

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: P574809

Luminaire Tested: **EPH-VN-03-735-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574809  
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-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

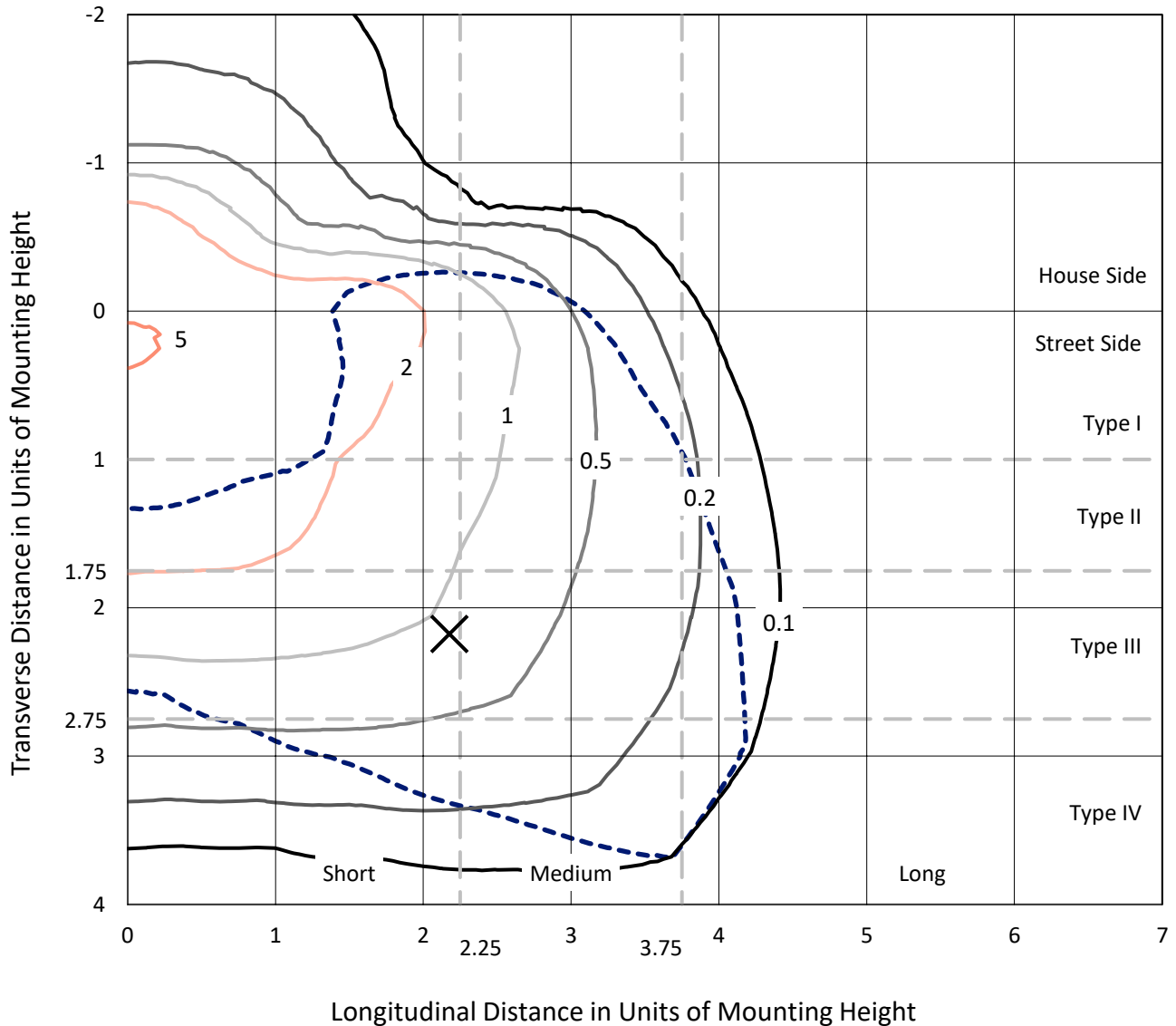
Lumens per Lamp: N/A  
Luminaire Lumens: 26890.6 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

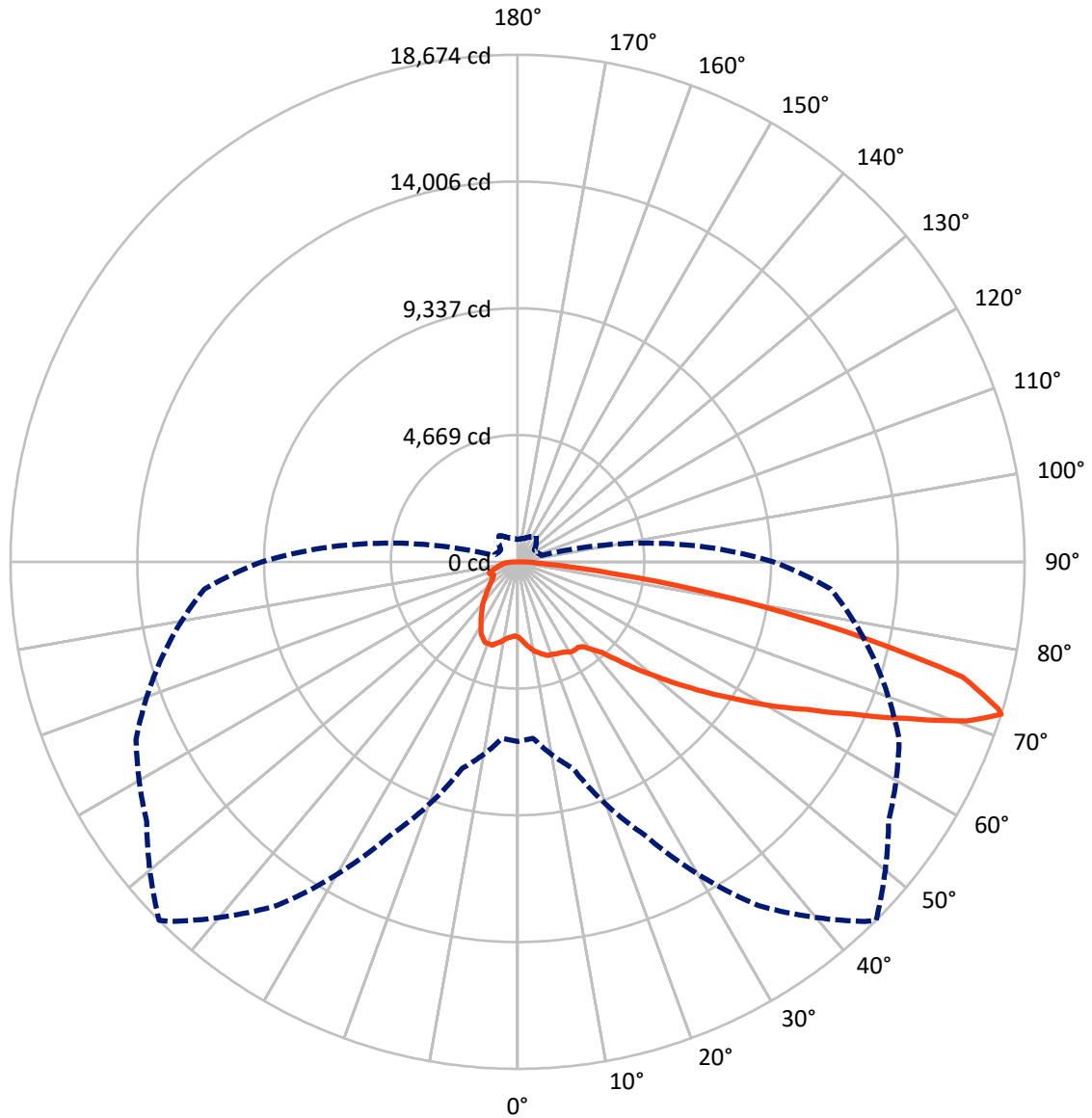
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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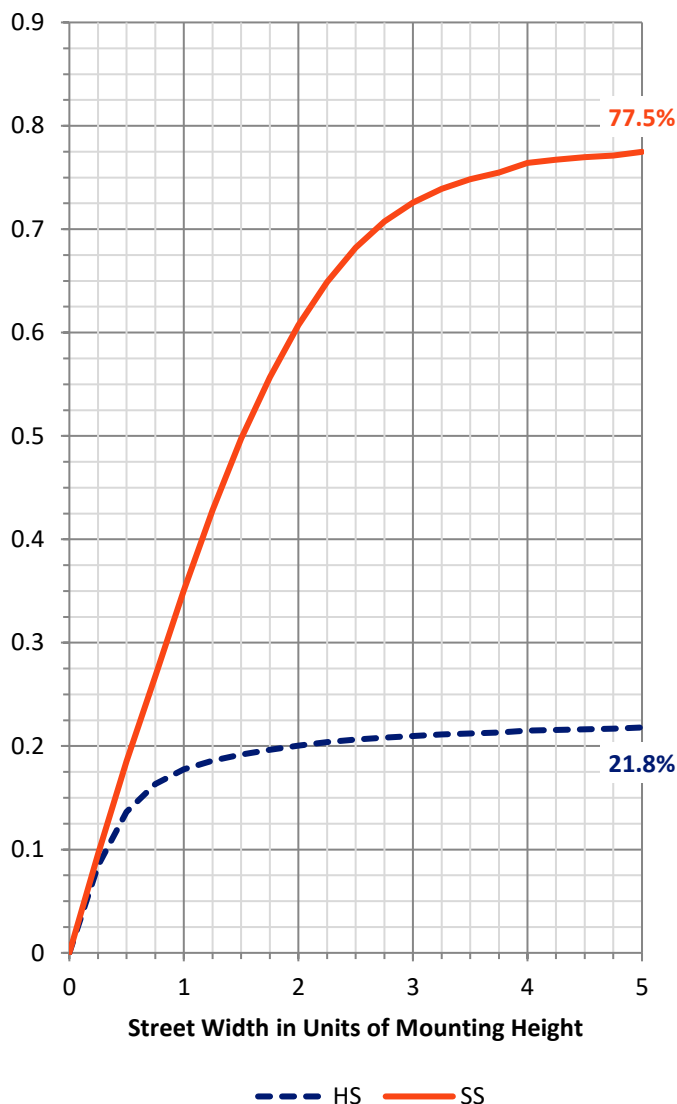
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5986.0	0.0	5986.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	20904.6	0.0	20904.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	26890.6	0.0	26890.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.4	1.1
10°-20°	942.8	3.5
20°-30°	1592.1	5.9
30°-40°	2203.2	8.2
40°-50°	3151.5	11.7
50°-60°	5083.0	18.9
60°-70°	7496.7	27.9
70°-80°	5443.9	20.2
80°-90°	694.0	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°	26890.6	100.0
0°-180°	26890.6	100.0

**Coefficient of Utilization**

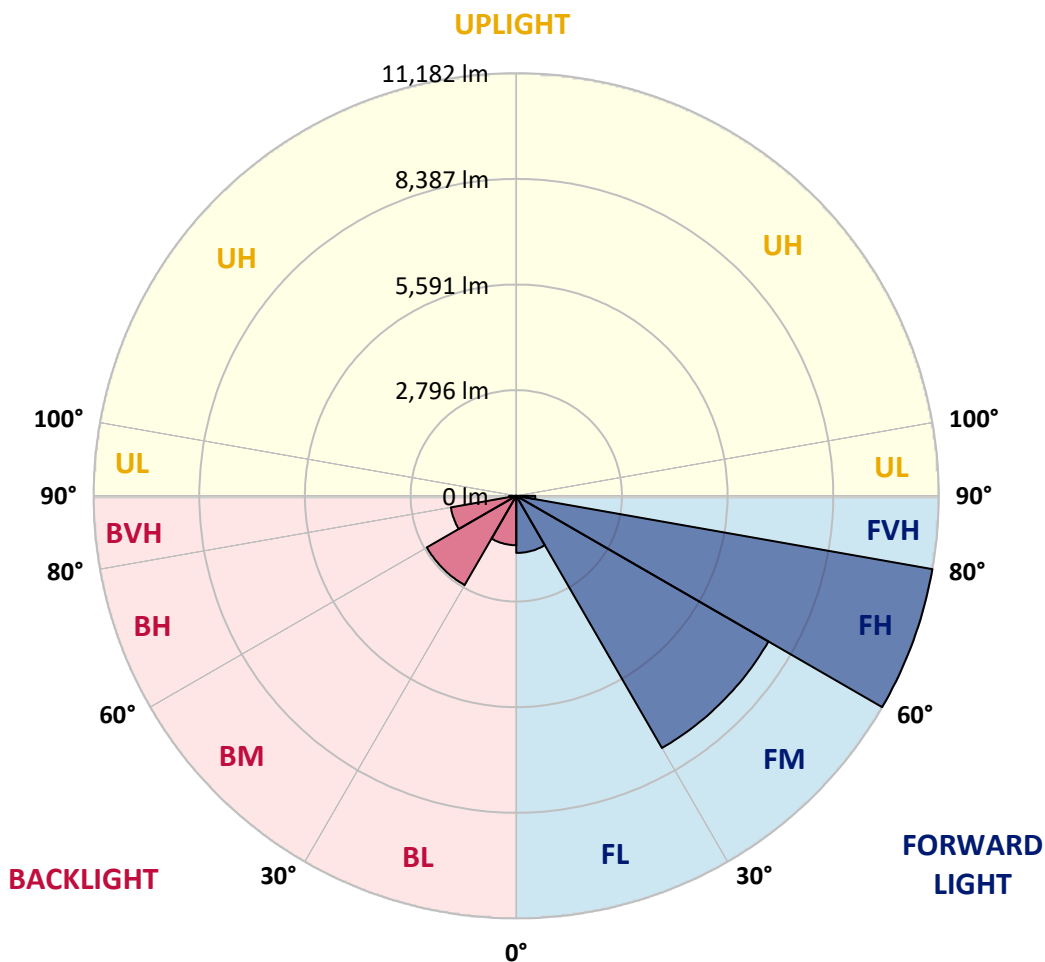


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.3	5.6			
FM (30°-60°)	7705.9	28.7			
FH (60°-80°)	11182.3	41.6			G4/12000
FVH (80°-90°)	505.1	1.9			G4/750
BL (0°-30°)	1307.0	4.9	B3/2500		
BM (30°-60°)	2731.8	10.2	B3/5000		
BH (60°-80°)	1758.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	188.9	0.7			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2
2.5°	2917.1	2934.5	2917.1	2914.2	2885.2	2864.9	2882.3	2856.2	2827.2	2815.6
5°	3183.9	3186.8	3154.9	3157.8	3096.9	3033.1	3044.7	2966.4	2882.3	2850.4
7.5°	3456.5	3424.6	3378.2	3363.7	3268.0	3198.4	3189.7	3120.1	2989.6	2917.1
10°	3633.4	3645.0	3569.6	3505.8	3424.6	3340.5	3337.6	3207.1	3131.7	3024.4
12.5°	3790.0	3792.8	3729.1	3627.6	3526.1	3421.7	3436.2	3378.2	3250.6	3149.1
15°	3911.7	3894.3	3824.7	3732.0	3624.7	3543.5	3534.8	3485.5	3378.2	3294.1
17.5°	3946.5	3937.8	3868.2	3769.7	3665.3	3604.4	3627.6	3546.4	3502.9	3427.5
20°	3879.8	3859.5	3847.9	3737.8	3662.4	3656.6	3636.3	3653.7	3581.2	3511.6
22.5°	3758.1	3749.4	3743.6	3656.6	3621.8	3647.9	3682.7	3708.8	3697.2	3630.5
25°	3633.4	3674.0	3636.3	3595.7	3645.0	3711.7	3703.0	3787.1	3787.1	3766.8
27.5°	3720.4	3694.3	3665.3	3645.0	3662.4	3766.8	3761.0	3862.4	3900.1	3862.4
30°	3937.8	3911.7	3827.6	3737.8	3714.6	3827.6	3856.6	3946.5	3963.9	3871.1
32.5°	4346.7	4332.2	4198.8	3934.9	3792.8	3856.6	3871.1	3972.6	3958.1	3900.1
35°	4952.7	4903.4	4717.9	4271.3	3958.1	3894.3	3856.6	3937.8	3992.9	3963.9
37.5°	5616.8	5561.7	5332.6	4767.2	4256.8	3995.8	3966.8	4033.5	4097.3	4082.8
40°	6251.8	6251.8	6045.9	5387.7	4700.5	4242.3	4248.1	4172.7	4230.7	4204.6
42.5°	6878.2	6855.0	6770.9	6115.5	5176.0	4654.1	4561.3	4372.8	4477.2	4468.5
45°	7513.2	7495.8	7472.6	6794.1	5857.5	5210.8	5161.5	4822.3	4917.9	4877.3
47.5°	8020.7	8041.0	8041.0	7550.9	6585.3	5953.2	5880.7	5344.2	5526.9	5547.2
50°	8452.7	8461.4	8452.7	8272.9	7397.2	6802.8	6654.9	6109.7	6292.4	6451.9
52.5°	9050.1	9061.7	9021.1	8951.5	8499.1	7695.9	7530.6	6924.6	7298.6	7466.8
55°	9786.6	9699.6	9624.2	9676.4	9557.5	8678.9	8507.8	7765.5	8328.0	8551.3
57.5°	9922.9	9998.3	10189.7	10604.3	10775.4	9635.8	9537.2	8797.8	9490.8	9685.1
60°	10404.2	10279.6	10749.3	11648.2	11839.6	10882.7	10781.2	9928.7	10647.8	10850.8
62.5°	10720.3	10714.5	11410.4	12477.5	12912.5	12176.0	11970.1	11398.8	11897.6	12094.8
65°	10627.5	10711.6	11946.9	12964.7	13808.5	13646.1	13527.3	12663.1	13321.4	13304.0
67.5°	9780.8	10018.6	11607.6	13315.6	15142.4	15438.2	15400.5	14440.7	14478.4	14110.1
70°	8606.4	8525.2	10172.3	12950.2	15809.3	17563.7	17555.0	15762.9	15519.4	14287.0
72°	6611.4	6521.5	7875.7	11120.5	15458.5	18413.3	18674.3	16679.3	15507.8	13553.3
72.5°	6002.4	5924.2	7272.5	10468.0	15069.9	18633.7	18511.9	16714.1	15386.0	13208.3
75°	2763.4	2673.6	3633.4	6408.4	11755.5	16511.1	16925.7	15641.2	13437.4	10514.4
77.5°	823.5	797.4	1168.6	2586.6	6831.8	12164.4	12323.9	11801.9	9380.6	5758.9
80°	458.2	461.1	603.1	968.5	3004.1	7031.9	7606.0	7289.9	4601.9	1902.2
82.5°	255.2	269.7	377.0	574.1	1380.3	3227.4	3473.9	3349.2	1664.4	893.1
85°	133.4	139.2	197.2	307.4	782.9	1020.7	1049.7	1125.1	864.1	608.9
87.5°	52.2	52.2	72.5	127.6	290.0	316.1	284.2	345.1	495.9	394.4
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°
2769.2	0°	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2
2789.5	2.5°	2812.7	2789.5	2786.6	2748.9	2760.5	2728.6	2731.5	2725.7	2728.6	2722.8
2798.2	5°	2798.2	2780.8	2731.5	2763.4	2734.4	2775.0	2806.9	2795.3	2804.0	2801.1
2844.6	7.5°	2818.5	2795.3	2789.5	2772.1	2798.2	2815.6	2841.7	2914.2	2908.4	2917.1
2931.6	10°	2879.4	2853.3	2835.9	2862.0	2847.5	2902.6	2931.6	2969.3	3036.0	3038.9
3056.3	12.5°	2998.3	2980.9	2946.1	2951.9	3001.2	3018.6	3036.0	3059.2	3102.7	3094.0
3140.4	15°	3134.6	3096.9	3076.6	3070.8	3082.4	3102.7	3099.8	3123.0	3146.2	3166.5
3279.6	17.5°	3233.2	3183.9	3189.7	3218.7	3215.8	3210.0	3172.3	3160.7	3172.3	3183.9
3404.3	20°	3334.7	3340.5	3297.0	3270.9	3259.3	3201.3	3172.3	3137.5	3102.7	3120.1
3508.7	22.5°	3462.3	3436.2	3372.4	3294.1	3236.1	3201.3	3111.4	3050.5	3050.5	3067.9
3665.3	25°	3607.3	3552.2	3442.0	3299.9	3227.4	3079.5	3015.7	3007.0	2983.8	3009.9
3746.5	27.5°	3720.4	3671.1	3520.3	3279.6	3079.5	2960.6	2922.9	2911.3	2949.0	2951.9
3772.6	30°	3766.8	3752.3	3531.9	3227.4	2928.7	2737.3	2714.1	2766.3	2806.9	2867.8
3859.5	32.5°	3827.6	3833.4	3549.3	3105.6	2731.5	2540.2	2505.4	2569.2	2685.2	2734.4
3926.2	35°	3929.1	3958.1	3534.8	2954.8	2522.8	2340.1	2334.3	2351.7	2464.8	2551.8
4004.5	37.5°	4106.0	4100.2	3531.9	2775.0	2357.5	2166.1	2119.7	2125.5	2200.9	2273.4
4219.1	40°	4343.8	4320.6	3523.2	2540.2	2142.9	2018.2	1939.9	1910.9	1905.1	1884.8
4488.8	42.5°	4668.6	4622.2	3520.3	2302.4	1948.6	1815.2	1760.1	1684.7	1629.6	1525.3
4964.3	45°	5120.9	5039.7	3444.9	2079.1	1757.2	1647.0	1563.0	1507.9	1389.0	1258.5
5567.5	47.5°	5819.8	5555.9	3447.8	1832.6	1571.7	1481.8	1423.8	1328.1	1200.5	1096.1
6637.5	50°	6849.2	6246.0	3349.2	1638.3	1420.9	1360.0	1299.1	1188.9	1067.1	994.6
7800.3	52.5°	8177.2	7275.4	3346.3	1464.4	1302.0	1258.5	1191.8	1093.2	1003.3	956.9
9218.2	55°	9760.5	8638.3	3450.7	1322.3	1180.2	1157.0	1128.0	1046.8	959.8	919.2
10798.6	57.5°	11381.4	9969.3	3618.9	1220.8	1075.8	1093.2	1072.9	1009.1	939.5	893.1
12257.2	60°	12822.6	11024.8	3279.6	1099.0	983.0	1020.7	1049.7	994.6	956.9	954.0
13846.2	62.5°	13910.0	11477.1	2493.8	1006.2	933.7	1003.3	1081.6	1116.4	1099.0	1122.2
14881.4	65°	14307.3	11204.6	1716.6	956.9	896.0	1043.9	1217.9	1206.3	1104.8	1061.3
15342.5	67.5°	13750.5	10099.8	1273.0	898.9	869.9	1128.0	1296.2	1151.2	997.5	991.7
14020.2	70°	11825.1	8560.0	1038.1	838.0	826.4	1081.6	1261.4	1067.1	939.5	901.8
11581.5	72°	9421.2	6666.5	910.5	794.5	756.8	965.6	1180.2	1000.4	890.2	843.8
10818.9	72.5°	8600.6	6179.3	893.1	774.2	742.3	939.5	1139.6	980.1	878.6	838.0
6480.9	75°	4717.9	3163.6	785.8	710.4	626.3	811.9	1055.5	919.2	829.3	771.3
2403.9	77.5°	1754.3	1226.6	678.5	629.2	542.2	701.7	959.8	872.8	753.9	681.4
800.3	80°	672.7	646.6	553.8	530.7	455.3	614.7	884.4	782.9	640.8	568.3
437.9	82.5°	408.9	377.0	420.5	414.7	348.0	559.6	832.2	733.6	568.3	461.1
234.9	85°	223.3	223.3	292.9	281.3	243.6	446.6	629.2	487.2	359.6	295.8
116.0	87.5°	98.6	116.0	156.6	147.9	133.4	252.3	307.4	258.1	179.8	121.8
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>
2769.2
2708.4
2804.0
2934.5
3004.1
3125.9
3157.8
3178.1
3146.2
3059.2
3021.5
2998.3
2870.7
2772.1
2601.1
2264.7
1890.6
1531.1
1258.5
1084.5
1003.3
939.5
916.3
887.3
933.7
1125.1
1084.5
974.3
884.4
823.5
806.1
765.5
666.9
545.1
446.6
301.6
130.5
0.0

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