

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: P574825

Luminaire Tested: **EPH-VN-07-750-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574825
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-750-U-T4W
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

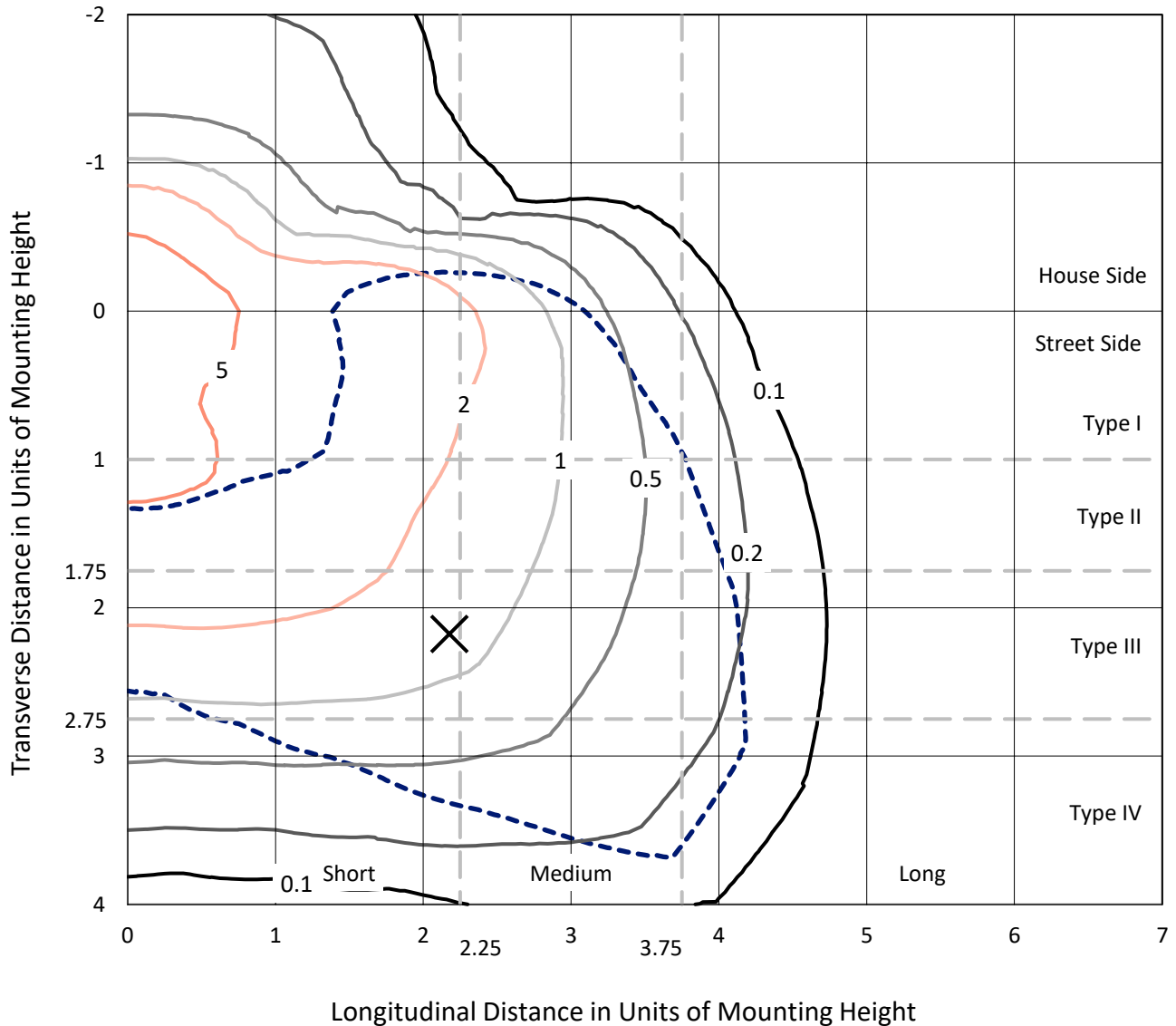
Lumens per Lamp: N/A
Luminaire Lumens: 58366.6 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

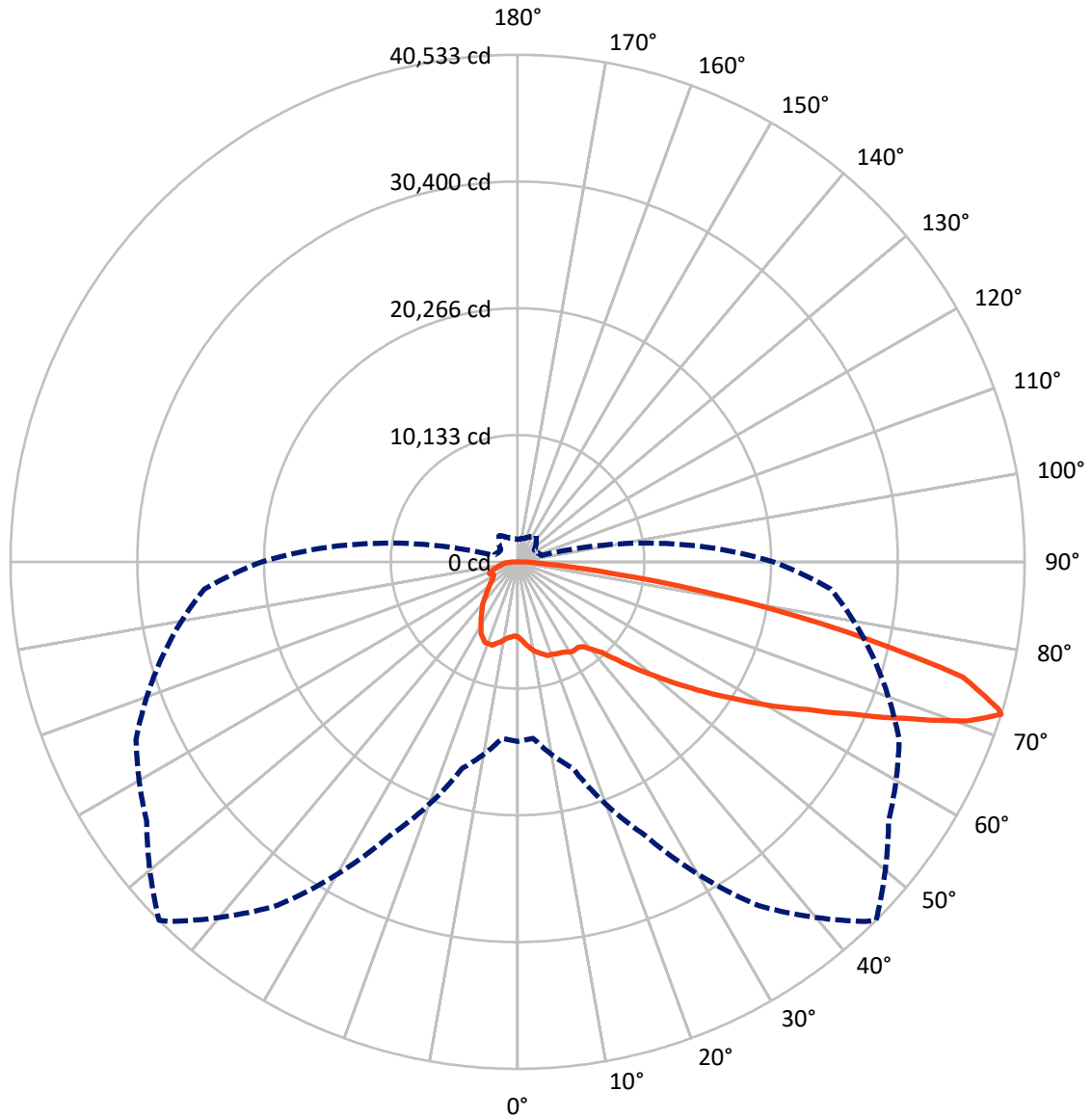
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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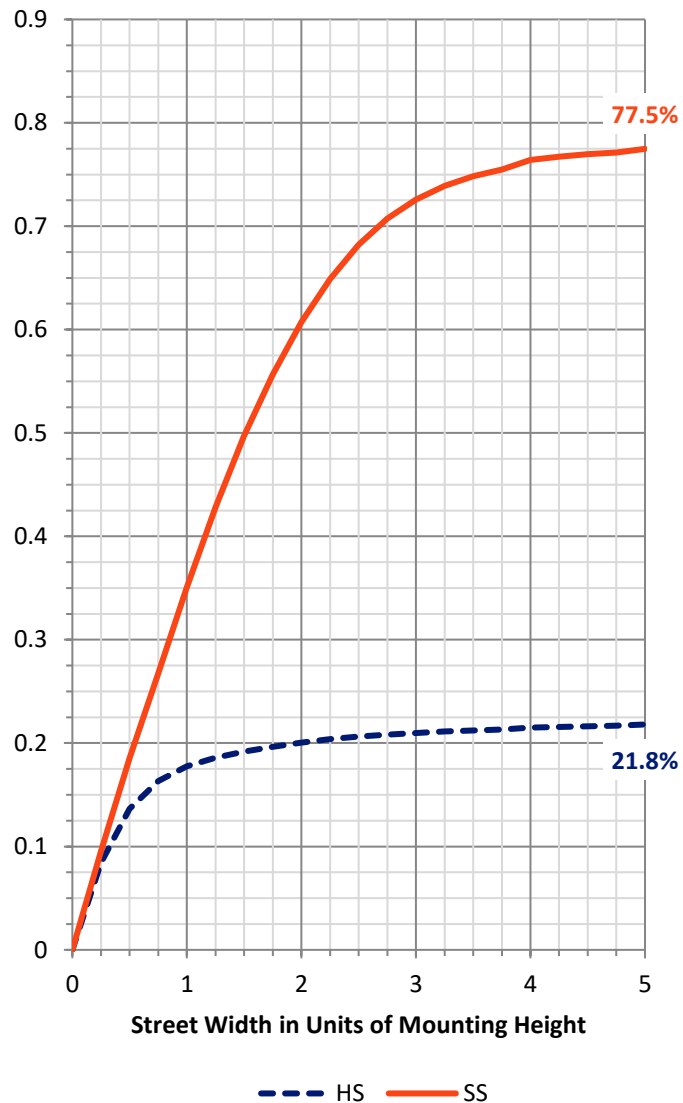
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12992.8	0.0	12992.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	45373.9	0.0	45373.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	58366.6	0.0	58366.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.1	1.1
10°-20°	2046.4	3.5
20°-30°	3455.7	5.9
30°-40°	4782.1	8.2
40°-50°	6840.4	11.7
50°-60°	11032.8	18.9
60°-70°	16271.8	27.9
70°-80°	11816.1	20.2
80°-90°	1506.3	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°	58366.6	100.0
0°-180°	58366.6	100.0

Coefficient of Utilization



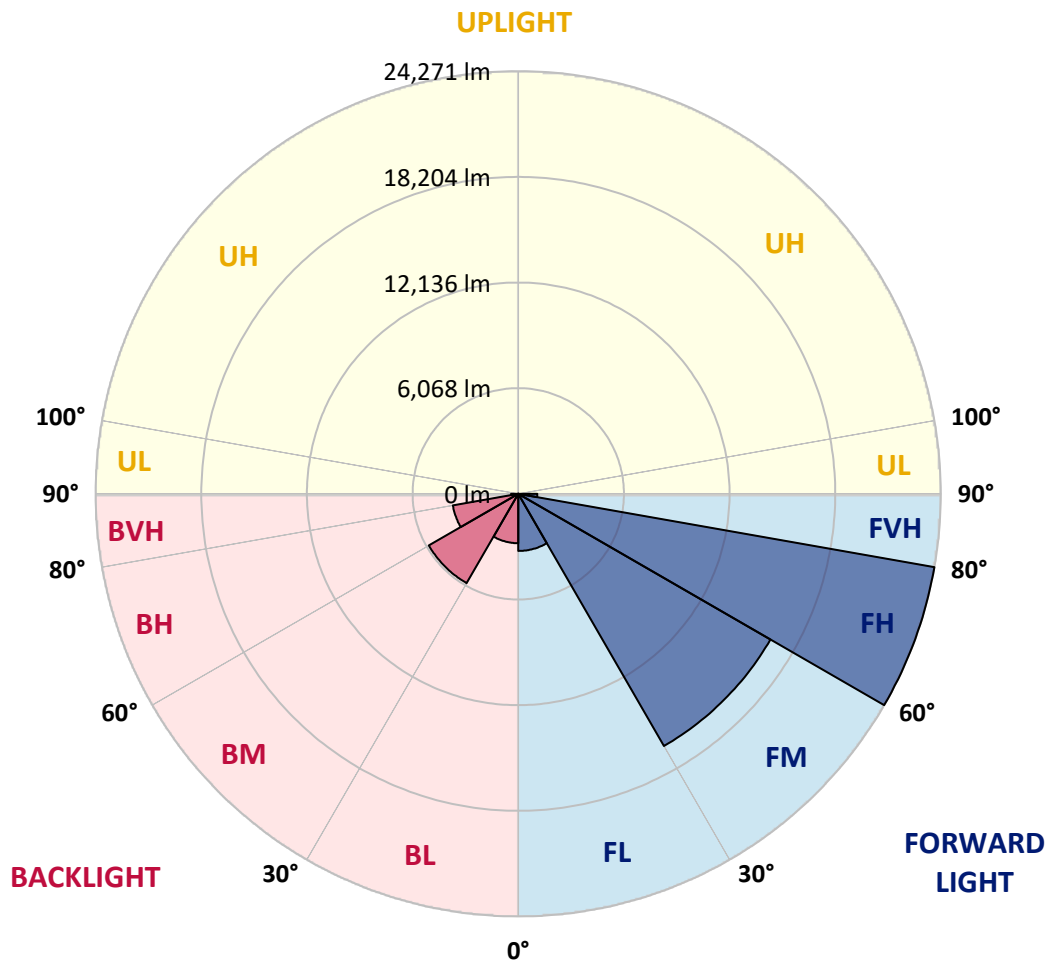
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3280.2	5.6			
FM (30°-60°)	16725.8	28.7			
FH (60°-80°)	24271.5	41.6			G5
FVH (80°-90°)	1096.3	1.9			G5
BL (0°-30°)	2836.9	4.9	B4/5000		
BM (30°-60°)	5929.5	10.2	B4/8500		
BH (60°-80°)	3816.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	409.9	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°	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7
2.5°	6331.7	6369.5	6331.7	6325.4	6262.5	6218.4	6256.2	6199.5	6136.6	6111.4
5°	6910.7	6917.0	6847.8	6854.1	6721.9	6583.5	6608.6	6438.7	6256.2	6186.9
7.5°	7502.4	7433.1	7332.4	7301.0	7093.3	6942.2	6923.3	6772.3	6489.0	6331.7
10°	7886.3	7911.5	7747.8	7609.4	7433.1	7250.6	7244.3	6961.1	6797.4	6564.6
12.5°	8226.2	8232.5	8094.0	7873.7	7653.4	7426.8	7458.3	7332.4	7055.5	6835.2
15°	8490.5	8452.8	8301.7	8100.3	7867.4	7691.2	7672.3	7565.3	7332.4	7149.9
17.5°	8566.0	8547.2	8396.1	8182.1	7955.5	7823.4	7873.7	7697.5	7603.1	7439.4
20°	8421.3	8377.2	8352.1	8112.9	7949.2	7936.7	7892.6	7930.4	7773.0	7622.0
22.5°	8156.9	8138.1	8125.5	7936.7	7861.1	7917.8	7993.3	8049.9	8024.8	7880.0
25°	7886.3	7974.4	7892.6	7804.5	7911.5	8056.2	8037.4	8219.9	8219.9	8175.8
27.5°	8075.1	8018.5	7955.5	7911.5	7949.2	8175.8	8163.2	8383.5	8465.3	8383.5
30°	8547.2	8490.5	8308.0	8112.9	8062.5	8308.0	8370.9	8566.0	8603.8	8402.4
32.5°	9434.6	9403.1	9113.6	8540.9	8232.5	8370.9	8402.4	8622.7	8591.2	8465.3
35°	10750.0	10643.0	10240.2	9271.0	8591.2	8452.8	8370.9	8547.2	8666.7	8603.8
37.5°	12191.4	12071.8	11574.5	10347.2	9239.5	8673.0	8610.1	8754.9	8893.3	8861.9
40°	13569.7	13569.7	13122.9	11694.1	10202.5	9208.0	9220.6	9057.0	9182.9	9126.2
42.5°	14929.2	14878.9	14696.3	13273.9	11234.7	10101.8	9900.4	9491.3	9717.8	9699.0
45°	16307.6	16269.8	16219.5	14746.7	12713.7	11310.2	11203.2	10466.8	10674.5	10586.4
47.5°	17409.0	17453.1	17453.1	16389.4	14293.5	12921.4	12764.1	11599.7	11996.2	12040.3
50°	18346.8	18365.7	18346.8	17956.6	16055.8	14765.6	14444.6	13261.3	13657.8	14004.0
52.5°	19643.4	19668.5	19580.4	19429.4	18447.5	16704.1	16345.3	15029.9	15841.8	16206.9
55°	21242.0	21053.2	20889.6	21002.9	20744.8	18837.7	18466.4	16855.2	18076.2	18560.8
57.5°	21537.8	21701.5	22116.9	23016.9	23388.3	20914.7	20700.8	19095.8	20600.0	21021.7
60°	22582.6	22312.0	23331.6	25282.7	25698.1	23621.1	23400.8	21550.4	23111.3	23551.9
62.5°	23268.7	23256.1	24766.6	27082.8	28026.9	26428.2	25981.4	24741.5	25824.0	26252.0
65°	23067.3	23249.8	25931.0	28140.2	29971.7	29619.3	29361.2	27485.6	28914.3	28876.6
67.5°	21229.4	21745.5	25194.6	28901.7	32866.9	33508.9	33427.1	31343.8	31425.6	30626.3
70°	18680.4	18504.2	22079.1	28108.7	34314.5	38122.4	38103.5	34213.8	33685.1	31010.2
72°	14350.2	14155.1	17094.3	24137.2	33553.0	39966.5	40532.9	36202.7	33660.0	29417.9
72.5°	13028.4	12858.5	15785.2	22721.1	32709.6	40444.8	40180.5	36278.2	33395.6	28668.9
75°	5998.1	5803.0	7886.3	13909.6	25515.6	35837.7	36737.7	33949.5	29166.1	22821.8
77.5°	1787.5	1730.8	2536.5	5614.2	14828.5	26403.1	26749.2	25616.3	20360.9	12499.8
80°	994.4	1000.7	1309.1	2102.2	6520.5	15262.8	16509.0	15823.0	9988.5	4128.8
82.5°	553.9	585.3	818.2	1246.2	2995.9	7005.1	7540.1	7269.5	3612.7	1938.5
85°	289.5	302.1	428.0	667.2	1699.4	2215.5	2278.4	2442.0	1875.6	1321.7
87.5°	113.3	113.3	157.3	276.9	629.4	686.0	616.8	749.0	1076.3	856.0
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°
6010.7	0°	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7	6010.7
6054.8	2.5°	6105.1	6054.8	6048.5	5966.7	5991.8	5922.6	5928.9	5916.3	5922.6	5910.0
6073.6	5°	6073.6	6035.9	5928.9	5998.1	5935.2	6023.3	6092.5	6067.4	6086.2	6079.9
6174.4	7.5°	6117.7	6067.4	6054.8	6017.0	6073.6	6111.4	6168.1	6325.4	6312.8	6331.7
6363.2	10°	6249.9	6193.2	6155.5	6212.1	6180.6	6300.2	6363.2	6445.0	6589.7	6596.0
6633.8	12.5°	6507.9	6470.2	6394.6	6407.2	6514.2	6552.0	6589.7	6640.1	6734.5	6715.6
6816.3	15°	6803.7	6721.9	6677.9	6665.3	6690.5	6734.5	6728.2	6778.6	6828.9	6873.0
7118.4	17.5°	7017.7	6910.7	6923.3	6986.3	6980.0	6967.4	6885.6	6860.4	6885.6	6910.7
7389.1	20°	7238.0	7250.6	7156.2	7099.6	7074.4	6948.5	6885.6	6810.0	6734.5	6772.3
7615.7	22.5°	7515.0	7458.3	7319.8	7149.9	7024.0	6948.5	6753.4	6621.2	6621.2	6659.0
7955.5	25°	7829.7	7710.1	7470.9	7162.5	7005.1	6684.2	6545.7	6526.8	6476.5	6533.1
8131.8	27.5°	8075.1	7968.1	7640.8	7118.4	6684.2	6426.1	6344.3	6319.1	6400.9	6407.2
8188.4	30°	8175.8	8144.4	7666.0	7005.1	6356.9	5941.5	5891.1	6004.4	6092.5	6224.7
8377.2	32.5°	8308.0	8320.6	7703.8	6740.8	5928.9	5513.5	5438.0	5576.4	5828.2	5935.2
8522.0	35°	8528.3	8591.2	7672.3	6413.5	5475.7	5079.2	5066.6	5104.4	5349.8	5538.7
8691.9	37.5°	8912.2	8899.6	7666.0	6023.3	5117.0	4701.6	4600.9	4613.5	4777.1	4934.4
9157.7	40°	9428.3	9378.0	7647.1	5513.5	4651.2	4380.6	4210.6	4147.7	4135.1	4091.1
9743.0	42.5°	10133.2	10032.5	7640.8	4997.4	4229.5	3940.0	3820.4	3656.8	3537.2	3310.6
10775.2	45°	11115.1	10938.9	7477.2	4512.8	3814.1	3575.0	3392.4	3272.8	3014.8	2731.6
12084.4	47.5°	12631.9	12059.2	7483.5	3977.8	3411.3	3216.2	3090.3	2882.6	2605.7	2379.1
14406.8	50°	14866.3	13557.1	7269.5	3556.1	3084.0	2951.9	2819.7	2580.5	2316.2	2158.8
16930.7	52.5°	17748.9	15791.5	7263.2	3178.4	2826.0	2731.6	2586.8	2372.8	2177.7	2077.0
20008.4	55°	21185.4	18749.6	7489.8	2870.0	2561.6	2511.3	2448.3	2272.1	2083.3	1995.2
23438.6	57.5°	24703.7	21638.5	7854.8	2649.7	2335.0	2372.8	2328.8	2190.3	2039.2	1938.5
26604.5	60°	27831.8	23929.5	7118.4	2385.4	2133.6	2215.5	2278.4	2158.8	2077.0	2070.7
30053.5	62.5°	30192.0	24911.4	5412.8	2184.0	2026.6	2177.7	2347.6	2423.2	2385.4	2435.8
32300.5	65°	31054.3	24319.8	3726.0	2077.0	1944.8	2265.8	2643.5	2618.3	2398.0	2303.6
33301.2	67.5°	29845.8	21921.8	2763.0	1951.1	1888.2	2448.3	2813.4	2498.7	2165.1	2152.5
30431.2	70°	25666.7	18579.7	2253.2	1818.9	1793.8	2347.6	2737.9	2316.2	2039.2	1957.4
25138.0	72°	20449.0	14469.8	1976.3	1724.5	1642.7	2095.9	2561.6	2171.4	1932.2	1831.5
23482.7	72.5°	18667.8	13412.4	1938.5	1680.5	1611.2	2039.2	2473.5	2127.3	1907.1	1818.9
14066.9	75°	10240.2	6866.7	1705.7	1542.0	1359.5	1762.3	2291.0	1995.2	1800.1	1674.2
5217.7	77.5°	3807.8	2662.3	1472.8	1365.8	1177.0	1523.1	2083.3	1894.5	1636.4	1479.1
1737.1	80°	1460.2	1403.5	1202.1	1151.8	988.1	1334.3	1919.7	1699.4	1391.0	1233.6
950.4	82.5°	887.4	818.2	912.6	900.0	755.3	1214.7	1806.4	1592.4	1233.6	1000.7
509.8	85°	484.6	484.6	635.7	610.5	528.7	969.3	1365.8	1057.4	780.4	642.0
251.8	87.5°	214.0	251.8	339.9	321.0	289.5	547.6	667.2	560.2	390.2	264.3
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°
6010.7
5878.5
6086.2
6369.5
6520.5
6784.9
6854.1
6898.2
6828.9
6640.1
6558.3
6507.9
6231.0
6017.0
5645.7
4915.6
4103.6
3323.2
2731.6
2353.9
2177.7
2039.2
1988.9
1925.9
2026.6
2442.0
2353.9
2114.8
1919.7
1787.5
1749.7
1661.6
1447.6
1183.3
969.3
654.6
283.2
0.0

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