

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: P574739

Luminaire Tested: **EPH-VN-07-740-U-T3R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574739  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-T3R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

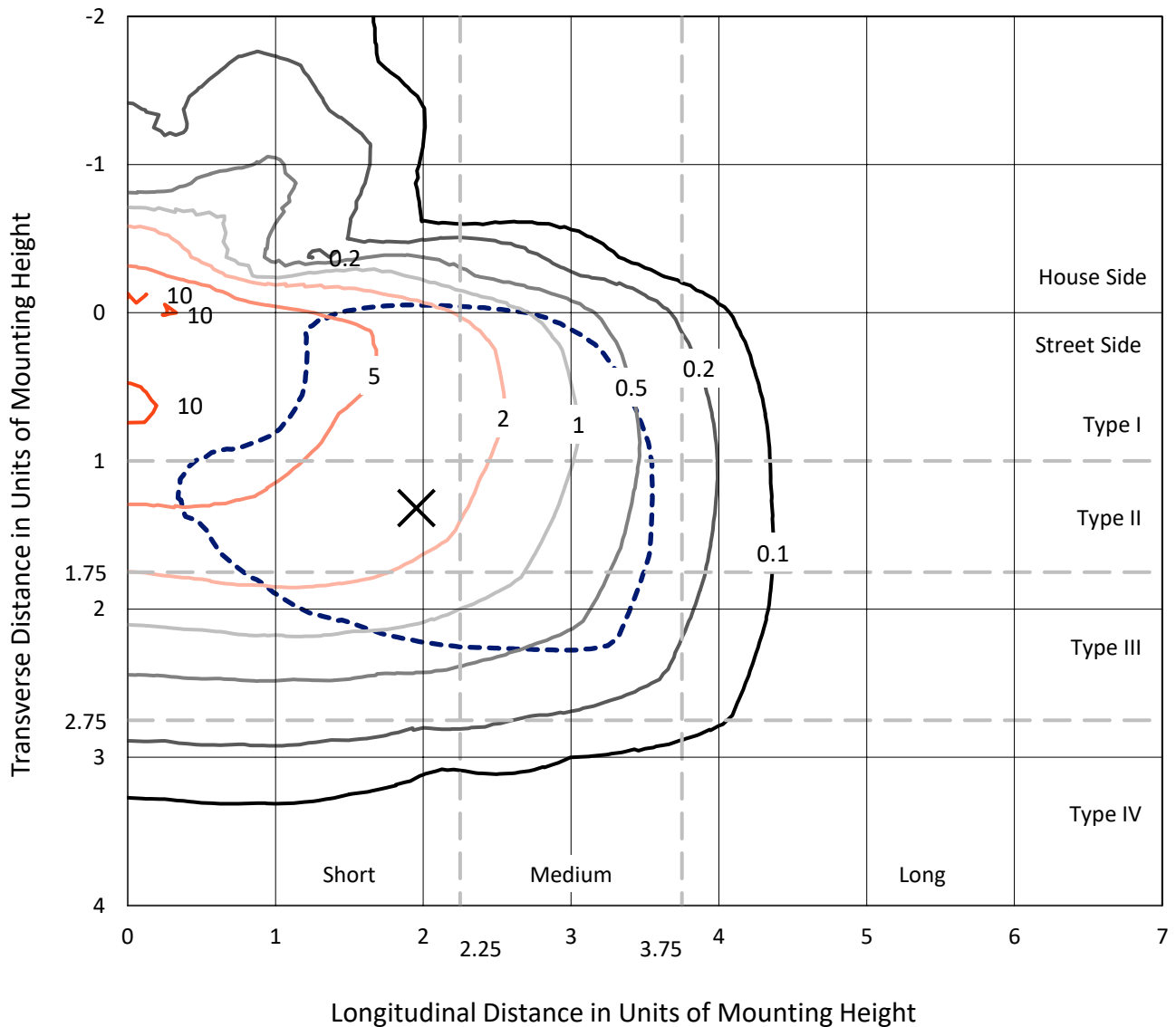
Lumens per Lamp: N/A  
Luminaire Lumens: 55452.1 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

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

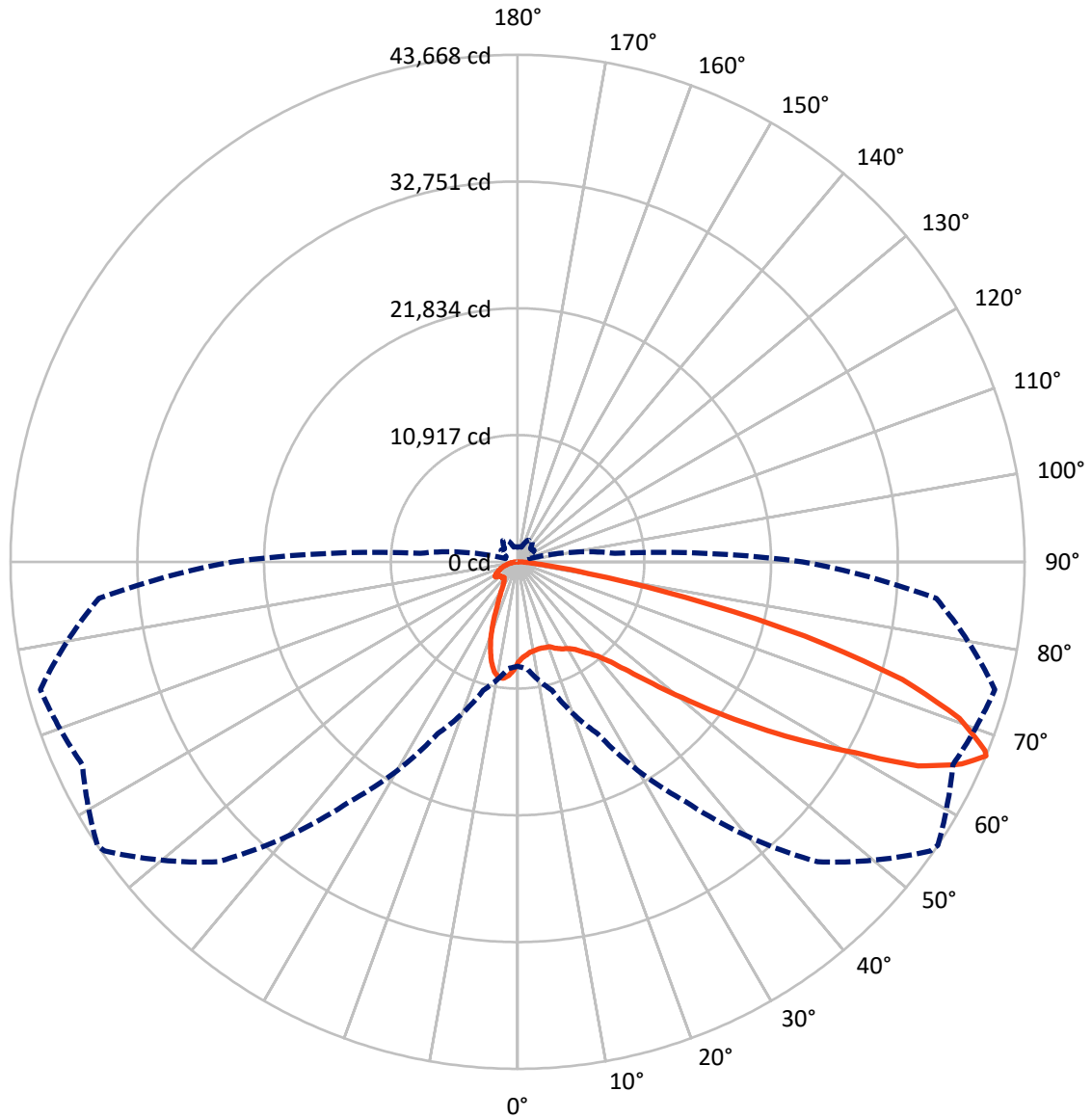
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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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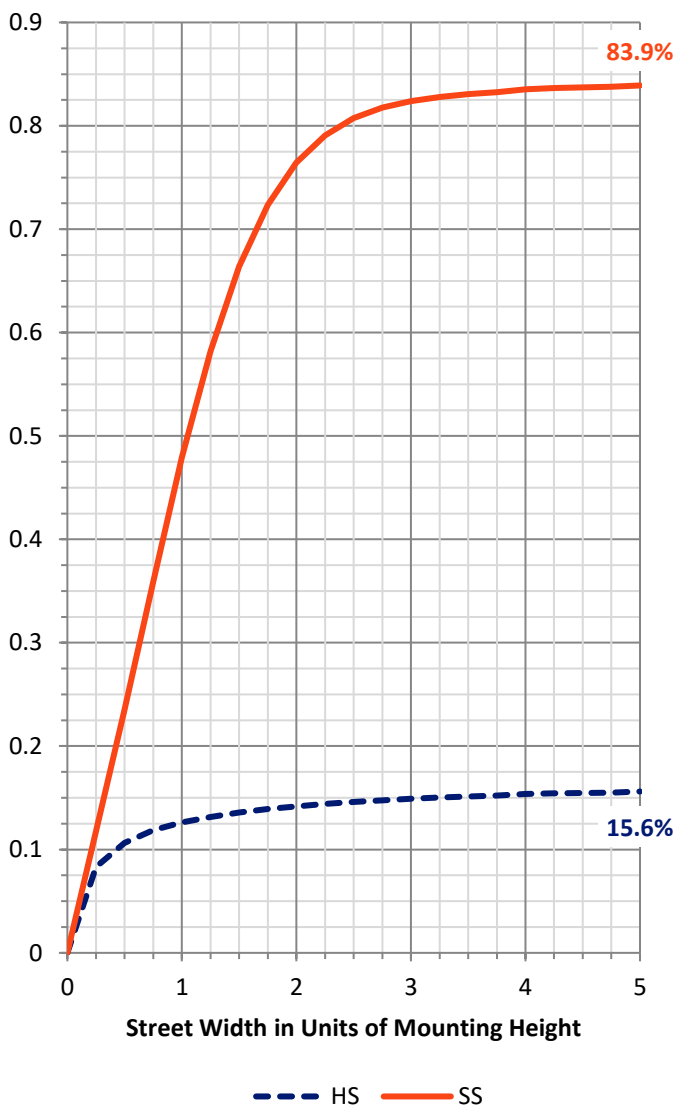
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8778.6	0.0	8778.6
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	46673.4	0.0	46673.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	55452.1	0.0	55452.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.2	1.5
10°-20°	2267.7	4.1
20°-30°	3556.4	6.4
30°-40°	5076.8	9.2
40°-50°	7662.3	13.8
50°-60°	12197.1	22.0
60°-70°	15593.0	28.1
70°-80°	7602.6	13.7
80°-90°	665.1	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°	55452.1	100.0
0°-180°	55452.1	100.0

**Coefficient of Utilization**

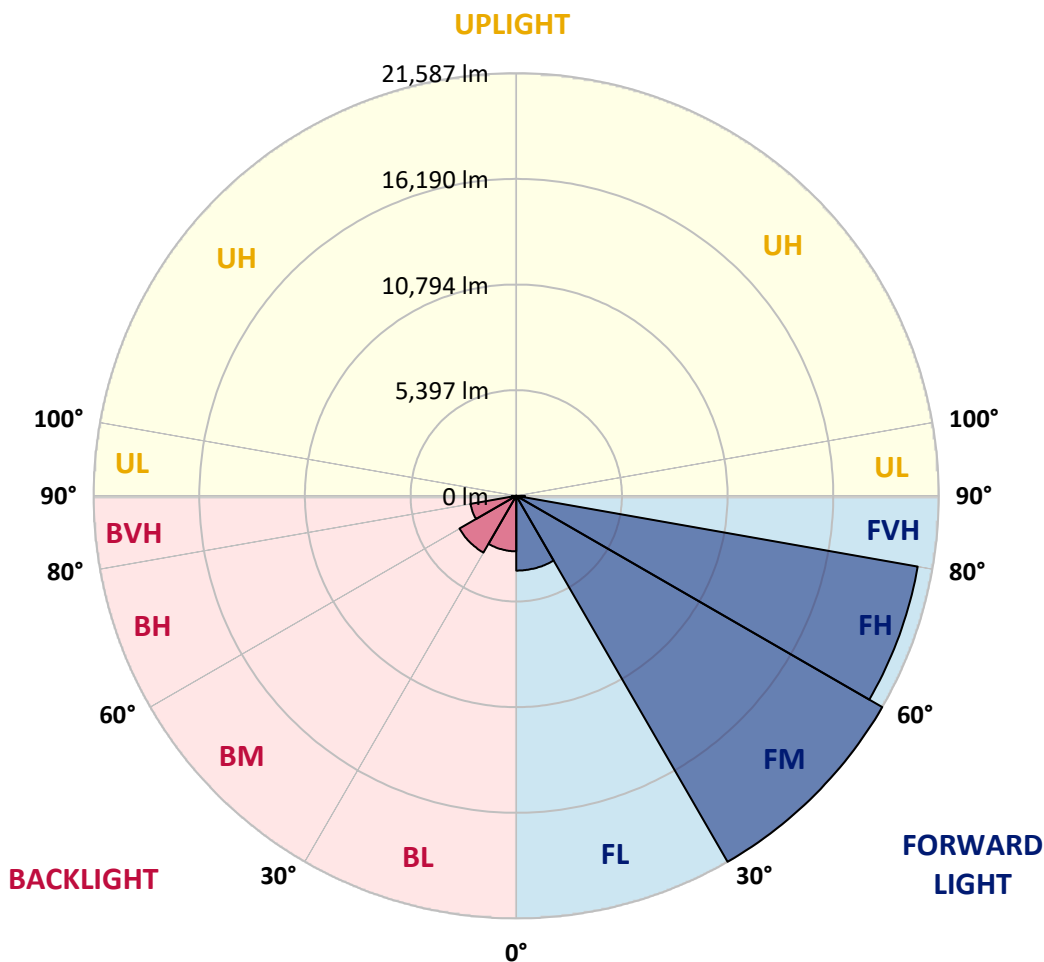


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3821.3	6.9			
FM (30°-60°)	21587.0	38.9			
FH (60°-80°)	20823.5	37.6			G5
FVH (80°-90°)	441.7	0.8			G3/500
BL (0°-30°)	2834.0	5.1	B4/5000		
BM (30°-60°)	3349.1	6.0	B3/5000		
BH (60°-80°)	2372.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	223.4	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°	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2
2.5°	7926.0	7893.5	7932.5	7893.5	8069.0	8173.1	8205.6	8251.1	8413.6	8569.7
5°	7594.4	7451.3	7607.4	7659.4	7672.4	7848.0	8030.0	8062.5	8147.0	8400.6
7.5°	7041.7	7204.3	7145.7	7301.8	7464.3	7639.9	7939.0	7854.5	8166.6	8407.1
10°	6924.7	6937.7	7002.7	7061.2	7204.3	7431.8	7848.0	7795.9	8114.5	8628.2
12.5°	7041.7	7041.7	7022.2	6976.7	7139.2	7360.3	7691.9	7717.9	8218.6	8693.2
15°	7451.3	7529.4	7321.3	7353.8	7288.8	7360.3	7652.9	7711.4	8257.6	8745.2
17.5°	8452.6	8426.6	8179.6	7834.9	7548.9	7503.3	7704.9	7769.9	8218.6	8894.8
20°	9427.9	9375.9	8946.8	8589.2	8023.5	7756.9	7789.4	7795.9	8283.6	8992.3
22.5°	10513.8	10650.3	10182.2	9454.0	8751.7	8088.5	7958.5	8062.5	8433.1	9044.3
25°	12217.3	11924.7	11521.6	10565.8	9434.4	8602.2	8238.1	8290.1	8576.2	9174.4
27.5°	13446.2	13329.2	12698.5	11924.7	10390.2	9005.3	8387.6	8485.2	8836.3	9167.9
30°	14629.6	14629.6	14246.0	13088.6	11398.1	9681.5	8706.2	8660.7	8712.7	9154.9
32.5°	16014.5	15825.9	15273.3	14506.0	12666.0	10299.2	8959.8	8972.8	8972.8	9395.4
35°	16742.7	17048.3	16677.7	15429.3	13634.8	11326.5	9571.0	9473.5	9401.9	9662.0
37.5°	17809.1	17991.1	17601.0	16866.3	14837.6	12158.8	10110.7	10032.6	9616.5	9870.1
40°	18452.8	18420.3	18407.3	18069.1	16430.6	13140.6	10903.9	10702.3	10143.2	10604.8
42.5°	18816.9	18751.9	19551.6	19343.5	17932.6	14584.1	11898.7	11788.2	11170.5	11911.7
45°	19226.5	19707.7	20364.4	20949.5	19681.6	16612.7	13582.7	13426.7	12874.0	13816.8
47.5°	19584.1	20175.8	21014.6	21638.8	21261.6	18816.9	15663.4	15702.4	15338.3	16307.1
50°	20182.3	20240.8	21378.7	22640.1	22932.7	20852.0	18459.3	18394.2	18231.7	19590.6
52.5°	20000.2	20175.8	21612.8	23225.3	23706.4	23004.2	21463.2	21658.3	21443.7	23153.7
55°	17035.3	17562.0	21469.7	23842.9	25540.0	25435.9	25325.4	25195.4	25182.4	27159.0
57.5°	15689.4	16118.5	18914.4	24525.7	27503.6	28270.8	28986.1	29129.1	29122.6	31508.8
60°	14805.1	15247.3	17880.6	24155.0	29174.6	31983.5	33355.4	33374.9	33335.9	36157.8
62.5°	13075.6	13504.7	16092.5	22126.4	29636.3	35410.1	38466.0	38719.6	36931.5	40163.0
65°	10994.9	11346.0	13628.3	19024.9	28407.4	37588.2	42308.7	42009.6	39961.5	42451.8
67°	8992.3	9226.4	11450.1	16333.1	25195.4	36541.4	43420.6	43667.6	41359.4	42549.3
67.5°	8420.1	8634.7	10734.9	15416.3	23973.0	35748.2	43459.6	43420.6	41385.4	42568.8
70°	5845.3	5936.4	7314.8	10604.8	17659.5	30201.9	40286.6	40377.6	39649.4	40260.6
72.5°	3875.2	4011.8	4889.5	6684.1	10409.8	21976.9	33674.0	34649.3	34187.7	33010.8
75°	2496.8	2574.8	3199.0	3979.2	5123.6	12516.4	24876.8	25527.0	24467.1	20416.4
77.5°	1397.9	1482.5	1931.1	2418.8	2496.8	5208.1	13972.9	14779.1	12522.9	8673.7
80°	871.3	981.8	1456.5	1436.9	1189.9	1911.6	5760.8	6170.4	5006.6	2984.4
82.5°	656.7	741.2	1124.9	1007.8	669.7	851.8	2158.7	2314.7	1833.6	1150.9
85°	448.6	565.7	812.8	624.2	351.1	409.6	858.3	923.3	838.8	559.2
87.5°	162.6	240.6	422.6	312.1	156.0	123.5	279.6	312.1	299.1	253.6
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°
8628.2	0°	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2	8628.2
8706.2	2.5°	8829.8	8920.8	8966.3	9232.9	9343.4	9323.9	9349.9	9388.9	9427.9	9480.0
8816.8	5°	8901.3	9180.9	9330.4	9642.5	9850.6	9759.5	9876.6	9844.1	9798.6	9792.1
9018.3	7.5°	9135.4	9493.0	9941.6	10026.1	10117.2	9889.6	9694.5	9427.9	9362.9	9135.4
9187.4	10°	9551.5	9844.1	10390.2	10422.8	10019.6	9434.4	8998.8	8446.1	8439.6	8108.0
9447.5	12.5°	9948.1	10279.7	10721.8	10533.3	9571.0	8771.2	8062.5	7457.8	7204.3	7035.2
9603.5	15°	10195.2	10741.4	10975.4	10162.7	8784.2	7704.9	6788.1	6137.9	5877.8	5754.3
9798.6	17.5°	10422.8	11183.5	11079.5	9512.5	7815.4	6606.1	5513.7	4948.0	4876.5	4785.5
10110.7	20°	10734.9	11346.0	10708.8	8667.2	6716.6	5188.6	4492.9	4219.8	4284.8	4323.9
10143.2	22.5°	11027.4	11430.6	10240.7	7743.9	5305.7	4109.3	3764.7	3823.2	3920.7	4050.8
10221.2	25°	11157.5	11567.1	9610.0	6469.5	4037.8	3459.1	3381.1	3478.6	3641.1	3647.6
10331.7	27.5°	11242.0	11469.6	8849.3	5227.6	3192.5	3023.4	3140.5	3212.0	3231.5	3309.5
10565.8	30°	11391.6	11268.0	7887.0	3738.7	2678.8	2685.3	2834.9	2834.9	2834.9	2893.4
10799.9	32.5°	11651.6	11131.5	6762.1	2730.9	2308.2	2516.3	2477.3	2464.3	2438.3	2366.7
11099.0	35°	11814.2	10760.9	5338.2	2022.1	2074.1	2308.2	2295.2	2093.7	1755.5	1586.5
11859.7	37.5°	12152.3	10572.3	3927.2	1560.5	1937.6	2204.2	2132.7	1645.0	1274.4	1111.8
12802.5	40°	12880.5	10448.8	2717.8	1365.4	1846.6	2152.2	1905.1	1404.4	975.3	689.2
14259.0	42.5°	13771.3	10455.3	1846.6	1287.4	1853.1	2262.7	1833.6	1202.9	689.2	552.7
16203.1	45°	14967.7	10357.7	1267.9	1287.4	1970.1	2444.8	1879.1	1092.3	669.7	702.2
18641.3	47.5°	16255.1	10442.3	942.8	1170.4	1989.6	2451.3	1716.5	1072.8	643.7	812.8
21294.2	50°	17757.0	10526.8	780.2	1079.3	1996.1	2373.2	1580.0	1046.8	669.7	858.3
24337.1	52.5°	19304.5	10793.4	663.2	1020.8	2074.1	2340.7	1580.0	1085.8	669.7	747.7
28212.3	55°	21612.8	11476.1	955.8	1274.4	2360.2	2555.3	1944.1	1521.5	936.3	962.3
31925.0	57.5°	24161.5	12178.3	1066.3	1339.4	2425.3	2301.7	2093.7	1677.5	988.3	994.8
34811.9	60°	25839.1	12204.3	1059.8	1306.9	2269.2	1989.6	2048.1	1768.6	1007.8	851.8
36599.9	62.5°	26508.8	11411.1	1105.3	1306.9	2113.2	1859.6	2100.2	1905.1	1040.3	1066.3
37107.1	65°	25748.0	9772.6	1066.3	1170.4	1859.6	1664.5	2113.2	1931.1	1137.9	1072.8
36196.8	67°	24558.2	8420.1	1085.8	1111.8	1729.5	1580.0	2223.7	2028.6	1319.9	1287.4
35722.2	67.5°	24220.1	8062.5	1079.3	1079.3	1684.0	1554.0	2249.7	2028.6	1345.9	1332.9
31528.3	70°	21346.2	6534.5	1105.3	1066.3	1489.0	1476.0	2392.7	2139.2	1547.5	1560.5
23160.2	72.5°	16248.6	4954.5	1098.8	1066.3	1293.9	1410.9	2412.3	2210.7	1684.0	1560.5
12971.6	75°	9232.9	2964.9	968.8	929.8	1020.8	1228.9	2256.2	2106.7	1638.5	1397.9
5182.1	77.5°	3816.7	1528.0	890.8	838.8	845.3	1001.3	1879.1	1963.6	1560.5	1189.9
1729.5	80°	1423.9	916.8	715.2	669.7	650.2	734.7	1339.4	1567.0	1332.9	975.3
760.7	82.5°	741.2	572.2	487.7	487.7	442.1	468.1	721.7	1040.3	1007.8	669.7
305.6	85°	377.1	325.1	279.6	273.1	247.1	221.1	364.1	617.7	578.7	370.6
136.5	87.5°	201.6	182.1	117.0	110.5	91.0	58.5	65.0	123.5	201.6	162.6
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>
8628.2
9532.0
9850.6
9213.4
8095.0
6996.2
5728.3
4831.0
4278.3
3979.2
3712.7
3381.1
2958.4
2327.7
1664.5
1105.3
669.7
539.7
715.2
903.8
994.8
767.2
1014.3
962.3
877.8
1079.3
1053.3
1267.9
1306.9
1443.5
1384.9
1248.4
1124.9
890.8
526.7
305.6
117.0
0.0

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