

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: P574808

Luminaire Tested: **EPH-VN-08-730-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574808
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

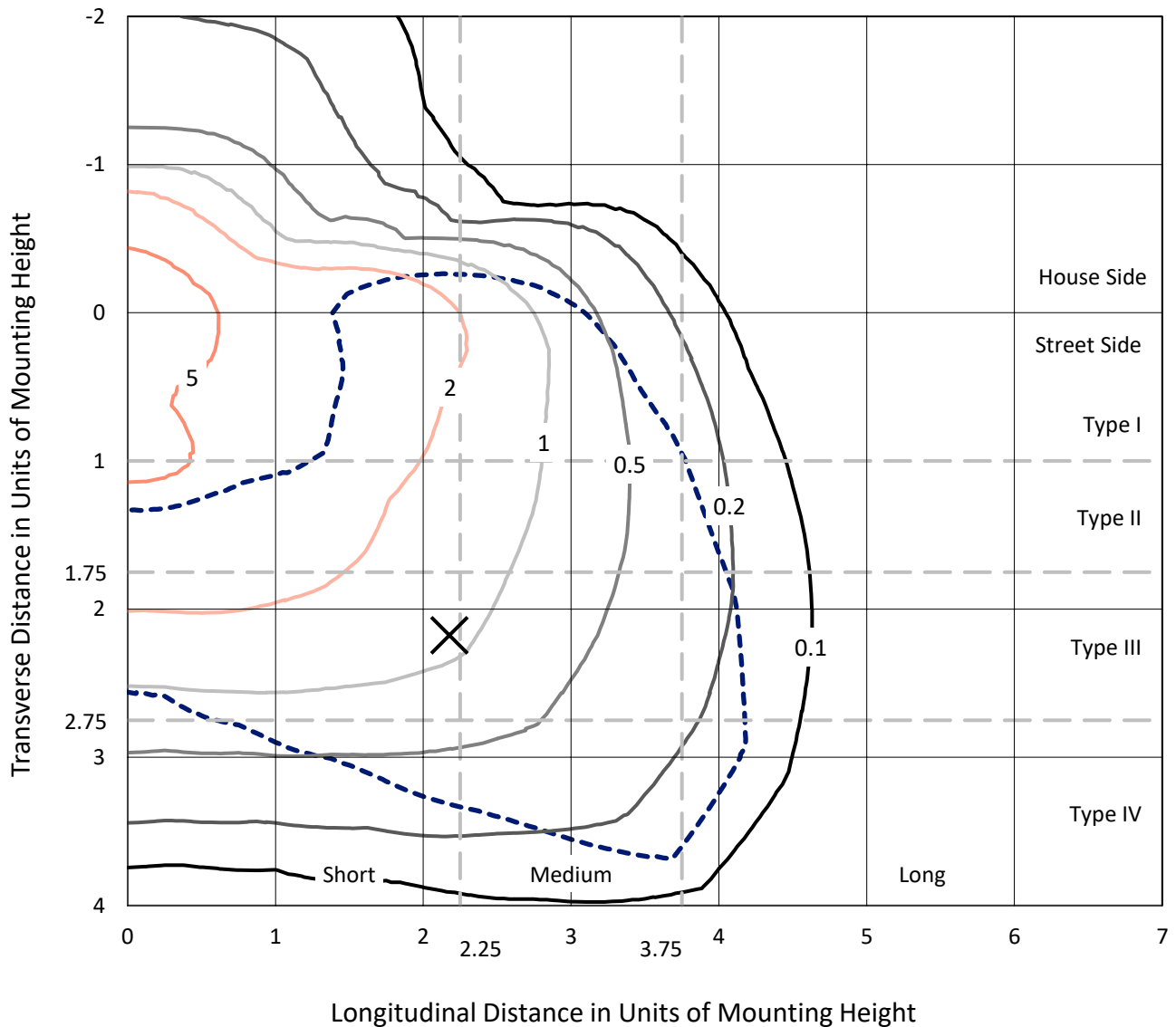
Lumens per Lamp: N/A
Luminaire Lumens: 51311 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

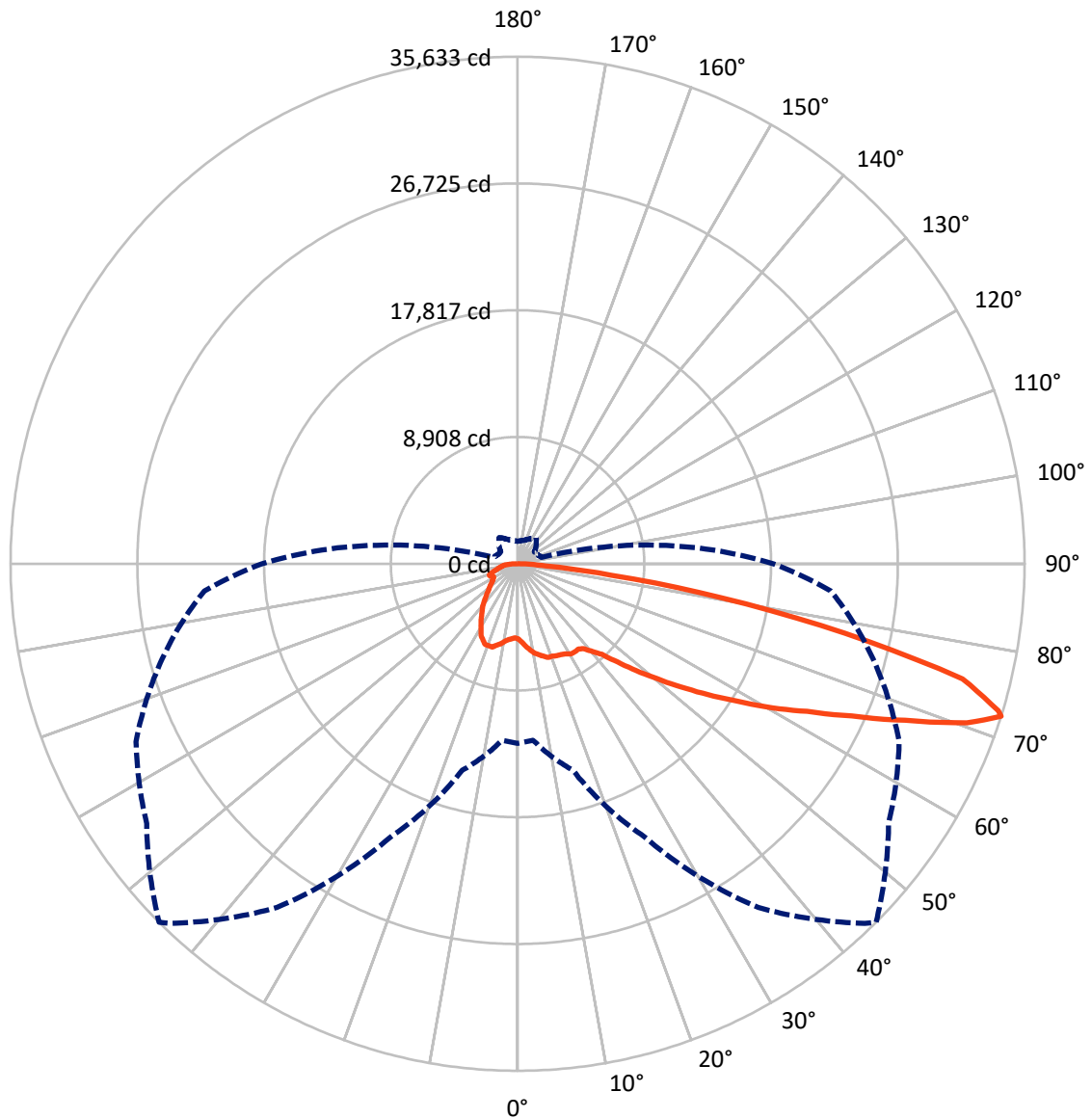
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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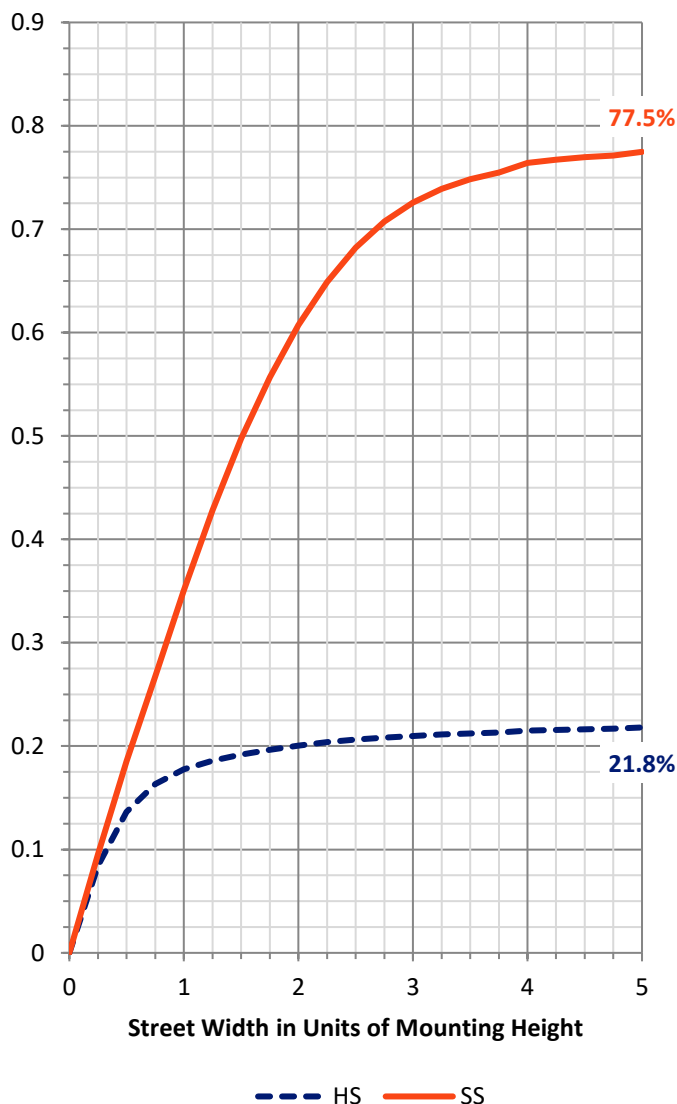
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11422.1	0.0	11422.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	39888.9	0.0	39888.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	51311.0	0.0	51311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	1.1
10°-20°	1799.0	3.5
20°-30°	3038.0	5.9
30°-40°	4204.1	8.2
40°-50°	6013.5	11.7
50°-60°	9699.1	18.9
60°-70°	14304.8	27.9
70°-80°	10387.7	20.2
80°-90°	1324.2	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°	51311.0	100.0
0°-180°	51311.0	100.0

Coefficient of Utilization

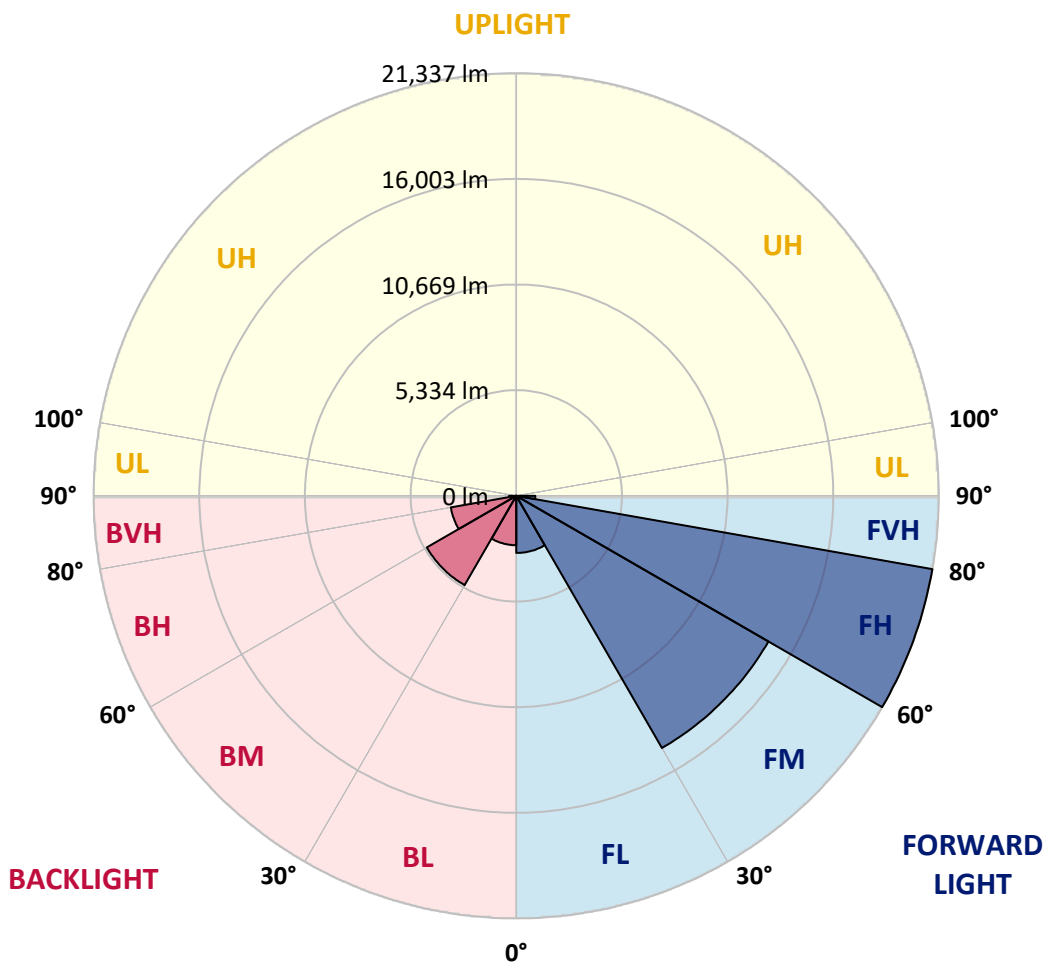


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2883.7	5.6			
FM (30°-60°)	14703.9	28.7			
FH (60°-80°)	21337.4	41.6			G5
FVH (80°-90°)	963.8	1.9			G5
BL (0°-30°)	2493.9	4.9	B3/2500		
BM (30°-60°)	5212.7	10.2	B4/8500		
BH (60°-80°)	3355.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	360.4	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°	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1
2.5°	5566.3	5599.5	5566.3	5560.8	5505.4	5466.7	5499.9	5450.1	5394.8	5372.6
5°	6075.3	6080.9	6020.0	6025.5	5909.3	5787.6	5809.8	5660.4	5499.9	5439.0
7.5°	6595.5	6534.6	6446.1	6418.4	6235.8	6103.0	6086.4	5953.6	5704.6	5566.3
10°	6933.0	6955.1	6811.2	6689.5	6534.6	6374.1	6368.6	6119.6	5975.7	5771.0
12.5°	7231.8	7237.3	7115.6	6921.9	6728.2	6529.1	6556.7	6446.1	6202.6	6008.9
15°	7464.1	7430.9	7298.2	7121.1	6916.4	6761.4	6744.8	6650.8	6446.1	6285.6
17.5°	7530.5	7513.9	7381.2	7193.0	6993.8	6877.6	6921.9	6767.0	6684.0	6540.1
20°	7403.3	7364.6	7342.4	7132.2	6988.3	6977.2	6938.5	6971.7	6833.4	6700.6
22.5°	7170.9	7154.3	7143.2	6977.2	6910.8	6960.6	7027.0	7076.8	7054.7	6927.4
25°	6933.0	7010.4	6938.5	6861.0	6955.1	7082.4	7065.8	7226.2	7226.2	7187.5
27.5°	7099.0	7049.2	6993.8	6955.1	6988.3	7187.5	7176.4	7370.1	7442.0	7370.1
30°	7513.9	7464.1	7303.7	7132.2	7087.9	7303.7	7359.0	7530.5	7563.7	7386.7
32.5°	8294.1	8266.4	8011.9	7508.4	7237.3	7359.0	7386.7	7580.3	7552.7	7442.0
35°	9450.5	9356.5	9002.3	8150.3	7552.7	7430.9	7359.0	7513.9	7619.1	7563.7
37.5°	10717.6	10612.5	10175.4	9096.4	8122.6	7624.6	7569.3	7696.5	7818.3	7790.6
40°	11929.4	11929.4	11536.5	10280.5	8969.1	8094.9	8106.0	7962.1	8072.8	8023.0
42.5°	13124.5	13080.2	12919.8	11669.3	9876.6	8880.6	8703.6	8343.9	8543.1	8526.5
45°	14336.3	14303.1	14258.8	12964.0	11176.9	9943.0	9848.9	9201.5	9384.1	9306.7
47.5°	15304.5	15343.3	15343.3	14408.2	12565.7	11359.4	11221.1	10197.5	10546.1	10584.8
50°	16129.0	16145.6	16129.0	15785.9	14114.9	12980.6	12698.5	11658.2	12006.8	12311.1
52.5°	17268.8	17290.9	17213.5	17080.7	16217.5	14684.8	14369.5	13213.0	13926.8	14247.7
55°	18674.2	18508.2	18364.3	18463.9	18237.1	16560.6	16234.1	14817.6	15891.1	16317.1
57.5°	18934.3	19078.1	19443.3	20234.5	20561.0	18386.5	18198.4	16787.4	18109.8	18480.5
60°	19852.8	19614.8	20511.2	22226.4	22591.6	20765.7	20572.1	18945.3	20317.5	20704.8
62.5°	20455.9	20444.8	21772.7	23808.9	24638.9	23233.5	22840.6	21750.6	22702.3	23078.5
65°	20278.8	20439.3	22796.4	24738.5	26348.6	26038.8	25811.9	24163.0	25419.0	25385.8
67.5°	18663.1	19116.8	22149.0	25408.0	28893.8	29458.2	29386.3	27554.8	27626.8	26924.0
70°	16422.2	16267.3	19410.1	24710.8	30166.4	33514.0	33497.4	30077.9	29613.1	27261.6
72°	12615.5	12443.9	15027.9	21219.4	29496.9	35135.2	35633.1	31826.4	29591.0	25861.7
72.5°	11453.5	11304.1	13877.0	19974.5	28755.5	35555.7	35323.3	31892.8	29358.6	25203.3
75°	5273.0	5101.5	6933.0	12228.1	22431.2	31505.5	32296.7	29845.5	25640.4	20063.0
77.5°	1571.4	1521.6	2229.8	4935.5	13036.0	23211.3	23515.7	22519.7	17899.6	10988.7
80°	874.2	879.8	1150.9	1848.1	5732.3	13417.8	14513.3	13910.2	8781.0	3629.7
82.5°	486.9	514.6	719.3	1095.6	2633.8	6158.3	6628.6	6390.7	3176.0	1704.2
85°	254.5	265.6	376.3	586.5	1493.9	1947.7	2003.0	2146.8	1648.9	1162.0
87.5°	99.6	99.6	138.3	243.5	553.3	603.1	542.2	658.4	946.2	752.5
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°
5284.1	0°	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1	5284.1
5322.8	2.5°	5367.1	5322.8	5317.3	5245.4	5267.5	5206.6	5212.2	5201.1	5206.6	5195.6
5339.4	5°	5339.4	5306.2	5212.2	5273.0	5217.7	5295.2	5356.0	5333.9	5350.5	5345.0
5428.0	7.5°	5378.2	5333.9	5322.8	5289.6	5339.4	5372.6	5422.4	5560.8	5549.7	5566.3
5594.0	10°	5494.4	5444.6	5411.4	5461.2	5433.5	5538.6	5594.0	5665.9	5793.2	5798.7
5831.9	12.5°	5721.2	5688.0	5621.6	5632.7	5726.8	5760.0	5793.2	5837.4	5920.4	5903.8
5992.3	15°	5981.3	5909.3	5870.6	5859.5	5881.7	5920.4	5914.9	5959.1	6003.4	6042.1
6257.9	17.5°	6169.4	6075.3	6086.4	6141.7	6136.2	6125.1	6053.2	6031.1	6053.2	6075.3
6495.9	20°	6363.1	6374.1	6291.1	6241.3	6219.2	6108.5	6053.2	5986.8	5920.4	5953.6
6695.0	22.5°	6606.5	6556.7	6435.0	6285.6	6174.9	6108.5	5937.0	5820.8	5820.8	5854.0
6993.8	25°	6883.2	6778.0	6567.8	6296.7	6158.3	5876.1	5754.4	5737.8	5693.6	5743.4
7148.8	27.5°	7099.0	7004.9	6717.2	6257.9	5876.1	5649.3	5577.4	5555.2	5627.2	5632.7
7198.6	30°	7187.5	7159.8	6739.3	6158.3	5588.4	5223.2	5179.0	5278.6	5356.0	5472.2
7364.6	32.5°	7303.7	7314.8	6772.5	5925.9	5212.2	4847.0	4780.6	4902.3	5123.6	5217.7
7491.8	35°	7497.3	7552.7	6744.8	5638.2	4813.8	4465.2	4454.1	4487.3	4703.1	4869.1
7641.2	37.5°	7834.9	7823.8	6739.3	5295.2	4498.4	4133.2	4044.7	4055.8	4199.6	4337.9
8050.7	40°	8288.6	8244.3	6722.7	4847.0	4089.0	3851.0	3701.6	3646.3	3635.2	3596.5
8565.2	42.5°	8908.3	8819.8	6717.2	4393.3	3718.2	3463.7	3358.6	3214.7	3109.6	2910.4
9472.7	45°	9771.4	9616.5	6573.3	3967.2	3353.1	3142.8	2982.3	2877.2	2650.4	2401.4
10623.5	47.5°	11104.9	10601.4	6578.9	3496.9	2998.9	2827.4	2716.8	2534.2	2290.7	2091.5
12665.3	50°	13069.2	11918.3	6390.7	3126.2	2711.2	2595.0	2478.8	2268.6	2036.2	1897.9
14884.0	52.5°	15603.3	13882.5	6385.2	2794.2	2484.4	2401.4	2274.1	2086.0	1914.5	1825.9
17589.7	55°	18624.4	16483.1	6584.4	2523.1	2252.0	2207.7	2152.4	1997.4	1831.5	1754.0
20605.3	57.5°	21717.4	19022.8	6905.3	2329.4	2052.8	2086.0	2047.2	1925.5	1792.7	1704.2
23388.4	60°	24467.4	21036.8	6257.9	2097.0	1875.7	1947.7	2003.0	1897.9	1825.9	1820.4
26420.5	62.5°	26542.3	21900.0	4758.5	1920.0	1781.7	1914.5	2063.8	2130.2	2097.0	2141.3
28395.9	65°	27300.3	21379.9	3275.6	1825.9	1709.7	1991.9	2323.9	2301.8	2108.1	2025.1
29275.6	67.5°	26237.9	19271.8	2429.0	1715.3	1659.9	2152.4	2473.3	2196.6	1903.4	1892.3
26752.5	70°	22564.0	16333.7	1980.8	1599.1	1576.9	2063.8	2406.9	2036.2	1792.7	1720.8
22099.2	72°	17977.0	12720.6	1737.4	1516.1	1444.1	1842.5	2252.0	1908.9	1698.7	1610.1
20644.0	72.5°	16411.2	11791.0	1704.2	1477.3	1416.5	1792.7	2174.5	1870.2	1676.5	1599.1
12366.5	75°	9002.3	6036.6	1499.5	1355.6	1195.1	1549.3	2014.0	1754.0	1582.5	1471.8
4586.9	77.5°	3347.5	2340.5	1294.7	1200.7	1034.7	1339.0	1831.5	1665.5	1438.6	1300.3
1527.1	80°	1283.7	1233.9	1056.8	1012.6	868.7	1173.0	1687.6	1493.9	1222.8	1084.5
835.5	82.5°	780.2	719.3	802.3	791.2	664.0	1067.9	1588.0	1399.9	1084.5	879.8
448.2	85°	426.0	426.0	558.8	536.7	464.8	852.1	1200.7	929.6	686.1	564.4
221.3	87.5°	188.1	221.3	298.8	282.2	254.5	481.4	586.5	492.4	343.1	232.4
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



180°
5284.1
5167.9
5350.5
5599.5
5732.3
5964.7
6025.5
6064.3
6003.4
5837.4
5765.5
5721.2
5477.8
5289.6
4963.2
4321.3
3607.6
2921.5
2401.4
2069.4
1914.5
1792.7
1748.5
1693.1
1781.7
2146.8
2069.4
1859.1
1687.6
1571.4
1538.2
1460.7
1272.6
1040.2
852.1
575.4
249.0
0.0

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