

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: P574804

Luminaire Tested: **EPH-VN-04-730-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574804
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

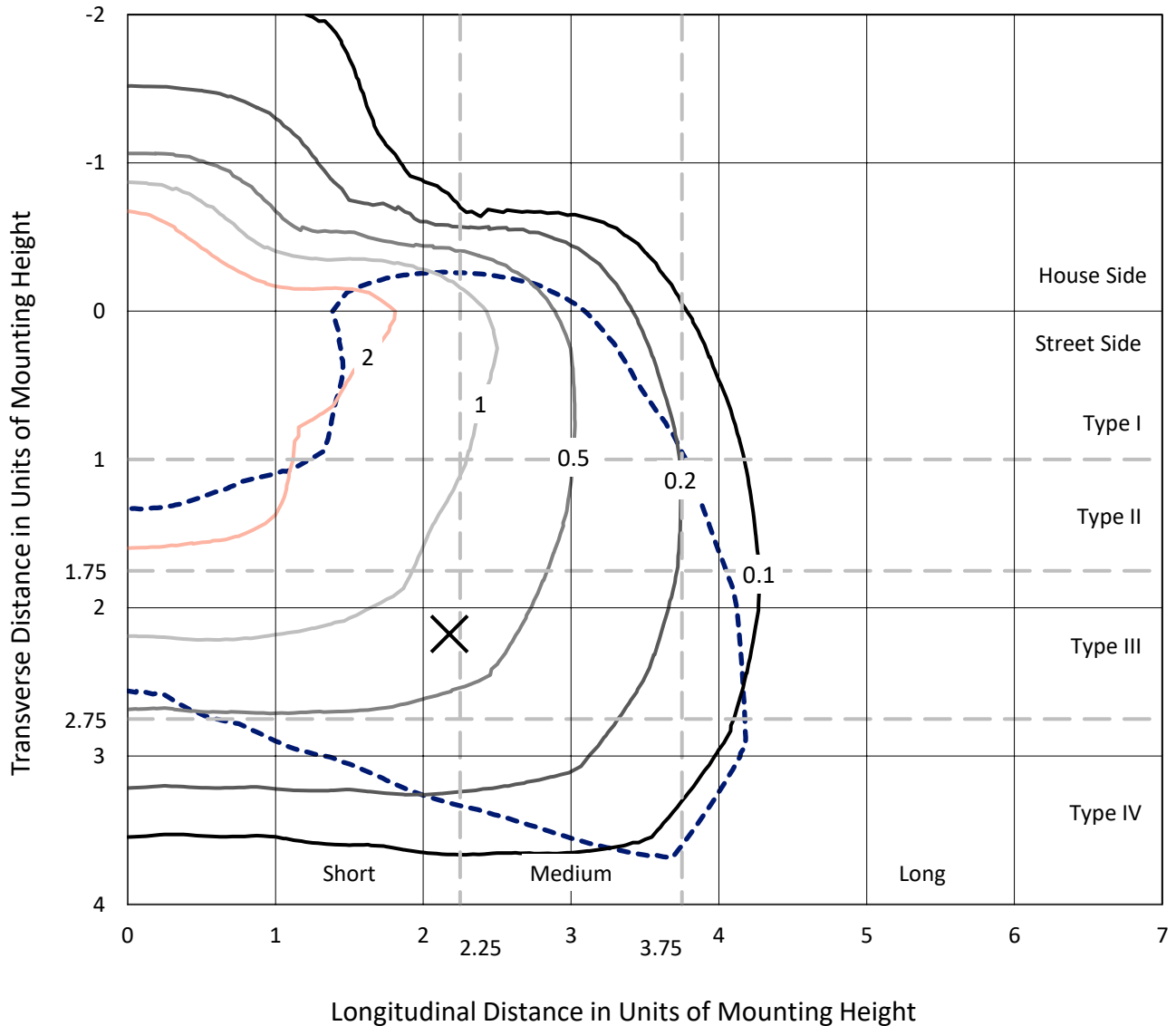
Lumens per Lamp: N/A
Luminaire Lumens: 32191.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

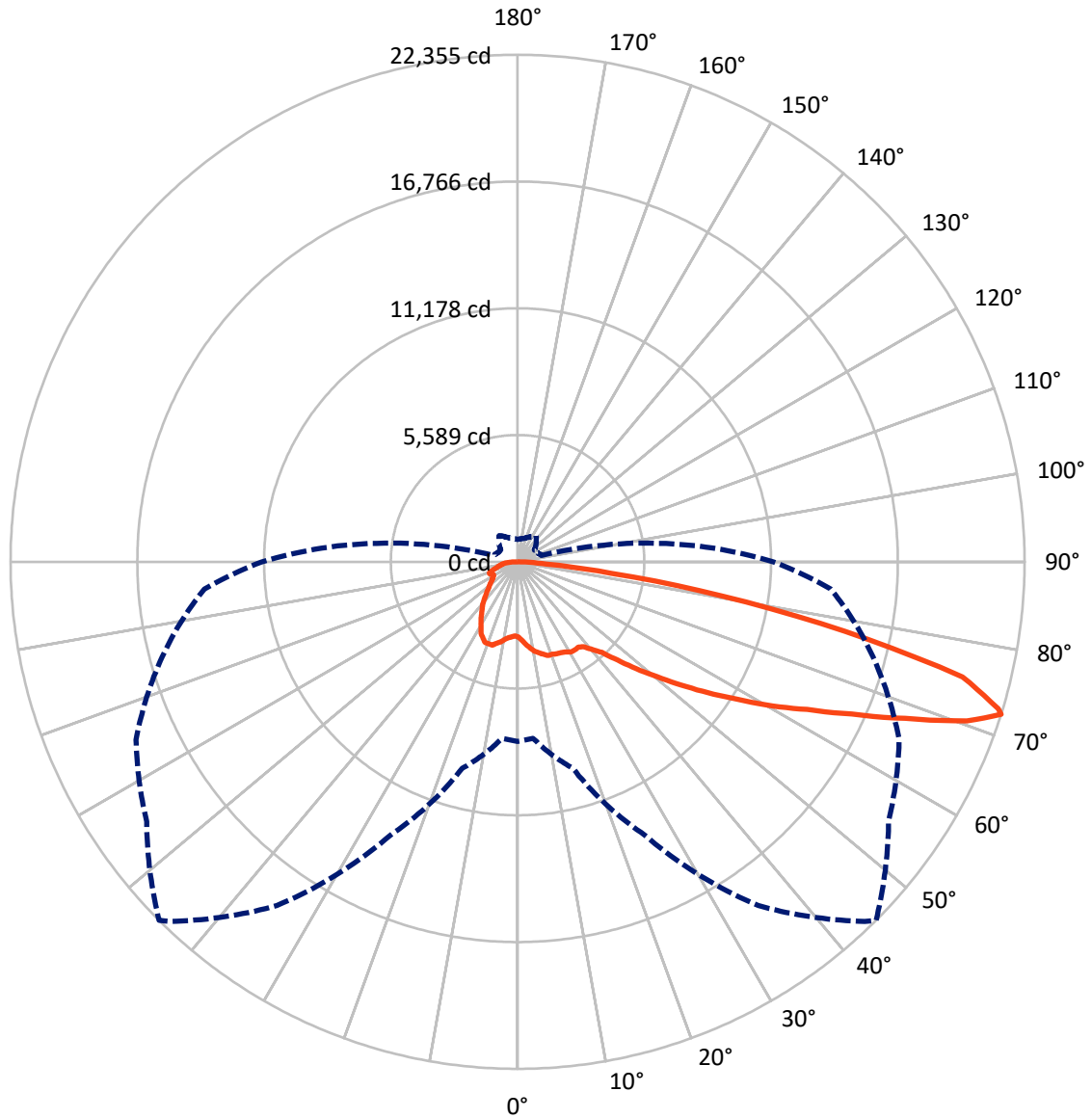
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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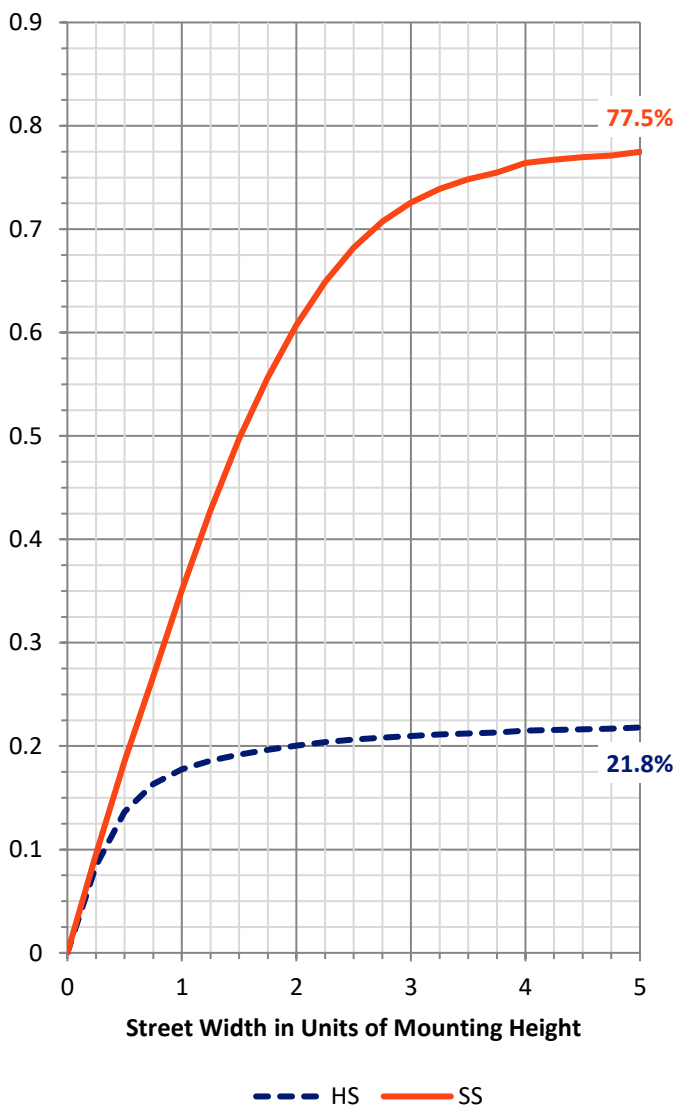
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7166.0	0.0	7166.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25025.3	0.0	25025.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	32191.2	0.0	32191.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	1.1
10°-20°	1128.6	3.5
20°-30°	1905.9	5.9
30°-40°	2637.5	8.2
40°-50°	3772.7	11.7
50°-60°	6085.0	18.9
60°-70°	8974.5	27.9
70°-80°	6517.0	20.2
80°-90°	830.8	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°	32191.2	100.0
0°-180°	32191.2	100.0

Coefficient of Utilization



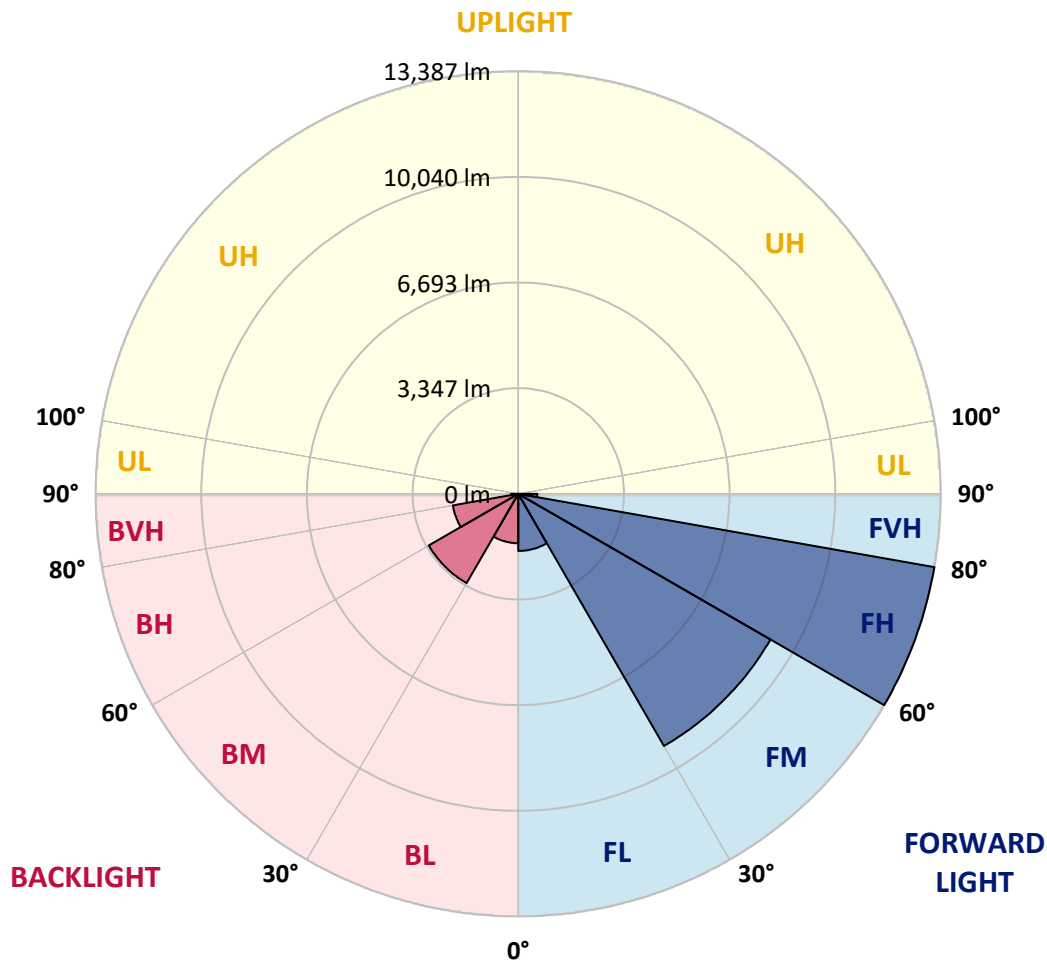
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.2	5.6			
FM (30°-60°)	9224.9	28.7			
FH (60°-80°)	13386.6	41.6			G5
FVH (80°-90°)	604.7	1.9			G4/750
BL (0°-30°)	1564.6	4.9	B3/2500		
BM (30°-60°)	3270.3	10.2	B3/5000		
BH (60°-80°)	2104.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	226.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
2.5°	3492.2	3513.0	3492.2	3488.7	3454.0	3429.7	3450.5	3419.3	3384.5	3370.7
5°	3811.5	3815.0	3776.8	3780.3	3707.4	3631.0	3644.9	3551.2	3450.5	3412.3
7.5°	4137.8	4099.6	4044.1	4026.7	3912.2	3828.9	3818.5	3735.1	3578.9	3492.2
10°	4349.6	4363.5	4273.2	4196.8	4099.6	3999.0	3995.5	3839.3	3749.0	3620.6
12.5°	4537.0	4540.5	4464.1	4342.6	4221.1	4096.2	4113.5	4044.1	3891.4	3769.9
15°	4682.8	4662.0	4578.7	4467.6	4339.2	4242.0	4231.5	4172.5	4044.1	3943.4
17.5°	4724.5	4714.1	4630.7	4512.7	4387.8	4314.9	4342.6	4245.4	4193.4	4103.1
20°	4644.6	4620.3	4606.4	4474.5	4384.3	4377.3	4353.0	4373.9	4287.1	4203.8
22.5°	4498.8	4488.4	4481.5	4377.3	4335.7	4366.9	4408.6	4439.8	4425.9	4346.1
25°	4349.6	4398.2	4353.0	4304.4	4363.5	4443.3	4432.9	4533.6	4533.6	4509.3
27.5°	4453.7	4422.5	4387.8	4363.5	4384.3	4509.3	4502.3	4623.8	4668.9	4623.8
30°	4714.1	4682.8	4582.1	4474.5	4446.8	4582.1	4616.9	4724.5	4745.3	4634.2
32.5°	5203.5	5186.2	5026.5	4710.6	4540.5	4616.9	4634.2	4755.7	4738.4	4668.9
35°	5929.0	5870.0	5647.8	5113.3	4738.4	4662.0	4616.9	4714.1	4780.0	4745.3
37.5°	6724.0	6658.0	6383.8	5706.9	5095.9	4783.5	4748.8	4828.6	4905.0	4887.6
40°	7484.2	7484.2	7237.7	6449.7	5627.0	5078.5	5085.5	4995.2	5064.7	5033.4
42.5°	8234.0	8206.2	8105.5	7321.0	6196.3	5571.5	5460.4	5234.8	5359.7	5349.3
45°	8994.2	8973.4	8945.6	8133.3	7012.1	6238.0	6179.0	5772.8	5887.4	5838.8
47.5°	9601.7	9626.0	9626.0	9039.3	7883.4	7126.6	7039.8	6397.7	6616.3	6640.6
50°	10118.9	10129.3	10118.9	9903.7	8855.4	8143.7	7966.7	7314.1	7532.8	7723.7
52.5°	10834.0	10847.9	10799.3	10716.0	10174.5	9212.9	9015.0	8289.5	8737.3	8938.7
55°	11715.7	11611.6	11521.3	11583.8	11441.5	10389.7	10184.9	9296.2	9969.6	10236.9
57.5°	11878.9	11969.1	12198.2	12694.6	12899.4	11535.2	11417.2	10532.0	11361.6	11594.2
60°	12455.1	12305.8	12868.2	13944.3	14173.4	13027.9	12906.4	11885.8	12746.7	12989.7
62.5°	12833.5	12826.5	13659.7	14937.1	15457.8	14576.1	14329.6	13645.8	14242.8	14478.9
65°	12722.4	12823.1	14301.9	15520.3	16530.5	16336.1	16193.7	15159.3	15947.3	15926.4
67.5°	11708.8	11993.4	13895.7	15940.3	18127.3	18481.3	18436.2	17287.2	17332.3	16891.5
70°	10302.9	10205.7	12177.4	15502.9	18925.7	21025.8	21015.4	18870.1	18578.5	17103.2
72°	7914.6	7807.0	9428.1	13312.5	18505.6	22042.9	22355.3	19967.1	18564.6	16225.0
72.5°	7185.6	7091.9	8706.1	12531.5	18040.5	22306.7	22160.9	20008.7	18418.9	15811.9
75°	3308.2	3200.6	4349.6	7671.6	14072.8	19765.7	20262.1	18724.3	16086.1	12587.0
77.5°	985.9	954.6	1398.9	3096.4	8178.4	14562.2	14753.1	14128.3	11229.7	6894.1
80°	548.5	551.9	722.0	1159.4	3596.3	8418.0	9105.3	8726.9	5509.0	2277.2
82.5°	305.5	322.8	451.3	687.3	1652.4	3863.6	4158.6	4009.4	1992.5	1069.2
85°	159.7	166.6	236.1	368.0	937.3	1221.9	1256.6	1346.9	1034.5	729.0
87.5°	62.5	62.5	86.8	152.7	347.1	378.4	340.2	413.1	593.6	472.1
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°
3315.1	0°	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1	3315.1
3339.4	2.5°	3367.2	3339.4	3335.9	3290.8	3304.7	3266.5	3270.0	3263.0	3266.5	3259.6
3349.8	5°	3349.8	3329.0	3270.0	3308.2	3273.5	3322.1	3360.2	3346.4	3356.8	3353.3
3405.4	7.5°	3374.1	3346.4	3339.4	3318.6	3349.8	3370.7	3401.9	3488.7	3481.7	3492.2
3509.5	10°	3447.0	3415.8	3395.0	3426.2	3408.8	3474.8	3509.5	3554.6	3634.5	3637.9
3658.8	12.5°	3589.4	3568.5	3526.9	3533.8	3592.8	3613.6	3634.5	3662.2	3714.3	3703.9
3759.4	15°	3752.5	3707.4	3683.1	3676.1	3690.0	3714.3	3710.8	3738.6	3766.4	3790.7
3926.1	17.5°	3870.5	3811.5	3818.5	3853.2	3849.7	3842.8	3797.6	3783.7	3797.6	3811.5
4075.3	20°	3992.0	3999.0	3946.9	3915.7	3901.8	3832.3	3797.6	3756.0	3714.3	3735.1
4200.3	22.5°	4144.8	4113.5	4037.2	3943.4	3874.0	3832.3	3724.7	3651.8	3651.8	3672.7
4387.8	25°	4318.3	4252.4	4120.5	3950.4	3863.6	3686.5	3610.2	3599.8	3572.0	3603.2
4485.0	27.5°	4453.7	4394.7	4214.2	3926.1	3686.5	3544.2	3499.1	3485.2	3530.3	3533.8
4516.2	30°	4509.3	4491.9	4228.1	3863.6	3506.0	3276.9	3249.2	3311.6	3360.2	3433.1
4620.3	32.5°	4582.1	4589.1	4248.9	3717.8	3270.0	3040.9	2999.2	3075.6	3214.4	3273.5
4700.2	35°	4703.6	4738.4	4231.5	3537.3	3020.1	2801.4	2794.4	2815.2	2950.6	3054.8
4793.9	37.5°	4915.4	4908.5	4228.1	3322.1	2822.2	2593.1	2537.5	2544.5	2634.7	2721.5
5050.8	40°	5200.0	5172.3	4217.7	3040.9	2565.3	2416.0	2322.3	2287.6	2280.7	2256.4
5373.6	42.5°	5588.8	5533.3	4214.2	2756.2	2332.7	2173.0	2107.1	2016.8	1950.9	1825.9
5942.9	45°	6130.4	6033.2	4123.9	2488.9	2103.6	1971.7	1871.0	1805.1	1662.8	1506.6
6664.9	47.5°	6966.9	6651.1	4127.4	2193.9	1881.5	1773.8	1704.4	1589.9	1437.1	1312.2
7945.9	50°	8199.3	7477.2	4009.4	1961.3	1700.9	1628.1	1555.2	1423.2	1277.4	1190.7
9337.9	52.5°	9789.1	8709.6	4005.9	1753.0	1558.6	1506.6	1426.7	1308.7	1201.1	1145.5
11035.3	55°	11684.5	10341.1	4130.9	1582.9	1412.8	1385.1	1350.3	1253.1	1149.0	1100.4
12927.2	57.5°	13625.0	11934.4	4332.2	1461.4	1287.9	1308.7	1284.4	1208.0	1124.7	1069.2
14673.3	60°	15350.2	13198.0	3926.1	1315.6	1176.8	1221.9	1256.6	1190.7	1145.5	1142.1
16575.6	62.5°	16651.9	13739.5	2985.3	1204.5	1117.8	1201.1	1294.8	1336.5	1315.6	1343.4
17814.8	65°	17127.5	13413.2	2055.0	1145.5	1072.6	1249.7	1458.0	1444.1	1322.6	1270.5
18366.8	67.5°	16461.0	12090.6	1523.9	1076.1	1041.4	1350.3	1551.7	1378.1	1194.1	1187.2
16783.9	70°	14156.1	10247.4	1242.7	1003.2	989.3	1294.8	1510.0	1277.4	1124.7	1079.6
13864.5	72°	11278.3	7980.6	1090.0	951.1	906.0	1156.0	1412.8	1197.6	1065.7	1010.2
12951.5	72.5°	10296.0	7397.4	1069.2	926.8	888.7	1124.7	1364.2	1173.3	1051.8	1003.2
7758.4	75°	5647.8	3787.2	940.7	850.5	749.8	972.0	1263.6	1100.4	992.8	923.4
2877.7	77.5°	2100.2	1468.4	812.3	753.3	649.1	840.1	1149.0	1044.9	902.5	815.8
958.1	80°	805.3	774.1	663.0	635.3	545.0	735.9	1058.8	937.3	767.2	680.4
524.2	82.5°	489.5	451.3	503.3	496.4	416.6	670.0	996.3	878.2	680.4	551.9
281.2	85°	267.3	267.3	350.6	336.7	291.6	534.6	753.3	583.2	430.4	354.1
138.9	87.5°	118.0	138.9	187.5	177.0	159.7	302.0	368.0	308.9	215.2	145.8
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>
3315.1
3242.2
3356.8
3513.0
3596.3
3742.1
3780.3
3804.6
3766.4
3662.2
3617.1
3589.4
3436.6
3318.6
3113.8
2711.1
2263.3
1832.9
1506.6
1298.3
1201.1
1124.7
1096.9
1062.2
1117.8
1346.9
1298.3
1166.4
1058.8
985.9
965.0
916.4
798.4
652.6
534.6
361.0
156.2
0.0

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