

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: P574701

Luminaire Tested: **EPH-VN-03-750-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574701
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

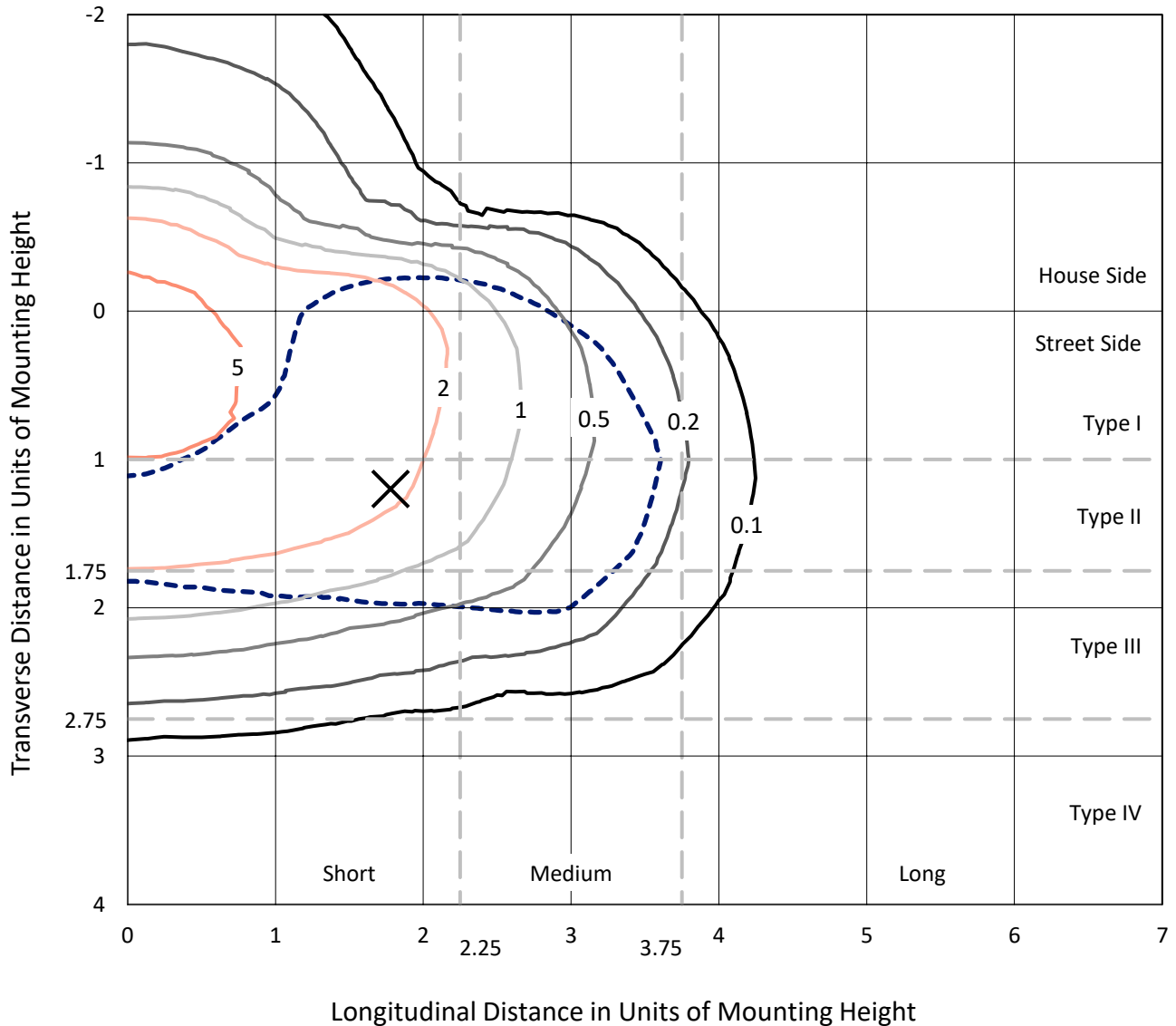
Lumens per Lamp: N/A
Luminaire Lumens: 28102 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

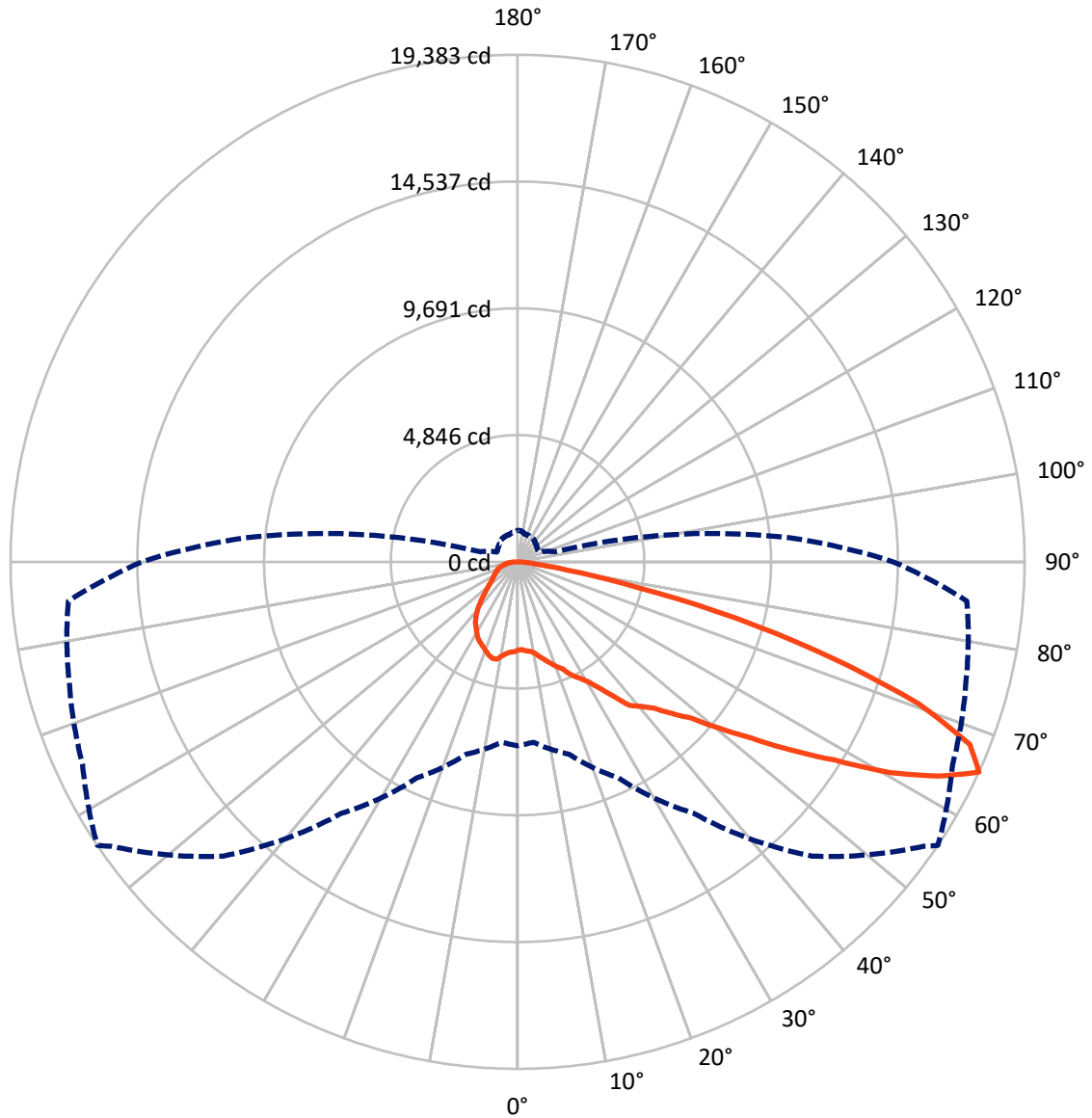
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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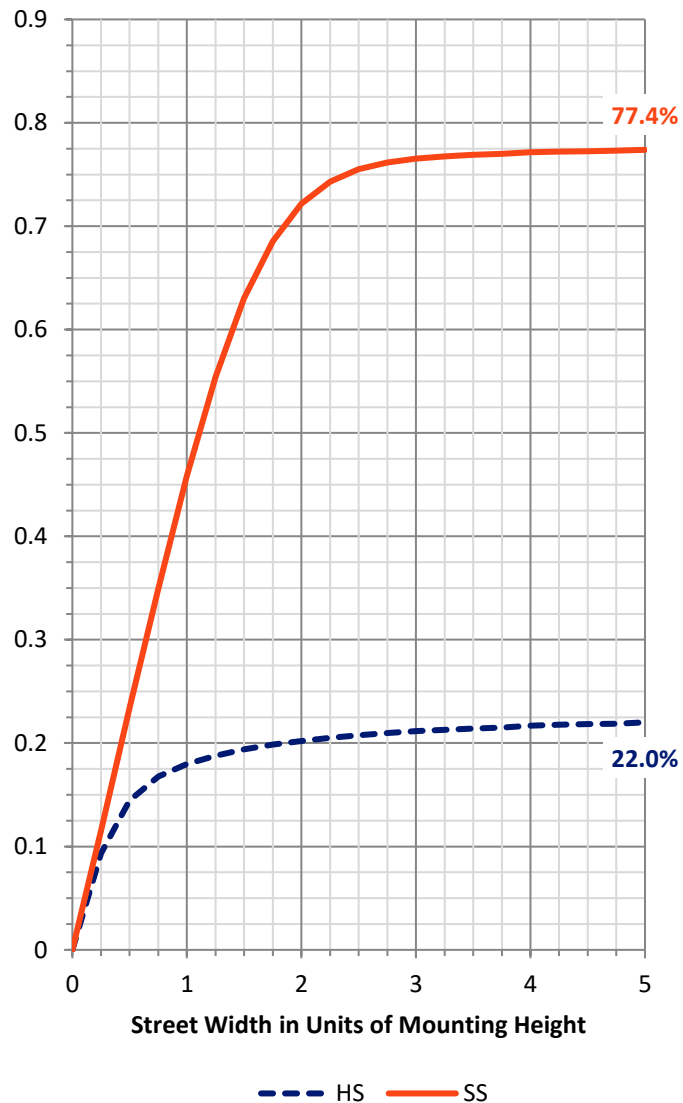
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6302.4	0.0	6302.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	21799.7	0.0	21799.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	28102.0	0.0	28102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	1.2
10°-20°	1085.4	3.9
20°-30°	1932.6	6.9
30°-40°	2894.0	10.3
40°-50°	4287.8	15.3
50°-60°	6606.9	23.5
60°-70°	7479.8	26.6
70°-80°	3104.2	11.0
80°-90°	377.1	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°	28102.0	100.0
0°-180°	28102.0	100.0

Coefficient of Utilization

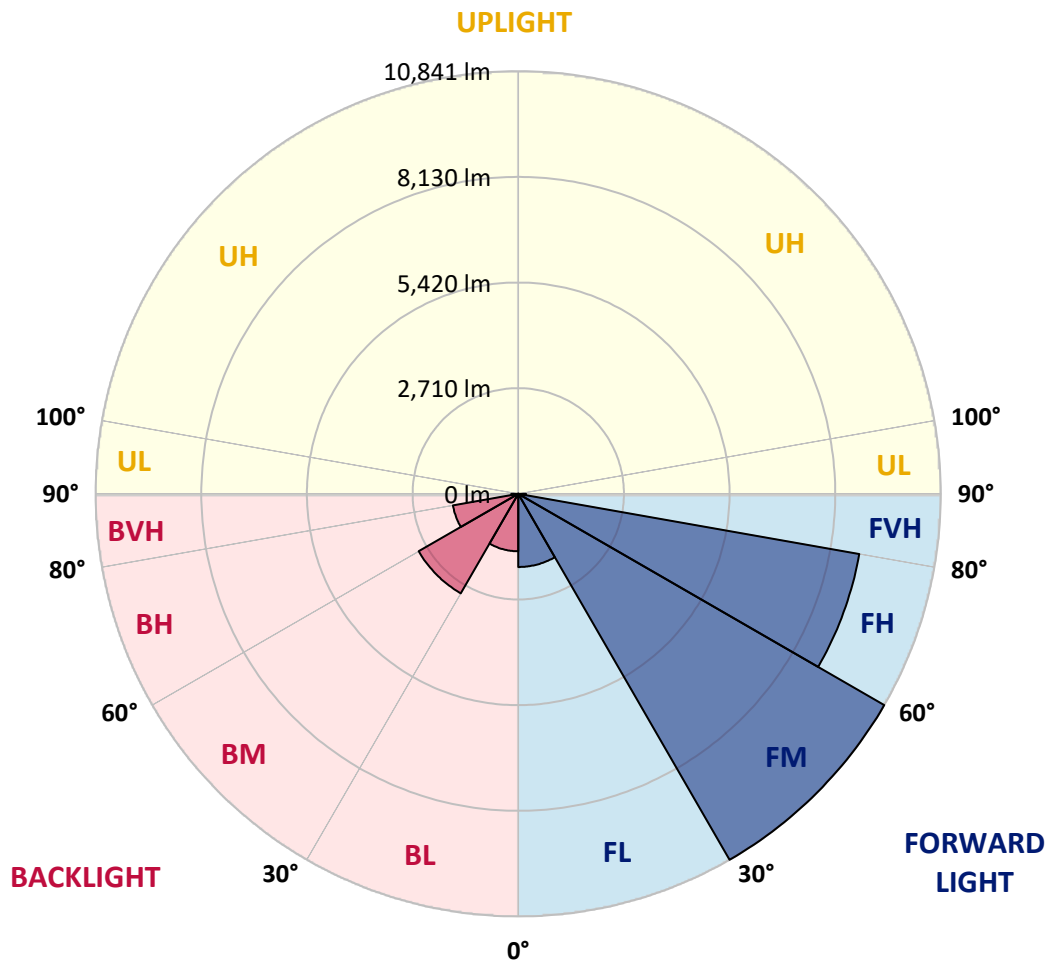


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.0	6.7			
FM (30°-60°)	10840.5	38.6			
FH (60°-80°)	8882.2	31.6			G4/12000
FVH (80°-90°)	198.9	0.7			G2/225
BL (0°-30°)	1474.2	5.2	B3/2500		
BM (30°-60°)	2948.1	10.5	B3/5000		
BH (60°-80°)	1701.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	178.2	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°	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0
2.5°	3284.8	3302.5	3290.7	3326.0	3355.4	3355.4	3378.9	3361.3	3384.8	3417.2
5°	3393.6	3323.1	3361.3	3378.9	3370.1	3384.8	3361.3	3420.1	3381.9	3443.6
7.5°	3420.1	3446.6	3478.9	3449.5	3476.0	3461.3	3464.2	3455.4	3434.8	3484.8
10°	3614.2	3576.0	3649.5	3605.4	3599.5	3593.6	3581.8	3537.7	3587.7	3590.7
12.5°	3837.7	3802.4	3799.5	3764.2	3811.2	3725.9	3743.6	3720.1	3728.9	3740.6
15°	3999.4	3984.7	4052.4	4011.2	3949.4	3911.2	3952.4	3887.7	3920.0	3914.1
17.5°	4320.0	4317.0	4267.0	4199.4	4164.1	4108.2	4099.4	4072.9	4096.5	4084.7
20°	4543.5	4575.8	4584.6	4505.2	4370.0	4308.2	4293.5	4272.9	4299.4	4290.6
22.5°	4884.6	4834.6	4872.8	4734.6	4684.6	4537.6	4484.7	4455.2	4581.7	4549.3
25°	5102.2	5155.1	5116.9	5069.9	4958.1	4775.8	4737.6	4802.3	4852.2	4817.0
27.5°	5593.3	5540.4	5505.1	5363.9	5290.4	5099.3	5055.2	5031.6	5043.4	5064.0
30°	5966.8	5996.2	5916.8	5816.8	5631.5	5437.5	5334.5	5313.9	5272.8	5237.5
32.5°	6499.1	6455.0	6407.9	6343.2	6184.4	5928.6	5828.6	5752.1	5628.6	5463.9
35°	6754.9	6881.4	6846.1	6672.6	6552.0	6455.0	6425.5	6307.9	6205.0	5946.2
37.5°	7181.3	7234.3	7184.3	7128.4	7072.5	6969.6	6934.3	6966.6	6763.7	6337.3
40°	7457.8	7569.5	7672.4	7516.6	7504.8	7525.4	7307.8	7269.5	6852.0	6628.5
42.5°	8022.4	8069.4	8090.0	8084.1	8151.8	8151.8	7737.1	7654.8	7357.8	7175.4
45°	8769.3	8807.6	8881.1	8934.0	8857.6	8895.8	8304.7	8272.3	8007.7	7972.4
47.5°	9416.3	9507.5	9672.1	9828.0	9928.0	9798.6	9151.6	8922.3	8854.6	9066.3
50°	9980.9	9872.1	10257.4	10416.2	10854.3	11069.0	10086.8	9995.6	9886.8	10292.6
52.5°	10036.8	10183.8	10727.9	11045.5	11948.3	12345.3	11233.7	11195.5	11063.1	11530.7
55°	10436.7	10419.1	10966.1	11654.2	12727.6	13395.1	12727.6	12704.1	12415.9	12859.9
57.5°	10369.1	10548.5	10980.8	11942.4	13430.4	14521.4	14459.7	14298.0	13895.1	14256.8
60°	10139.7	10186.8	10713.2	11933.6	13839.2	15677.2	16330.0	16362.4	15538.9	15827.1
62.5°	8839.9	8948.7	9616.3	10995.5	13548.1	16474.1	18156.2	18041.5	17382.8	17053.4
65°	7031.3	6922.5	7616.6	9107.5	11736.6	15909.5	18956.1	19382.5	18347.4	17744.5
67.5°	4311.1	4284.7	4952.2	6266.7	8781.1	13539.2	18318.0	18650.3	18079.8	17597.5
70°	2220.3	2152.6	2570.2	3496.6	5519.8	9933.9	15941.8	16268.3	16812.3	15783.0
72.5°	1035.1	1020.4	1243.9	1720.3	2811.4	5840.3	12345.3	12580.5	13727.4	13306.9
75°	608.7	617.6	744.0	899.9	1370.4	2752.5	8192.9	8648.8	9892.7	9589.8
77.5°	455.8	455.8	529.3	626.4	799.9	1064.6	4043.5	4646.4	5784.5	5202.2
80°	335.2	341.1	405.8	470.5	555.8	549.9	1605.7	1882.1	2652.6	2267.3
82.5°	261.7	270.5	314.7	349.9	391.1	332.3	658.7	708.7	1091.0	867.5
85°	182.3	188.2	247.0	238.2	238.2	185.3	273.5	288.2	432.3	411.7
87.5°	44.1	50.0	120.6	132.3	100.0	55.9	85.3	97.0	155.9	179.4
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°
3373.0	0°	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0	3373.0
3431.9	2.5°	3387.7	3399.5	3449.5	3423.0	3437.7	3376.0	3426.0	3384.8	3420.1	3402.5
3458.3	5°	3481.9	3455.4	3484.8	3464.2	3464.2	3487.7	3523.0	3496.6	3549.5	3526.0
3478.9	7.5°	3520.1	3523.0	3540.7	3543.6	3528.9	3602.4	3605.4	3596.5	3646.5	3634.8
3620.1	10°	3614.2	3617.1	3649.5	3667.1	3652.4	3678.9	3649.5	3626.0	3623.0	3611.2
3731.8	12.5°	3764.2	3793.6	3787.7	3802.4	3805.3	3693.6	3626.0	3511.3	3496.6	3511.3
3896.5	15°	3902.4	3890.6	3896.5	3925.9	3802.4	3623.0	3502.4	3405.4	3411.3	3414.2
4111.2	17.5°	4067.1	4075.9	4084.7	3949.4	3723.0	3511.3	3405.4	3405.4	3376.0	3387.7
4261.2	20°	4255.3	4220.0	4143.5	3952.4	3584.8	3381.9	3349.5	3349.5	3314.2	3290.7
4422.9	22.5°	4402.3	4331.7	4217.0	3861.2	3461.3	3331.9	3252.5	3196.6	3155.4	3108.4
4602.3	25°	4496.4	4458.2	4234.7	3767.1	3370.1	3199.5	3081.9	2996.6	2943.7	2881.9
4743.4	27.5°	4640.5	4567.0	4284.7	3658.3	3270.1	3067.2	2884.9	2752.5	2652.6	2587.9
4958.1	30°	4834.6	4728.7	4249.4	3502.4	3117.2	2837.8	2623.2	2452.6	2337.9	2285.0
5161.0	32.5°	4993.4	4855.2	4220.0	3361.3	2946.6	2605.5	2320.3	2146.8	2082.1	2014.4
5502.2	35°	5296.3	5022.8	4199.4	3281.9	2793.7	2373.2	2073.2	1923.3	1840.9	1740.9
5705.1	37.5°	5528.6	5313.9	4149.4	3117.2	2596.7	2146.8	1885.0	1749.7	1626.2	1520.4
6175.6	40°	5893.3	5719.8	4152.3	2884.9	2364.4	1952.7	1738.0	1596.8	1441.0	1349.8
6872.5	42.5°	6578.5	6119.7	4170.0	2699.6	2102.6	1793.9	1605.7	1438.0	1282.2	1205.7
7666.5	45°	7419.5	6669.6	4061.2	2532.0	1835.0	1643.9	1446.9	1279.2	1179.2	1123.4
8745.8	47.5°	8387.0	7207.8	3914.1	2217.3	1611.5	1485.1	1299.8	1202.8	1129.2	1096.9
10136.8	50°	9469.2	7978.3	3873.0	1929.1	1438.0	1349.8	1229.2	1155.7	1105.7	1067.5
11704.2	52.5°	10863.1	8875.2	3790.6	1632.1	1288.1	1241.0	1202.8	1152.8	1108.7	1076.3
13165.8	55°	12195.3	9869.2	3702.4	1388.0	1182.2	1188.1	1208.7	1164.5	1126.3	1076.3
14803.8	57.5°	13695.1	10883.7	3376.0	1208.7	1102.8	1161.6	1202.8	1152.8	1114.5	1076.3
16480.0	60°	14621.4	11454.2	2737.8	1052.8	1032.2	1111.6	1167.5	1114.5	1073.4	1088.1
17250.5	62.5°	14997.9	11154.3	2064.4	955.7	982.2	1044.0	1111.6	1091.0	1061.6	1117.5
17241.6	65°	14356.8	10463.2	1476.3	873.4	914.6	976.3	1061.6	1085.1	1094.0	1202.8
15836.0	67.5°	12774.6	9110.5	1085.1	805.8	844.0	935.2	1096.9	1135.1	1129.2	1264.5
13289.3	70°	10222.1	7125.4	846.9	749.9	817.5	967.5	1146.9	1146.9	1105.7	1264.5
10136.8	72.5°	7437.2	5022.8	729.3	685.2	749.9	888.1	1141.0	1138.1	1085.1	1155.7
6455.0	75°	4502.3	2923.1	644.0	620.5	644.0	761.7	1091.0	1073.4	999.9	994.0
3105.4	77.5°	2243.8	1470.4	526.4	549.9	561.7	638.1	958.7	985.2	885.2	861.6
1226.3	80°	946.9	641.1	438.2	473.5	473.5	538.2	796.9	814.6	735.2	691.1
485.2	82.5°	432.3	367.6	373.5	411.7	385.2	417.6	632.3	652.8	597.0	523.5
205.9	85°	182.3	208.8	285.3	323.5	285.3	270.5	435.2	458.8	388.2	323.5
88.2	87.5°	82.3	114.7	179.4	235.3	144.1	126.5	232.3	241.1	194.1	144.1
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>
3373.0
3370.1
3493.6
3617.1
3611.2
3517.1
3455.4
3390.7
3255.4
3081.9
2893.7
2617.3
2314.4
2011.5
1732.1
1523.3
1358.6
1211.6
1135.1
1091.0
1073.4
1073.4
1073.4
1073.4
1073.4
1076.3
1102.8
1202.8
1273.3
1238.1
1114.5
982.2
846.9
676.4
511.7
326.4
135.3
0.0

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