

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: P574812

Luminaire Tested: **EPH-VN-06-735-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574812  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

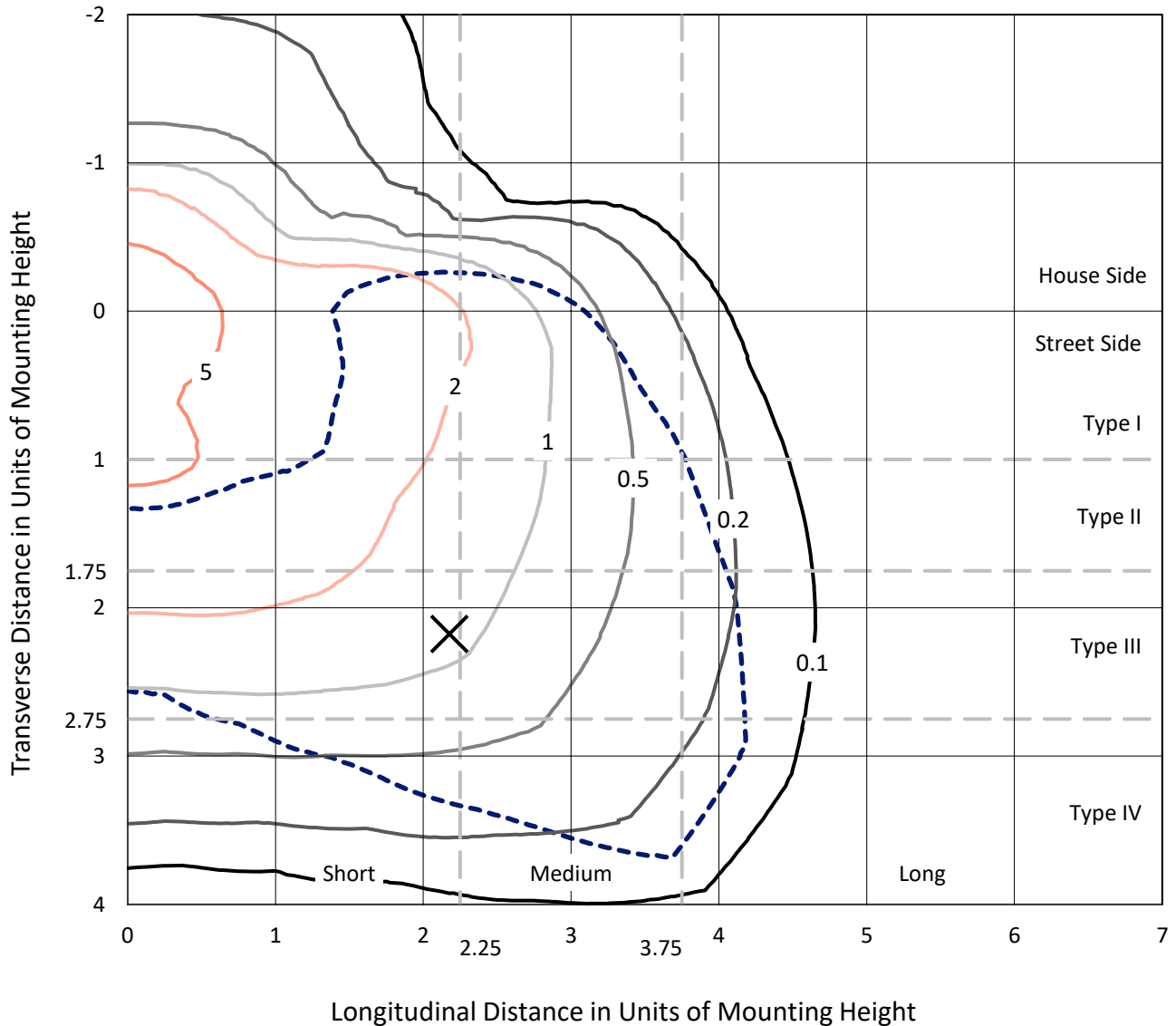
Lumens per Lamp: N/A  
Luminaire Lumens: 52750.6 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

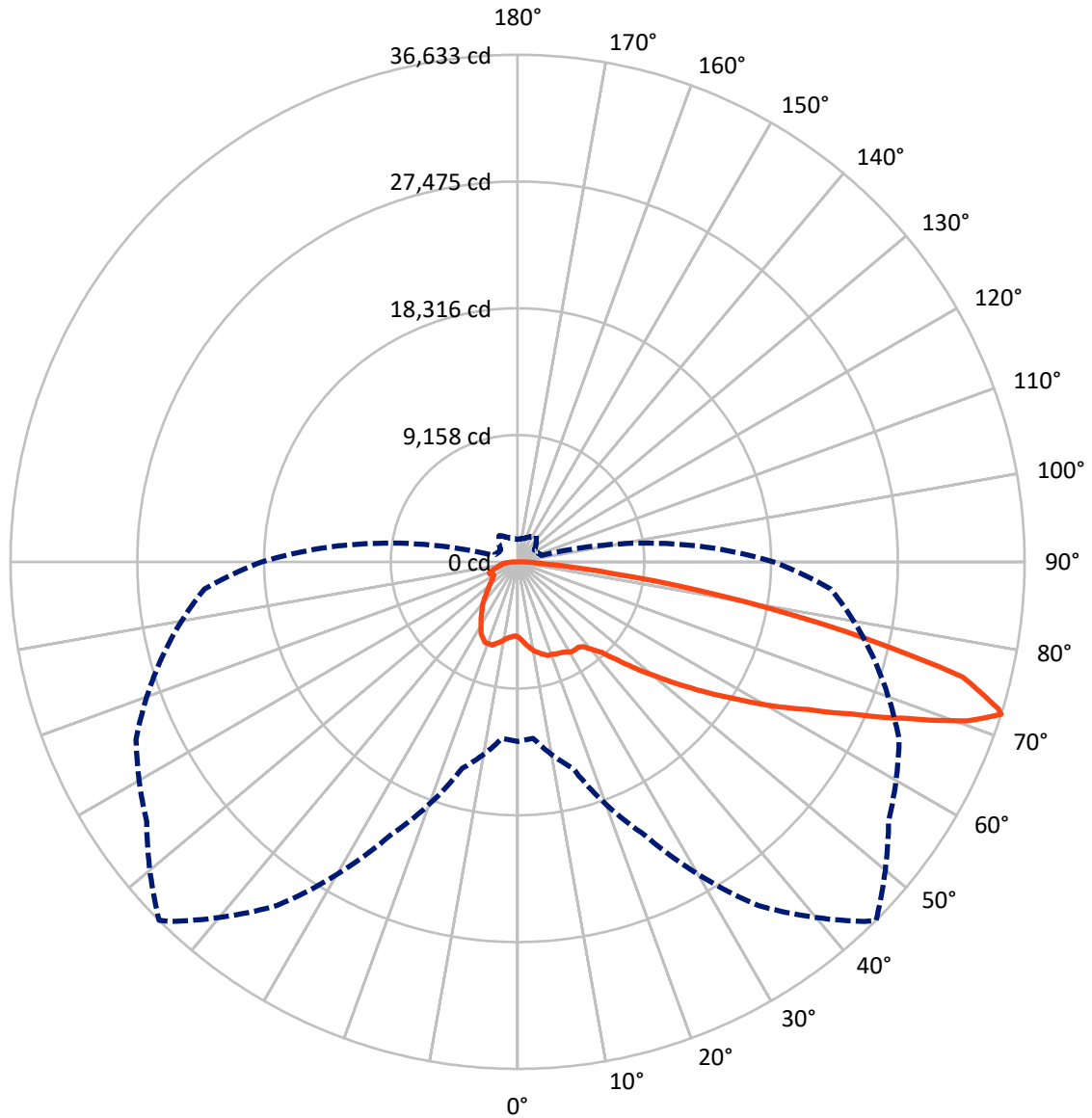
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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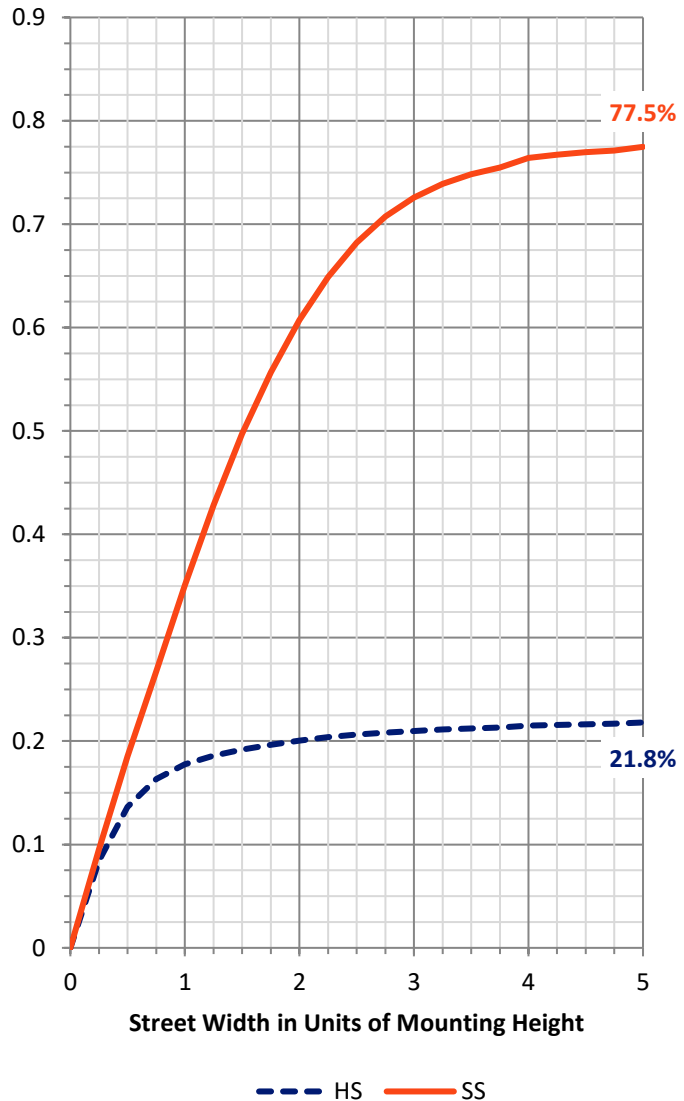
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11742.6	0.0	11742.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	41008.0	0.0	41008.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	52750.6	0.0	52750.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.9	1.1
10°-20°	1849.5	3.5
20°-30°	3123.2	5.9
30°-40°	4322.0	8.2
40°-50°	6182.2	11.7
50°-60°	9971.2	18.9
60°-70°	14706.1	27.9
70°-80°	10679.2	20.2
80°-90°	1361.3	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°	52750.6	100.0
0°-180°	52750.6	100.0

**Coefficient of Utilization**

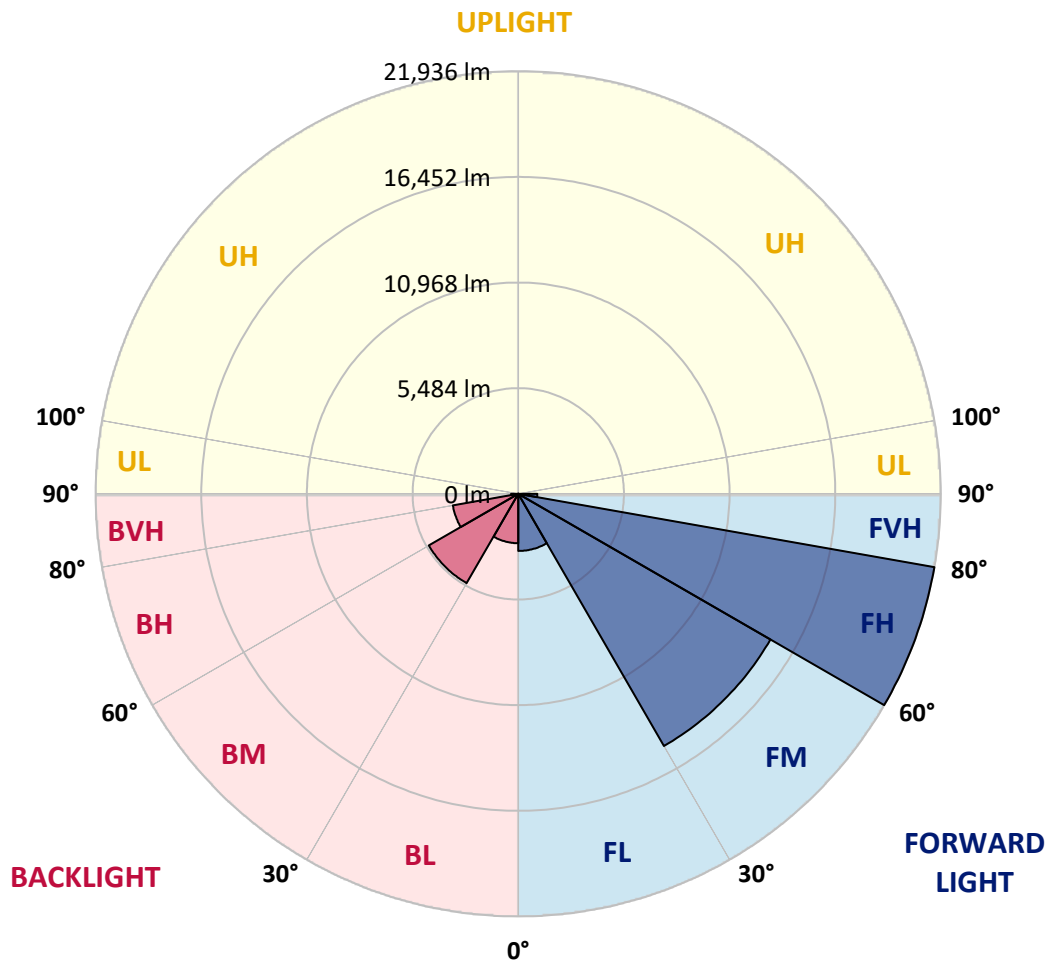


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2964.6	5.6			
FM (30°-60°)	15116.5	28.7			
FH (60°-80°)	21936.1	41.6			G5
FVH (80°-90°)	990.9	1.9			G5
BL (0°-30°)	2563.9	4.9	B4/5000		
BM (30°-60°)	5359.0	10.2	B4/8500		
BH (60°-80°)	3449.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	370.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4
2.5°	5722.5	5756.6	5722.5	5716.8	5659.9	5620.1	5654.2	5603.0	5546.1	5523.4
5°	6245.8	6251.5	6188.9	6194.6	6075.1	5950.0	5972.8	5819.2	5654.2	5591.6
7.5°	6780.5	6717.9	6626.9	6598.5	6410.8	6274.2	6257.2	6120.6	5864.7	5722.5
10°	7127.5	7150.2	7002.3	6877.2	6717.9	6553.0	6547.3	6291.3	6143.4	5932.9
12.5°	7434.7	7440.3	7315.2	7116.1	6917.0	6712.2	6740.7	6626.9	6376.6	6177.5
15°	7673.6	7639.4	7502.9	7320.9	7110.4	6951.1	6934.1	6837.4	6626.9	6461.9
17.5°	7741.8	7724.8	7588.2	7394.8	7190.1	7070.6	7116.1	6956.8	6871.5	6723.6
20°	7611.0	7571.2	7548.4	7332.3	7184.4	7173.0	7133.2	7167.3	7025.1	6888.6
22.5°	7372.1	7355.0	7343.6	7173.0	7104.7	7155.9	7224.2	7275.4	7252.6	7121.8
25°	7127.5	7207.1	7133.2	7053.5	7150.2	7281.1	7264.0	7429.0	7429.0	7389.1
27.5°	7298.1	7246.9	7190.1	7150.2	7184.4	7389.1	7377.8	7576.9	7650.8	7576.9
30°	7724.8	7673.6	7508.6	7332.3	7286.8	7508.6	7565.5	7741.8	7776.0	7593.9
32.5°	8526.8	8498.4	8236.7	7719.1	7440.3	7565.5	7593.9	7793.0	7764.6	7650.8
35°	9715.7	9619.0	9254.9	8378.9	7764.6	7639.4	7565.5	7724.8	7832.8	7776.0
37.5°	11018.3	10910.2	10460.9	9351.6	8350.5	7838.5	7781.6	7912.5	8037.6	8009.2
40°	12264.1	12264.1	11860.2	10568.9	9220.8	8322.0	8333.4	8185.5	8299.3	8248.1
42.5°	13492.7	13447.2	13282.3	11996.7	10153.7	9129.8	8947.8	8578.0	8782.8	8765.7
45°	14738.5	14704.3	14658.8	13327.8	11490.4	10221.9	10125.2	9459.7	9647.4	9567.8
47.5°	15733.9	15773.8	15773.8	14812.4	12918.2	11678.2	11535.9	10483.6	10842.0	10881.8
50°	16581.5	16598.6	16581.5	16228.8	14510.9	13344.8	13054.7	11985.3	12343.7	12656.5
52.5°	17753.3	17776.1	17696.4	17559.9	16672.5	15096.8	14772.6	13583.7	14317.5	14647.5
55°	19198.1	19027.5	18879.6	18982.0	18748.8	17025.2	16689.6	15233.4	16336.9	16774.9
57.5°	19465.5	19613.4	19988.8	20802.2	21137.9	18902.3	18708.9	17258.4	18617.9	18999.0
60°	20409.8	20165.2	21086.7	22850.0	23225.5	21348.3	21149.2	19476.9	20887.6	21285.8
62.5°	21029.8	21018.4	22383.6	24476.9	25330.2	23885.3	23481.5	22360.8	23339.2	23726.1
65°	20847.8	21012.7	23435.9	25432.6	27087.9	26769.3	26536.1	24841.0	26132.2	26098.1
67.5°	19186.8	19653.2	22770.4	26120.8	29704.5	30284.7	30210.8	28327.9	28401.9	27679.4
70°	16883.0	16723.7	19954.7	25404.1	31012.8	34454.3	34437.2	30921.8	30444.0	28026.4
72°	12969.4	12793.1	15449.5	21814.8	30324.5	36120.9	36632.9	32719.3	30421.2	26587.3
72.5°	11774.9	11621.3	14266.3	20534.9	29562.3	36553.2	36314.3	32787.6	30182.3	25910.4
75°	5421.0	5244.6	7127.5	12571.2	23060.5	32389.4	33202.8	30682.9	26359.7	20625.9
77.5°	1615.5	1564.3	2292.4	5074.0	13401.7	23862.6	24175.4	23151.5	18401.8	11297.0
80°	898.8	904.4	1183.2	1899.9	5893.1	13794.2	14920.5	14300.5	9027.4	3731.5
82.5°	500.6	529.0	739.5	1126.3	2707.6	6331.1	6814.6	6570.0	3265.1	1752.0
85°	261.7	273.0	386.8	603.0	1535.9	2002.3	2059.2	2207.1	1695.1	1194.6
87.5°	102.4	102.4	142.2	250.3	568.8	620.0	557.5	676.9	972.7	773.6
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°
5432.4	0°	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4	5432.4
5472.2	2.5°	5517.7	5472.2	5466.5	5392.5	5415.3	5352.7	5358.4	5347.0	5352.7	5341.3
5489.2	5°	5489.2	5455.1	5358.4	5421.0	5364.1	5443.7	5506.3	5483.6	5500.6	5494.9
5580.3	7.5°	5529.1	5483.6	5472.2	5438.0	5489.2	5523.4	5574.6	5716.8	5705.4	5722.5
5750.9	10°	5648.5	5597.3	5563.2	5614.4	5585.9	5694.0	5750.9	5824.9	5955.7	5961.4
5995.5	12.5°	5881.7	5847.6	5779.3	5790.7	5887.4	5921.6	5955.7	6001.2	6086.5	6069.5
6160.5	15°	6149.1	6075.1	6035.3	6023.9	6046.7	6086.5	6080.8	6126.3	6171.8	6211.7
6433.5	17.5°	6342.5	6245.8	6257.2	6314.1	6308.4	6297.0	6223.0	6200.3	6223.0	6245.8
6678.1	20°	6541.6	6553.0	6467.6	6416.4	6393.7	6279.9	6223.0	6154.8	6086.5	6120.6
6882.9	22.5°	6791.9	6740.7	6615.5	6461.9	6348.2	6279.9	6103.6	5984.1	5984.1	6018.3
7190.1	25°	7076.3	6968.2	6752.1	6473.3	6331.1	6041.0	5915.9	5898.8	5853.3	5904.5
7349.3	27.5°	7298.1	7201.4	6905.6	6433.5	6041.0	5807.8	5733.8	5711.1	5785.0	5790.7
7400.5	30°	7389.1	7360.7	6928.4	6331.1	5745.2	5369.8	5324.3	5426.7	5506.3	5625.8
7571.2	32.5°	7508.6	7520.0	6962.5	6092.2	5358.4	4983.0	4914.7	5039.9	5267.4	5364.1
7702.0	35°	7707.7	7764.6	6934.1	5796.4	4948.9	4590.5	4579.1	4613.2	4835.1	5005.7
7855.6	37.5°	8054.7	8043.3	6928.4	5443.7	4624.6	4249.2	4158.2	4169.6	4317.4	4459.7
8276.5	40°	8521.1	8475.6	6911.3	4983.0	4203.7	3959.1	3805.5	3748.6	3737.2	3697.4
8805.5	42.5°	9158.2	9067.2	6905.6	4516.5	3822.6	3560.9	3452.8	3304.9	3196.8	2992.1
9738.4	45°	10045.6	9886.3	6757.7	4078.5	3447.1	3231.0	3066.0	2957.9	2724.7	2468.7
10921.6	47.5°	11416.5	10898.9	6763.4	3595.0	3083.1	2906.7	2793.0	2605.3	2355.0	2150.2
13020.6	50°	13435.9	12252.7	6570.0	3213.9	2787.3	2667.8	2548.4	2332.2	2093.3	1951.1
15301.6	52.5°	16041.1	14272.0	6564.3	2872.6	2554.1	2468.7	2337.9	2144.5	1968.2	1877.2
18083.2	55°	19146.9	16945.6	6769.1	2593.9	2315.2	2269.6	2212.8	2053.5	1882.8	1803.2
21183.4	57.5°	22326.7	19556.5	7099.0	2394.8	2110.4	2144.5	2104.7	1979.5	1843.0	1752.0
24044.6	60°	25153.8	21627.1	6433.5	2155.9	1928.3	2002.3	2059.2	1951.1	1877.2	1871.5
27161.8	62.5°	27286.9	22514.4	4892.0	1973.9	1831.6	1968.2	2121.7	2190.0	2155.9	2201.4
29192.5	65°	28066.3	21979.7	3367.5	1877.2	1757.7	2047.8	2389.1	2366.3	2167.3	2081.9
30097.0	67.5°	26974.1	19812.5	2497.2	1763.4	1706.5	2212.8	2542.7	2258.3	1956.8	1945.4
27503.1	70°	23197.0	16792.0	2036.4	1643.9	1621.2	2121.7	2474.4	2093.3	1843.0	1769.1
22719.2	72°	18481.4	13077.5	1786.1	1558.6	1484.7	1894.2	2315.2	1962.5	1746.3	1655.3
21223.2	72.5°	16871.6	12121.8	1752.0	1518.8	1456.2	1843.0	2235.5	1922.7	1723.6	1643.9
12713.4	75°	9254.9	6206.0	1541.5	1393.6	1228.7	1592.7	2070.6	1803.2	1626.9	1513.1
4715.6	77.5°	3441.4	2406.2	1331.1	1234.4	1063.7	1376.6	1882.8	1712.2	1479.0	1336.8
1570.0	80°	1319.7	1268.5	1086.5	1041.0	893.1	1205.9	1734.9	1535.9	1257.1	1114.9
858.9	82.5°	802.1	739.5	824.8	813.4	682.6	1097.8	1632.6	1439.1	1114.9	904.4
460.8	85°	438.0	438.0	574.5	551.8	477.8	876.0	1234.4	955.6	705.4	580.2
227.5	87.5°	193.4	227.5	307.2	290.1	261.7	494.9	603.0	506.3	352.7	238.9
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>
5432.4
5312.9
5500.6
5756.6
5893.1
6132.0
6194.6
6234.4
6171.8
6001.2
5927.2
5881.7
5631.5
5438.0
5102.4
4442.6
3708.8
3003.4
2468.7
2127.4
1968.2
1843.0
1797.5
1740.6
1831.6
2207.1
2127.4
1911.3
1734.9
<i>1615.5</i>
1581.4
1501.7
1308.3
1069.4
876.0
591.6
256.0
0.0

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