

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: P574784

Luminaire Tested: **EPH-VN-06-750-U-T4FT**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P574784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-750-U-T4FT
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

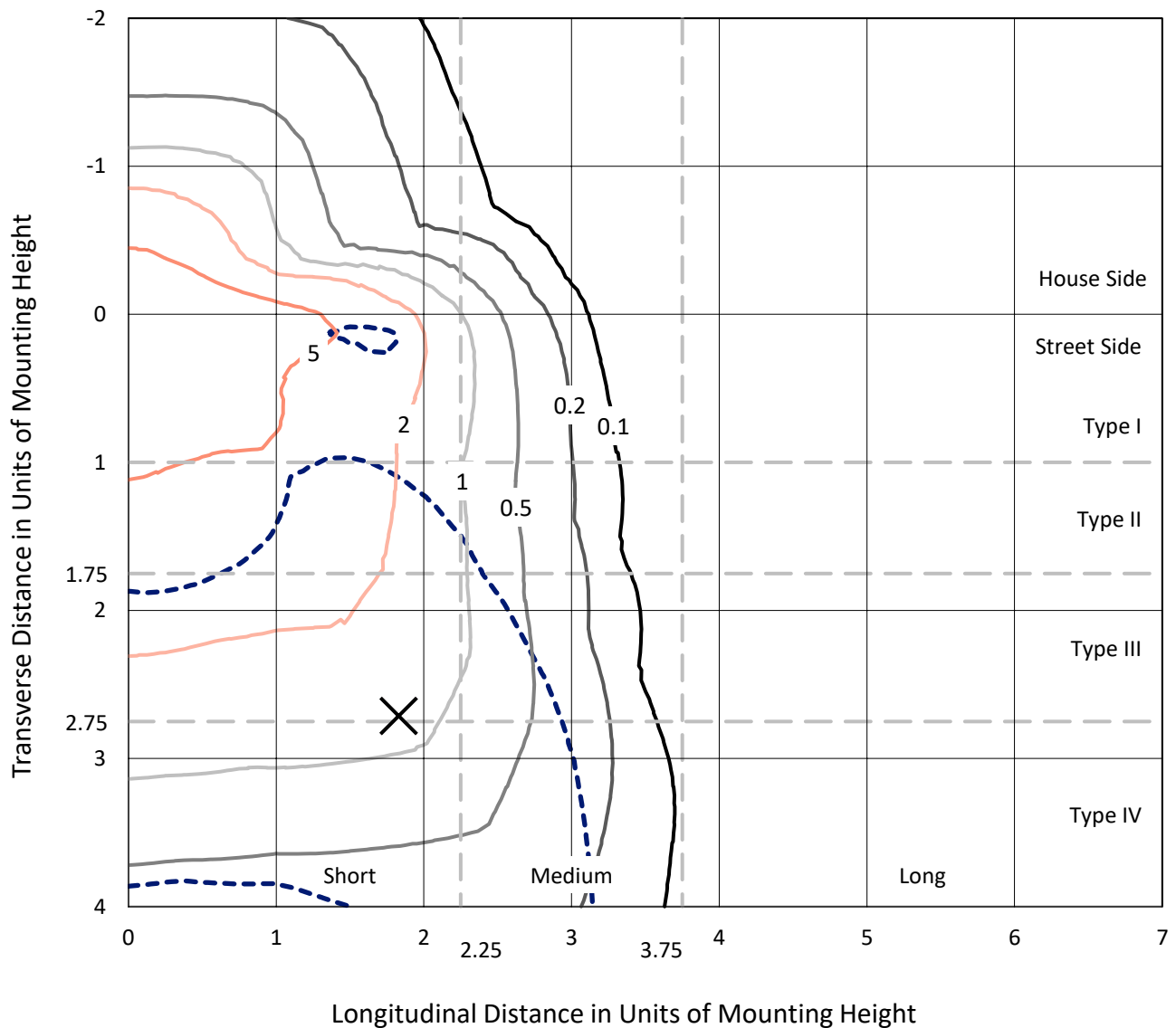
Lumens per Lamp: N/A
Luminaire Lumens: 55450.3 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

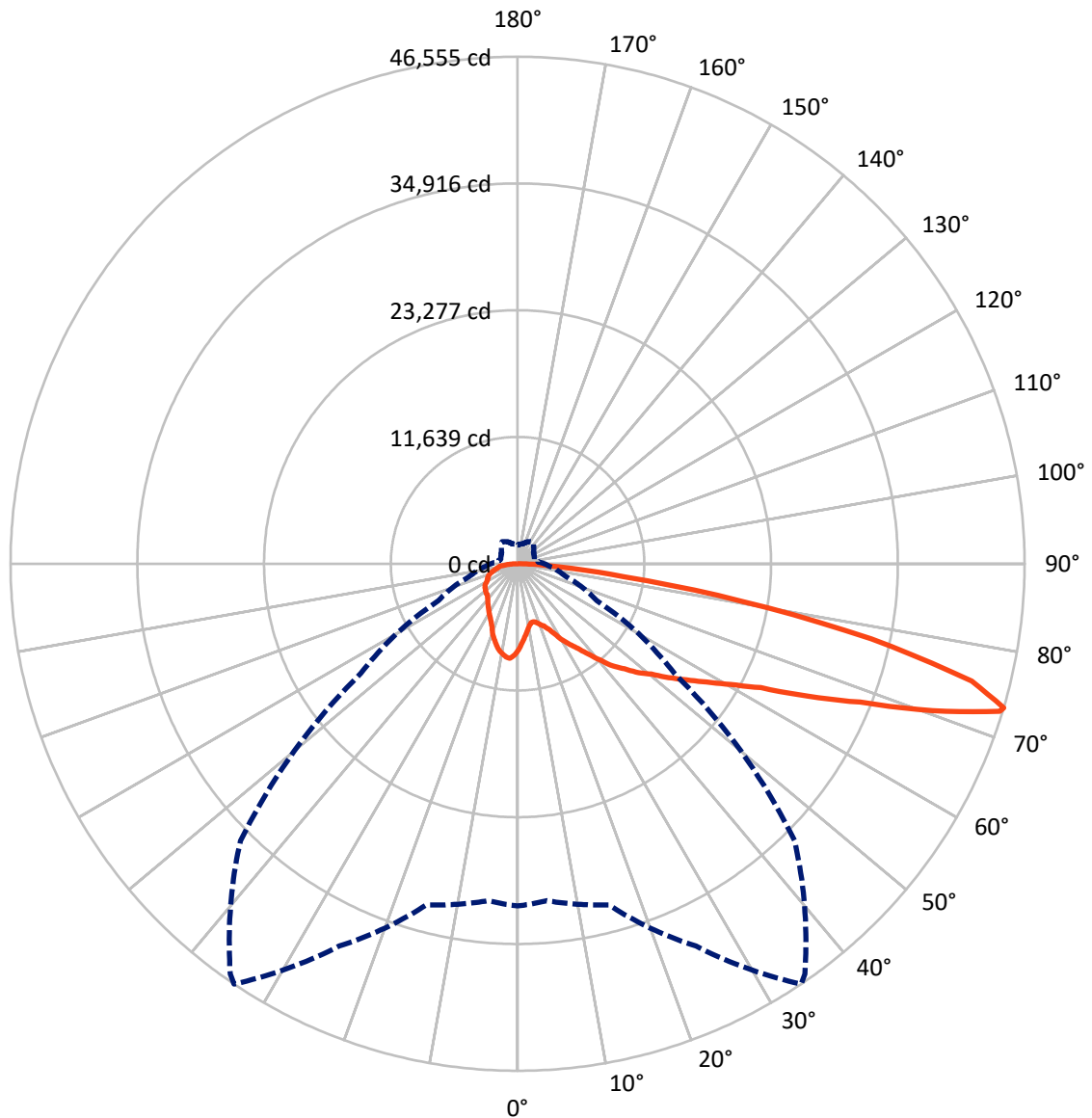
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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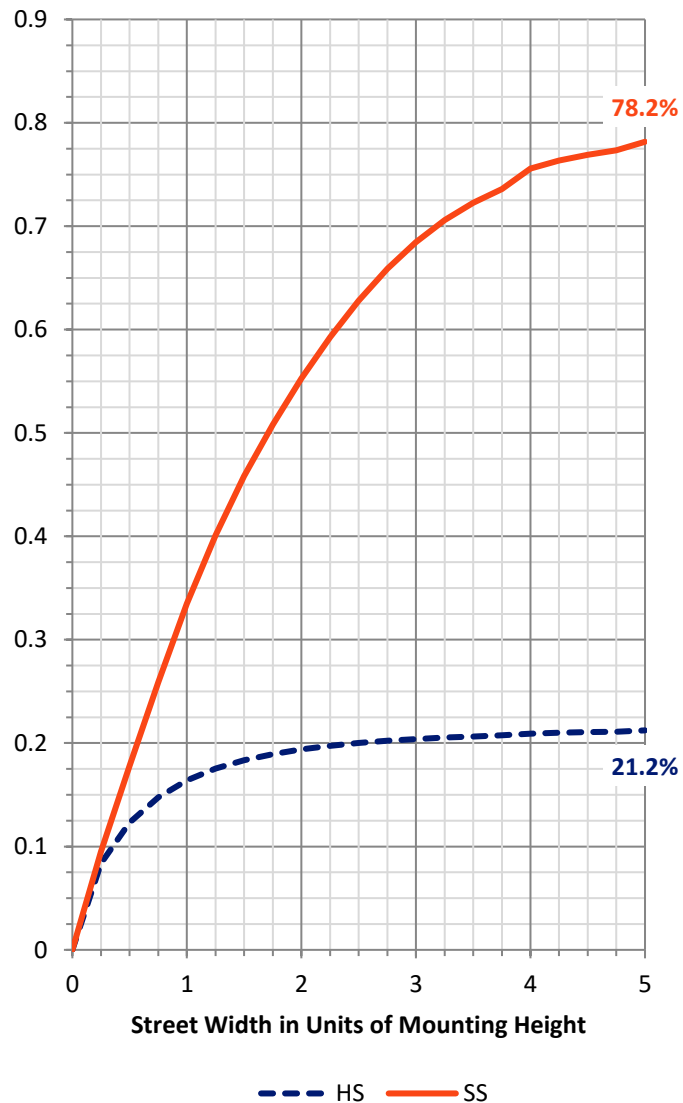
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11977.9	0.0	11977.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	43472.3	0.0	43472.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	55450.3	0.0	55450.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.7	1.3
10°-20°	2053.4	3.7
20°-30°	3379.5	6.1
30°-40°	5054.1	9.1
40°-50°	7492.5	13.5
50°-60°	10797.4	19.5
60°-70°	13778.9	24.8
70°-80°	10722.3	19.3
80°-90°	1438.5	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°	55450.3	100.0
0°-180°	55450.3	100.0

Coefficient of Utilization

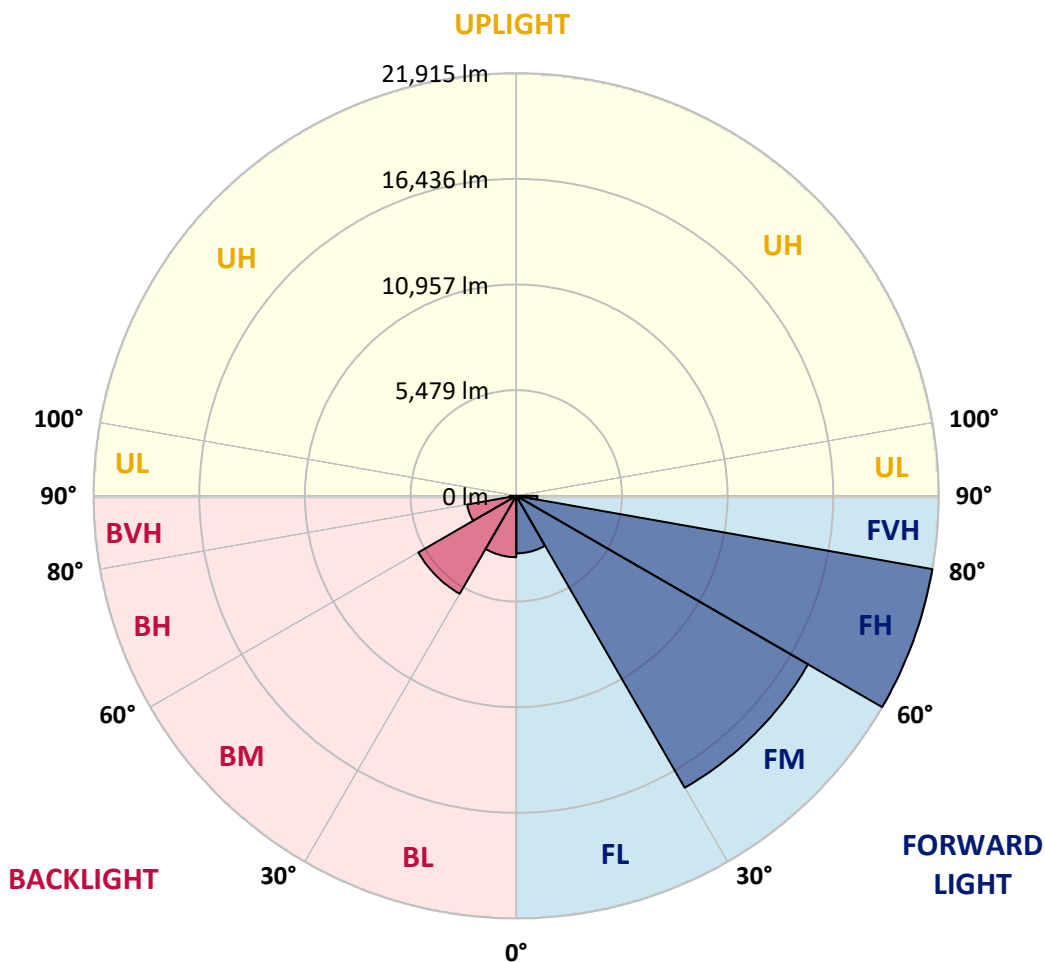


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2984.2	5.4			
FM (30°-60°)	17478.3	31.5			
FH (60°-80°)	21915.0	39.5			G5
FVH (80°-90°)	1094.9	2.0			G5
BL (0°-30°)	3182.5	5.7	B4/5000		
BM (30°-60°)	5865.6	10.6	B4/8500		
BH (60°-80°)	2586.3	4.7	B4/5000		G4/5000
BVH (80°-90°)	343.5	0.6			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°	34°	35°	45°	55°	65°	75°
0°	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7
2.5°	7123.0	7146.5	7222.7	7240.3	7322.4	7275.5	7375.1	7551.0	7650.7	7797.2
5°	6560.2	6460.6	6507.5	6689.2	6783.0	6806.5	6912.0	7211.0	7398.6	7615.5
7.5°	5897.8	5880.2	5974.0	6091.2	6278.8	6296.4	6530.9	6794.7	7181.7	7662.4
10°	5446.3	5522.6	5575.3	5698.4	5827.4	5827.4	6126.4	6583.7	7023.4	7486.5
12.5°	5422.9	5376.0	5387.7	5452.2	5546.0	5663.3	5944.7	6355.0	6912.0	7451.3
15°	5499.1	5516.7	5411.2	5493.2	5528.4	5569.5	5880.2	6343.3	6841.6	7574.5
17.5°	5903.6	5804.0	5639.8	5563.6	5686.7	5686.7	5897.8	6261.2	6853.4	7638.9
20°	6220.2	6220.2	5950.5	5868.4	5956.4	5938.8	6085.4	6355.0	6912.0	7767.9
22.5°	6753.7	6829.9	6384.4	6214.3	6208.5	6255.4	6384.4	6613.0	7076.1	7949.7
25°	7521.7	7539.3	7023.4	6847.5	6659.9	6736.1	6759.6	6988.2	7222.7	8160.7
27.5°	8377.6	8365.9	7891.0	7451.3	7328.2	7345.8	7216.8	7369.3	7439.6	8225.2
30°	9327.4	9221.8	8864.2	8242.8	8143.1	8031.7	7750.3	7744.5	7891.0	8588.7
32.5°	9948.8	9814.0	9567.7	9122.2	8846.6	8858.4	8412.8	8406.9	8278.0	8987.3
35°	10558.5	10353.3	10288.8	9831.6	9556.0	9585.3	9227.7	9180.8	8946.3	9591.2
37.5°	11291.3	11109.6	11209.3	10863.4	10523.3	10382.6	10218.5	10159.9	9855.0	10441.3
40°	12100.4	12041.8	11977.3	11807.2	11602.1	11613.8	11437.9	11379.3	10927.9	11467.2
42.5°	13190.8	12968.0	12633.9	12745.3	12850.8	12962.2	12903.6	12751.1	12282.1	12510.8
45°	14205.0	13911.9	13296.3	13331.5	13765.4	13853.3	14562.7	14545.1	13601.2	13835.7
47.5°	14891.0	14756.1	14386.8	14345.7	14967.2	14961.3	16239.4	16239.4	14990.6	15154.8
50°	15911.1	15559.3	15401.0	15606.2	15922.8	16139.7	17951.2	18062.6	16356.6	16532.5
52.5°	17107.0	16667.3	16268.7	16796.3	17359.1	17499.8	19645.5	19598.6	17406.0	18133.0
55°	18097.8	17875.0	17599.5	17904.3	18824.8	19000.6	21345.7	20911.8	18455.4	19457.9
57.5°	19252.7	19387.6	19446.2	19370.0	20466.3	20741.8	23286.2	22043.3	19358.3	20349.0
60°	20993.9	21076.0	21152.2	21334.0	22494.7	22881.7	24822.2	23462.1	19926.9	20864.9
62.5°	23643.8	23327.2	23497.2	24124.5	25056.7	25496.4	27085.1	24458.7	20360.8	21175.7
65°	26674.8	26246.8	26070.9	26880.0	29295.3	28943.6	29910.9	25203.3	19733.5	20014.9
67.5°	29746.8	29793.7	29342.2	30966.2	33926.8	33926.8	32537.4	25560.9	18033.3	16221.8
70°	32185.6	32332.2	32578.4	35726.6	40416.7	41126.0	35791.1	24095.2	14568.5	10798.9
72.5°	32150.4	31710.7	32971.2	38769.3	46314.4	45722.3	36471.1	19053.4	9092.9	5288.1
73°	31429.3	31060.0	32437.7	38740.0	46554.8	45997.9	35972.8	17564.3	8020.0	4584.5
75°	25666.4	24998.1	27343.1	35087.6	43072.4	43500.4	30561.7	11455.5	4396.9	2825.8
77.5°	11701.7	11994.9	15049.3	23538.3	33194.0	33698.1	20091.1	4953.9	2409.5	1981.6
80°	3757.9	3945.5	5856.7	11701.7	20806.3	21715.0	9286.3	2251.2	1717.7	1518.4
82.5°	1436.3	1430.5	2456.4	4865.9	9860.9	10441.3	3394.4	1371.8	1278.0	1119.8
85°	504.2	527.6	926.3	1922.9	3881.0	4062.8	1178.4	762.1	885.3	750.4
87.5°	175.9	181.7	328.3	697.6	1336.7	1412.9	328.3	304.9	439.7	433.8
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°
7949.7	0°	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7	7949.7
7973.1	2.5°	8031.7	8084.5	8102.1	8313.1	8313.1	8313.1	8395.2	8395.2	8371.8	8313.1
7943.8	5°	8066.9	8160.7	8342.5	8524.2	8571.1	8612.1	8723.5	8629.7	8664.9	8606.3
8049.3	7.5°	8166.6	8295.6	8635.6	8747.0	8670.8	8758.7	8641.5	8577.0	8512.5	8535.9
8072.8	10°	8336.6	8500.7	8659.0	8864.2	8717.7	8629.7	8389.4	8330.7	8125.5	8055.2
8172.4	12.5°	8547.7	8747.0	9016.7	8940.4	8659.0	8406.9	8149.0	7902.8	7779.7	7603.8
8342.5	15°	8758.7	8987.3	9028.4	8899.4	8547.7	8231.1	7762.1	7416.2	7293.1	7134.8
8588.7	17.5°	8987.3	9204.3	9133.9	8799.7	8324.9	7844.1	7310.6	6970.6	6712.7	6613.0
8864.2	20°	9327.4	9432.9	9321.5	8635.6	8055.2	7422.0	6906.1	6519.2	6261.2	6220.2
9128.0	22.5°	9591.2	9761.2	9262.9	8395.2	7662.4	6871.0	6278.8	6132.3	6056.1	5991.6
9427.0	25°	9931.2	9925.4	9157.4	8172.4	6988.2	6214.3	5856.7	5845.0	5809.8	5786.4
9855.0	27.5°	10253.7	10118.8	9034.2	7621.4	6290.6	5716.0	5522.6	5651.5	5704.3	5669.1
10447.1	30°	10763.7	10540.9	8858.4	7035.1	5675.0	5211.8	5247.0	5422.9	5510.8	5563.6
10963.0	32.5°	11303.1	10963.0	8494.9	6425.4	5129.8	4895.3	4977.3	5159.1	5264.6	5323.2
11813.1	35°	12082.8	11291.3	8125.5	5628.1	4737.0	4701.8	4748.7	4848.4	5000.8	5041.8
12973.9	37.5°	13044.3	11789.7	7627.2	4989.1	4432.1	4473.2	4520.1	4555.2	4561.1	4637.3
14087.8	40°	14005.7	12211.8	6900.3	4379.4	4115.5	4338.3	4314.9	4250.4	4197.6	4127.3
15330.7	42.5°	14849.9	12581.1	6091.2	3863.4	3834.1	4197.6	4121.4	3957.2	3834.1	3781.4
16743.5	45°	15799.7	13102.9	5276.3	3541.0	3617.2	4027.6	4004.1	3752.1	3593.8	3406.2
18262.0	47.5°	17030.8	13648.1	4496.6	3206.8	3412.0	3963.1	3974.8	3652.4	3423.8	3171.7
20249.4	50°	18607.8	14433.7	3904.5	3066.1	3288.9	3869.3	3886.9	3517.6	3218.6	2960.6
22576.8	52.5°	20120.4	15236.9	3412.0	2849.2	3206.8	3757.9	3799.0	3394.4	3048.5	2726.1
23696.6	55°	20882.5	14943.7	2989.9	2690.9	3019.2	3576.2	3728.6	3306.5	2790.6	2567.8
24353.2	57.5°	21052.5	14222.6	2655.8	2526.8	2860.9	3382.7	3611.4	3042.7	2673.3	2485.7
24405.9	60°	20495.6	12962.2	2391.9	2350.9	2661.6	3183.4	3341.7	2902.0	2556.1	2403.7
22682.3	62.5°	19123.8	11654.8	2210.2	2268.8	2491.6	2966.5	3171.7	2802.3	2444.7	2339.2
19235.1	65°	15682.4	9585.3	2063.6	2110.5	2315.7	2755.4	3066.1	2690.9	2345.0	2245.4
13489.8	67.5°	10863.4	6607.1	1946.4	2034.3	2175.0	2603.0	2960.6	2567.8	2216.1	2180.9
7375.1	70°	5563.6	3523.4	1794.0	1864.3	2022.6	2409.5	2773.0	2438.8	2081.2	2075.4
3382.7	72.5°	2819.9	2063.6	1618.1	1723.6	1835.0	2157.4	2538.5	2268.8	1911.2	1846.7
3007.5	73°	2438.8	1911.2	1588.8	1682.6	1788.1	2087.1	2468.1	2227.8	1887.8	1794.0
2116.4	75°	1776.4	1506.7	1424.6	1518.4	1600.5	1881.9	2233.6	2040.2	1735.3	1635.7
1559.4	77.5°	1330.8	1160.8	1184.2	1289.8	1360.1	1623.9	1987.4	1846.7	1571.2	1436.3
1166.7	80°	979.1	885.3	979.1	1078.7	1131.5	1430.5	1811.5	1600.5	1324.9	1172.5
826.6	82.5°	697.6	644.9	756.3	820.8	844.2	1184.2	1629.8	1278.0	1002.5	803.2
474.9	85°	398.7	392.8	510.0	504.2	521.8	691.8	1072.9	850.1	644.9	492.5
240.4	87.5°	175.9	193.5	258.0	205.2	216.9	328.3	457.3	316.6	263.8	146.6
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



<u>180°</u>
7949.7
8453.8
8659.0
8453.8
8119.7
7650.7
7216.8
6613.0
6155.7
5909.5
5897.8
5716.0
5493.2
5387.7
5059.4
4608.0
4109.7
3693.4
3382.7
3136.5
2937.2
2743.7
2562.0
2462.3
2368.5
2263.0
2239.5
2134.0
2016.7
1752.9
<i>1706.0</i>
1553.6
1401.2
1143.2
738.7
480.7
111.4
0.0

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