

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: P574807

Luminaire Tested: **EPH-VN-07-730-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574807
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

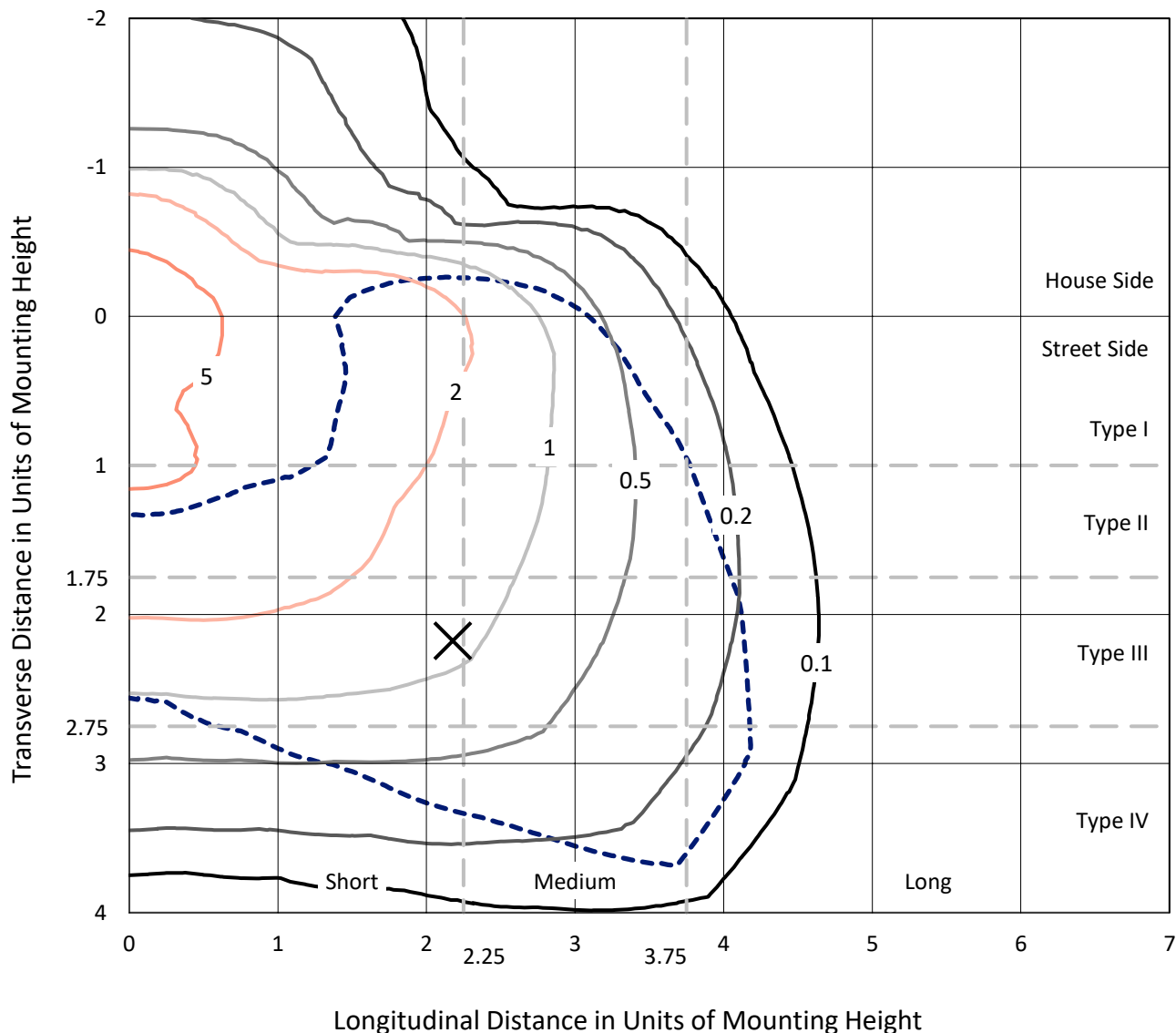
Lumens per Lamp: N/A
Luminaire Lumens: 51958.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

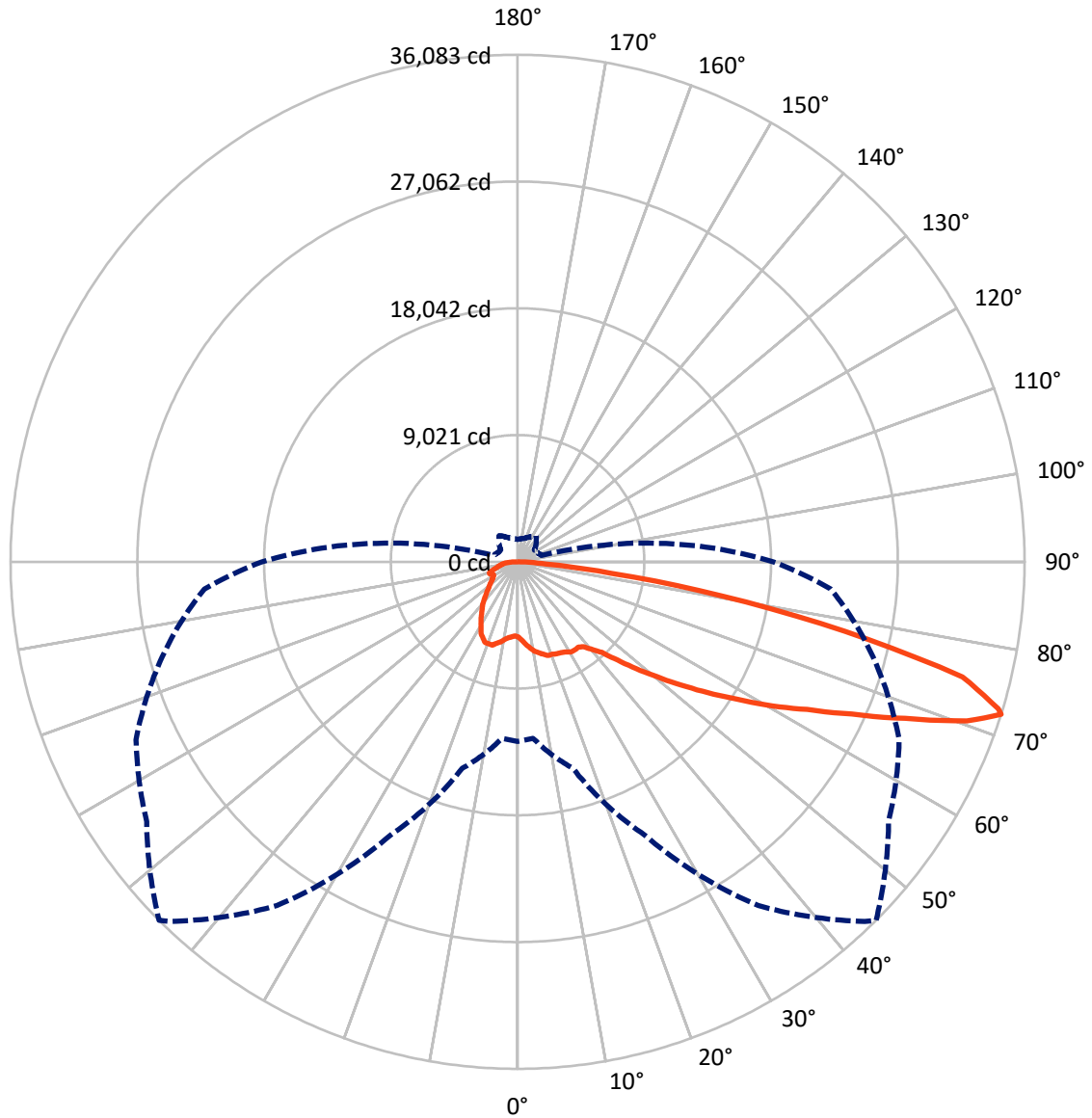
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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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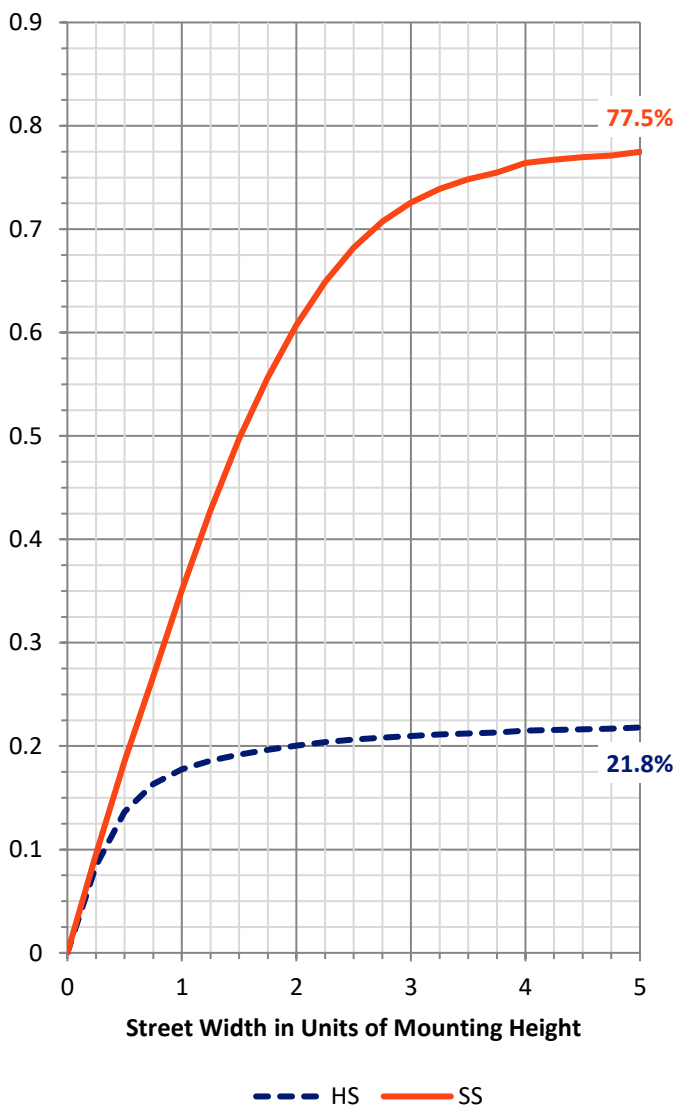
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11566.3	0.0	11566.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	40392.5	0.0	40392.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	51958.8	0.0	51958.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.5	1.1
10°-20°	1821.7	3.5
20°-30°	3076.3	5.9
30°-40°	4257.1	8.2
40°-50°	6089.4	11.7
50°-60°	9821.6	18.9
60°-70°	14485.4	27.9
70°-80°	10518.9	20.2
80°-90°	1340.9	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°	51958.8	100.0
0°-180°	51958.8	100.0

Coefficient of Utilization

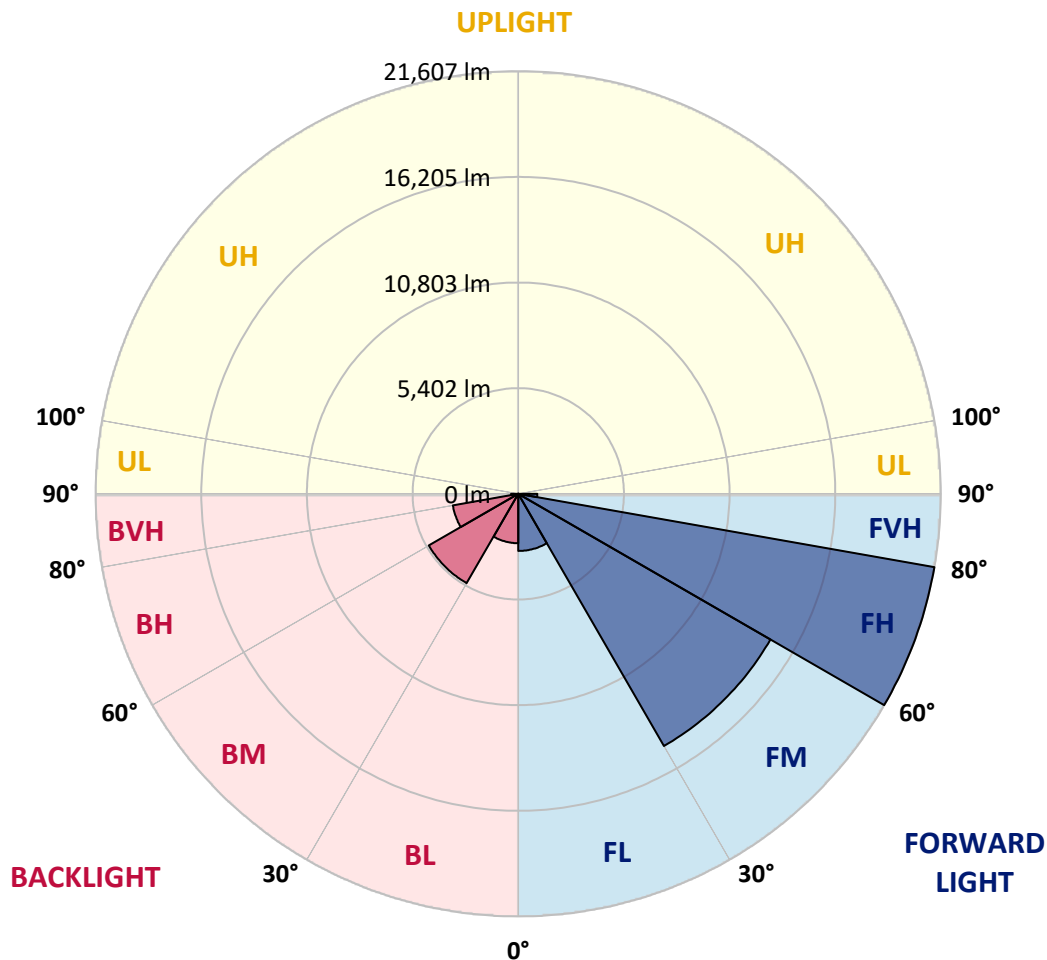


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2920.1	5.6			
FM (30°-60°)	14889.6	28.7			
FH (60°-80°)	21606.8	41.6			G5
FVH (80°-90°)	976.0	1.9			G5
BL (0°-30°)	2525.4	4.9	B4/5000		
BM (30°-60°)	5278.5	10.2	B4/8500		
BH (60°-80°)	3397.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	364.9	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°	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8
2.5°	5636.6	5670.2	5636.6	5631.0	5574.9	5535.7	5569.3	5518.9	5462.9	5440.5
5°	6152.0	6157.6	6096.0	6101.6	5984.0	5860.7	5883.1	5731.8	5569.3	5507.7
7.5°	6678.7	6617.1	6527.4	6499.4	6314.5	6180.1	6163.2	6028.8	5776.6	5636.6
10°	7020.5	7042.9	6897.2	6774.0	6617.1	6454.6	6449.0	6196.9	6051.2	5843.9
12.5°	7323.1	7328.7	7205.4	7009.3	6813.2	6611.5	6639.5	6527.4	6280.9	6084.8
15°	7558.4	7524.8	7390.3	7211.0	7003.7	6846.8	6830.0	6734.7	6527.4	6365.0
17.5°	7625.6	7608.8	7474.3	7283.8	7082.1	6964.5	7009.3	6852.4	6768.4	6622.7
20°	7496.7	7457.5	7435.1	7222.2	7076.5	7065.3	7026.1	7059.7	6919.6	6785.2
22.5°	7261.4	7244.6	7233.4	7065.3	6998.1	7048.5	7115.7	7166.2	7143.8	7014.9
25°	7020.5	7098.9	7026.1	6947.7	7042.9	7171.8	7155.0	7317.5	7317.5	7278.2
27.5°	7188.6	7138.2	7082.1	7042.9	7076.5	7278.2	7267.0	7463.1	7536.0	7463.1
30°	7608.8	7558.4	7395.9	7222.2	7177.4	7395.9	7451.9	7625.6	7659.2	7479.9
32.5°	8398.8	8370.8	8113.1	7603.2	7328.7	7451.9	7479.9	7676.0	7648.0	7536.0
35°	9569.8	9474.6	9116.0	8253.1	7648.0	7524.8	7451.9	7608.8	7715.3	7659.2
37.5°	10852.9	10746.5	10303.8	9211.2	8225.1	7720.9	7664.8	7793.7	7917.0	7889.0
40°	12080.0	12080.0	11682.1	10410.3	9082.4	8197.1	8208.3	8062.6	8174.7	8124.3
42.5°	13290.2	13245.4	13082.9	11816.6	10001.3	8992.7	8813.4	8449.2	8651.0	8634.1
45°	14517.2	14483.6	14438.8	13127.7	11318.0	10068.5	9973.3	9317.7	9502.6	9424.2
47.5°	15497.8	15537.0	15537.0	14590.1	12724.3	11502.9	11362.8	10326.2	10679.2	10718.4
50°	16332.6	16349.4	16332.6	15985.2	14293.1	13144.5	12858.8	11805.4	12158.4	12466.6
52.5°	17486.8	17509.2	17430.8	17296.3	16422.2	14870.2	14550.9	13379.8	14102.6	14427.6
55°	18910.0	18741.9	18596.2	18697.0	18467.3	16769.6	16439.1	15004.7	16091.7	16523.1
57.5°	19173.3	19319.0	19688.8	20490.0	20820.6	18618.6	18428.1	16999.3	18338.5	18713.9
60°	20103.4	19862.5	20770.1	22507.0	22876.8	21027.9	20831.8	19184.5	20574.0	20966.2
62.5°	20714.1	20702.9	22047.6	24109.5	24949.9	23526.8	23129.0	22025.2	22988.9	23369.9
65°	20534.8	20697.3	23084.2	25050.8	26681.2	26367.5	26137.8	24468.1	25740.0	25706.3
67.5°	18898.7	19358.2	22428.6	25728.7	29258.6	29830.1	29757.3	27902.7	27975.5	27264.0
70°	16629.6	16472.7	19655.1	25022.8	30547.3	33937.1	33920.3	30457.6	29987.0	27605.7
72°	12774.7	12601.0	15217.6	21487.3	29869.3	35578.7	36083.0	32228.2	29964.6	26188.2
72.5°	11598.1	11446.8	14052.2	20226.6	29118.5	36004.6	35769.2	32295.4	29729.3	25521.4
75°	5339.6	5165.9	7020.5	12382.5	22714.4	31903.2	32704.4	30222.3	25964.1	20316.3
77.5°	1591.2	1540.8	2258.0	4997.8	13200.5	23504.4	23812.5	22804.0	18125.5	11127.5
80°	885.3	890.9	1165.4	1871.4	5804.7	13587.2	14696.5	14085.8	8891.9	3675.5
82.5°	493.1	521.1	728.4	1109.4	2667.0	6236.1	6712.3	6471.4	3216.1	1725.7
85°	257.7	268.9	381.0	593.9	1512.8	1972.2	2028.3	2173.9	1669.7	1176.6
87.5°	100.9	100.9	140.1	246.5	560.3	610.7	549.1	666.8	958.1	762.0
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°
5350.8	0°	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8	5350.8
5390.0	2.5°	5434.9	5390.0	5384.4	5311.6	5334.0	5272.4	5278.0	5266.8	5272.4	5261.2
5406.8	5°	5406.8	5373.2	5278.0	5339.6	5283.6	5362.0	5423.7	5401.2	5418.1	5412.4
5496.5	7.5°	5446.1	5401.2	5390.0	5356.4	5406.8	5440.5	5490.9	5631.0	5619.8	5636.6
5664.6	10°	5563.7	5513.3	5479.7	5530.1	5502.1	5608.6	5664.6	5737.4	5866.3	5871.9
5905.5	12.5°	5793.4	5759.8	5692.6	5703.8	5799.1	5832.7	5866.3	5911.1	5995.2	5978.3
6068.0	15°	6056.8	5984.0	5944.7	5933.5	5955.9	5995.2	5989.6	6034.4	6079.2	6118.4
6336.9	17.5°	6247.3	6152.0	6163.2	6219.3	6213.7	6202.5	6129.6	6107.2	6129.6	6152.0
6577.9	20°	6443.4	6454.6	6370.6	6320.1	6297.7	6185.7	6129.6	6062.4	5995.2	6028.8
6779.6	22.5°	6689.9	6639.5	6516.2	6365.0	6252.9	6185.7	6012.0	5894.3	5894.3	5927.9
7082.1	25°	6970.1	6863.6	6650.7	6376.2	6236.1	5950.3	5827.1	5810.3	5765.4	5815.9
7239.0	27.5°	7188.6	7093.3	6802.0	6336.9	5950.3	5720.6	5647.8	5625.4	5698.2	5703.8
7289.4	30°	7278.2	7250.2	6824.4	6236.1	5659.0	5289.2	5244.4	5345.2	5423.7	5541.3
7457.5	32.5°	7395.9	7407.1	6858.0	6000.8	5278.0	4908.2	4840.9	4964.2	5188.3	5283.6
7586.4	35°	7592.0	7648.0	6830.0	5709.4	4874.6	4521.6	4510.4	4544.0	4762.5	4930.6
7737.7	37.5°	7933.8	7922.6	6824.4	5362.0	4555.2	4185.4	4095.8	4107.0	4252.6	4392.7
8152.3	40°	8393.2	8348.4	6807.6	4908.2	4140.6	3899.7	3748.4	3692.3	3681.1	3641.9
8673.4	42.5°	9020.7	8931.1	6802.0	4448.7	3765.2	3507.4	3401.0	3255.3	3148.9	2947.2
9592.2	45°	9894.8	9737.9	6656.3	4017.3	3395.4	3182.5	3020.0	2913.5	2683.8	2431.7
10757.7	47.5°	11245.1	10735.3	6661.9	3541.1	3036.8	2863.1	2751.0	2566.2	2319.6	2117.9
12825.2	50°	13234.2	12068.8	6471.4	3165.7	2745.4	2627.8	2510.1	2297.2	2061.9	1921.8
15071.9	52.5°	15800.3	14057.8	6465.8	2829.5	2515.7	2431.7	2302.8	2112.3	1938.6	1849.0
17811.8	55°	18859.5	16691.2	6667.5	2554.9	2280.4	2235.6	2179.5	2022.7	1854.6	1776.1
20865.4	57.5°	21991.6	19262.9	6992.5	2358.8	2078.7	2112.3	2073.1	1949.8	1815.4	1725.7
23683.7	60°	24776.2	21302.4	6336.9	2123.5	1899.4	1972.2	2028.3	1921.8	1849.0	1843.4
26754.1	62.5°	26877.3	22176.5	4818.5	1944.2	1804.1	1938.6	2089.9	2157.1	2123.5	2168.3
28754.3	65°	27645.0	21649.8	3316.9	1849.0	1731.3	2017.1	2353.2	2330.8	2134.7	2050.7
29645.2	67.5°	26569.2	19515.1	2459.7	1736.9	1680.9	2179.5	2504.5	2224.4	1927.4	1916.2
27090.3	70°	22848.8	16539.9	2005.9	1619.3	1596.8	2089.9	2437.3	2061.9	1815.4	1742.5
22378.2	72°	18204.0	12881.2	1759.3	1535.2	1462.4	1865.8	2280.4	1933.0	1720.1	1630.5
20904.6	72.5°	16618.3	11939.9	1725.7	1496.0	1434.4	1815.4	2202.0	1893.8	1697.7	1619.3
12522.6	75°	9116.0	6112.8	1518.4	1372.7	1210.2	1568.8	2039.5	1776.1	1602.4	1490.4
4644.8	77.5°	3389.8	2370.0	1311.1	1215.8	1047.8	1355.9	1854.6	1686.5	1456.8	1316.7
1546.4	80°	1299.9	1249.5	1070.2	1025.3	879.7	1187.8	1708.9	1512.8	1238.3	1098.2
846.0	82.5°	790.0	728.4	812.4	801.2	672.4	1081.4	1608.0	1417.5	1098.2	890.9
453.8	85°	431.4	431.4	565.9	543.5	470.6	862.9	1215.8	941.3	694.8	571.5
224.1	87.5°	190.5	224.1	302.6	285.8	257.7	487.5	593.9	498.7	347.4	235.3
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



180°
5350.8
5233.2
5418.1
5670.2
5804.7
6040.0
6101.6
6140.8
6079.2
5911.1
5838.3
5793.4
5546.9
5356.4
5025.8
4375.9
3653.1
2958.4
2431.7
2095.5
1938.6
1815.4
1770.5
1714.5
1804.1
2173.9
2095.5
1882.6
1708.9
1591.2
1557.6
1479.2
1288.7
1053.4
862.9
582.7
252.1
0.0

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