

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: P574770

Luminaire Tested: **EPH-VN-04-735-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574770
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

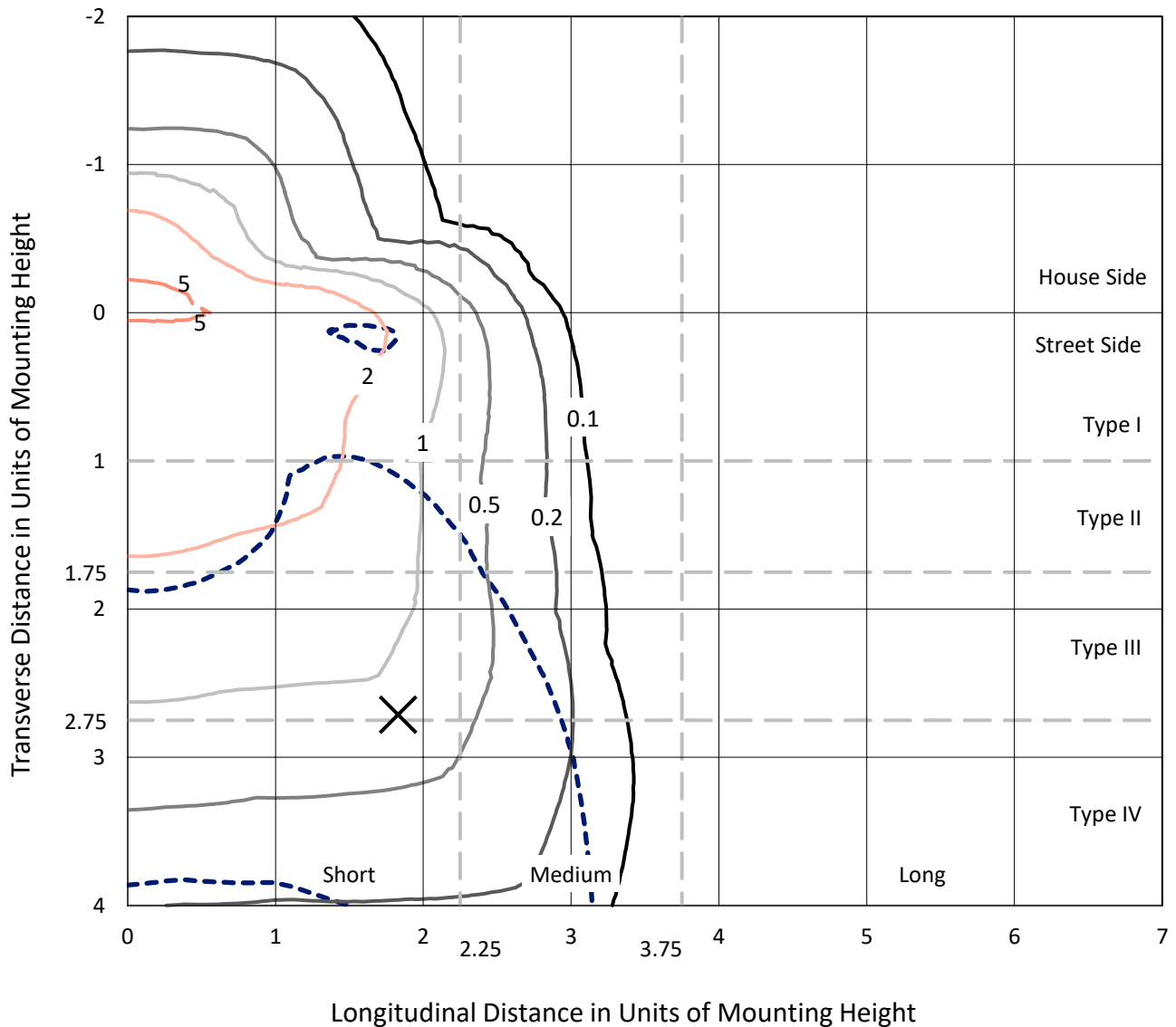
Lumens per Lamp: N/A
Luminaire Lumens: 35340.3 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

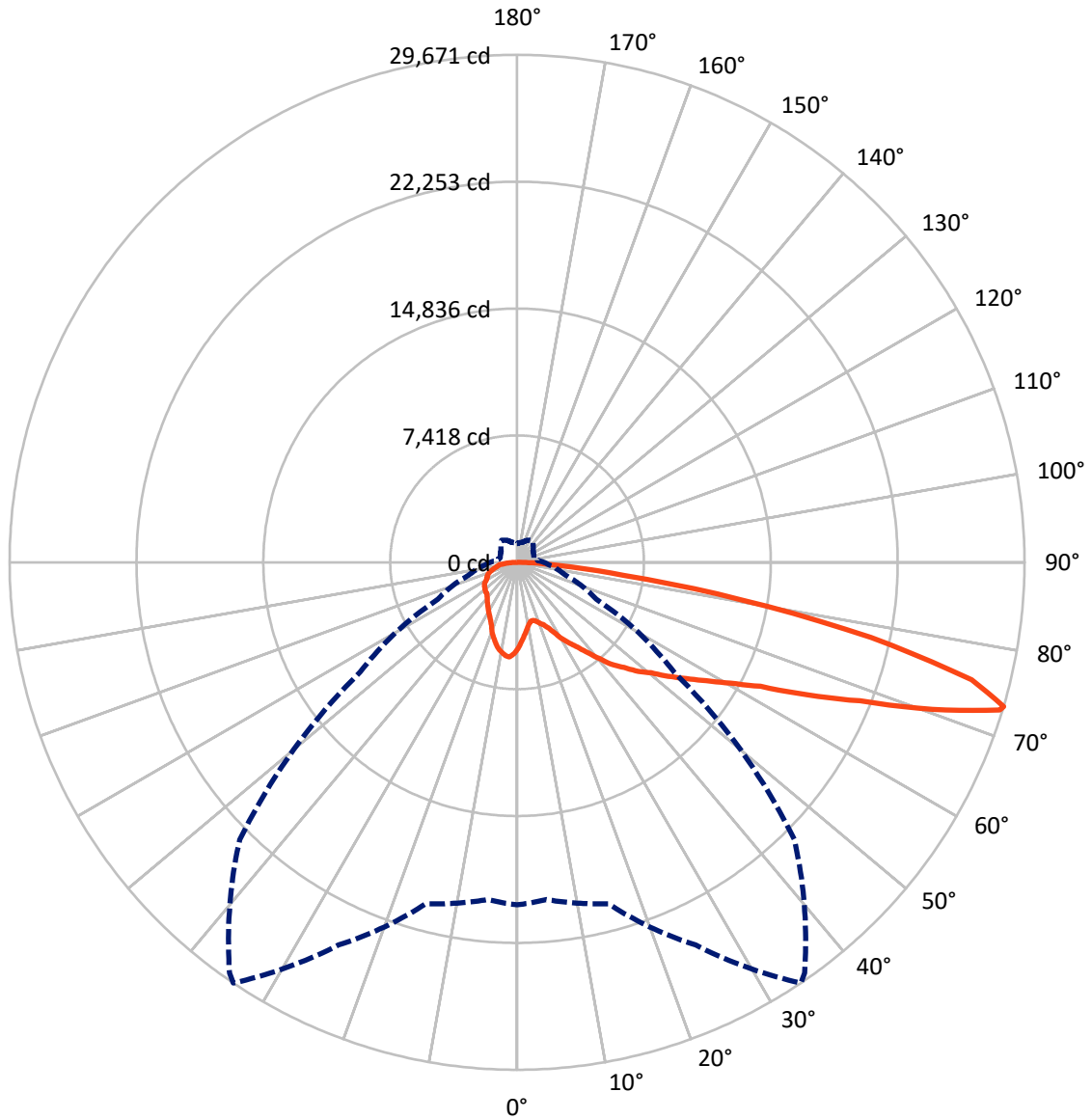
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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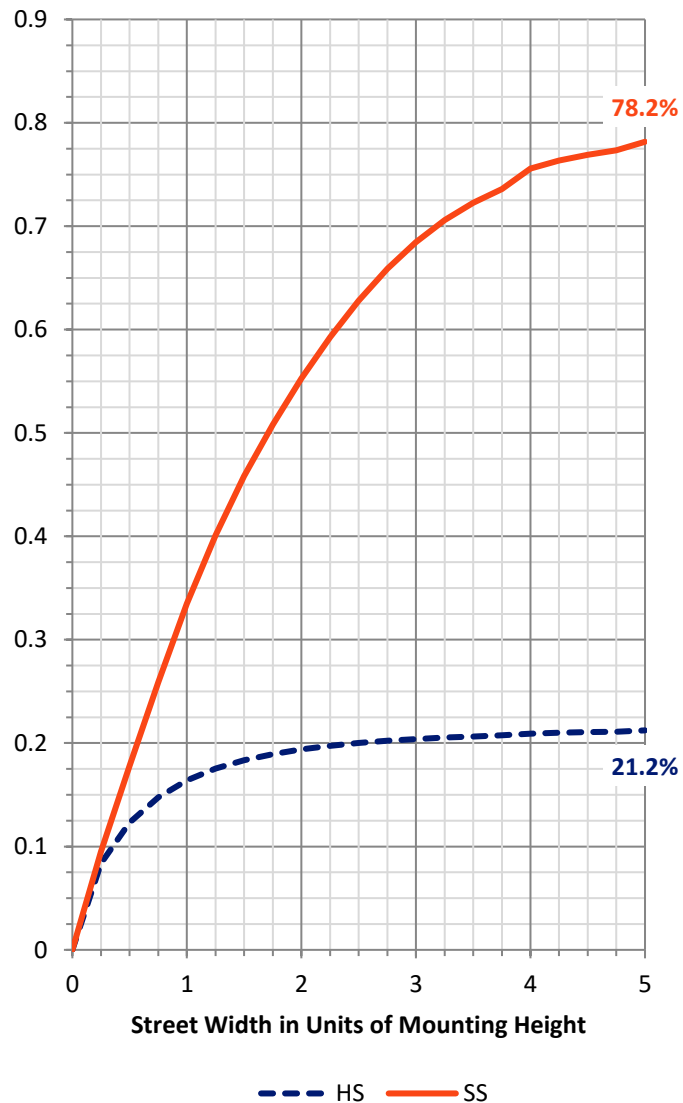
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7634.0	0.0	7634.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27706.4	0.0	27706.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	35340.3	0.0	35340.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	1.3
10°-20°	1308.7	3.7
20°-30°	2153.9	6.1
30°-40°	3221.1	9.1
40°-50°	4775.2	13.5
50°-60°	6881.6	19.5
60°-70°	8781.8	24.8
70°-80°	6833.7	19.3
80°-90°	916.8	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°	35340.3	100.0
0°-180°	35340.3	100.0

Coefficient of Utilization

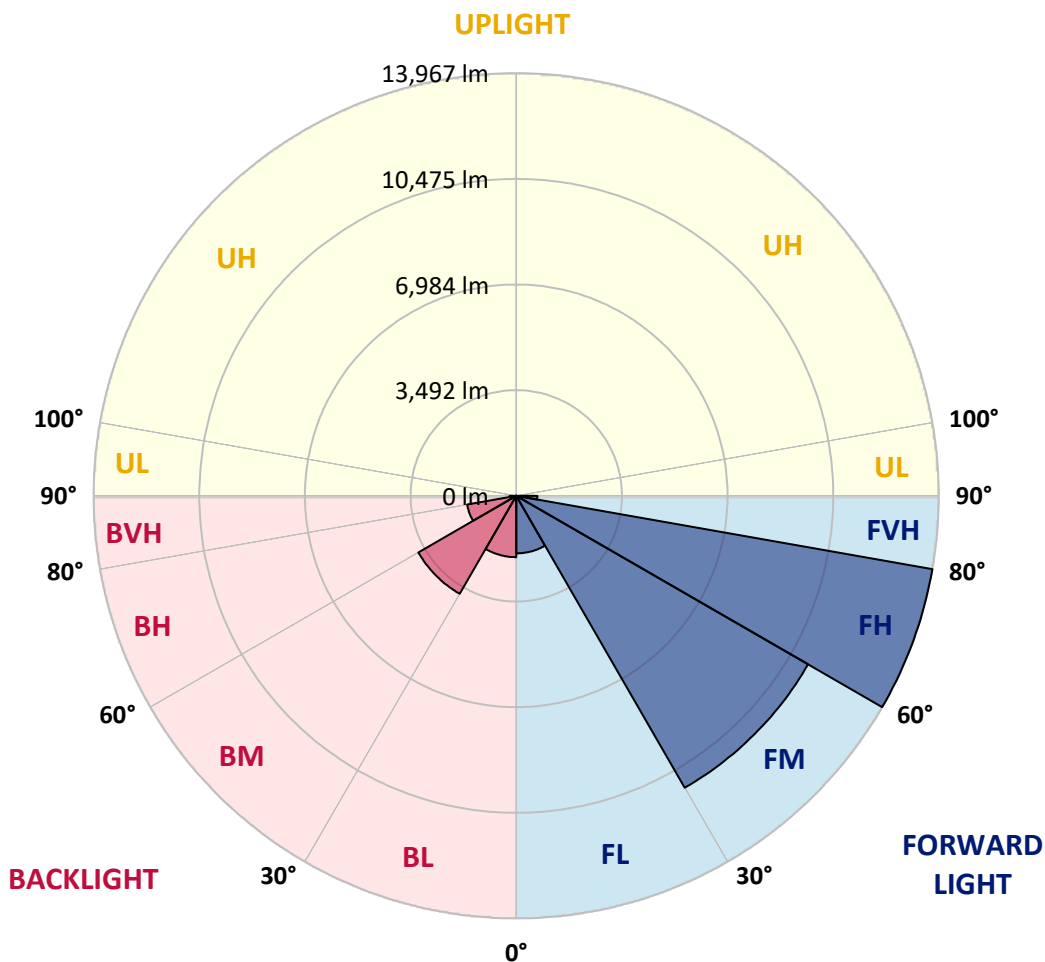


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.9	5.4			
FM (30°-60°)	11139.5	31.5			
FH (60°-80°)	13967.1	39.5			G5
FVH (80°-90°)	697.8	2.0			G4/750
BL (0°-30°)	2028.3	5.7	B3/2500		
BM (30°-60°)	3738.4	10.6	B3/5000		
BH (60°-80°)	1648.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	218.9	0.6			G2/225
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°	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6
2.5°	4539.8	4554.7	4603.3	4614.5	4666.8	4636.9	4700.4	4812.5	4876.0	4969.4
5°	4181.1	4117.5	4147.4	4263.3	4323.0	4338.0	4405.2	4595.8	4715.4	4853.6
7.5°	3758.8	3747.6	3807.4	3882.1	4001.7	4012.9	4162.4	4330.5	4577.1	4883.5
10°	3471.1	3519.7	3553.3	3631.8	3714.0	3714.0	3904.6	4196.0	4476.2	4771.4
12.5°	3456.2	3426.3	3433.8	3474.9	3534.7	3609.4	3788.7	4050.3	4405.2	4749.0
15°	3504.8	3516.0	3448.7	3501.0	3523.5	3549.6	3747.6	4042.8	4360.4	4827.5
17.5°	3762.6	3699.1	3594.4	3545.9	3624.3	3624.3	3758.8	3990.5	4367.9	4868.6
20°	3964.3	3964.3	3792.5	3740.2	3796.2	3785.0	3878.4	4050.3	4405.2	4950.8
22.5°	4304.4	4352.9	4069.0	3960.6	3956.9	3986.8	4069.0	4214.7	4509.9	5066.6
25°	4793.8	4805.0	4476.2	4364.1	4244.6	4293.2	4308.1	4453.8	4603.3	5201.1
27.5°	5339.4	5331.9	5029.2	4749.0	4670.5	4681.7	4599.5	4696.7	4741.5	5242.2
30°	5944.7	5877.4	5649.5	5253.4	5189.9	5118.9	4939.6	4935.8	5029.2	5473.9
32.5°	6340.7	6254.8	6097.8	5813.9	5638.3	5645.7	5361.8	5358.0	5275.8	5727.9
35°	6729.3	6598.5	6557.4	6266.0	6090.4	6109.1	5881.1	5851.2	5701.8	6112.8
37.5°	7196.4	7080.5	7144.0	6923.6	6706.9	6617.2	6512.6	6475.2	6280.9	6654.6
40°	7712.0	7674.6	7633.5	7525.2	7394.4	7401.9	7289.8	7252.4	6964.7	7308.5
42.5°	8407.0	8265.0	8052.0	8123.0	8190.2	8261.2	8223.9	8126.7	7827.8	7973.5
45°	9053.4	8866.5	8474.2	8496.6	8773.1	8829.2	9281.3	9270.1	8668.5	8818.0
47.5°	9490.5	9404.6	9169.2	9143.0	9539.1	9535.4	10349.9	10349.9	9554.0	9658.7
50°	10140.7	9916.5	9815.6	9946.4	10148.1	10286.4	11440.9	11511.9	10424.6	10536.7
52.5°	10902.9	10622.7	10368.6	10704.9	11063.6	11153.2	12520.8	12490.9	11093.5	11556.8
55°	11534.4	11392.4	11216.8	11411.0	11997.7	12109.8	13604.3	13327.8	11762.3	12401.2
57.5°	12270.4	12356.4	12393.7	12345.2	13043.9	13219.5	14841.1	14049.0	12337.7	12969.1
60°	13380.1	13432.5	13481.0	13596.9	14336.7	14583.3	15820.0	14953.2	12700.1	13297.9
62.5°	15069.0	14867.2	14975.6	15375.4	15969.5	16249.7	17262.3	15588.4	12976.6	13496.0
65°	17000.7	16728.0	16615.9	17131.5	18670.9	18446.7	19063.3	16062.9	12576.8	12756.2
67.5°	18958.6	18988.5	18700.8	19735.8	21622.7	21622.7	20737.2	16290.8	11493.3	10338.7
70°	20513.0	20606.4	20763.3	22769.8	25758.9	26211.0	22810.9	15356.7	9285.0	6882.5
72.5°	20490.6	20210.3	21013.7	24709.0	29517.8	29140.4	23244.3	12143.4	5795.2	3370.3
73°	20031.0	19795.6	20673.7	24690.3	29671.0	29316.0	22926.7	11194.3	5111.4	2921.9
75°	16358.1	15932.1	17426.7	22362.5	27451.5	27724.3	19478.0	7301.0	2802.3	1801.0
77.5°	7457.9	7644.7	9591.4	15001.8	21155.7	21477.0	12804.7	3157.3	1535.7	1262.9
80°	2395.0	2514.6	3732.7	7457.9	13260.6	13839.7	5918.5	1434.8	1094.8	967.7
82.5°	915.4	911.7	1565.6	3101.2	6284.7	6654.6	2163.4	874.3	814.5	713.7
85°	321.3	336.3	590.4	1225.5	2473.5	2589.3	751.0	485.7	564.2	478.3
87.5°	112.1	115.8	209.2	444.6	851.9	900.5	209.2	194.3	280.2	276.5
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°
5066.6	0°	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6	5066.6
5081.5	2.5°	5118.9	5152.5	5163.7	5298.3	5298.3	5298.3	5350.6	5350.6	5335.6	5298.3
5062.9	5°	5141.3	5201.1	5316.9	5432.8	5462.7	5488.8	5559.8	5500.0	5522.4	5485.1
5130.1	7.5°	5204.8	5287.0	5503.8	5574.7	5526.2	5582.2	5507.5	5466.4	5425.3	5440.2
5145.1	10°	5313.2	5417.8	5518.7	5649.5	5556.1	5500.0	5346.8	5309.5	5178.7	5133.9
5208.6	12.5°	5447.7	5574.7	5746.6	5698.1	5518.7	5358.0	5193.6	5036.7	4958.2	4846.1
5316.9	15°	5582.2	5727.9	5754.1	5671.9	5447.7	5245.9	4947.0	4726.6	4648.1	4547.2
5473.9	17.5°	5727.9	5866.2	5821.4	5608.4	5305.7	4999.3	4659.3	4442.6	4278.2	4214.7
5649.5	20°	5944.7	6011.9	5940.9	5503.8	5133.9	4730.3	4401.5	4154.9	3990.5	3964.3
5817.6	22.5°	6112.8	6221.2	5903.6	5350.6	4883.5	4379.1	4001.7	3908.3	3859.7	3818.6
6008.2	25°	6329.5	6325.8	5836.3	5208.6	4453.8	3960.6	3732.7	3725.2	3702.8	3687.9
6280.9	27.5°	6535.0	6449.1	5757.8	4857.4	4009.2	3643.0	3519.7	3601.9	3635.5	3613.1
6658.3	30°	6860.1	6718.1	5645.7	4483.7	3616.9	3321.7	3344.1	3456.2	3512.2	3545.9
6987.1	32.5°	7203.8	6987.1	5414.1	4095.1	3269.4	3119.9	3172.2	3288.1	3355.3	3392.7
7528.9	35°	7700.8	7196.4	5178.7	3587.0	3019.0	2996.6	3026.5	3090.0	3187.2	3213.3
8268.7	37.5°	8313.6	7514.0	4861.1	3179.7	2824.7	2850.9	2880.8	2903.2	2906.9	2955.5
8978.6	40°	8926.3	7783.0	4397.8	2791.1	2623.0	2765.0	2750.0	2708.9	2675.3	2630.4
9770.8	42.5°	9464.4	8018.4	3882.1	2462.3	2443.6	2675.3	2626.7	2522.1	2443.6	2410.0
10671.2	45°	10069.7	8350.9	3362.8	2256.8	2305.4	2566.9	2552.0	2391.3	2290.4	2170.9
11639.0	47.5°	10854.3	8698.4	2865.8	2043.8	2174.6	2525.8	2533.3	2327.8	2182.1	2021.4
12905.6	50°	11859.4	9199.1	2488.5	1954.2	2096.1	2466.0	2477.3	2241.9	2051.3	1886.9
14389.0	52.5°	12823.4	9711.0	2174.6	1815.9	2043.8	2395.0	2421.2	2163.4	1942.9	1737.4
15102.6	55°	13309.2	9524.2	1905.6	1715.0	1924.3	2279.2	2376.4	2107.3	1778.5	1636.6
15521.1	57.5°	13417.5	9064.6	1692.6	1610.4	1823.4	2155.9	2301.6	1939.2	1703.8	1584.2
15554.7	60°	13062.5	8261.2	1524.5	1498.3	1696.3	2028.9	2129.8	1849.5	1629.1	1531.9
14456.2	62.5°	12188.2	7428.0	1408.6	1446.0	1588.0	1890.6	2021.4	1786.0	1558.1	1490.8
12259.2	65°	9994.9	6109.1	1315.2	1345.1	1475.9	1756.1	1954.2	1715.0	1494.6	1431.1
8597.5	67.5°	6923.6	4211.0	1240.5	1296.5	1386.2	1659.0	1886.9	1636.6	1412.4	1390.0
4700.4	70°	3545.9	2245.6	1143.3	1188.2	1289.1	1535.7	1767.3	1554.4	1326.4	1322.7
2155.9	72.5°	1797.2	1315.2	1031.3	1098.5	1169.5	1375.0	1617.9	1446.0	1218.1	1177.0
1916.8	73°	1554.4	1218.1	1012.6	1072.4	1139.6	1330.2	1573.0	1419.8	1203.1	1143.3
1348.9	75°	1132.1	960.3	908.0	967.7	1020.0	1199.4	1423.6	1300.3	1106.0	1042.5
993.9	77.5°	848.2	739.8	754.8	822.0	866.9	1035.0	1266.6	1177.0	1001.4	915.4
743.5	80°	624.0	564.2	624.0	687.5	721.1	911.7	1154.6	1020.0	844.4	747.3
526.8	82.5°	444.6	411.0	482.0	523.1	538.0	754.8	1038.7	814.5	638.9	511.9
302.7	85°	254.1	250.3	325.1	321.3	332.5	440.9	683.8	541.8	411.0	313.9
153.2	87.5°	112.1	123.3	164.4	130.8	138.2	209.2	291.4	201.8	168.1	93.4
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



<u>180°</u>
5066.6
5387.9
5518.7
5387.9
5175.0
4876.0
4599.5
4214.7
3923.2
3766.3
3758.8
3643.0
3501.0
3433.8
3224.5
2936.8
2619.2
2353.9
2155.9
1999.0
1872.0
1748.6
1632.8
1569.3
1509.5
1442.3
1427.3
1360.1
1285.3
1117.2
1087.3
990.2
893.0
728.6
470.8
306.4
71.0
0.0

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