

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: P574646

Luminaire Tested: **EPH-VN-06-730-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574646
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-730-U-T2R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

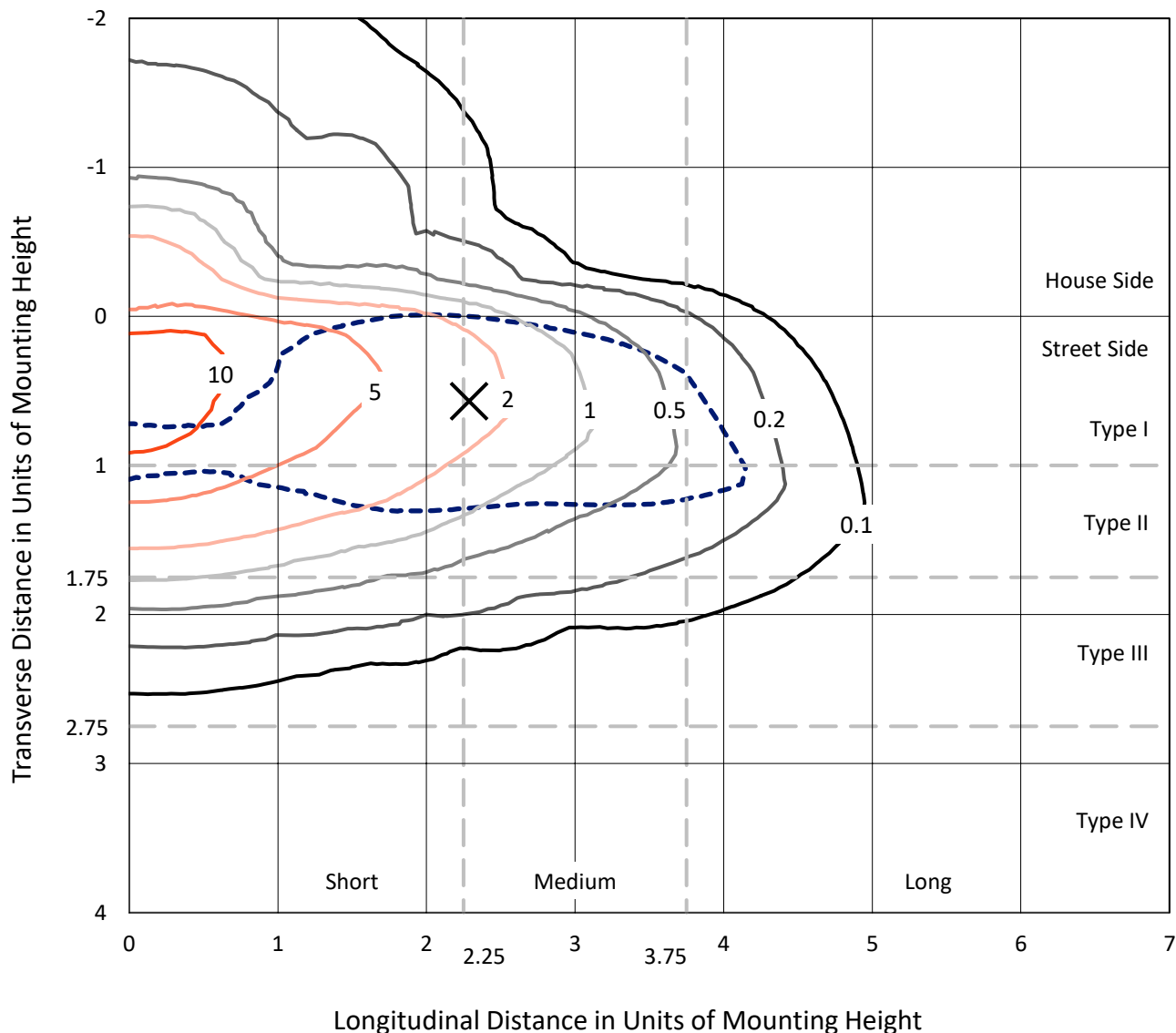
Lumens per Lamp: N/A
Luminaire Lumens: 48453.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

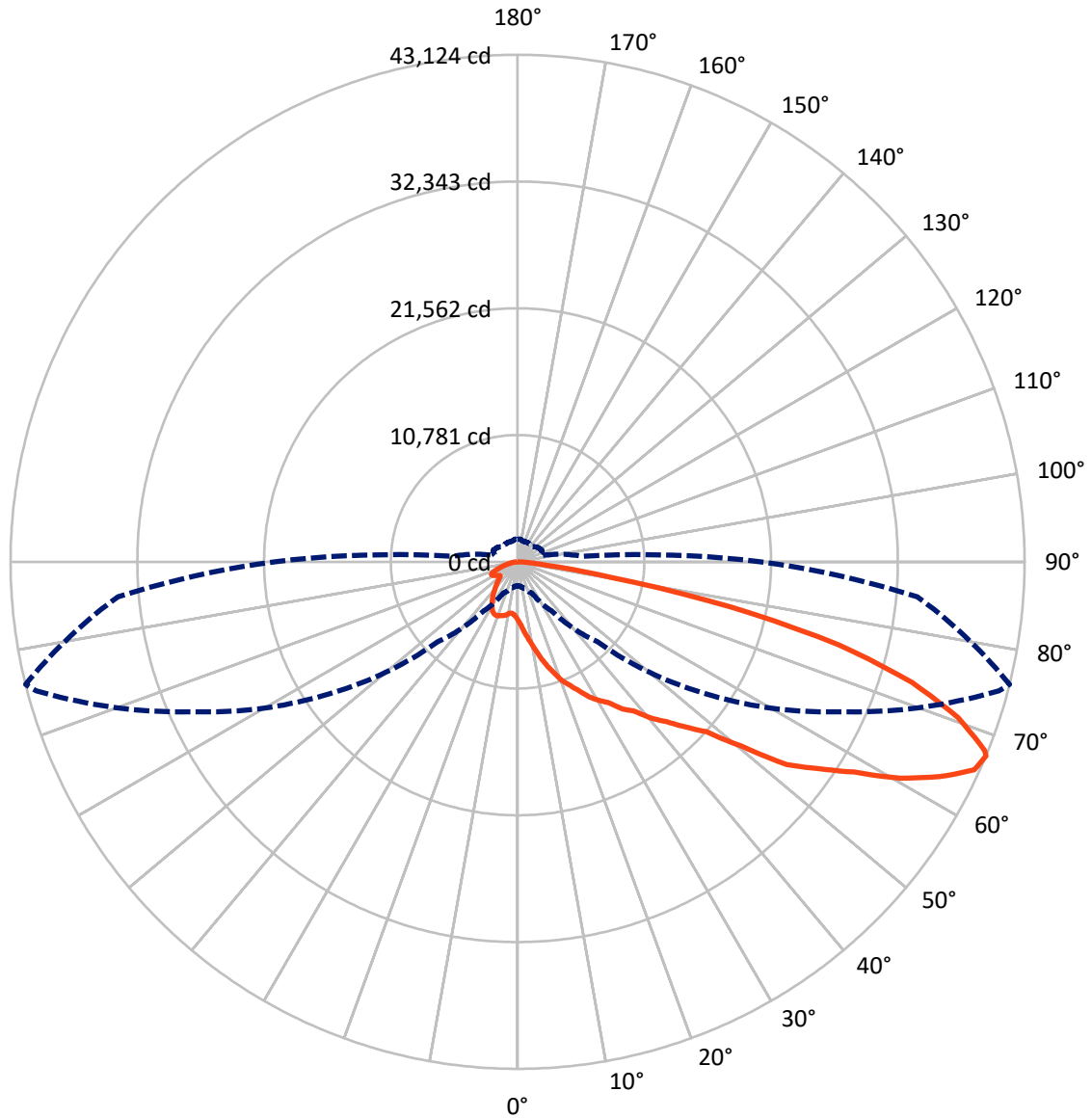
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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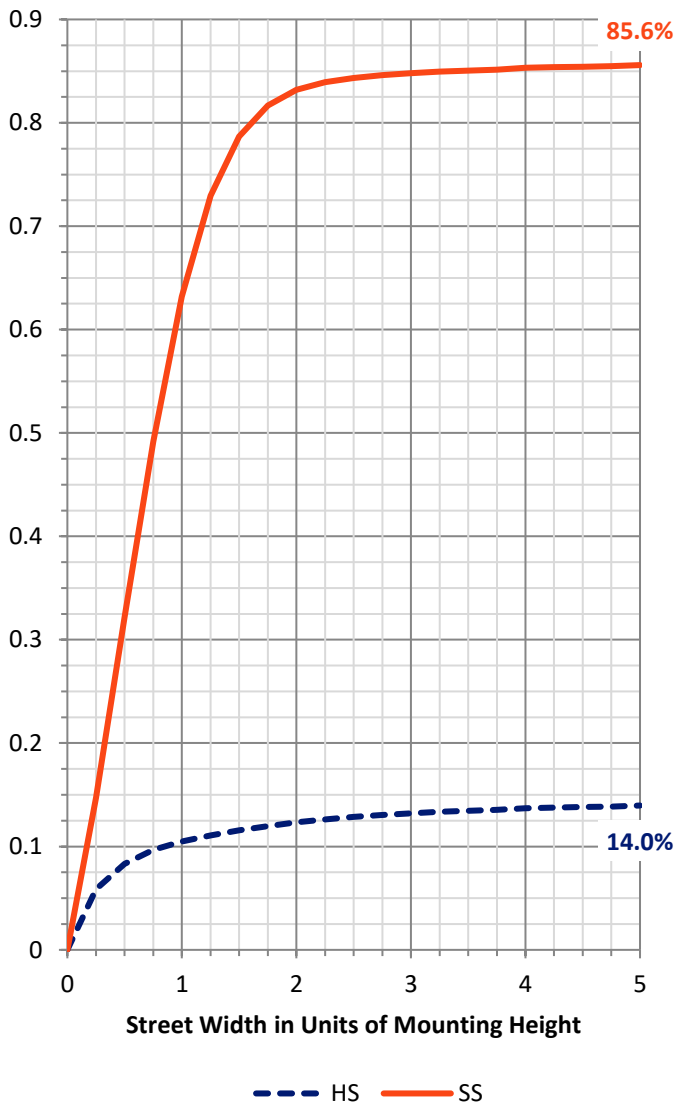
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6893.1	0.0	6893.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	41560.3	0.0	41560.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	48453.4	0.0	48453.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	1.2
10°-20°	2154.2	4.4
20°-30°	4004.9	8.3
30°-40°	6348.7	13.1
40°-50°	8780.8	18.1
50°-60°	10800.9	22.3
60°-70°	10050.7	20.7
70°-80°	5043.4	10.4
80°-90°	695.4	1.4
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°	48453.4	100.0
0°-180°	48453.4	100.0

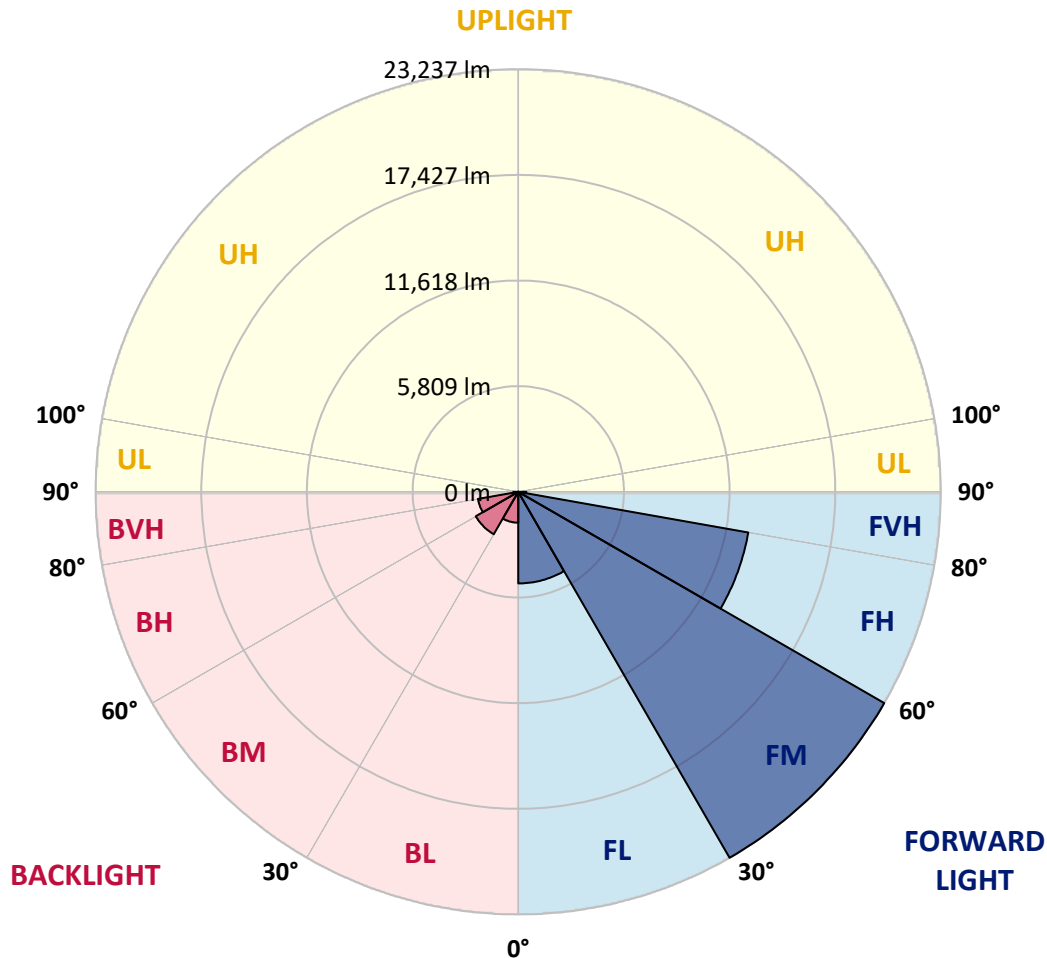


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5035.9	10.4			
FM (30°-60°)	23236.7	48.0			
FH (60°-80°)	12844.6	26.5			G5
FVH (80°-90°)	443.1	0.9			G3/500
BL (0°-30°)	1697.5	3.5	B3/2500		
BM (30°-60°)	2693.7	5.6	B3/5000		
BH (60°-80°)	2249.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	252.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5
2.5°	6880.0	6797.2	6714.4	6537.7	6476.9	6311.3	6007.6	5670.8	5394.7	5356.0
5°	8536.5	8415.0	8387.4	8288.0	7973.3	7653.0	7156.1	6615.0	5941.3	5991.0
7.5°	9778.9	9707.1	9558.0	9464.1	9276.4	8851.2	8337.7	7619.9	6764.0	6598.4
10°	10717.6	10618.2	10612.6	10529.8	10430.4	9994.2	9602.2	8635.9	7537.1	7310.7
12.5°	11192.4	11175.9	11468.5	11468.5	11429.9	11247.6	10574.0	9690.5	8271.5	8194.2
15°	11705.9	11567.9	11821.9	12015.2	12114.5	12208.4	11650.7	10717.6	9210.1	9061.1
17.5°	11705.9	11694.9	11948.9	12269.2	12788.2	12909.7	12606.0	11661.8	9988.7	9878.3
20°	11507.2	11667.3	11844.0	12274.7	12837.9	13329.3	13417.7	12628.1	10850.1	10761.7
22.5°	12434.8	12280.2	12462.4	12628.1	13064.3	13809.7	14052.7	13478.4	11755.6	11418.8
25°	13991.9	13887.0	13754.5	13511.5	13693.7	14019.5	14389.5	14107.9	12528.7	12153.2
27.5°	15510.4	15515.9	15228.8	14698.7	14306.6	14372.9	14809.1	14660.0	13180.2	13014.6
30°	17669.3	17536.8	17216.6	16498.7	15731.2	15101.8	15030.0	15173.5	14008.5	13688.2
32.5°	19287.2	19314.8	18862.0	17829.5	16780.4	16266.8	15637.4	15698.1	14533.0	14295.6
35°	20595.8	20562.7	20242.4	19386.6	18144.2	17525.8	16675.4	16327.6	15753.3	15377.9
37.5°	22009.4	21738.8	21219.8	20253.5	19458.4	18602.5	17774.3	16990.2	16565.0	16112.2
40°	22578.1	22578.1	21882.4	21440.6	20496.4	19850.4	19314.8	17862.6	17553.4	17465.0
42.5°	22175.0	22423.5	22136.4	21633.9	21247.4	20430.2	20286.6	18768.2	18773.7	18597.0
45°	22136.4	21794.0	21556.6	21683.6	21501.4	21457.2	21821.6	20021.6	20054.7	20032.6
47.5°	21026.5	20871.9	21225.3	21435.1	21584.2	22268.9	23318.0	21517.9	21755.4	21589.7
50°	19922.2	19894.6	20115.4	20877.4	21523.5	22649.9	24742.6	23826.0	24604.6	24593.5
52.5°	16896.3	17189.0	18055.9	19668.2	21264.0	23168.9	25819.3	26774.6	28259.9	28663.0
55°	14003.0	13848.3	15129.4	17470.6	20132.0	23373.2	27023.1	28547.0	30733.6	31026.3
57.5°	10894.3	11181.4	12191.8	14439.2	17790.8	22362.8	27906.5	30297.4	33527.6	33754.0
60°	8127.9	8166.5	9276.4	11087.5	14676.6	20082.3	28193.6	32091.9	36730.1	37376.2
62.5°	5113.1	5345.0	6189.8	7973.3	11048.9	16890.8	26907.1	33179.7	40087.3	40258.5
65°	2755.3	2904.4	3539.4	4660.3	7719.3	12777.1	23494.7	32528.2	41666.5	42682.5
67°	2037.5	2065.1	2357.8	2976.2	5162.8	9618.7	19590.9	30170.4	42384.3	43124.2
67.5°	1910.5	1949.1	2181.1	2672.5	4577.5	8856.8	18569.4	29331.1	42064.1	42859.2
70°	1634.4	1645.5	1700.7	1838.7	2567.6	5328.4	12644.6	24035.8	38988.5	39750.5
72.5°	1452.2	1463.2	1485.3	1512.9	1739.3	3081.1	7691.7	18497.6	33886.5	35101.3
75°	1275.5	1314.2	1325.2	1303.1	1479.8	2004.4	4091.6	13594.4	27641.5	28232.3
77.5°	1082.2	1098.8	1120.9	1143.0	1319.7	1496.4	1965.7	9177.0	18972.5	18613.5
80°	911.1	916.6	933.2	949.7	1143.0	1143.0	1115.4	4958.5	8288.0	7923.6
82.5°	651.6	690.2	728.9	773.0	949.7	767.5	728.9	2208.7	2622.8	2495.8
85°	254.0	309.2	480.4	530.1	601.9	414.1	485.9	955.2	1093.3	1082.2
87.5°	44.2	49.7	132.5	204.3	220.9	143.6	231.9	342.3	408.6	441.7
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°
4958.5	0°	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5	4958.5
5162.8	2.5°	5002.6	4831.5	4627.2	4422.9	4290.3	4080.5	4063.9	3937.0	3920.4	3876.2
5328.4	5°	5041.3	4837.0	4422.9	4097.1	3948.0	3826.5	3854.1	3798.9	3782.3	3754.7
5698.4	7.5°	5345.0	4941.9	4323.5	4041.9	3931.4	3876.2	3876.2	3810.0	3760.3	3793.4
6151.1	10°	5543.8	4991.6	4400.8	4119.2	4030.8	3909.3	3953.5	3870.7	3898.3	3832.0
6675.7	12.5°	5864.0	5273.2	4560.9	4235.1	4091.6	3981.1	4025.3	3931.4	3909.3	3914.9
7238.9	15°	6294.7	5460.9	4632.7	4301.4	4202.0	4063.9	4030.8	3948.0	3865.2	3837.6
7857.3	17.5°	6697.8	5692.8	4682.4	4340.0	4179.9	4025.3	3986.6	3881.7	3854.1	3771.3
8558.6	20°	7178.2	5968.9	4748.6	4373.2	4097.1	3942.5	3843.1	3738.2	3644.3	3594.6
9193.6	22.5°	7498.4	6112.5	4781.8	4306.9	3975.6	3832.0	3622.2	3550.4	3417.9	3362.7
9806.5	25°	8023.0	6289.2	4698.9	4124.7	3760.3	3528.3	3340.6	3241.2	3147.4	3075.6
10226.1	27.5°	8155.5	6421.7	4505.7	3815.5	3417.9	3175.0	3014.8	2893.4	2832.6	2722.2
10828.0	30°	8542.0	6289.2	4218.6	3440.0	3092.1	2843.7	2683.5	2595.2	2451.6	2424.0
11308.4	32.5°	8790.5	6327.8	3854.1	3075.6	2716.7	2495.8	2390.9	2302.5	2263.9	2131.4
12042.8	35°	9204.6	6195.3	3484.2	2738.7	2407.4	2236.3	2147.9	2120.3	1993.3	1932.6
12672.2	37.5°	9469.7	6118.0	3114.2	2357.8	2070.6	1998.8	2026.5	1910.5	1755.9	1639.9
13478.4	40°	9933.5	6090.4	2694.6	2043.0	1838.7	1822.2	1910.5	1689.6	1408.0	1308.6
14444.7	42.5°	10601.6	5902.7	2368.8	1761.4	1656.5	1728.3	1744.8	1408.0	1247.9	1165.1
15742.3	45°	11242.1	5941.3	2048.5	1457.7	1441.2	1546.1	1507.4	1192.7	1098.8	1038.1
17238.7	47.5°	12473.5	6134.6	1733.8	1214.8	1297.6	1397.0	1170.6	1065.7	977.3	933.2
19949.8	50°	14378.4	6322.3	1457.7	1109.9	1225.8	1264.5	1004.9	966.3	960.8	872.4
22197.1	52.5°	15521.4	6250.5	1408.0	1242.4	1314.2	1264.5	1093.3	1065.7	1021.5	982.9
24505.2	55°	17338.0	6460.4	1512.9	1452.2	1490.9	1214.8	1225.8	1214.8	1181.6	1082.2
27183.2	57.5°	18784.7	6598.4	1651.0	1623.4	1601.3	1264.5	1281.0	1286.5	1264.5	1220.3
29988.2	60°	20772.5	6874.5	1794.5	1800.1	1805.6	1374.9	1402.5	1435.6	1430.1	1413.5
32815.3	62.5°	21992.8	6747.5	1954.7	2043.0	2015.4	1601.3	1595.8	1617.8	1617.8	1645.5
34074.2	65°	21810.6	6278.1	2037.5	2258.4	2114.8	1766.9	1766.9	1778.0	1783.5	1838.7
34123.9	67°	20717.3	5438.8	1993.3	2291.5	2114.8	1833.2	1833.2	1844.2	1805.6	1949.1
33737.4	67.5°	20209.3	5190.4	1954.7	2263.9	2098.2	1827.7	1827.7	1833.2	1800.1	1938.1
31026.3	70°	17575.5	3854.1	1684.1	2004.4	1943.6	1778.0	1778.0	1744.8	1717.2	1899.5
26769.1	72.5°	15002.4	2799.5	1352.8	1706.2	1755.9	1711.7	1722.8	1639.9	1562.6	1689.6
20816.7	75°	11490.6	2059.6	1054.6	1314.2	1485.3	1601.3	1673.1	1463.2	1363.9	1397.0
11258.7	77.5°	6410.7	1341.8	833.8	971.8	1131.9	1490.9	1606.8	1319.7	1115.4	1076.7
3804.4	80°	2175.5	784.1	612.9	723.3	778.6	1319.7	1501.9	1071.2	877.9	839.3
1286.5	82.5°	822.7	480.4	419.6	497.0	497.0	1043.6	1225.8	822.7	662.6	855.9
480.4	85°	375.5	287.1	276.1	287.1	287.1	640.5	866.9	535.6	596.3	513.5
176.7	87.5°	149.1	138.0	127.0	121.5	99.4	110.4	298.2	143.6	270.6	71.8
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>
4958.5
3898.3
3710.6
3826.5
3832.0
3898.3
3870.7
3705.0
3616.7
3318.5
3053.5
2700.1
2363.3
2098.2
1877.4
1601.3
1253.4
1126.4
1071.2
938.7
866.9
938.7
1109.9
1258.9
1424.6
1662.0
1844.2
<i>1905.0</i>
1893.9
1860.8
1656.5
1336.2
1076.7
811.7
872.4
452.8
66.3
0.0

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