.3	5092.2	5121.6	5106.9
20°	5680.4	5720.9	5731.9	5632.6	5463.5	5386.3	5367.9	5342.2	5375.3	5364.2
22.5°	6106.9	6044.4	6092.2	5919.4	5856.9	5673.1	5606.9	5570.1	5728.2	5687.8
25°	6379.0	6445.2	6397.4	6338.6	6198.8	5970.9	5923.1	6004.0	6066.5	6022.4
27.5°	6993.0	6926.8	6882.7	6706.2	6614.3	6375.3	6320.2	6290.8	6305.5	6331.2
30°	7459.9	7496.7	7397.4	7272.4	7040.8	6798.1	6669.5	6643.7	6592.3	6548.1
32.5°	8125.4	8070.3	8011.4	7930.6	7732.0	7412.1	7287.1	7191.5	7037.1	6831.2
35°	8445.3	8603.4	8559.3	8342.3	8191.6	8070.3	8033.5	7886.4	7757.8	7434.2
37.5°	8978.4	9044.6	8982.1	8912.2	8842.4	8713.7	8669.6	8710.0	8456.3	7923.2
40°	9324.0	9463.7	9592.4	9397.5	9382.8	9408.6	9136.5	9088.7	8566.6	8287.2
42.5°	10029.9	10088.8	10114.5	10107.1	10191.7	10191.7	9673.3	9570.3	9199.0	8971.1
45°	10963.8	11011.6	11103.5	11169.7	11074.1	11121.9	10382.9	10342.4	10011.5	9967.4
47.5°	11772.7	11886.6	12092.5	12287.4	12412.4	12250.6	11441.8	11155.0	11070.4	11335.1
50°	12478.6	12342.5	12824.2	13022.7	13570.6	13838.9	12610.9	12497.0	12360.9	12868.3
52.5°	12548.4	12732.3	13412.5	13809.5	14938.3	15434.6	14044.8	13997.0	13831.6	14416.2
55°	13048.5	13026.4	13710.3	14570.6	15912.6	16747.2	15912.6	15883.2	15522.9	16078.0
57.5°	12963.9	13188.2	13728.6	14930.9	16791.3	18155.3	18078.1	17875.9	17372.2	17824.4
60°	12677.1	12735.9	13394.1	14919.9	17302.4	19600.3	20416.5	20456.9	19427.5	19787.8
62.5°	11052.0	11188.1	12022.7	13747.0	16938.4	20596.6	22699.7	22556.3	21732.7	21321.0
65°	8790.9	8654.9	9522.5	11386.6	14673.5	19890.7	23699.7	24232.9	22938.7	22185.0
67.5°	5390.0	5356.9	6191.5	7835.0	10978.5	16927.3	22901.9	23317.4	22604.1	22001.1
70°	2775.9	2691.3	3213.4	4371.5	6901.1	12419.8	19931.2	20339.3	21019.5	19732.6
72.5°	1294.2	1275.8	1555.2	2150.8	3514.9	7301.8	15434.6	15728.8	17162.6	16636.9
75°	761.1	772.1	930.2	1125.1	1713.3	3441.4	10243.2	10813.1	12368.3	11989.6
77.5°	569.9	569.9	661.8	783.1	1000.1	1331.0	5055.4	5809.1	7232.0	6504.0
80°	419.1	426.5	507.4	588.3	694.9	687.5	2007.5	2353.1	3316.3	2834.7
82.5°	327.2	338.3	393.4	437.5	489.0	415.5	823.6	886.1	1364.0	1084.6
85°	228.0	235.3	308.8	297.8	297.8	231.6	341.9	360.3	540.5	514.7
87.5°	55.1	62.5	150.7	165.4	125.0	69.9	106.6	121.3	194.9	224.3
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°
4217.1	0°	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1	4217.1
4290.7	2.5°	4235.5	4250.2	4312.7	4279.6	4298.0	4220.8	4283.3	4231.8	4276.0	4253.9
4323.8	5°	4353.2	4320.1	4356.8	4331.1	4331.1	4360.5	4404.6	4371.5	4437.7	4408.3
4349.5	7.5°	4401.0	4404.6	4426.7	4430.4	4412.0	4503.9	4507.6	4496.6	4559.1	4544.4
4526.0	10°	4518.6	4522.3	4562.7	4584.8	4566.4	4599.5	4562.7	4533.3	4529.6	4514.9
4665.7	12.5°	4706.1	4742.9	4735.5	4753.9	4757.6	4617.9	4533.3	4389.9	4371.5	4389.9
4871.6	15°	4878.9	4864.2	4871.6	4908.3	4753.9	4529.6	4378.9	4257.6	4264.9	4268.6
5140.0	17.5°	5084.8	5095.9	5106.9	4937.8	4654.7	4389.9	4257.6	4257.6	4220.8	4235.5
5327.5	20°	5320.1	5276.0	5180.4	4941.4	4481.8	4228.2	4187.7	4187.7	4143.6	4114.2
5529.7	22.5°	5504.0	5415.7	5272.3	4827.5	4327.4	4165.7	4066.4	3996.5	3945.1	3886.2
5754.0	25°	5621.6	5573.8	5294.4	4709.8	4213.5	4000.2	3853.1	3746.5	3680.3	3603.1
5930.5	27.5°	5801.8	5709.9	5356.9	4573.8	4088.4	3834.8	3606.8	3441.4	3316.3	3235.5
6198.8	30°	6044.4	5912.1	5312.8	4378.9	3897.3	3548.0	3279.6	3066.3	2922.9	2856.8
6452.5	32.5°	6243.0	6070.2	5276.0	4202.4	3684.0	3257.5	2900.9	2684.0	2603.1	2518.5
6879.0	35°	6621.7	6279.7	5250.3	4103.2	3492.8	2967.1	2592.0	2404.5	2301.6	2176.6
7132.7	37.5°	6912.1	6643.7	5187.8	3897.3	3246.5	2684.0	2356.7	2187.6	2033.2	1900.8
7721.0	40°	7368.0	7151.1	5191.4	3606.8	2956.0	2441.3	2172.9	1996.4	1801.6	1687.6
8592.4	42.5°	8224.7	7651.1	5213.5	3375.2	2628.8	2242.8	2007.5	1797.9	1603.0	1507.4
9585.1	45°	9276.2	8338.7	5077.5	3165.6	2294.2	2055.3	1808.9	1599.3	1474.3	1404.5
10934.4	47.5°	10485.8	9011.5	4893.6	2772.2	2014.8	1856.7	1625.1	1503.8	1411.8	1371.4
12673.4	50°	11838.8	9974.8	4842.2	2411.9	1797.9	1687.6	1536.8	1444.9	1382.4	1334.6
14633.1	52.5°	13581.6	11096.2	4739.2	2040.5	1610.4	1551.6	1503.8	1441.3	1386.1	1345.7
16460.4	55°	15247.1	12338.9	4628.9	1735.4	1478.0	1485.4	1511.1	1456.0	1408.2	1345.7
18508.3	57.5°	17122.2	13607.3	4220.8	1511.1	1378.7	1452.3	1503.8	1441.3	1393.5	1345.7
20604.0	60°	18280.4	14320.6	3423.0	1316.2	1290.5	1389.8	1459.6	1393.5	1342.0	1360.4
21567.3	62.5°	18751.0	13945.6	2581.0	1194.9	1228.0	1305.2	1389.8	1364.0	1327.3	1397.1
21556.3	65°	17949.5	13081.6	1845.7	1092.0	1143.4	1220.7	1327.3	1356.7	1367.7	1503.8
19798.8	67.5°	15971.4	11390.3	1356.7	1007.4	1055.2	1169.2	1371.4	1419.2	1411.8	1581.0
16614.8	70°	12780.1	8908.5	1058.9	937.5	1022.1	1209.6	1433.9	1433.9	1382.4	1581.0
12673.4	72.5°	9298.3	6279.7	911.8	856.7	937.5	1110.4	1426.5	1422.9	1356.7	1444.9
8070.3	75°	5629.0	3654.6	805.2	775.8	805.2	952.3	1364.0	1342.0	1250.1	1242.7
3882.6	77.5°	2805.3	1838.3	658.1	687.5	702.2	797.8	1198.6	1231.7	1106.7	1077.3
1533.2	80°	1183.9	801.5	547.8	591.9	591.9	672.8	996.4	1018.4	919.2	864.0
606.6	82.5°	540.5	459.6	466.9	514.7	481.6	522.1	790.5	816.2	746.4	654.4
257.4	85°	228.0	261.0	356.6	404.4	356.6	338.3	544.1	573.6	485.3	404.4
110.3	87.5°	102.9	143.4	224.3	294.1	180.2	158.1	290.5	301.5	242.7	180.2
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>
4217.1
4213.5
4367.9
4522.3
4514.9
4397.3
4320.1
4239.2
4070.1
3853.1
3617.8
3272.2
2893.5
2514.8
2165.6
1904.5
1698.6
1514.8
1419.2
1364.0
1342.0
1342.0
1342.0
1342.0
1345.7
1378.7
1503.8
1592.0
1547.9
1393.5
1228.0
1058.9
845.6
639.7
408.1
169.1
0.0

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