

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: P574616

Luminaire Tested: **EPH-VN-04-740-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574616
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

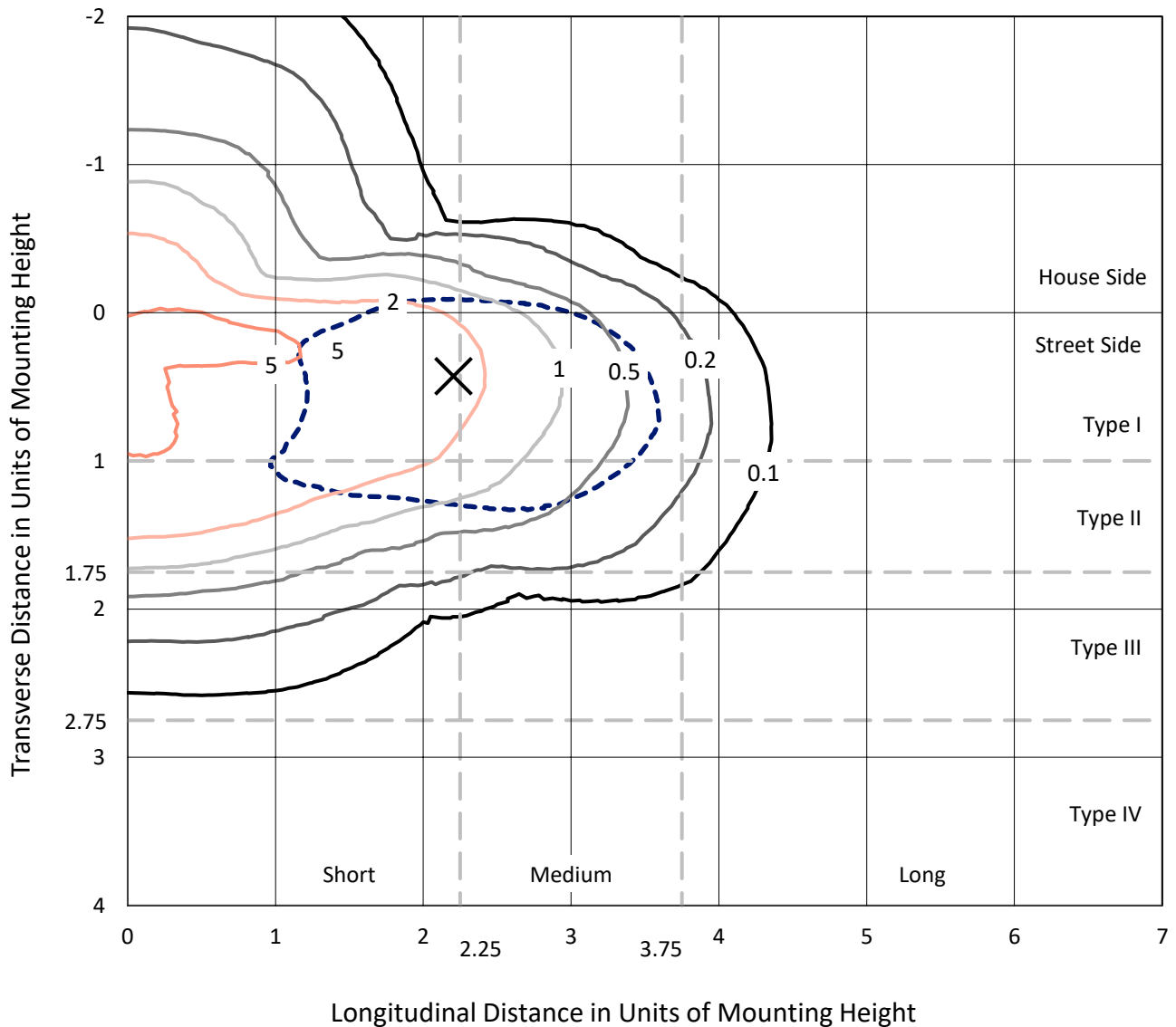
Lumens per Lamp: N/A
Luminaire Lumens: 34932.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

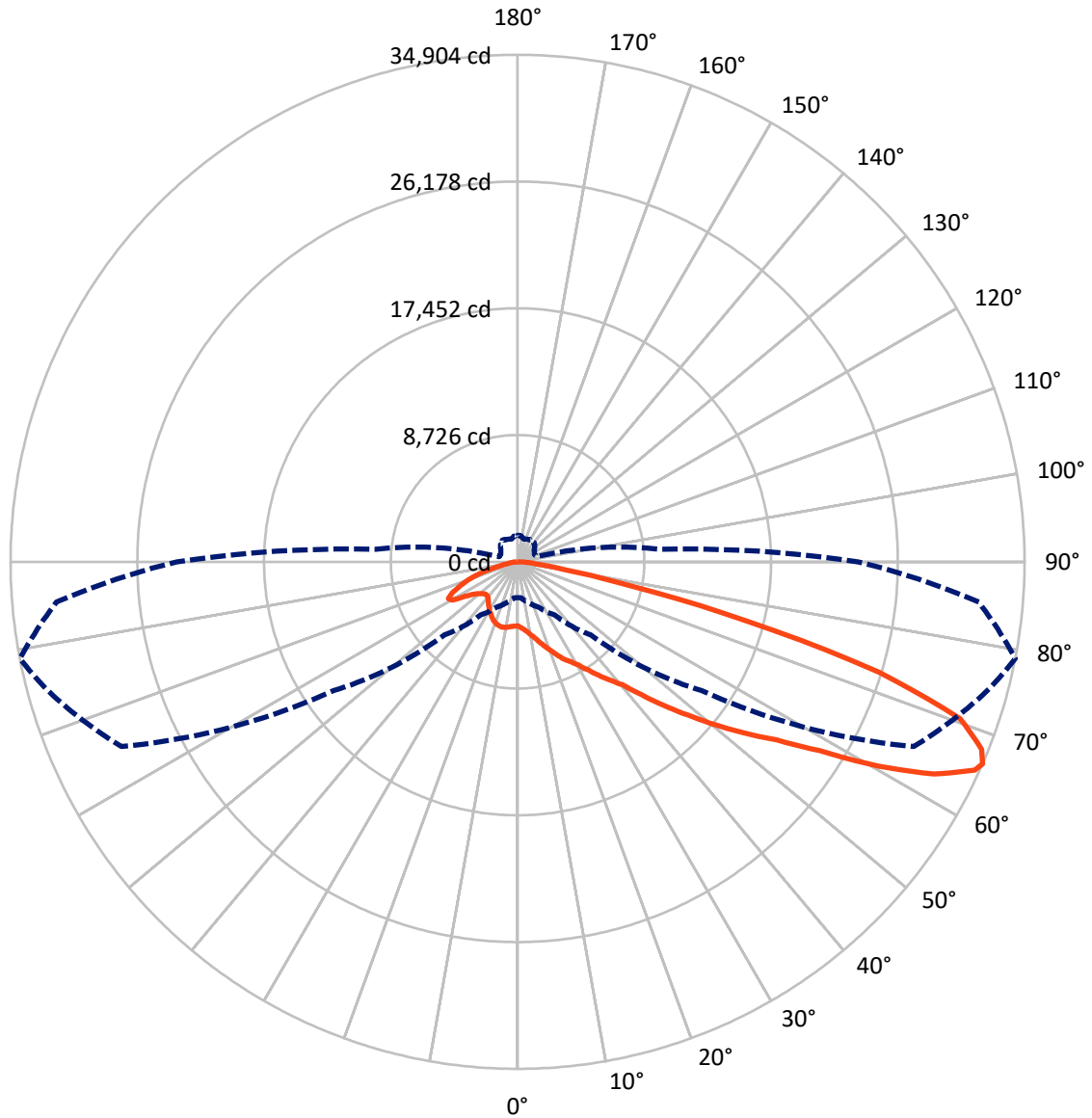
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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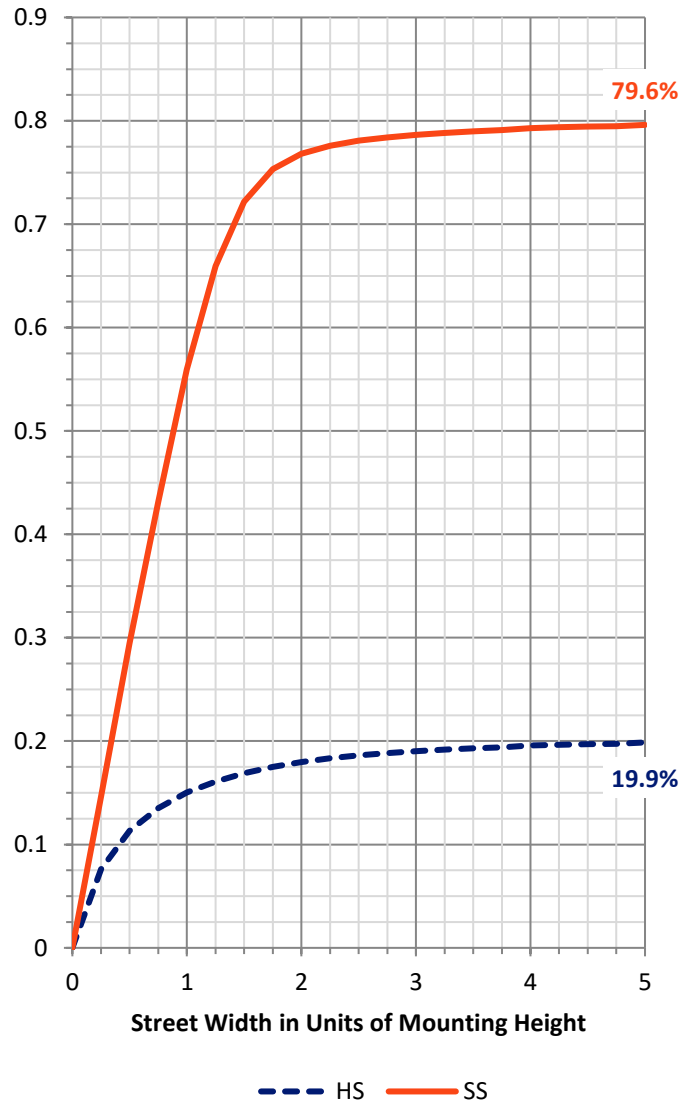
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7054.1	0.0	7054.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27878.3	0.0	27878.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	34932.5	0.0	34932.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.7	1.2
10°-20°	1339.3	3.8
20°-30°	2299.0	6.6
30°-40°	3551.5	10.2
40°-50°	5688.7	16.3
50°-60°	8493.6	24.3
60°-70°	8727.2	25.0
70°-80°	3868.6	11.1
80°-90°	530.8	1.5
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°	34932.5	100.0
0°-180°	34932.5	100.0

Coefficient of Utilization

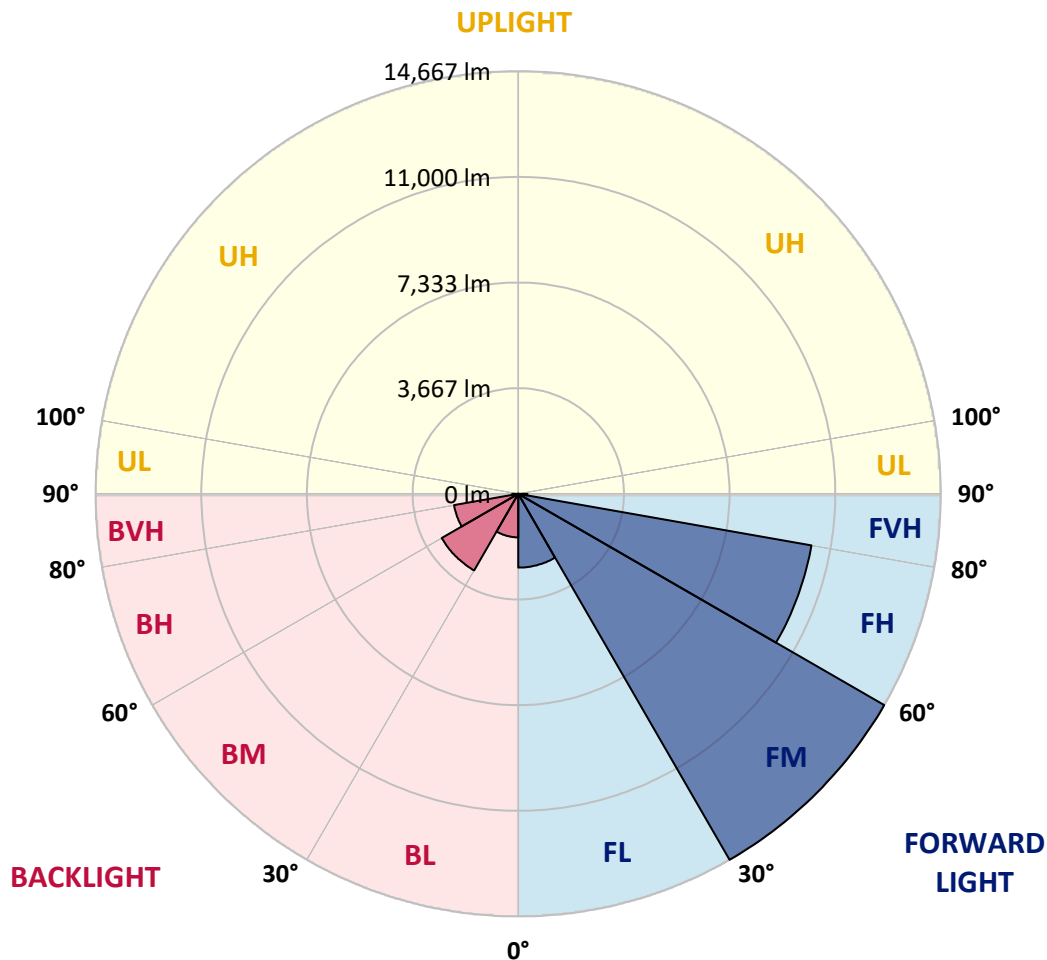


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2560.8	7.3			
FM (30°-60°)	14667.0	42.0			
FH (60°-80°)	10332.2	29.6			G4/12000
FVH (80°-90°)	318.4	0.9			G3/500
BL (0°-30°)	1511.3	4.3	B3/2500		
BM (30°-60°)	3066.8	8.8	B3/5000		
BH (60°-80°)	2263.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	212.4	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0
2.5°	4691.5	4695.3	4695.3	4680.0	4683.8	4695.3	4653.1	4560.9	4560.9	4545.5
5°	4979.7	4960.5	4933.6	4937.4	4922.0	4922.0	4875.9	4787.5	4710.7	4680.0
7.5°	5018.1	5037.3	5033.5	5079.6	5102.6	5102.6	5125.7	5052.7	4937.4	4864.4
10°	5094.9	5045.0	5041.1	5148.7	5183.3	5264.0	5356.2	5317.8	5221.7	5118.0
12.5°	5141.0	5171.8	5171.8	5225.6	5306.3	5425.4	5586.8	5659.8	5509.9	5402.3
15°	5210.2	5167.9	5290.9	5337.0	5490.7	5575.2	5805.8	5994.0	5894.1	5763.5
17.5°	5240.9	5214.0	5283.2	5367.7	5629.0	5755.8	6036.3	6297.6	6213.1	6128.5
20°	5398.5	5394.6	5425.4	5494.5	5682.8	5932.6	6282.2	6643.4	6674.1	6520.4
22.5°	5782.7	5732.8	5732.8	5705.9	5786.6	6044.0	6516.6	7016.1	7154.4	6973.8
25°	6136.2	6205.4	6163.1	6040.2	6009.4	6143.9	6685.7	7411.9	7596.3	7427.2
27.5°	6589.6	6612.7	6685.7	6520.4	6309.1	6351.4	6870.1	7634.7	8015.1	7788.4
30°	7242.8	7200.5	7185.2	7000.7	6724.1	6666.5	7081.4	7961.3	8564.6	8245.7
32.5°	7684.7	7788.4	7784.6	7531.0	7196.7	7069.9	7342.7	8268.7	9152.4	8856.6
35°	8560.7	8668.3	8583.8	8211.1	7819.2	7565.6	7719.3	8668.3	9824.9	9594.3
37.5°	9678.8	9932.4	9751.8	9064.1	8510.8	8234.1	8241.8	9102.5	10512.6	10324.4
40°	10451.2	10793.1	10543.4	9897.9	9310.0	9048.7	8945.0	9617.4	11334.9	11135.1
42.5°	11407.9	11692.2	11561.6	10923.8	10236.0	10013.1	9805.6	10478.0	12591.3	12499.1
45°	12453.0	12587.5	12545.2	12141.8	11377.2	11300.3	10843.1	11611.5	14070.6	14109.1
47.5°	13425.1	13498.1	13578.8	13286.8	12810.3	12875.7	12038.0	12825.7	15507.7	15761.3
50°	13674.9	13924.6	14112.9	14308.9	14412.6	14854.5	13356.0	14316.5	17159.9	17651.7
52.5°	13421.3	13402.1	13974.6	14589.3	15626.8	16552.8	15150.3	16168.5	18620.0	19592.1
55°	12268.6	12230.2	13152.3	13966.9	15991.8	17498.0	17713.2	18635.3	20383.6	21647.7
57.5°	10251.3	10013.1	11019.8	12356.9	15200.3	17601.7	20287.5	22297.1	23096.3	24537.2
60°	6889.3	6789.4	7753.8	9348.4	12341.6	16130.1	21828.3	26881.0	26919.4	28540.9
62.5°	4241.9	4261.1	4879.8	6074.7	8641.4	12787.3	21163.6	30542.7	30550.4	32175.7
65°	2774.2	2785.7	3285.2	3946.1	5398.5	8672.1	17501.8	30830.9	33074.8	34584.9
66°	2470.6	2474.5	2904.8	3442.7	4472.5	7096.8	15457.7	30081.6	33643.5	34903.8
67.5°	2082.5	2132.5	2478.3	2893.3	3488.8	5098.8	12264.7	27914.6	33351.5	34458.1
70°	1629.2	1656.0	1928.9	2351.5	2616.6	2950.9	7288.9	22754.3	30527.4	32321.7
72.5°	1306.4	1329.4	1536.9	1909.6	2124.8	1944.2	3969.1	16510.5	24114.5	26028.0
75°	1102.8	1106.6	1206.5	1502.4	1748.3	1460.1	2113.3	10597.2	15473.1	16364.5
77.5°	891.4	906.8	976.0	1145.0	1406.3	1148.9	1260.3	5936.4	7769.2	7834.5
80°	726.2	733.9	776.2	833.8	1072.0	849.2	853.0	2897.1	3331.3	3254.5
82.5°	572.5	580.2	630.1	618.6	787.7	607.1	530.2	1394.8	1533.1	1502.4
85°	322.8	322.8	495.7	495.7	499.5	384.2	322.8	657.0	810.7	756.9
87.5°	103.7	107.6	149.9	157.5	249.8	172.9	157.5	245.9	384.2	338.1
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°
4411.0	0°	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0
4518.6	2.5°	4503.2	4441.7	4414.8	4326.5	4303.4	4245.8	4218.9	4184.3	4172.8	4122.8
4599.3	5°	4537.8	4518.6	4411.0	4299.6	4215.0	4176.6	4119.0	4042.1	4034.5	3965.3
4783.7	7.5°	4683.8	4618.5	4430.2	4311.1	4142.0	4046.0	3919.2	3880.8	3830.8	3807.8
5010.4	10°	4910.5	4745.3	4464.8	4165.1	3957.6	3842.3	3750.1	3723.2	3727.1	3711.7
5237.1	12.5°	5071.9	4914.3	4407.2	4042.1	3773.2	3661.7	3654.1	3681.0	3723.2	3704.0
5502.2	15°	5302.4	5006.6	4364.9	3838.5	3623.3	3592.6	3588.7	3669.4	3665.6	3665.6
5859.6	17.5°	5517.6	5098.8	4211.2	3661.7	3465.8	3488.8	3515.7	3511.9	3550.3	3565.7
6155.4	20°	5790.4	5206.4	3996.0	3485.0	3346.7	3339.0	3335.1	3339.0	3377.4	3400.5
6489.7	22.5°	6028.6	5229.4	3815.4	3315.9	3204.5	3173.8	3123.8	3173.8	3154.6	3162.2
6943.1	25°	6236.1	5233.3	3558.0	3189.1	3062.3	2993.2	2954.8	2950.9	2916.3	2912.5
7200.5	27.5°	6409.0	5102.6	3331.3	3012.4	2893.3	2828.0	2824.1	2781.9	2693.5	2635.8
7504.1	30°	6543.5	5002.7	3173.8	2858.7	2743.4	2731.9	2697.3	2601.3	2486.0	2413.0
8065.1	32.5°	6781.7	4802.9	2958.6	2701.2	2643.5	2628.2	2547.5	2462.9	2355.4	2286.2
8541.5	35°	6958.5	4618.5	2816.4	2566.7	2539.8	2509.0	2439.9	2347.7	2316.9	2301.6
9052.5	37.5°	7158.3	4411.0	2643.5	2451.4	2478.3	2420.7	2340.0	2297.7	2405.3	2378.4
9851.7	40°	7477.2	4265.0	2474.5	2382.2	2409.1	2343.8	2240.1	2224.7	2359.2	2263.1
10877.7	42.5°	8061.2	4261.1	2370.7	2278.5	2297.7	2247.8	2155.5	2147.9	2201.7	2086.4
12161.0	45°	8787.4	4395.6	2293.9	2201.7	2186.3	2178.6	2147.9	2113.3	2067.2	1917.3
13590.3	47.5°	9655.8	4614.6	2278.5	2086.4	2105.6	2170.9	2132.5	2044.1	1925.0	1829.0
15181.1	50°	10708.6	5068.0	2240.1	2001.9	2036.4	2140.2	2109.4	1986.5	1878.9	1817.4
16637.3	52.5°	11872.8	5640.5	2190.1	1871.2	1948.1	2113.3	2128.7	2013.4	1855.8	1802.1
18608.4	55°	13244.5	6485.9	2132.5	1729.1	1844.3	2086.4	2128.7	1936.5	1825.1	1825.1
21617.0	57.5°	15953.4	8007.4	2013.4	1598.4	1752.1	2036.4	2067.2	1940.4	1829.0	1829.0
26285.4	60°	19926.3	10382.0	1786.7	1498.5	1663.7	1967.3	2021.1	1882.7	1786.7	1809.7
30127.7	62.5°	23034.8	11104.3	1594.6	1402.5	1575.4	1840.5	1959.6	1821.3	1736.7	1821.3
31887.5	65°	23699.5	10374.3	1398.6	1298.7	1452.4	1717.5	1871.2	1732.9	1663.7	1829.0
31864.5	66°	23461.3	9805.6	1329.4	1268.0	1398.6	1656.0	1817.4	1702.2	1625.3	1821.3
31142.1	67.5°	22400.8	8952.6	1252.6	1202.7	1325.6	1567.7	1755.9	1659.9	1563.8	1798.2
28514.0	70°	20095.4	7592.5	1122.0	1087.4	1221.9	1421.7	1613.8	1552.3	1467.8	1656.0
22427.7	72.5°	15476.9	6067.0	983.6	987.5	1102.8	1271.8	1471.6	1429.3	1356.3	1452.4
13740.2	75°	9425.2	3876.9	856.8	864.5	960.6	1129.6	1337.1	1306.4	1218.0	1271.8
6351.4	77.5°	4176.6	1921.2	722.4	737.7	814.6	995.2	1164.2	1114.3	1022.1	1033.6
2582.0	80°	1621.5	910.6	587.9	607.1	657.0	795.4	964.4	918.3	837.6	822.3
1187.3	82.5°	780.0	507.2	453.4	461.1	480.3	634.0	829.9	772.3	664.7	595.6
557.1	85°	391.9	315.1	318.9	292.0	318.9	430.3	561.0	468.8	388.1	345.8
199.8	87.5°	157.5	157.5	157.5	134.5	142.2	203.6	261.3	176.7	161.4	96.1
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°
4411.0
4168.9
3957.6
3857.7
3688.6
3730.9
3661.7
3592.6
3381.3
3185.3
2912.5
2643.5
2413.0
2274.7
2313.1
2389.9
2240.1
2051.8
1878.9
1809.7
1805.9
1794.4
1817.4
1813.6
1805.9
1829.0
1836.6
1825.1
1763.6
1594.6
1414.0
1252.6
1025.9
814.6
595.6
353.5
96.1
0.0

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