

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: P574782

Luminaire Tested: **EPH-VN-04-750-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574782
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36651.8 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

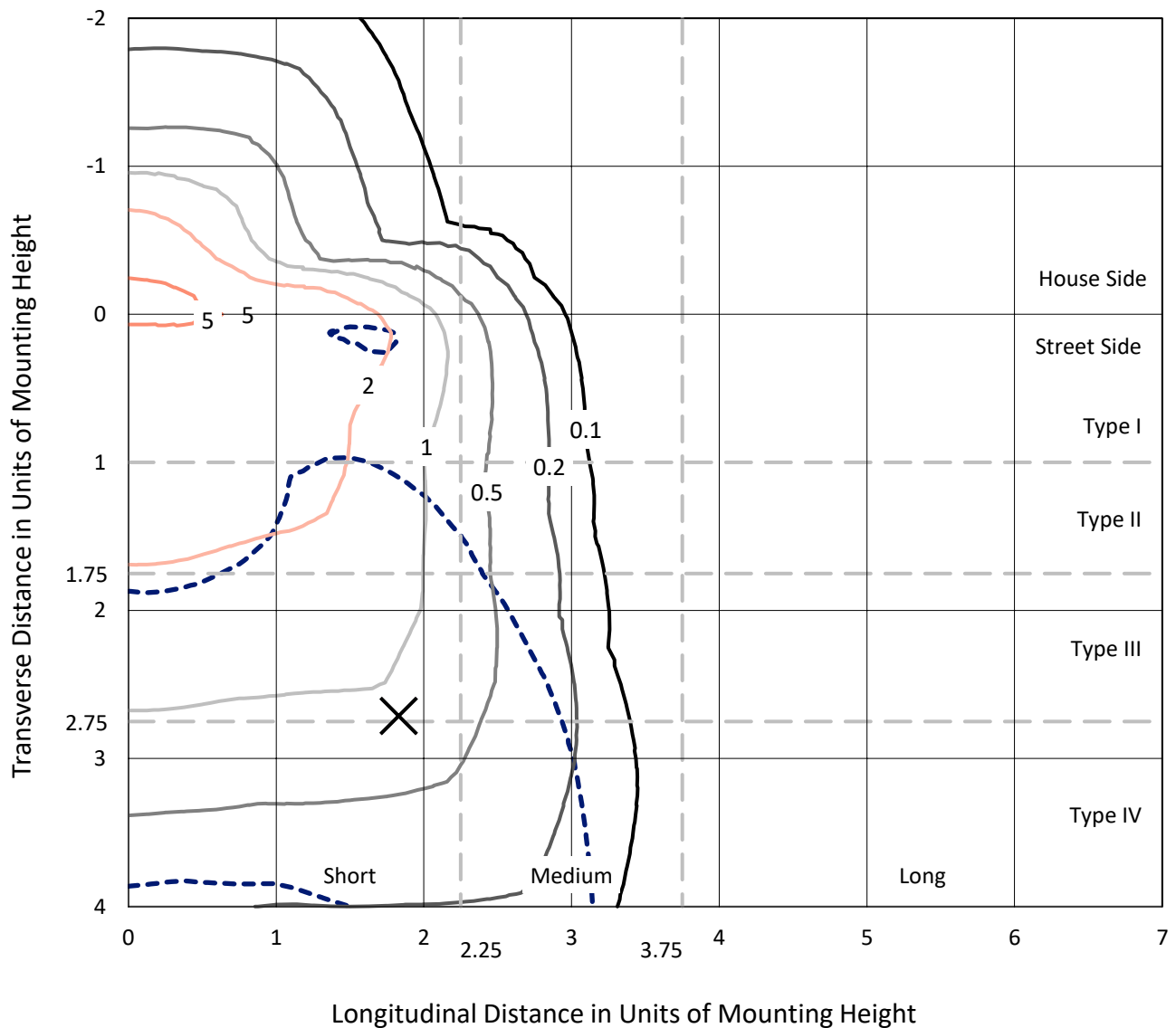
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

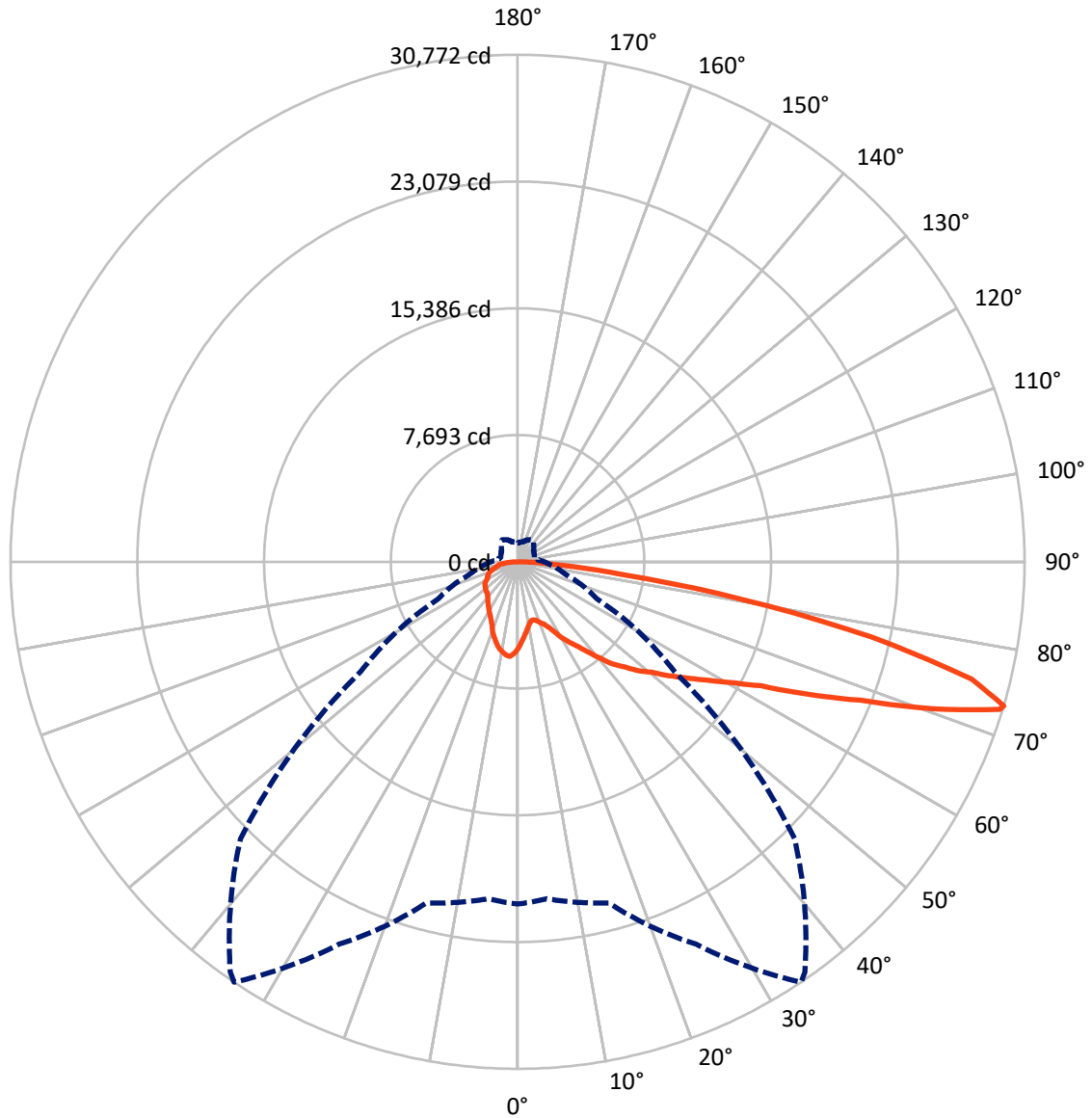
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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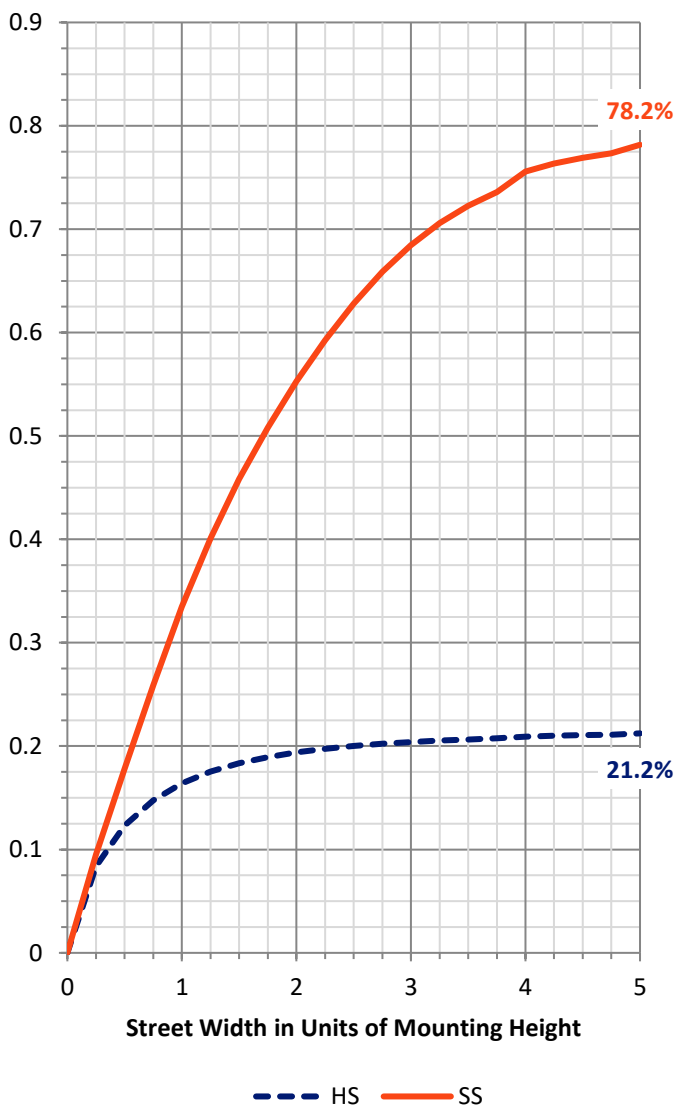
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7917.3	0.0	7917.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28734.5	0.0	28734.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	36651.8	0.0	36651.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.0	1.3
10°-20°	1357.2	3.7
20°-30°	2233.8	6.1
30°-40°	3340.7	9.1
40°-50°	4952.4	13.5
50°-60°	7136.9	19.5
60°-70°	9107.7	24.8
70°-80°	7087.3	19.3
80°-90°	950.8	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°	36651.8	100.0
0°-180°	36651.8	100.0

Coefficient of Utilization

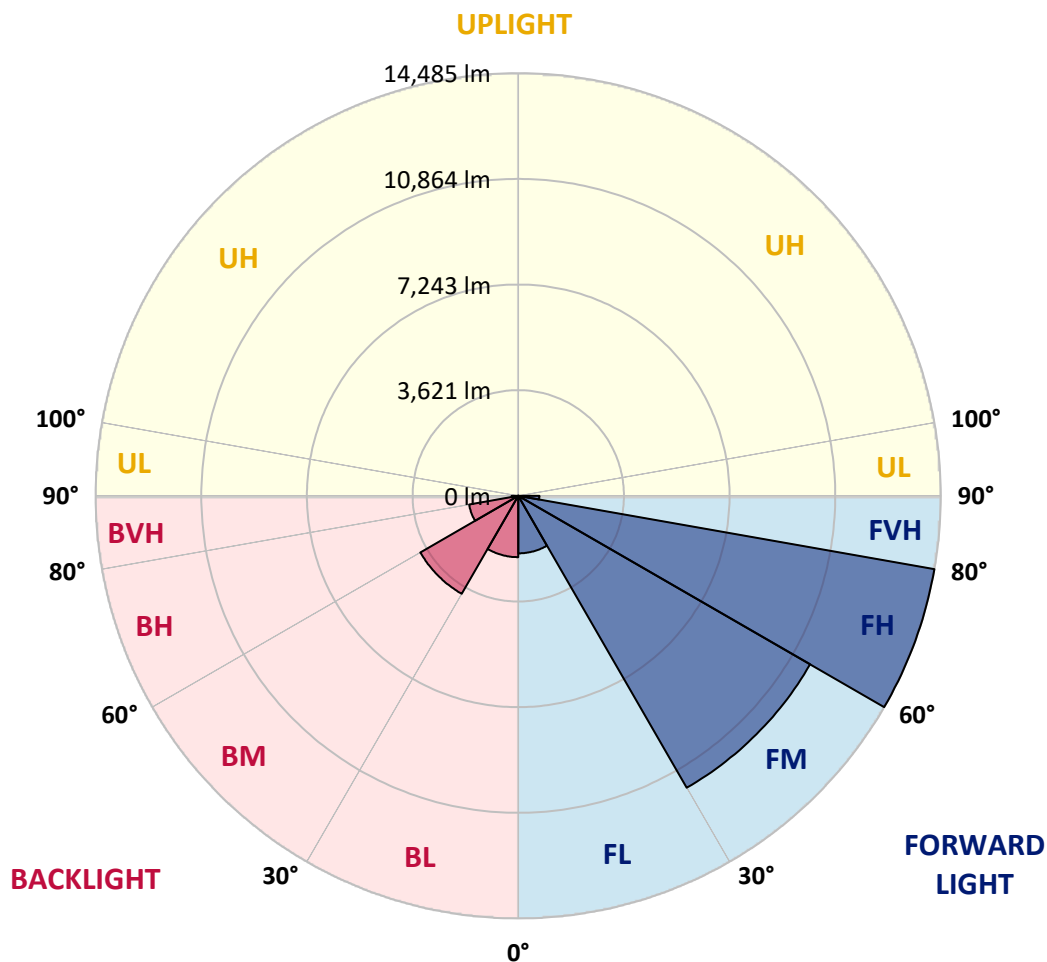


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1972.5	5.4			
FM (30°-60°)	11552.9	31.5			
FH (60°-80°)	14485.4	39.5			G5
FVH (80°-90°)	723.7	2.0			G4/750
BL (0°-30°)	2103.6	5.7	B3/2500		
BM (30°-60°)	3877.1	10.6	B3/5000		
BH (60°-80°)	1709.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	227.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6
2.5°	4708.2	4723.7	4774.1	4785.7	4840.0	4809.0	4874.9	4991.1	5057.0	5153.9
5°	4336.2	4270.3	4301.3	4421.5	4483.5	4499.0	4568.7	4766.3	4890.4	5033.7
7.5°	3898.3	3886.7	3948.7	4026.2	4150.2	4161.8	4316.8	4491.2	4747.0	5064.7
10°	3599.9	3650.3	3685.2	3766.6	3851.8	3851.8	4049.5	4351.7	4642.3	4948.5
12.5°	3584.4	3553.4	3561.2	3603.8	3665.8	3743.3	3929.3	4200.6	4568.7	4925.2
15°	3634.8	3646.5	3576.7	3630.9	3654.2	3681.3	3886.7	4192.8	4522.2	5006.6
17.5°	3902.2	3836.3	3727.8	3677.5	3758.8	3758.8	3898.3	4138.6	4530.0	5049.2
20°	4111.5	4111.5	3933.2	3879.0	3937.1	3925.5	4022.3	4200.6	4568.7	5134.5
22.5°	4464.1	4514.5	4220.0	4107.6	4103.7	4134.7	4220.0	4371.1	4677.2	5254.6
25°	4971.7	4983.4	4642.3	4526.1	4402.1	4452.5	4468.0	4619.1	4774.1	5394.1
27.5°	5537.5	5529.7	5215.9	4925.2	4843.9	4855.5	4770.2	4871.0	4917.5	5436.7
30°	6165.3	6095.5	5859.1	5448.4	5382.5	5308.9	5122.9	5119.0	5215.9	5677.0
32.5°	6576.0	6486.9	6324.1	6029.6	5847.5	5855.2	5560.7	5556.9	5471.6	5940.5
35°	6979.0	6843.4	6800.8	6498.5	6316.4	6335.8	6099.4	6068.4	5913.4	6339.6
37.5°	7463.4	7343.3	7409.2	7180.5	6955.8	6862.8	6754.3	6715.5	6514.0	6901.5
40°	7998.2	7959.4	7916.8	7804.4	7668.8	7676.5	7560.3	7521.5	7223.1	7579.7
42.5°	8718.9	8571.7	8350.8	8424.4	8494.2	8567.8	8529.1	8428.3	8118.3	8269.4
45°	9389.3	9195.6	8788.7	8811.9	9098.7	9156.8	9625.7	9614.1	8990.2	9145.2
47.5°	9842.7	9753.6	9509.4	9482.3	9893.1	9889.2	10734.0	10734.0	9908.6	10017.1
50°	10517.0	10284.5	10179.8	10315.5	10524.7	10668.1	11865.5	11939.1	10811.5	10927.7
52.5°	11307.5	11016.9	10753.3	11102.1	11474.1	11567.1	12985.4	12954.4	11505.1	11985.6
55°	11962.4	11815.1	11633.0	11834.5	12442.9	12559.1	14109.2	13822.4	12198.8	12861.4
57.5°	12725.8	12814.9	12853.6	12803.3	13527.9	13710.0	15391.8	14570.3	12795.5	13450.4
60°	13876.7	13930.9	13981.3	14101.4	14868.7	15124.4	16407.1	15508.1	13171.4	13791.4
62.5°	15628.2	15418.9	15531.3	15946.0	16562.1	16852.7	17902.9	16166.8	13458.2	13996.8
65°	17631.6	17348.7	17232.5	17767.2	19363.8	19131.3	19770.7	16659.0	13043.5	13229.5
67.5°	19662.2	19693.2	19394.8	20468.2	22425.1	22425.1	21506.7	16895.3	11919.7	10722.3
70°	21274.2	21371.1	21533.8	23614.7	26714.8	27183.7	23657.4	15926.6	9629.6	7137.9
72.5°	21250.9	20960.3	21793.5	25625.9	30613.1	30221.7	24106.9	12594.0	6010.2	3495.3
73°	20774.3	20530.2	21440.8	25606.5	30772.0	30403.9	23777.5	11609.7	5301.1	3030.3
75°	16965.1	16523.3	18073.4	23192.4	28470.2	28753.1	20200.8	7571.9	2906.3	1867.8
77.5°	7734.7	7928.4	9947.3	15558.4	21940.7	22274.0	13279.9	3274.4	1592.7	1309.8
80°	2483.9	2607.9	3871.2	7734.7	13752.7	14353.3	6138.1	1488.0	1135.4	1003.6
82.5°	949.4	945.5	1623.7	3216.3	6517.9	6901.5	2243.7	906.8	844.8	740.1
85°	333.3	348.8	612.3	1271.0	2565.3	2685.4	778.9	503.8	585.1	496.0
87.5°	116.3	120.1	217.0	461.1	883.5	933.9	217.0	201.5	290.6	286.8
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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CATALOG NUMBER: EPH-VN-04-750-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5254.6	0°	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6	5254.6
5270.1	2.5°	5308.9	5343.7	5355.4	5494.9	5494.9	5494.9	5549.1	5549.1	5533.6	5494.9
5250.7	5°	5332.1	5394.1	5514.2	5634.4	5665.4	5692.5	5766.1	5704.1	5727.4	5688.6
5320.5	7.5°	5398.0	5483.2	5708.0	5781.6	5731.2	5789.4	5711.9	5669.2	5626.6	5642.1
5336.0	10°	5510.4	5618.9	5723.5	5859.1	5762.2	5704.1	5545.2	5506.5	5370.9	5324.4
5401.9	12.5°	5649.9	5781.6	5959.9	5909.5	5723.5	5556.9	5386.4	5223.6	5142.2	5026.0
5514.2	15°	5789.4	5940.5	5967.6	5882.4	5649.9	5440.6	5130.6	4902.0	4820.6	4716.0
5677.0	17.5°	5940.5	6083.9	6037.4	5816.5	5502.6	5184.9	4832.2	4607.5	4437.0	4371.1
5859.1	20°	6165.3	6235.0	6161.4	5708.0	5324.4	4905.9	4564.8	4309.1	4138.6	4111.5
6033.5	22.5°	6339.6	6452.0	6122.6	5549.1	5064.7	4541.6	4150.2	4053.3	4003.0	3960.3
6231.1	25°	6564.4	6560.5	6052.9	5401.9	4619.1	4107.6	3871.2	3863.5	3840.2	3824.7
6514.0	27.5°	6777.5	6688.4	5971.5	5037.6	4158.0	3778.2	3650.3	3735.6	3770.5	3747.2
6905.4	30°	7114.6	6967.4	5855.2	4650.1	3751.1	3444.9	3468.2	3584.4	3642.6	3677.5
7246.4	32.5°	7471.2	7246.4	5615.0	4247.1	3390.7	3235.7	3289.9	3410.1	3479.8	3518.6
7808.3	35°	7986.5	7463.4	5370.9	3720.1	3131.1	3107.8	3138.8	3204.7	3305.4	3332.6
8575.6	37.5°	8622.1	7792.8	5041.5	3297.7	2929.6	2956.7	2987.7	3010.9	3014.8	3065.2
9311.8	40°	9257.6	8071.8	4561.0	2894.7	2720.3	2867.6	2852.1	2809.4	2774.6	2728.1
10133.3	42.5°	9815.6	8315.9	4026.2	2553.7	2534.3	2774.6	2724.2	2615.7	2534.3	2499.4
11067.2	45°	10443.3	8660.8	3487.6	2340.5	2390.9	2662.2	2646.7	2480.1	2375.4	2251.4
12070.9	47.5°	11257.1	9021.2	2972.2	2119.7	2255.3	2619.6	2627.3	2414.2	2263.0	2096.4
13384.5	50°	12299.5	9540.4	2580.8	2026.7	2173.9	2557.6	2569.2	2325.0	2127.4	1956.9
14922.9	52.5°	13299.3	10071.3	2255.3	1883.3	2119.7	2483.9	2511.1	2243.7	2015.0	1801.9
15663.1	55°	13803.0	9877.6	1976.3	1778.7	1995.7	2363.8	2464.6	2185.5	1844.5	1697.3
16097.1	57.5°	13915.4	9400.9	1755.4	1670.2	1891.0	2235.9	2387.0	2011.2	1767.0	1643.0
16132.0	60°	13547.3	8567.8	1581.0	1553.9	1759.3	2104.2	2208.8	1918.2	1689.5	1588.8
14992.7	62.5°	12640.5	7703.7	1460.9	1499.7	1646.9	1960.8	2096.4	1852.3	1615.9	1546.2
12714.1	65°	10365.8	6335.8	1364.0	1395.0	1530.7	1821.3	2026.7	1778.7	1550.0	1484.2
8916.6	67.5°	7180.5	4367.2	1286.5	1344.7	1437.7	1720.5	1956.9	1697.3	1464.8	1441.5
4874.9	70°	3677.5	2328.9	1185.8	1232.3	1336.9	1592.7	1832.9	1612.0	1375.7	1371.8
2235.9	72.5°	1863.9	1364.0	1069.5	1139.3	1212.9	1426.0	1677.9	1499.7	1263.3	1220.7
1987.9	73°	1612.0	1263.3	1050.1	1112.1	1181.9	1379.5	1631.4	1472.5	1247.8	1185.8
1398.9	75°	1174.1	995.9	941.6	1003.6	1057.9	1243.9	1476.4	1348.5	1147.0	1081.1
1030.8	77.5°	879.6	767.3	782.8	852.5	899.0	1073.4	1313.7	1220.7	1038.5	949.4
771.1	80°	647.1	585.1	647.1	713.0	747.9	945.5	1197.4	1057.9	875.8	775.0
546.4	82.5°	461.1	426.3	499.9	542.5	558.0	782.8	1077.3	844.8	662.6	530.9
313.9	85°	263.5	259.6	337.1	333.3	344.9	457.3	709.1	561.9	426.3	325.5
158.9	87.5°	116.3	127.9	170.5	135.6	143.4	217.0	302.3	209.3	174.4	96.9
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>
5254.6
5587.9
5723.5
5587.9
5367.0
5057.0
4770.2
4371.1
4068.8
3906.1
3898.3
3778.2
3630.9
3561.2
3344.2
3045.8
2716.4
2441.3
2235.9
2073.2
1941.4
1813.5
1693.4
1627.5
1565.5
1495.8
1480.3
1410.5
1333.0
1158.6
1127.6
1026.9
926.1
755.6
488.3
317.8
73.6
0.0

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