

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: P574775

Luminaire Tested: **EPH-VN-03-740-U-T4FT**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574775  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-T4FT  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

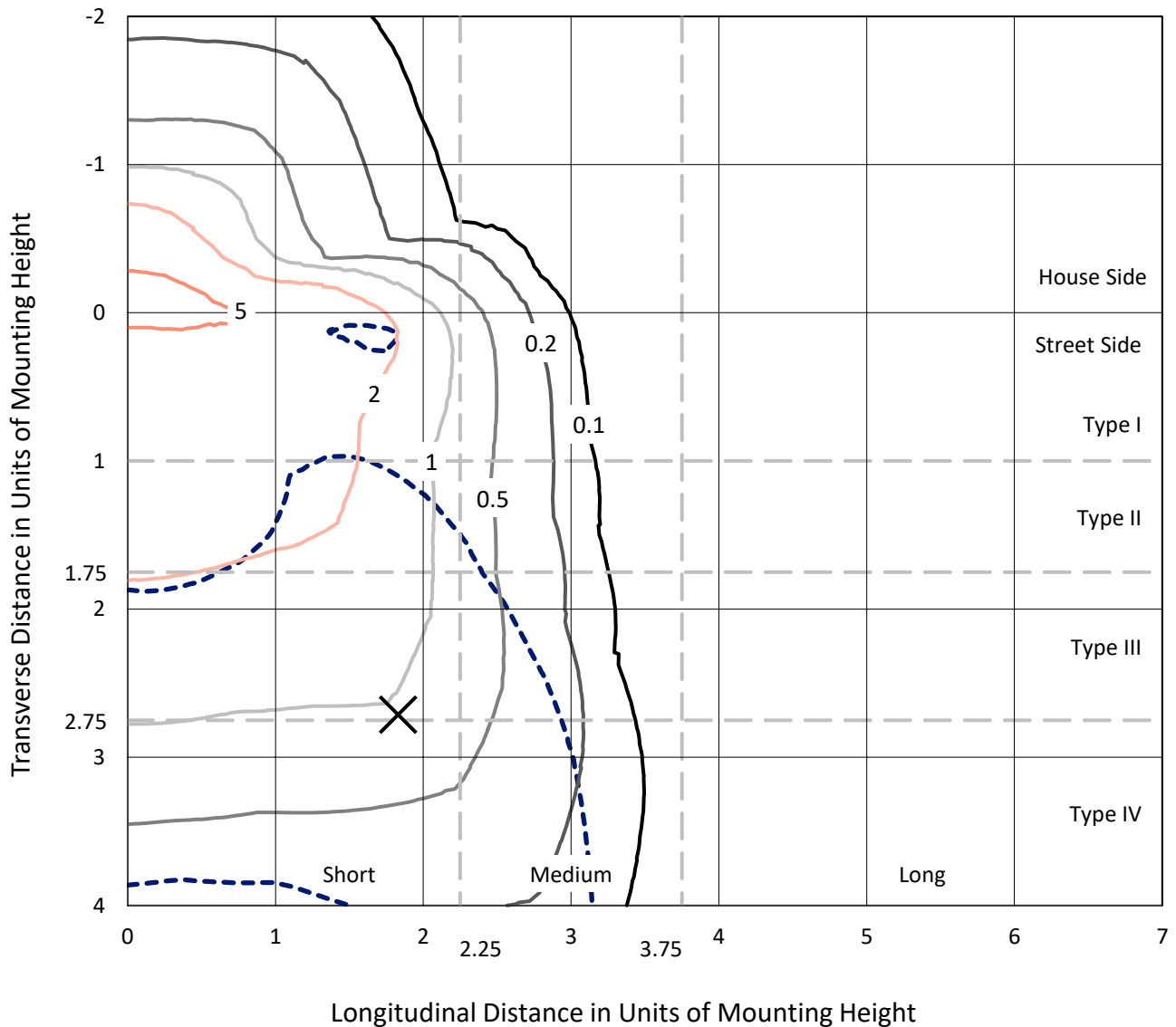
Lumens per Lamp: N/A  
Luminaire Lumens: 27634 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

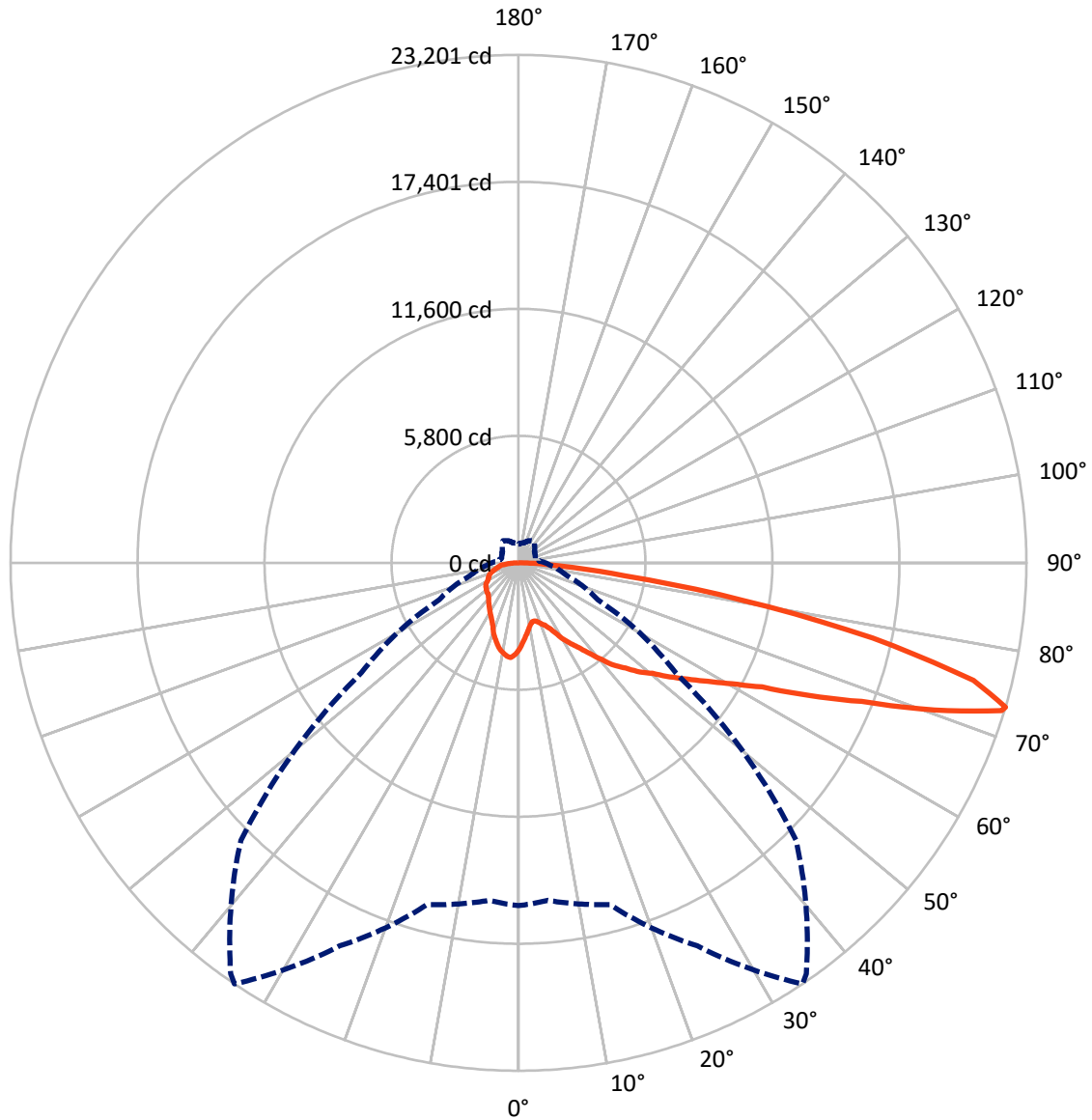
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P574775  
CATALOG NUMBER: EPH-VN-03-740-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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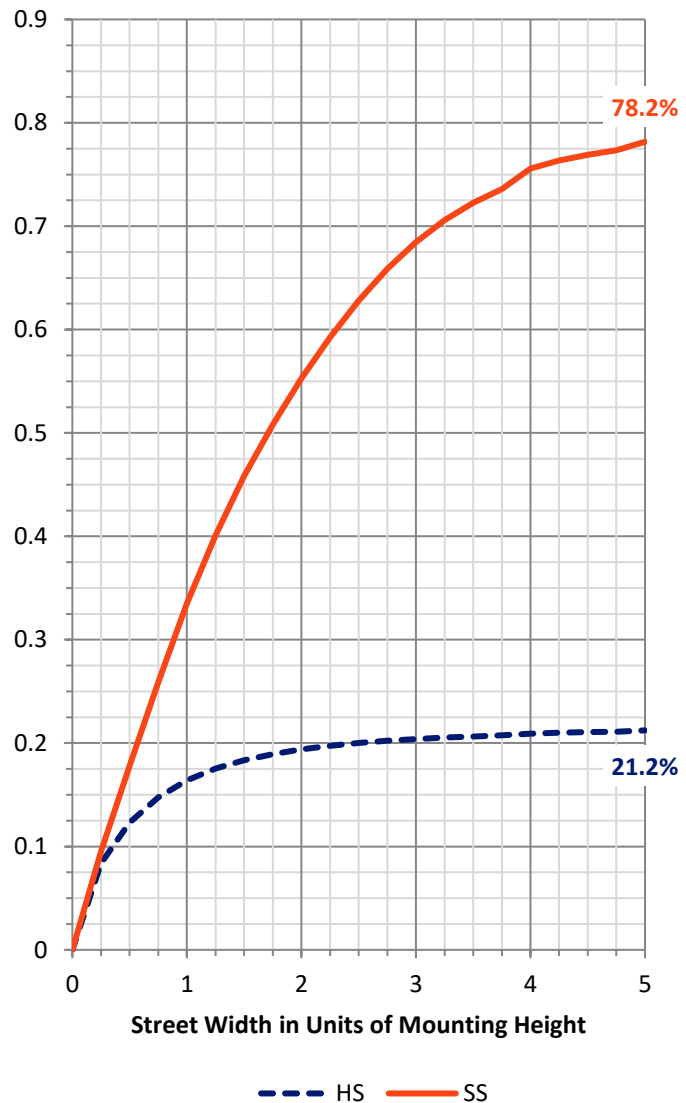
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5969.3	0.0	5969.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	21664.7	0.0	21664.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	27634.0	0.0	27634.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.7	1.3
10°-20°	1023.3	3.7
20°-30°	1684.2	6.1
30°-40°	2518.7	9.1
40°-50°	3733.9	13.5
50°-60°	5380.9	19.5
60°-70°	6866.8	24.8
70°-80°	5343.5	19.3
80°-90°	716.9	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°	27634.0	100.0
0°-180°	27634.0	100.0

**Coefficient of Utilization**

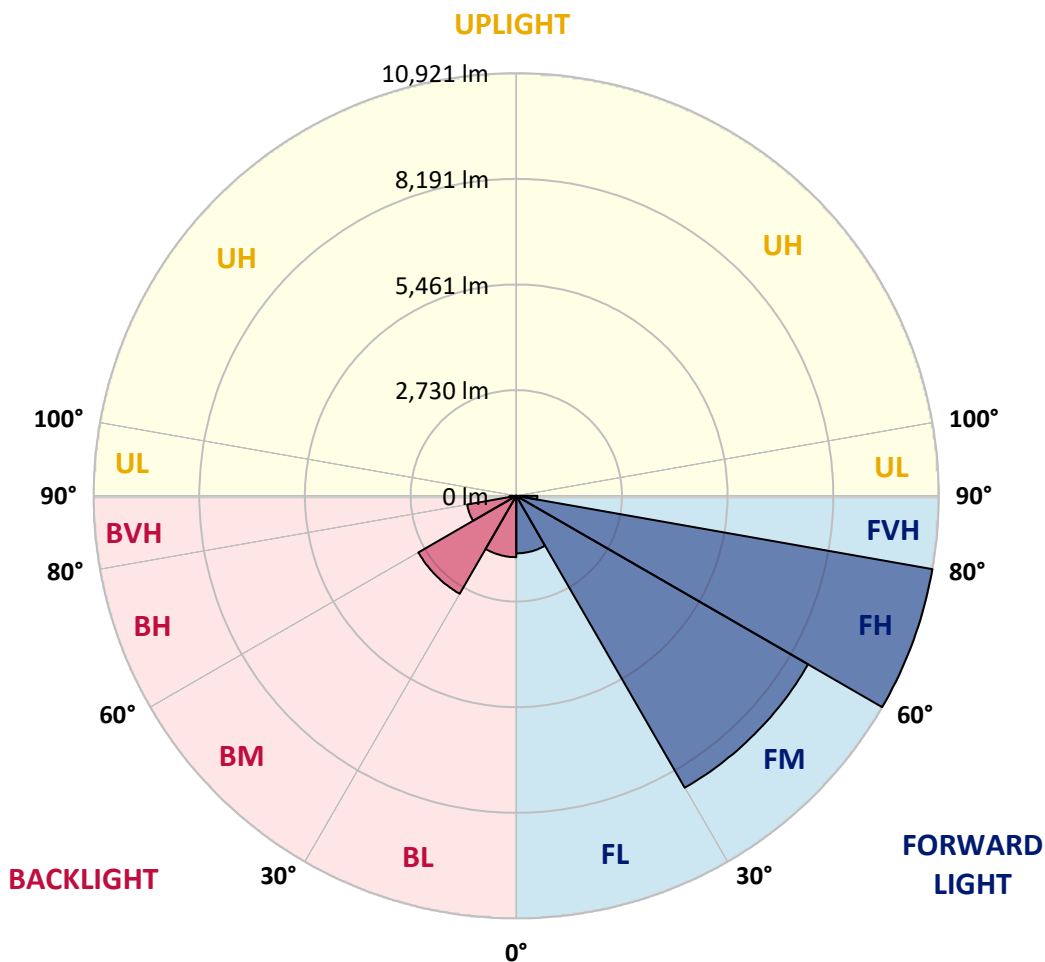


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 CATALOG NUMBER: EPH-VN-03-740-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.2	5.4			
FM (30°-60°)	8710.4	31.5			
FH (60°-80°)	10921.4	39.5			G4/12000
FVH (80°-90°)	545.7	2.0			G4/750
BL (0°-30°)	1586.0	5.7	B3/2500		
BM (30°-60°)	2923.2	10.6	B3/5000		
BH (60°-80°)	1288.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	171.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8
2.5°	3549.8	3561.5	3599.5	3608.2	3649.1	3625.8	3675.4	3763.1	3812.8	3885.8
5°	3269.3	3219.7	3243.0	3333.6	3380.4	3392.0	3444.6	3593.6	3687.1	3795.2
7.5°	2939.2	2930.4	2977.2	3035.6	3129.1	3137.9	3254.7	3386.2	3579.0	3818.6
10°	2714.2	2752.2	2778.5	2839.8	2904.1	2904.1	3053.1	3281.0	3500.1	3731.0
12.5°	2702.5	2679.2	2685.0	2717.1	2763.9	2822.3	2962.6	3167.1	3444.6	3713.4
15°	2740.5	2749.3	2696.7	2737.6	2755.1	2775.6	2930.4	3161.2	3409.6	3774.8
17.5°	2942.1	2892.4	2810.6	2772.6	2834.0	2834.0	2939.2	3120.3	3415.4	3806.9
20°	3099.9	3099.9	2965.5	2924.6	2968.4	2959.6	3032.7	3167.1	3444.6	3871.2
22.5°	3365.7	3403.7	3181.7	3097.0	3094.0	3117.4	3181.7	3295.6	3526.4	3961.8
25°	3748.5	3757.2	3500.1	3412.5	3319.0	3357.0	3368.7	3482.6	3599.5	4066.9
27.5°	4175.0	4169.2	3932.5	3713.4	3652.1	3660.8	3596.6	3672.5	3707.6	4099.1
30°	4648.4	4595.8	4417.5	4107.8	4058.2	4002.7	3862.4	3859.5	3932.5	4280.2
32.5°	4958.0	4890.8	4768.1	4546.1	4408.8	4414.6	4192.6	4189.7	4125.4	4478.9
35°	5261.9	5159.6	5127.5	4899.6	4762.3	4776.9	4598.7	4575.3	4458.4	4779.8
37.5°	5627.1	5536.5	5586.2	5413.8	5244.4	5174.2	5092.4	5063.2	4911.3	5203.5
40°	6030.3	6001.1	5968.9	5884.2	5782.0	5787.8	5700.1	5670.9	5446.0	5714.8
42.5°	6573.7	6462.7	6296.2	6351.7	6404.3	6459.8	6430.6	6354.6	6120.9	6234.8
45°	7079.2	6933.1	6626.3	6643.8	6860.0	6903.9	7257.4	7248.6	6778.2	6895.1
47.5°	7421.0	7353.8	7169.7	7149.3	7459.0	7456.1	8093.0	8093.0	7470.7	7552.5
50°	7929.4	7754.1	7675.2	7777.4	7935.2	8043.3	8946.1	9001.6	8151.4	8239.1
52.5°	8525.4	8306.3	8107.6	8370.5	8651.0	8721.1	9790.5	9767.1	8674.4	9036.7
55°	9019.1	8908.1	8770.8	8922.7	9381.4	9469.1	10637.7	10421.5	9197.4	9697.0
57.5°	9594.7	9661.9	9691.1	9653.1	10199.5	10336.8	11604.8	10985.4	9647.3	10141.1
60°	10462.4	10503.3	10541.3	10631.9	11210.4	11403.2	12370.3	11692.5	9930.7	10398.2
62.5°	11783.0	11625.3	11710.0	12022.6	12487.1	12706.3	13498.0	12189.1	10146.9	10553.0
65°	13293.5	13080.2	12992.6	13395.8	14599.5	14424.2	14906.3	12560.2	9834.3	9974.5
67.5°	14824.5	14847.8	14622.9	15432.2	16907.6	16907.6	16215.2	12738.4	8987.0	8084.2
70°	16039.9	16112.9	16235.6	17804.6	20141.9	20495.4	17836.7	12008.0	7260.3	5381.7
72.5°	16022.3	15803.2	16431.4	19320.9	23081.1	22786.0	18175.6	9495.4	4531.5	2635.3
73°	15663.0	15478.9	16165.5	19306.3	23200.9	22923.3	17927.3	8753.3	3996.8	2284.7
75°	12791.0	12457.9	13626.6	17486.1	21465.4	21678.7	15230.6	5708.9	2191.2	1408.2
77.5°	5831.6	5977.7	7499.9	11730.4	16542.4	16793.7	10012.5	2468.8	1200.8	987.5
80°	1872.8	1966.3	2918.7	5831.6	10368.9	10821.8	4627.9	1121.9	856.0	756.7
82.5°	715.8	712.9	1224.2	2425.0	4914.2	5203.5	1691.6	683.7	636.9	558.0
85°	251.3	262.9	461.6	958.3	1934.1	2024.7	587.3	379.8	441.2	374.0
87.5°	87.6	90.6	163.6	347.7	666.1	704.1	163.6	151.9	219.1	216.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574775

CATALOG NUMBER: EPH-VN-03-740-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3961.8	0°	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8	3961.8
3973.4	2.5°	4002.7	4029.0	4037.7	4142.9	4142.9	4142.9	4183.8	4183.8	4172.1	4142.9
3958.8	5°	4020.2	4066.9	4157.5	4248.1	4271.5	4291.9	4347.4	4300.7	4318.2	4289.0
4011.4	7.5°	4069.9	4134.1	4303.6	4359.1	4321.1	4365.0	4306.5	4274.4	4242.2	4253.9
4023.1	10°	4154.6	4236.4	4315.3	4417.5	4344.5	4300.7	4180.9	4151.7	4049.4	4014.4
4072.8	12.5°	4259.8	4359.1	4493.5	4455.5	4315.3	4189.7	4061.1	3938.4	3877.0	3789.4
4157.5	15°	4365.0	4478.9	4499.3	4435.1	4259.8	4102.0	3868.3	3695.9	3634.5	3555.7
4280.2	17.5°	4478.9	4587.0	4551.9	4385.4	4148.7	3909.2	3643.3	3473.8	3345.3	3295.6
4417.5	20°	4648.4	4700.9	4645.4	4303.6	4014.4	3698.8	3441.7	3248.9	3120.3	3099.9
4549.0	22.5°	4779.8	4864.6	4616.2	4183.8	3818.6	3424.2	3129.1	3056.0	3018.1	2985.9
4698.0	25°	4949.3	4946.4	4563.6	4072.8	3482.6	3097.0	2918.7	2912.9	2895.4	2883.7
4911.3	27.5°	5110.0	5042.8	4502.3	3798.1	3134.9	2848.6	2752.2	2816.5	2842.8	2825.2
5206.4	30°	5364.2	5253.1	4414.6	3506.0	2828.2	2597.4	2614.9	2702.5	2746.4	2772.6
5463.5	32.5°	5632.9	5463.5	4233.5	3202.1	2556.4	2439.6	2480.5	2571.1	2623.6	2652.9
5887.1	35°	6021.5	5627.1	4049.4	2804.8	2360.7	2343.2	2366.5	2416.2	2492.2	2512.6
6465.6	37.5°	6500.7	5875.4	3801.1	2486.3	2208.8	2229.2	2252.6	2270.1	2273.0	2311.0
7020.7	40°	6979.8	6085.8	3438.8	2182.5	2051.0	2162.0	2150.3	2118.2	2091.9	2056.8
7640.1	42.5°	7400.5	6269.9	3035.6	1925.4	1910.8	2091.9	2053.9	1972.1	1910.8	1884.5
8344.2	45°	7873.9	6529.9	2629.5	1764.7	1802.7	2007.2	1995.5	1869.9	1791.0	1697.5
9101.0	47.5°	8487.4	6801.6	2240.9	1598.1	1700.4	1975.0	1980.9	1820.2	1706.2	1580.6
10091.4	50°	9273.3	7193.1	1945.8	1528.0	1639.0	1928.3	1937.1	1753.0	1604.0	1475.4
11251.3	52.5°	10027.1	7593.4	1700.4	1419.9	1598.1	1872.8	1893.2	1691.6	1519.3	1358.6
11809.3	55°	10406.9	7447.3	1490.0	1341.0	1504.7	1782.2	1858.2	1647.8	1390.7	1279.7
12136.5	57.5°	10491.7	7087.9	1323.5	1259.2	1425.8	1685.8	1799.7	1516.3	1332.3	1238.8
12162.8	60°	10214.1	6459.8	1192.0	1171.6	1326.4	1586.5	1665.3	1446.2	1273.8	1197.9
11303.9	62.5°	9530.4	5808.2	1101.5	1130.7	1241.7	1478.4	1580.6	1396.6	1218.3	1165.7
9585.9	65°	7815.4	4776.9	1028.4	1051.8	1154.1	1373.2	1528.0	1341.0	1168.7	1119.0
6722.7	67.5°	5413.8	3292.7	970.0	1013.8	1083.9	1297.2	1475.4	1279.7	1104.4	1086.9
3675.4	70°	2772.6	1755.9	894.0	929.1	1008.0	1200.8	1381.9	1215.4	1037.2	1034.3
1685.8	72.5°	1405.3	1028.4	806.4	859.0	914.5	1075.2	1265.1	1130.7	952.5	920.3
1498.8	73°	1215.4	952.5	791.8	838.5	891.1	1040.1	1230.0	1110.2	940.8	894.0
1054.7	75°	885.3	750.9	710.0	756.7	797.6	937.9	1113.2	1016.7	864.8	815.1
777.2	77.5°	663.2	578.5	590.2	642.8	677.8	809.3	990.4	920.3	783.0	715.8
581.4	80°	487.9	441.2	487.9	537.6	563.9	712.9	902.8	797.6	660.3	584.3
412.0	82.5°	347.7	321.4	376.9	409.0	420.7	590.2	812.2	636.9	499.6	400.3
236.7	85°	198.7	195.8	254.2	251.3	260.0	344.8	534.7	423.6	321.4	245.4
119.8	87.5°	87.6	96.4	128.6	102.3	108.1	163.6	227.9	157.8	131.5	73.0
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>
3961.8
4213.0
4315.3
4213.0
4046.5
3812.8
3596.6
3295.6
3067.7
2945.0
2939.2
2848.6
2737.6
2685.0
2521.4
2296.4
2048.1
1840.6
1685.8
1563.1
1463.7
1367.3
1276.8
1227.1
1180.3
1127.8
1116.1
1063.5
1005.0
873.6
850.2
774.2
698.3
569.7
368.1
239.6
55.5
0.0

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