

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: P574806

Luminaire Tested: **EPH-VN-06-730-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574806
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

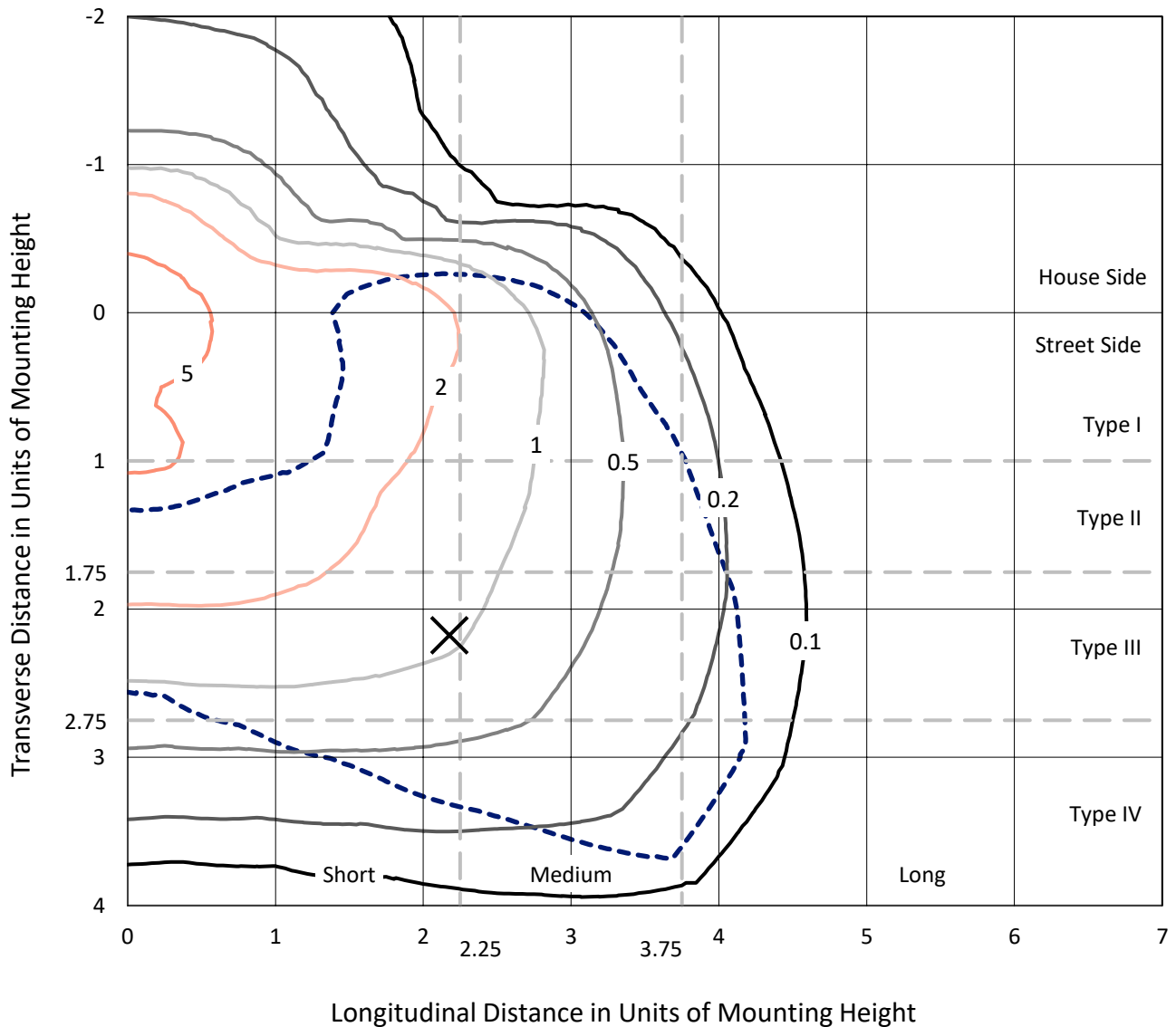
Lumens per Lamp: N/A
Luminaire Lumens: 48701.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

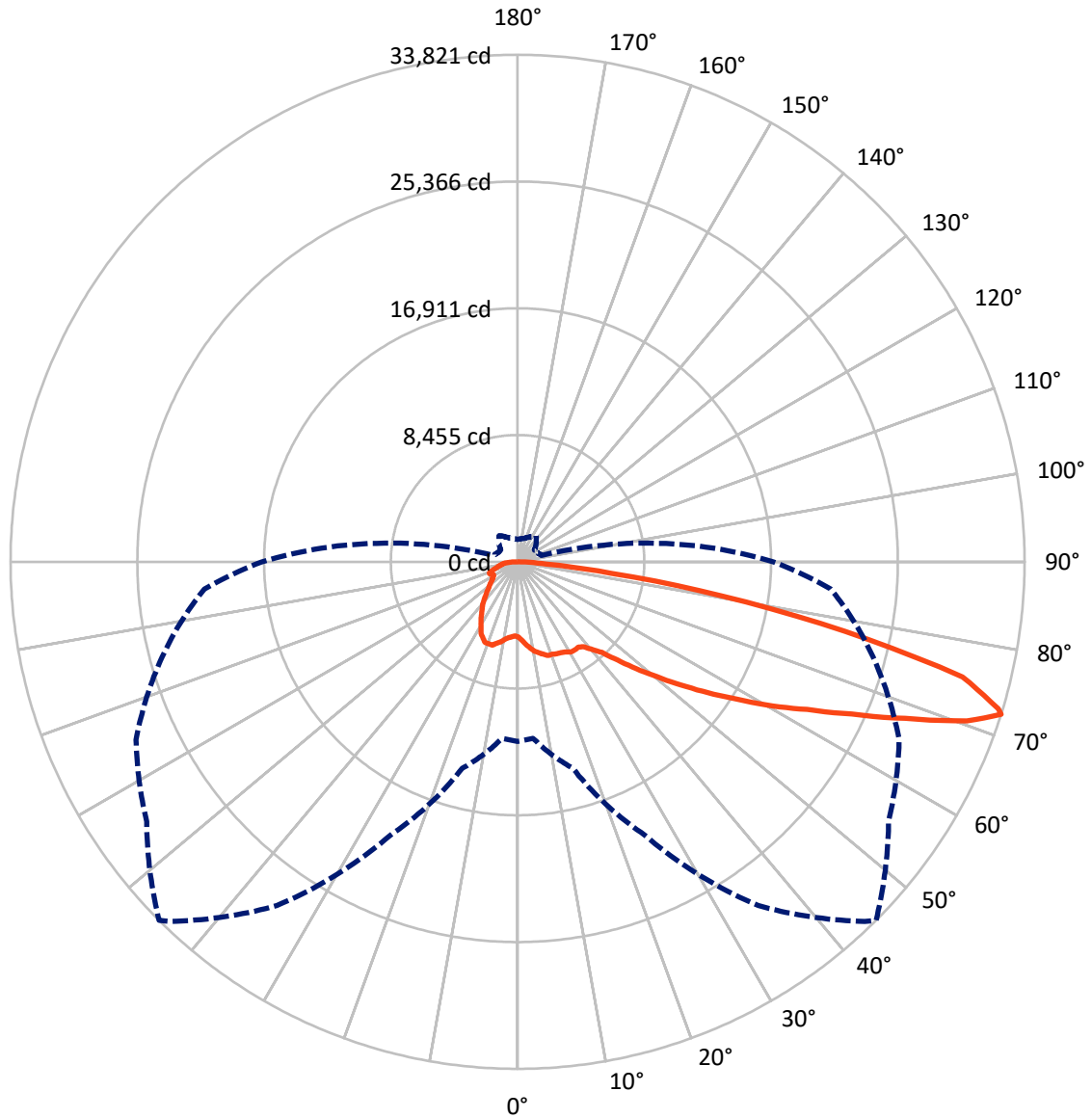
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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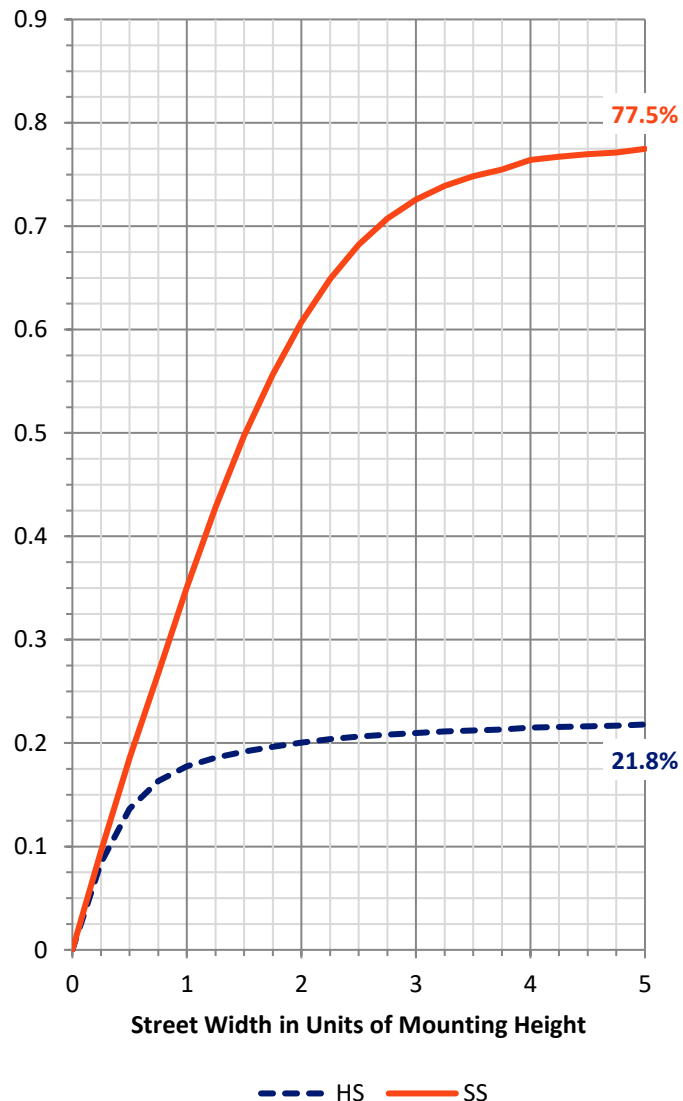
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10841.3	0.0	10841.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	37860.6	0.0	37860.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	48701.9	0.0	48701.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.2	1.1
10°-20°	1707.5	3.5
20°-30°	2883.5	5.9
30°-40°	3990.3	8.2
40°-50°	5707.7	11.7
50°-60°	9205.9	18.9
60°-70°	13577.4	27.9
70°-80°	9859.5	20.2
80°-90°	1256.8	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°	48701.9	100.0
0°-180°	48701.9	100.0

Coefficient of Utilization

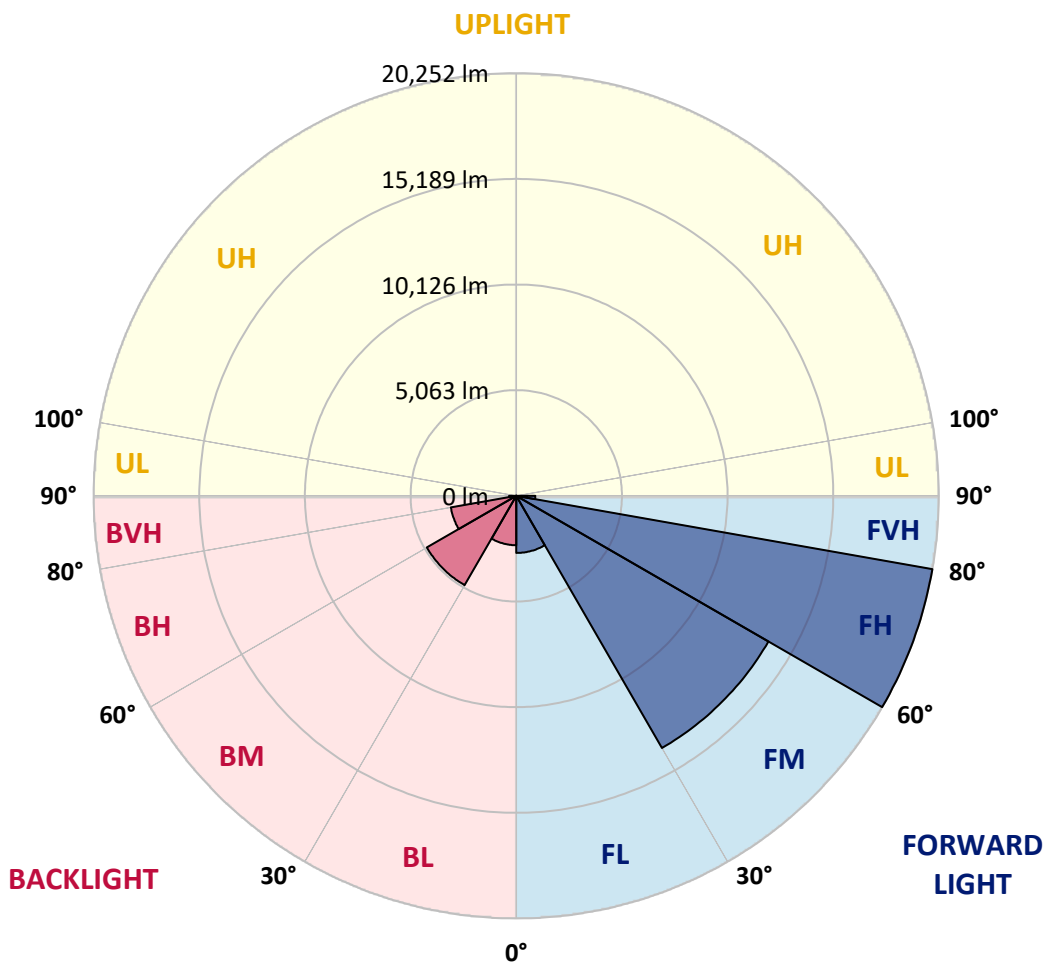


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2737.1	5.6			
FM (30°-60°)	13956.3	28.7			
FH (60°-80°)	20252.4	41.6			G5
FVH (80°-90°)	914.8	1.9			G5
BL (0°-30°)	2367.1	4.9	B3/2500		
BM (30°-60°)	4947.7	10.2	B3/5000		
BH (60°-80°)	3184.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	342.0	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°	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4
2.5°	5283.3	5314.8	5283.3	5278.0	5225.5	5188.7	5220.2	5173.0	5120.5	5099.4
5°	5766.4	5771.7	5713.9	5719.2	5608.9	5493.3	5514.3	5372.5	5220.2	5162.5
7.5°	6260.1	6202.3	6118.3	6092.0	5918.7	5792.7	5776.9	5650.9	5414.6	5283.3
10°	6580.4	6601.4	6464.9	6349.4	6202.3	6050.0	6044.8	5808.4	5671.9	5477.6
12.5°	6864.0	6869.3	6753.7	6569.9	6386.1	6197.1	6223.3	6118.3	5887.2	5703.4
15°	7084.6	7053.1	6927.1	6759.0	6564.7	6417.6	6401.9	6312.6	6118.3	5966.0
17.5°	7147.6	7131.9	7005.8	6827.3	6638.2	6527.9	6569.9	6422.9	6344.1	6207.6
20°	7026.8	6990.1	6969.1	6769.5	6633.0	6622.5	6585.7	6617.2	6485.9	6359.9
22.5°	6806.3	6790.5	6780.0	6622.5	6559.4	6606.7	6669.7	6717.0	6696.0	6575.2
25°	6580.4	6654.0	6585.7	6512.2	6601.4	6722.2	6706.5	6858.8	6858.8	6822.0
27.5°	6738.0	6690.7	6638.2	6601.4	6633.0	6822.0	6811.5	6995.3	7063.6	6995.3
30°	7131.9	7084.6	6932.3	6769.5	6727.5	6932.3	6984.8	7147.6	7179.1	7011.1
32.5°	7872.4	7846.1	7604.5	7126.6	6869.3	6984.8	7011.1	7194.9	7168.6	7063.6
35°	8970.0	8880.7	8544.6	7735.8	7168.6	7053.1	6984.8	7131.9	7231.7	7179.1
37.5°	10172.6	10072.9	9658.0	8633.9	7709.6	7236.9	7184.4	7305.2	7420.7	7394.5
40°	11322.8	11322.8	10949.9	9757.7	8513.1	7683.3	7693.8	7557.3	7662.3	7615.0
42.5°	12457.1	12415.1	12262.8	11075.9	9374.4	8429.1	8261.0	7919.6	8108.7	8092.9
45°	13607.3	13575.8	13533.8	12304.8	10608.5	9437.4	9348.1	8733.7	8907.0	8833.4
47.5°	14526.3	14563.1	14563.1	13675.6	11926.7	10781.8	10650.5	9679.0	10009.8	10046.6
50°	15308.8	15324.6	15308.8	14983.2	13397.2	12320.6	12052.8	11065.4	11396.3	11685.1
52.5°	16390.7	16411.7	16338.2	16212.1	15392.9	13938.1	13638.8	12541.2	13218.6	13523.3
55°	17724.6	17567.1	17430.6	17525.1	17309.8	15718.5	15408.6	14064.2	15083.0	15487.4
57.5°	17971.5	18108.0	18454.6	19205.6	19515.5	17451.6	17273.0	15933.8	17189.0	17540.8
60°	18843.3	18617.4	19468.2	21096.3	21442.9	19709.8	19526.0	17982.0	19284.4	19652.0
62.5°	19415.7	19405.2	20665.6	22598.3	23386.0	22052.1	21679.2	20644.6	21547.9	21905.0
65°	19247.7	19400.0	21637.2	23480.6	25008.8	24714.7	24499.4	22934.4	24126.5	24095.0
67.5°	17714.1	18144.8	21022.7	24116.0	27424.6	27960.3	27892.0	26153.7	26222.0	25555.0
70°	15587.2	15440.1	18423.1	23454.3	28632.5	31809.8	31794.1	28548.5	28107.4	25875.4
72°	11974.0	11811.2	14263.7	20140.5	27997.1	33348.6	33821.3	30208.1	28086.3	24546.7
72.5°	10871.1	10729.3	13171.4	18958.8	27293.3	33747.7	33527.2	30271.1	27865.8	23921.7
75°	5004.9	4842.1	6580.4	11606.4	21290.6	29903.5	30654.5	28327.9	24336.6	19042.8
77.5°	1491.5	1444.2	2116.5	4684.6	12373.1	22031.1	22319.9	21374.6	16989.4	10430.0
80°	829.8	835.0	1092.4	1754.1	5440.8	12735.5	13775.3	13202.9	8334.5	3445.1
82.5°	462.2	488.4	682.7	1039.8	2499.8	5845.2	6291.6	6065.8	3014.5	1617.5
85°	241.6	252.1	357.1	556.7	1418.0	1848.6	1901.1	2037.7	1565.0	1102.9
87.5°	94.5	94.5	131.3	231.1	525.2	572.4	514.7	625.0	898.0	714.2
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°
5015.4	0°	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4	5015.4
5052.2	2.5°	5094.2	5052.2	5046.9	4978.7	4999.7	4941.9	4947.1	4936.6	4941.9	4931.4
5067.9	5°	5067.9	5036.4	4947.1	5004.9	4952.4	5025.9	5083.7	5062.7	5078.4	5073.2
5152.0	7.5°	5104.7	5062.7	5052.2	5020.7	5067.9	5099.4	5146.7	5278.0	5267.5	5283.3
5309.5	10°	5215.0	5167.7	5136.2	5183.5	5157.2	5257.0	5309.5	5377.8	5498.6	5503.8
5535.3	12.5°	5430.3	5398.8	5335.8	5346.3	5435.6	5467.1	5498.6	5540.6	5619.4	5603.6
5687.6	15°	5677.1	5608.9	5572.1	5561.6	5582.6	5619.4	5614.1	5656.1	5698.1	5734.9
5939.7	17.5°	5855.7	5766.4	5776.9	5829.4	5824.2	5813.7	5745.4	5724.4	5745.4	5766.4
6165.6	20°	6039.5	6050.0	5971.2	5924.0	5903.0	5797.9	5745.4	5682.4	5619.4	5650.9
6354.6	22.5°	6270.6	6223.3	6107.8	5966.0	5861.0	5797.9	5635.1	5524.8	5524.8	5556.3
6638.2	25°	6533.2	6433.4	6233.8	5976.5	5845.2	5577.4	5461.8	5446.1	5404.0	5451.3
6785.3	27.5°	6738.0	6648.7	6375.6	5939.7	5577.4	5362.0	5293.8	5272.8	5341.0	5346.3
6832.5	30°	6822.0	6795.8	6396.6	5845.2	5304.3	4957.7	4915.6	5010.2	5083.7	5194.0
6990.1	32.5°	6932.3	6942.8	6428.1	5624.6	4947.1	4600.5	4537.5	4653.0	4863.1	4952.4
7110.9	35°	7116.1	7168.6	6401.9	5351.5	4569.0	4238.2	4227.7	4259.2	4464.0	4621.5
7252.7	37.5°	7436.5	7426.0	6396.6	5025.9	4269.7	3923.1	3839.0	3849.5	3986.1	4117.4
7641.3	40°	7867.1	7825.1	6380.9	4600.5	3881.0	3655.2	3513.4	3460.9	3450.4	3413.6
8129.7	42.5°	8455.3	8371.3	6375.6	4169.9	3529.2	3287.6	3187.8	3051.3	2951.5	2762.4
8991.0	45°	9274.6	9127.5	6239.1	3765.5	3182.6	2983.0	2830.7	2730.9	2515.6	2279.3
10083.4	47.5°	10540.3	10062.3	6244.3	3319.1	2846.4	2683.6	2578.6	2405.3	2174.2	1985.2
12021.3	50°	12404.6	11312.3	6065.8	2967.2	2573.4	2463.1	2352.8	2153.2	1932.6	1801.3
14127.2	52.5°	14809.9	13176.6	6060.5	2652.1	2358.0	2279.3	2158.5	1979.9	1817.1	1733.1
16695.3	55°	17677.4	15645.0	6249.6	2394.8	2137.5	2095.4	2042.9	1895.9	1738.3	1664.8
19557.5	57.5°	20613.1	18055.5	6554.2	2211.0	1948.4	1979.9	1943.1	1827.6	1701.6	1617.5
22199.1	60°	23223.2	19967.1	5939.7	1990.4	1780.3	1848.6	1901.1	1801.3	1733.1	1727.8
25077.1	62.5°	25192.6	20786.4	4516.5	1822.4	1691.1	1817.1	1958.9	2021.9	1990.4	2032.4
26952.0	65°	25912.1	20292.8	3109.0	1733.1	1622.8	1890.6	2205.7	2184.7	2000.9	1922.1
27787.0	67.5°	24903.8	18291.8	2305.5	1628.0	1575.5	2042.9	2347.5	2084.9	1806.6	1796.1
25392.2	70°	21416.6	15503.2	1880.1	1517.8	1496.7	1958.9	2284.5	1932.6	1701.6	1633.3
20975.5	72°	17062.9	12073.8	1649.0	1439.0	1370.7	1748.8	2137.5	1811.9	1612.3	1528.3
19594.3	72.5°	15576.7	11191.5	1617.5	1402.2	1344.4	1701.6	2063.9	1775.1	1591.3	1517.8
11737.7	75°	8544.6	5729.7	1423.2	1286.7	1134.4	1470.5	1911.6	1664.8	1502.0	1397.0
4353.7	77.5°	3177.3	2221.5	1228.9	1139.6	982.1	1270.9	1738.3	1580.8	1365.5	1234.2
1449.5	80°	1218.4	1171.1	1003.1	961.1	824.5	1113.4	1601.8	1418.0	1160.6	1029.3
793.0	82.5°	740.5	682.7	761.5	751.0	630.2	1013.6	1507.3	1328.7	1029.3	835.0
425.4	85°	404.4	404.4	530.4	509.4	441.1	808.8	1139.6	882.3	651.2	535.7
210.1	87.5°	178.6	210.1	283.6	267.8	241.6	456.9	556.7	467.4	325.6	220.6
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°
5015.4
4905.1
5078.4
5314.8
5440.8
5661.4
5719.2
5755.9
5698.1
5540.6
5472.3
5430.3
5199.2
5020.7
4710.8
4101.6
3424.1
2772.9
2279.3
1964.2
1817.1
1701.6
1659.6
1607.0
1691.1
2037.7
1964.2
1764.6
1601.8
1491.5
1460.0
1386.5
1207.9
987.3
808.8
546.2
236.3
0.0

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