

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: P574733

Luminaire Tested: **EPH-VN-07-735-U-T3R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574733  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-735-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

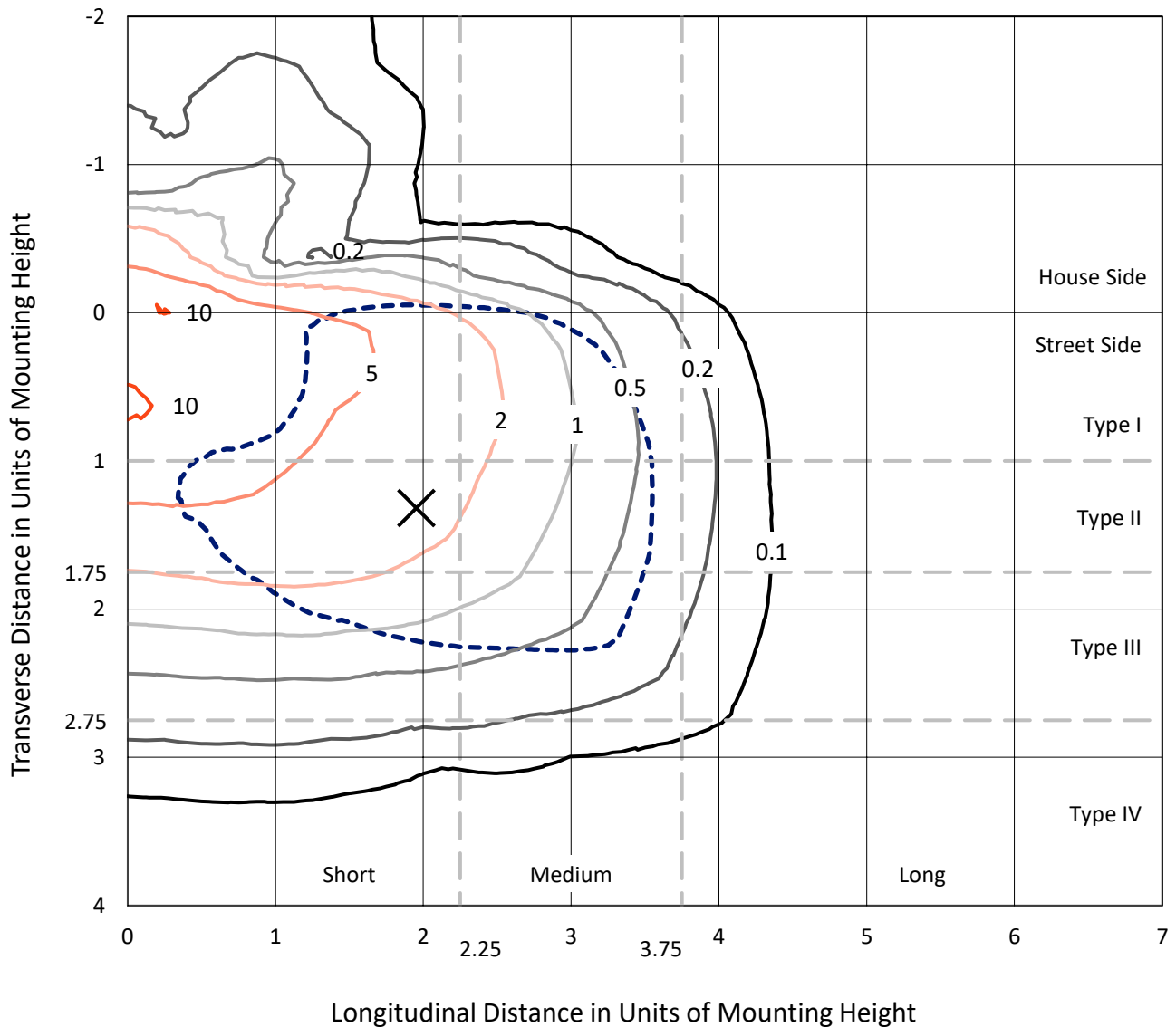
Lumens per Lamp: N/A  
Luminaire Lumens: 54692.4 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

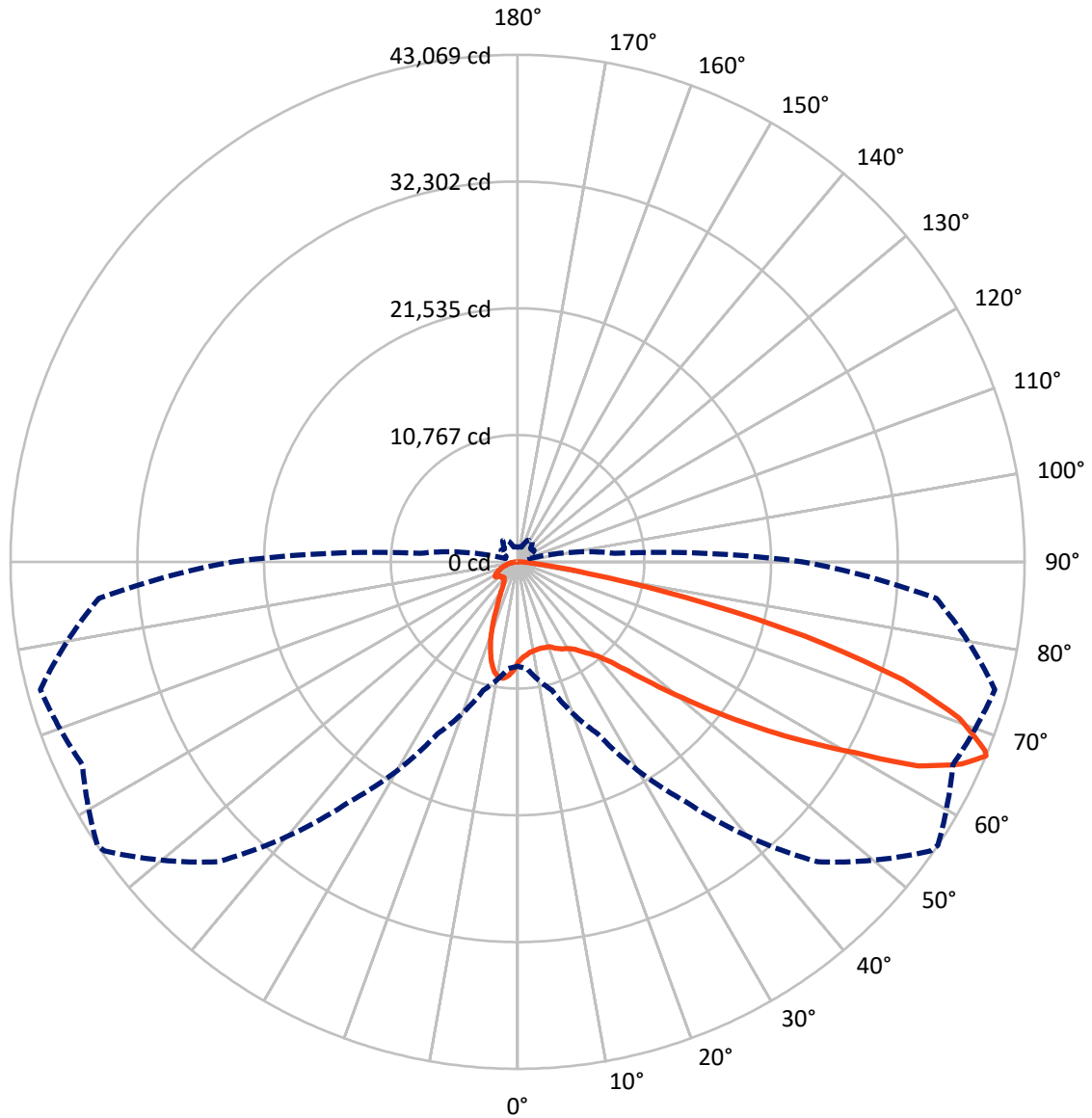
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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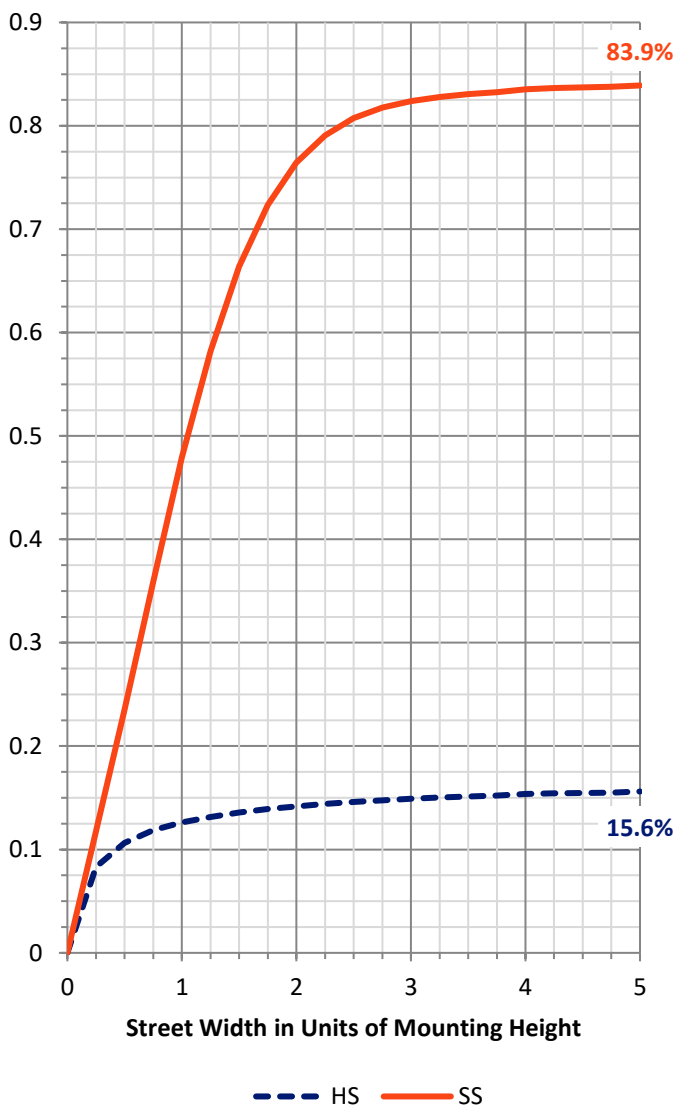
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8658.4	0.0	8658.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	46034.0	0.0	46034.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	54692.4	0.0	54692.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.8	1.5
10°-20°	2236.6	4.1
20°-30°	3507.6	6.4
30°-40°	5007.2	9.2
40°-50°	7557.3	13.8
50°-60°	12030.0	22.0
60°-70°	15379.4	28.1
70°-80°	7498.5	13.7
80°-90°	656.0	1.2
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°	54692.4	100.0
0°-180°	54692.4	100.0

**Coefficient of Utilization**



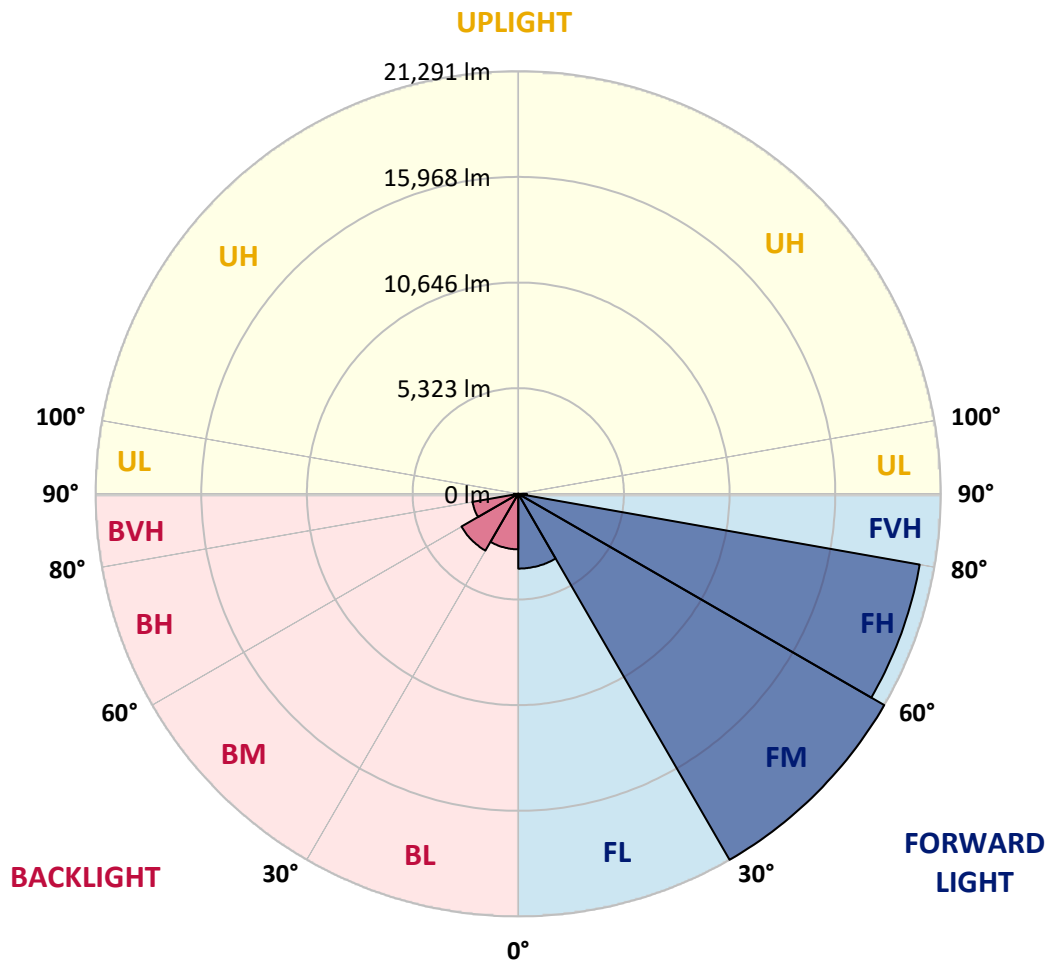
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.9	6.9			
FM (30°-60°)	21291.3	38.9			
FH (60°-80°)	20538.2	37.6			G5
FVH (80°-90°)	435.6	0.8			G3/500
BL (0°-30°)	2795.2	5.1	B4/5000		
BM (30°-60°)	3303.3	6.0	B3/5000		
BH (60°-80°)	2339.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	220.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0
2.5°	7817.4	7785.3	7823.8	7785.3	7958.5	8061.1	8093.1	8138.0	8298.4	8452.3
5°	7490.3	7349.2	7503.2	7554.5	7567.3	7740.4	7920.0	7952.1	8035.4	8285.5
7.5°	6945.2	7105.6	7047.8	7201.7	7362.1	7535.2	7830.2	7746.8	8054.7	8291.9
10°	6829.8	6842.6	6906.8	6964.5	7105.6	7330.0	7740.4	7689.1	8003.4	8510.0
12.5°	6945.2	6945.2	6926.0	6881.1	7041.4	7259.5	7586.5	7612.2	8106.0	8574.1
15°	7349.2	7426.2	7221.0	7253.1	7188.9	7259.5	7548.0	7605.8	8144.5	8625.4
17.5°	8336.8	8311.2	8067.5	7727.6	7445.4	7400.5	7599.3	7663.5	8106.0	8772.9
20°	9298.8	9247.5	8824.2	8471.5	7913.6	7650.7	7682.7	7689.1	8170.1	8869.1
22.5°	10369.7	10504.4	10042.7	9324.4	8631.8	7977.7	7849.5	7952.1	8317.6	8920.4
25°	12049.9	11761.4	11363.8	10421.0	9305.2	8484.3	8125.2	8176.5	8458.7	9048.7
27.5°	13262.0	13146.6	12524.5	11761.4	10247.9	8881.9	8272.7	8368.9	8715.2	9042.3
30°	14429.1	14429.1	14050.8	12909.3	11241.9	9548.9	8586.9	8542.1	8593.4	9029.4
32.5°	15795.1	15609.1	15064.0	14307.3	12492.4	10158.1	8837.0	8849.9	8849.9	9266.7
35°	16513.4	16814.8	16449.2	15217.9	13448.0	11171.4	9439.9	9343.7	9273.1	9529.6
37.5°	17565.1	17744.6	17359.9	16635.2	14634.4	11992.2	9972.1	9895.2	9484.8	9734.9
40°	18200.0	18167.9	18155.1	17821.6	16205.5	12960.6	10754.5	10555.7	10004.2	10459.5
42.5°	18559.1	18495.0	19283.8	19078.5	17686.9	14384.3	11735.7	11626.7	11017.5	11748.5
45°	18963.1	19437.7	20085.4	20662.5	19412.0	16385.1	13396.7	13242.7	12697.6	13627.5
47.5°	19315.8	19899.4	20726.7	21342.3	20970.4	18559.1	15448.8	15487.3	15128.2	16083.7
50°	19905.8	19963.5	21085.8	22329.9	22618.5	20566.3	18206.4	18142.2	17981.9	19322.2
52.5°	19726.2	19899.4	21316.7	22907.1	23381.6	22689.0	21169.2	21361.5	21149.9	22836.5
55°	16801.9	17321.4	21175.6	23516.3	25190.1	25087.5	24978.5	24850.2	24837.4	26786.9
57.5°	15474.5	15897.7	18655.3	24189.7	27126.8	27883.5	28588.9	28730.0	28723.6	31077.2
60°	14602.3	15038.4	17635.6	23824.1	28774.9	31545.3	32898.5	32917.7	32879.2	35662.4
62.5°	12896.4	13319.7	15872.1	21823.3	29230.2	34924.9	37939.0	38189.1	36425.6	39612.8
65°	10844.3	11190.6	13441.6	18764.3	28018.2	37073.3	41729.1	41434.1	39414.0	41870.2
67°	8869.1	9100.0	11293.2	16109.3	24850.2	36040.8	42825.7	43069.4	40792.8	41966.4
67.5°	8304.8	8516.4	10587.8	15205.1	23644.6	35258.4	42864.2	42825.7	40818.4	41985.6
70°	5765.2	5855.0	7214.6	10459.5	17417.6	29788.2	39734.7	39824.4	39106.2	39709.0
72.5°	3822.1	3956.8	4822.5	6592.5	10267.1	21675.8	33212.7	34174.6	33719.3	32558.6
75°	2462.6	2539.5	3155.2	3924.7	5053.4	12344.9	24536.0	25177.3	24131.9	20136.7
77.5°	1378.8	1462.2	1904.6	2385.6	2462.6	5136.8	13781.4	14576.6	12351.3	8554.9
80°	859.3	968.4	1436.5	1417.3	1173.6	1885.4	5681.9	6085.9	4938.0	2943.5
82.5°	647.7	731.1	1109.4	994.0	660.5	840.1	2129.1	2283.0	1808.5	1135.1
85°	442.5	557.9	801.6	615.6	346.3	404.0	846.5	910.6	827.3	551.5
87.5°	160.3	237.3	416.8	307.8	153.9	121.8	275.8	307.8	295.0	250.1
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°
8510.0	0°	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0	8510.0
8586.9	2.5°	8708.8	8798.6	8843.5	9106.4	9215.4	9196.2	9221.8	9260.3	9298.8	9350.1
8696.0	5°	8779.3	9055.1	9202.6	9510.4	9715.6	9625.8	9741.3	9709.2	9664.3	9657.9
8894.8	7.5°	9010.2	9362.9	9805.4	9888.8	9978.6	9754.1	9561.7	9298.8	9234.7	9010.2
9061.5	10°	9420.6	9709.2	10247.9	10280.0	9882.4	9305.2	8875.5	8330.4	8324.0	7997.0
9318.0	12.5°	9811.8	10138.9	10575.0	10389.0	9439.9	8651.1	7952.1	7355.7	7105.6	6938.8
9471.9	15°	10055.5	10594.2	10825.1	10023.4	8663.9	7599.3	6695.1	6053.8	5797.3	5675.5
9664.3	17.5°	10280.0	11030.3	10927.7	9382.2	7708.4	6515.6	5438.2	4880.3	4809.7	4719.9
9972.1	20°	10587.8	11190.6	10562.1	8548.5	6624.6	5117.5	4431.4	4162.0	4226.1	4264.6
10004.2	22.5°	10876.4	11274.0	10100.4	7637.8	5233.0	4053.0	3713.1	3770.8	3867.0	3995.3
10081.2	25°	11004.6	11408.6	9478.3	6380.9	3982.4	3411.7	3334.7	3430.9	3591.3	3597.7
10190.2	27.5°	11088.0	11312.4	8728.0	5156.0	3148.8	2982.0	3097.5	3168.0	3187.2	3264.2
10421.0	30°	11235.5	11113.6	7778.9	3687.4	2642.1	2648.5	2796.0	2796.0	2796.0	2853.8
10651.9	32.5°	11492.0	10979.0	6669.5	2693.4	2276.6	2481.8	2443.3	2430.5	2404.9	2334.3
10946.9	35°	11652.3	10613.4	5265.0	1994.4	2045.7	2276.6	2263.8	2065.0	1731.5	1564.8
11697.2	37.5°	11985.8	10427.5	3873.4	1539.1	1911.1	2174.0	2103.4	1622.5	1256.9	1096.6
12627.1	40°	12704.1	10305.6	2680.6	1346.7	1821.3	2122.7	1879.0	1385.2	961.9	679.8
14063.6	42.5°	13582.6	10312.0	1821.3	1269.8	1827.7	2231.7	1808.5	1186.4	679.8	545.1
15981.1	45°	14762.6	10215.8	1250.5	1269.8	1943.1	2411.3	1853.3	1077.4	660.5	692.6
18385.9	47.5°	16032.4	10299.2	929.9	1154.3	1962.4	2417.7	1693.0	1058.1	634.9	801.6
21002.4	50°	17513.8	10382.6	769.6	1064.6	1968.8	2340.7	1558.3	1032.5	660.5	846.5
24003.7	52.5°	19040.1	10645.5	654.1	1006.8	2045.7	2308.7	1558.3	1071.0	660.5	737.5
27825.8	55°	21316.7	11318.9	942.7	1256.9	2327.9	2520.3	1917.5	1500.6	923.5	949.1
31487.6	57.5°	23830.5	12011.5	1051.7	1321.1	2392.0	2270.2	2065.0	1654.5	974.8	981.2
34335.0	60°	25485.1	12037.1	1045.3	1289.0	2238.1	1962.4	2020.1	1744.3	994.0	840.1
36098.5	62.5°	26145.6	11254.7	1090.2	1289.0	2084.2	1834.1	2071.4	1879.0	1026.1	1051.7
36598.7	65°	25395.3	9638.7	1051.7	1154.3	1834.1	1641.7	2084.2	1904.6	1122.3	1058.1
35700.9	67°	24221.7	8304.8	1071.0	1096.6	1705.8	1558.3	2193.2	2000.8	1301.8	1269.8
35232.8	67.5°	23888.3	7952.1	1064.6	1064.6	1661.0	1532.7	2218.9	2000.8	1327.5	1314.7
31096.4	70°	21053.7	6445.0	1090.2	1051.7	1468.6	1455.7	2360.0	2109.9	1526.3	1539.1
22842.9	72.5°	16026.0	4886.7	1083.8	1051.7	1276.2	1391.6	2379.2	2180.4	1661.0	1539.1
12793.8	75°	9106.4	2924.3	955.5	917.1	1006.8	1212.0	2225.3	2077.8	1616.1	1378.8
5111.1	77.5°	3764.4	1507.0	878.6	827.3	833.7	987.6	1853.3	1936.7	1539.1	1173.6
1705.8	80°	1404.4	904.2	705.4	660.5	641.3	724.7	1321.1	1545.5	1314.7	961.9
750.3	82.5°	731.1	564.3	481.0	481.0	436.1	461.7	711.8	1026.1	994.0	660.5
301.4	85°	372.0	320.6	275.8	269.3	243.7	218.0	359.1	609.2	570.8	365.5
134.7	87.5°	198.8	179.6	115.4	109.0	89.8	57.7	64.1	121.8	198.8	160.3
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>
8510.0
9401.4
9715.6
9087.2
7984.1
6900.3
5649.8
4764.8
4219.7
3924.7
3661.8
3334.7
2917.9
2295.8
1641.7
1090.2
660.5
532.3
705.4
891.4
981.2
756.7
1000.4
949.1
865.7
1064.6
1038.9
1250.5
1289.0
1423.7
1366.0
1231.3
1109.4
878.6
519.4
301.4
115.4
0.0

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