

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: P574738

Luminaire Tested: **EPH-VN-06-740-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574738
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-740-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

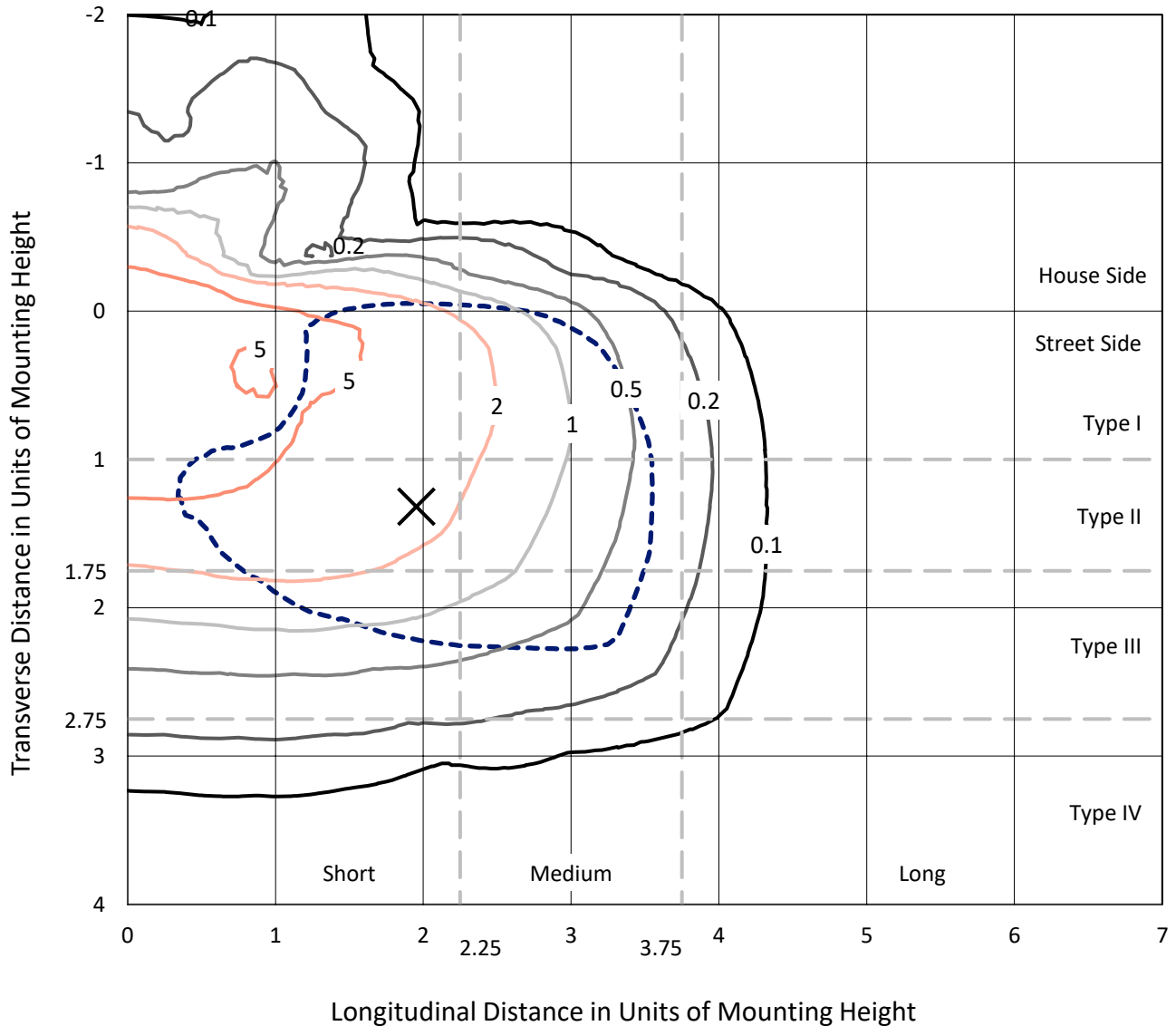
Lumens per Lamp: N/A
Luminaire Lumens: 51976.3 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

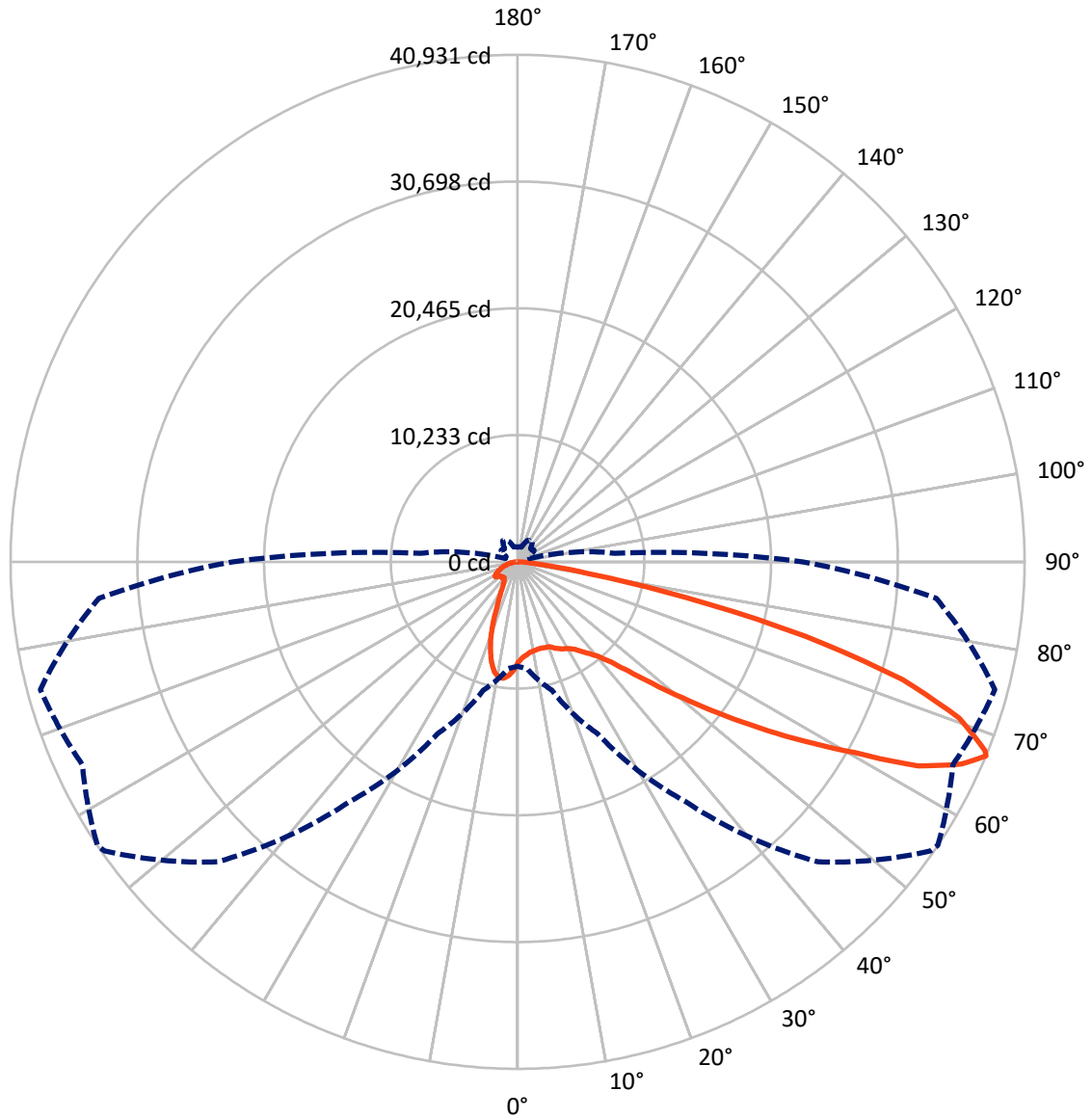
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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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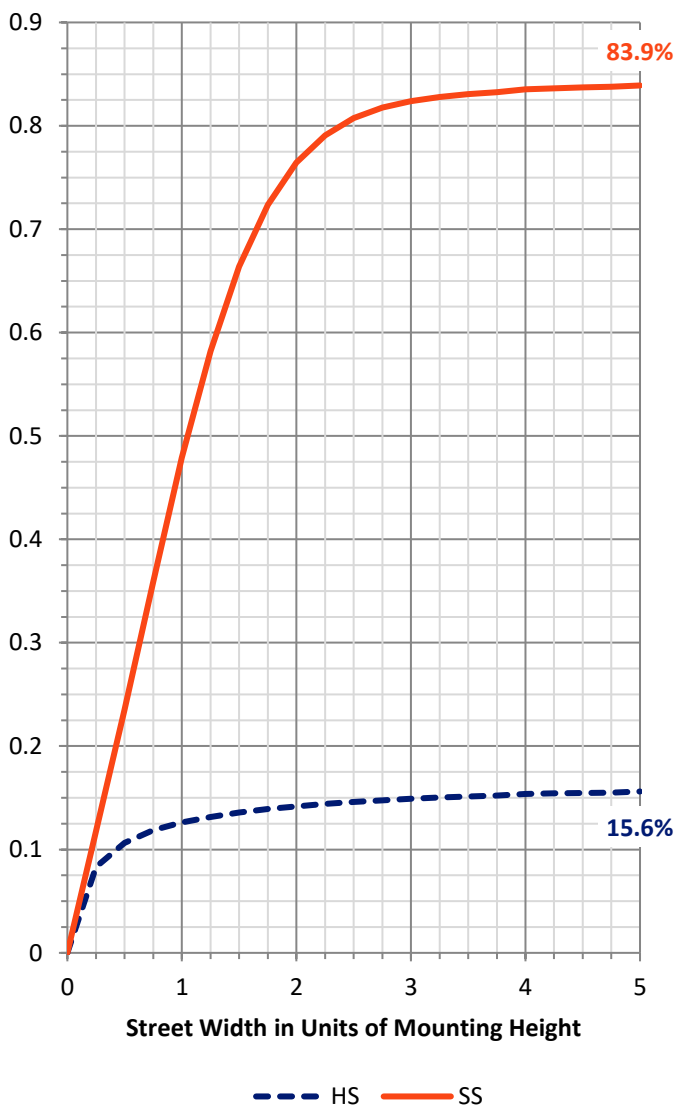
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8228.4	0.0	8228.4
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	43747.9	0.0	43747.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	51976.3	0.0	51976.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.1	1.5
10°-20°	2125.5	4.1
20°-30°	3333.5	6.4
30°-40°	4758.6	9.2
40°-50°	7182.0	13.8
50°-60°	11432.5	22.0
60°-70°	14615.6	28.1
70°-80°	7126.1	13.7
80°-90°	623.4	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°	51976.3	100.0
0°-180°	51976.3	100.0

Coefficient of Utilization

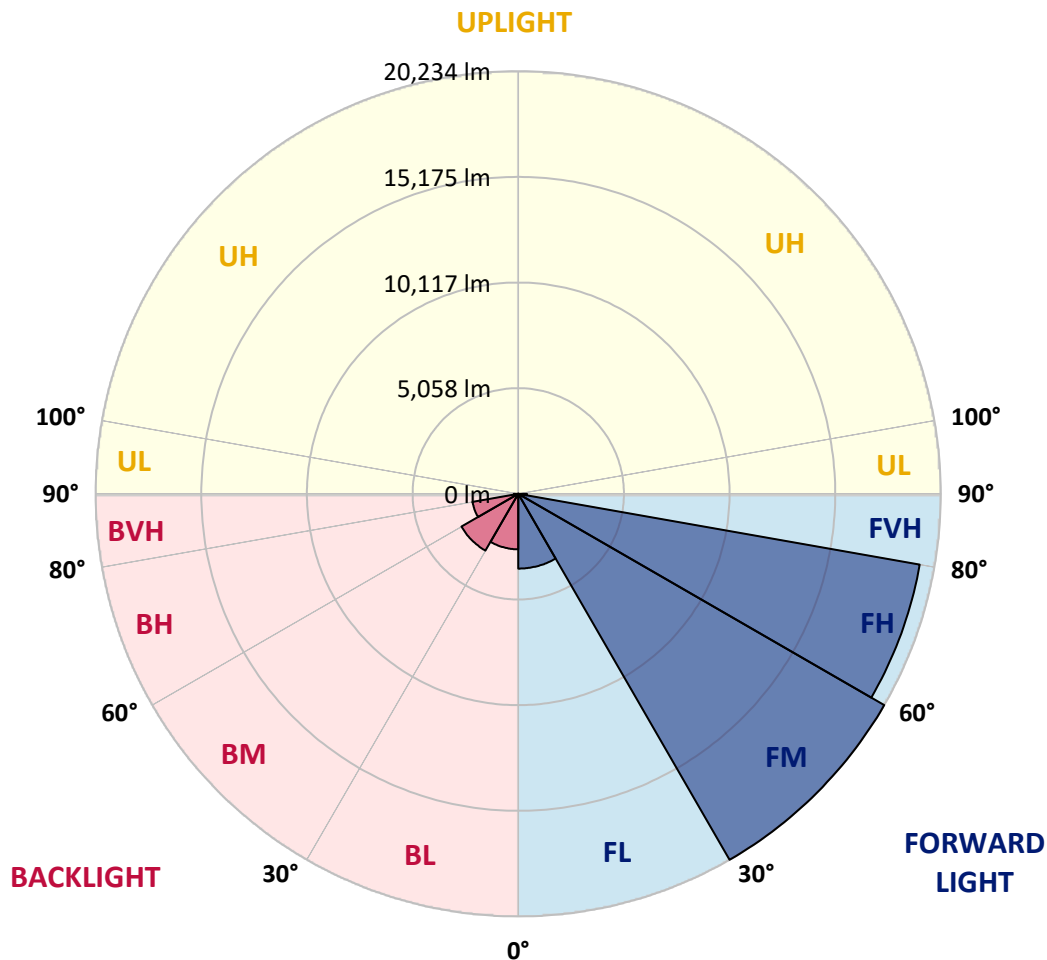


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3581.7	6.9			
FM (30°-60°)	20233.9	38.9			
FH (60°-80°)	19518.2	37.6			G5
FVH (80°-90°)	414.0	0.8			G3/500
BL (0°-30°)	2656.3	5.1	B4/5000		
BM (30°-60°)	3139.2	6.0	B3/5000		
BH (60°-80°)	2223.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	209.4	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°	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4
2.5°	7429.2	7398.7	7435.3	7398.7	7563.2	7660.8	7691.2	7733.9	7886.2	8032.5
5°	7118.3	6984.3	7130.5	7179.3	7191.5	7356.0	7526.7	7557.1	7636.4	7874.1
7.5°	6600.3	6752.7	6697.8	6844.1	6996.5	7161.0	7441.4	7362.1	7654.7	7880.2
10°	6490.6	6502.8	6563.7	6618.6	6752.7	6966.0	7356.0	7307.3	7605.9	8087.4
12.5°	6600.3	6600.3	6582.0	6539.4	6691.7	6898.9	7209.8	7234.1	7703.4	8148.3
15°	6984.3	7057.4	6862.4	6892.8	6831.9	6898.9	7173.2	7228.0	7740.0	8197.1
17.5°	7922.8	7898.4	7666.8	7343.8	7075.7	7033.0	7222.0	7282.9	7703.4	8337.2
20°	8837.0	8788.2	8386.0	8050.8	7520.6	7270.7	7301.2	7307.3	7764.4	8428.7
22.5°	9854.8	9982.7	9543.9	8861.4	8203.2	7581.5	7459.6	7557.1	7904.5	8477.4
25°	11451.5	11177.3	10799.4	9903.5	8843.1	8063.0	7721.7	7770.5	8038.6	8599.3
27.5°	12603.4	12493.7	11902.5	11177.3	9739.0	8440.8	7861.9	7953.3	8282.4	8593.2
30°	13712.6	13712.6	13353.0	12268.2	10683.6	9074.7	8160.5	8117.8	8166.6	8581.0
32.5°	15010.7	14833.9	14315.9	13596.8	11872.0	9653.6	8398.2	8410.4	8410.4	8806.5
35°	15693.3	15979.7	15632.3	14462.2	12780.1	10616.6	8971.1	8879.6	8812.6	9056.4
37.5°	16692.8	16863.4	16497.7	15809.1	13907.6	11396.7	9476.9	9403.8	9013.7	9251.4
40°	17296.1	17265.6	17253.5	16936.5	15400.7	12316.9	10220.4	10031.5	9507.4	9940.1
42.5°	17637.4	17576.5	18326.1	18131.1	16808.6	13669.9	11152.9	11049.3	10470.3	11165.1
45°	18021.4	18472.3	19087.9	19636.4	18448.0	15571.4	12731.4	12585.1	12067.1	12950.8
47.5°	18356.6	18911.2	19697.3	20282.4	19928.9	17637.4	14681.6	14718.2	14376.9	15284.9
50°	18917.2	18972.1	20038.6	21221.0	21495.2	19545.0	17302.2	17241.3	17088.9	18362.6
52.5°	18746.6	18911.2	20258.0	21769.5	22220.5	21562.2	20117.9	20300.7	20099.6	21702.4
55°	15967.5	16461.2	20124.0	22348.4	23939.1	23841.6	23738.0	23616.1	23603.9	25456.6
57.5°	14706.0	15108.2	17728.8	22988.4	25779.6	26498.8	27169.2	27303.2	27297.1	29533.8
60°	13877.1	14291.5	16759.8	22641.0	27345.9	29978.7	31264.7	31282.9	31246.4	33891.4
62.5°	12256.0	12658.2	15083.8	20739.5	27778.6	33190.5	36054.9	36292.6	34616.6	37645.6
65°	10305.8	10634.9	12774.0	17832.4	26626.8	35232.2	39656.7	39376.4	37456.6	39790.8
67°	8428.7	8648.1	10732.4	15309.3	23616.1	34250.9	40698.9	40930.5	38766.9	39882.2
67.5°	7892.3	8093.5	10062.0	14450.0	22470.3	33507.4	40735.5	40698.9	38791.3	39900.5
70°	5478.9	5564.3	6856.3	9940.1	16552.6	28308.8	37761.4	37846.7	37164.1	37737.0
72.5°	3632.3	3760.3	4583.0	6265.1	9757.3	20599.3	31563.3	32477.5	32044.7	30941.6
75°	2340.3	2413.4	2998.5	3729.8	4802.4	11731.9	23317.5	23926.9	22933.5	19136.6
77.5°	1310.3	1389.5	1810.1	2267.1	2340.3	4881.7	13097.0	13852.7	11738.0	8130.0
80°	816.7	920.3	1365.2	1346.9	1115.3	1791.8	5399.7	5783.7	4692.7	2797.4
82.5°	615.5	694.8	1054.3	944.6	627.7	798.4	2023.4	2169.6	1718.6	1078.7
85°	420.5	530.2	761.8	585.1	329.1	384.0	804.5	865.4	786.2	524.1
87.5°	152.4	225.5	396.1	292.5	146.3	115.8	262.1	292.5	280.3	237.7
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°
8087.4	0°	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4	8087.4
8160.5	2.5°	8276.3	8361.6	8404.3	8654.2	8757.8	8739.5	8763.9	8800.4	8837.0	8885.7
8264.1	5°	8343.3	8605.4	8745.6	9038.1	9233.1	9147.8	9257.5	9227.0	9184.4	9178.3
8453.0	7.5°	8562.7	8897.9	9318.5	9397.7	9483.0	9269.7	9086.9	8837.0	8776.0	8562.7
8611.5	10°	8952.8	9227.0	9739.0	9769.4	9391.6	8843.1	8434.8	7916.7	7910.6	7599.8
8855.3	12.5°	9324.5	9635.4	10049.8	9873.0	8971.1	8221.4	7557.1	6990.4	6752.7	6594.2
9001.5	15°	9556.1	10068.1	10287.5	9525.7	8233.6	7222.0	6362.6	5753.2	5509.4	5393.6
9184.4	17.5°	9769.4	10482.5	10385.0	8916.2	7325.6	6192.0	5168.1	4637.9	4570.9	4485.5
9476.9	20°	10062.0	10634.9	10037.6	8123.9	6295.6	4863.4	4211.3	3955.3	4016.3	4052.8
9507.4	22.5°	10336.2	10714.1	9598.8	7258.5	4973.1	3851.7	3528.7	3583.6	3675.0	3796.9
9580.5	25°	10458.1	10842.1	9007.6	6064.0	3784.7	3242.3	3169.1	3260.5	3412.9	3419.0
9684.1	27.5°	10537.3	10750.7	8294.6	4900.0	2992.4	2833.9	2943.6	3010.7	3029.0	3102.1
9903.5	30°	10677.5	10561.7	7392.6	3504.3	2510.9	2517.0	2657.2	2657.2	2657.2	2712.0
10122.9	32.5°	10921.3	10433.7	6338.3	2559.7	2163.5	2358.6	2322.0	2309.8	2285.4	2218.4
10403.3	35°	11073.7	10086.4	5003.6	1895.4	1944.1	2163.5	2151.3	1962.4	1645.5	1487.1
11116.3	37.5°	11390.6	9909.6	3681.1	1462.7	1816.2	2066.0	1999.0	1541.9	1194.5	1042.2
12000.0	40°	12073.2	9793.8	2547.5	1279.8	1730.8	2017.3	1785.7	1316.4	914.2	646.0
13365.2	42.5°	12908.1	9799.9	1730.8	1206.7	1736.9	2120.9	1718.6	1127.5	646.0	518.0
15187.4	45°	14029.5	9708.5	1188.4	1206.7	1846.6	2291.5	1761.3	1023.9	627.7	658.2
17472.9	47.5°	15236.2	9787.7	883.7	1097.0	1864.9	2297.6	1608.9	1005.6	603.4	761.8
19959.4	50°	16644.0	9867.0	731.3	1011.7	1871.0	2224.5	1481.0	981.2	627.7	804.5
22811.6	52.5°	18094.5	10116.8	621.6	956.8	1944.1	2194.0	1481.0	1017.8	627.7	700.9
26443.9	55°	20258.0	10756.7	895.9	1194.5	2212.3	2395.1	1822.2	1426.1	877.6	902.0
29923.9	57.5°	22647.1	11414.9	999.5	1255.5	2273.2	2157.4	1962.4	1572.4	926.4	932.5
32629.8	60°	24219.4	11439.3	993.4	1225.0	2127.0	1864.9	1919.8	1657.7	944.6	798.4
34305.8	62.5°	24847.2	10695.8	1036.1	1225.0	1980.7	1743.0	1968.5	1785.7	975.1	999.5
34781.2	65°	24134.1	9160.0	999.5	1097.0	1743.0	1560.2	1980.7	1810.1	1066.5	1005.6
33927.9	67°	23018.8	7892.3	1017.8	1042.2	1621.1	1481.0	2084.3	1901.5	1237.2	1206.7
33483.0	67.5°	22701.9	7557.1	1011.7	1011.7	1578.5	1456.6	2108.7	1901.5	1261.6	1249.4
29552.1	70°	20008.2	6124.9	1036.1	999.5	1395.6	1383.4	2242.8	2005.1	1450.5	1462.7
21708.5	72.5°	15230.1	4644.0	1030.0	999.5	1212.8	1322.5	2261.0	2072.1	1578.5	1462.7
12158.5	75°	8654.2	2779.1	908.1	871.5	956.8	1151.9	2114.8	1974.6	1535.8	1310.3
4857.3	77.5°	3577.5	1432.2	834.9	786.2	792.3	938.5	1761.3	1840.5	1462.7	1115.3
1621.1	80°	1334.7	859.3	670.4	627.7	609.4	688.7	1255.5	1468.8	1249.4	914.2
713.1	82.5°	694.8	536.3	457.1	457.1	414.4	438.8	676.5	975.1	944.6	627.7
286.4	85°	353.5	304.7	262.1	256.0	231.6	207.2	341.3	579.0	542.4	347.4
128.0	87.5°	188.9	170.6	109.7	103.6	85.3	54.9	60.9	115.8	188.9	152.4
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>
8087.4
8934.5
9233.1
8635.9
7587.6
6557.7
5369.2
4528.2
4010.2
3729.8
3479.9
3169.1
2773.0
2181.8
1560.2
1036.1
627.7
505.8
670.4
847.1
932.5
719.1
950.7
902.0
822.8
1011.7
987.3
<i>1188.4</i>
1225.0
1353.0
1298.1
1170.1
1054.3
834.9
493.7
286.4
109.7
0.0

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