

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: P575064

Luminaire Tested: **EPH-VN-06-750-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575064
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

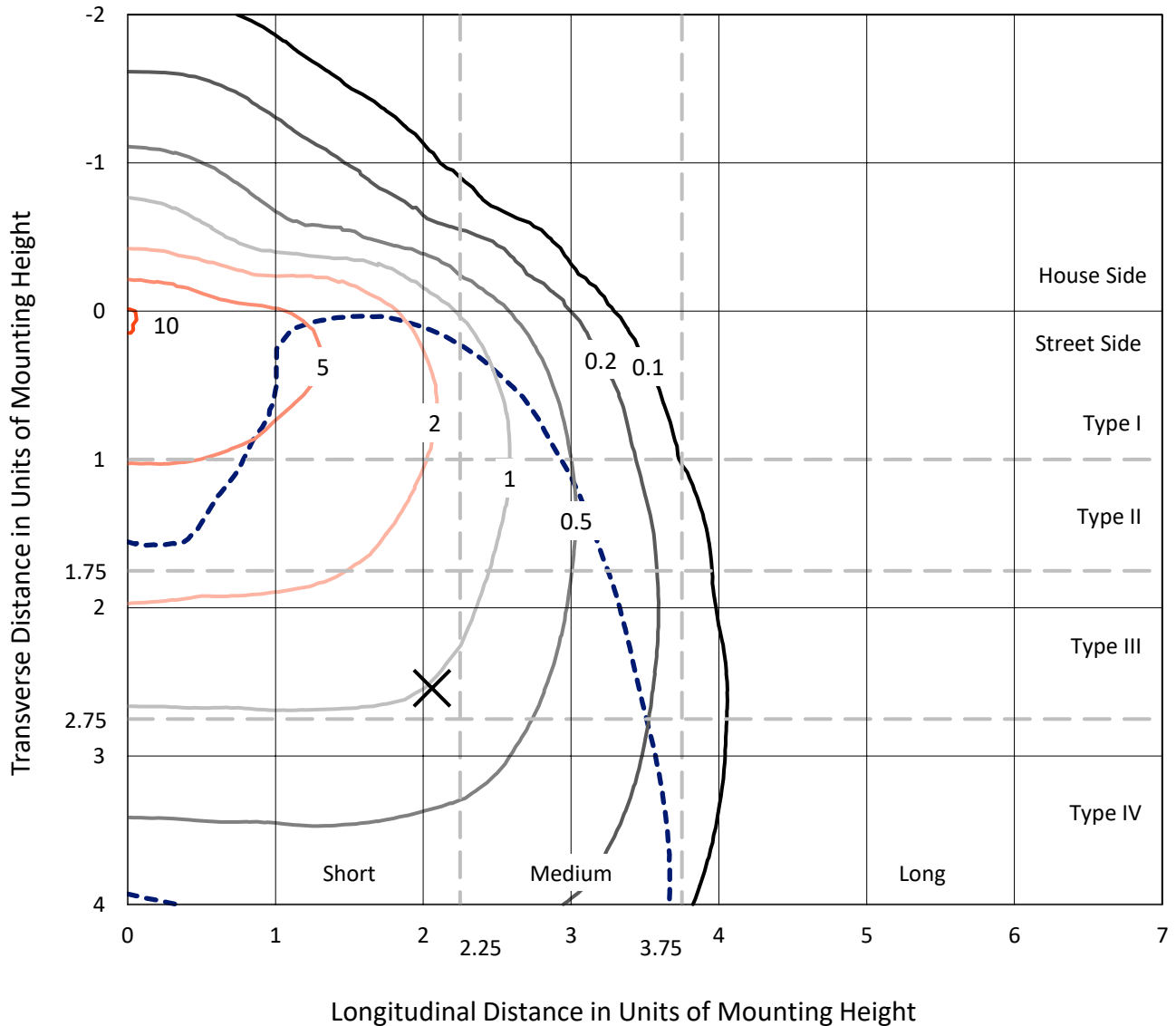
Lumens per Lamp: N/A
Luminaire Lumens: 52353.7 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

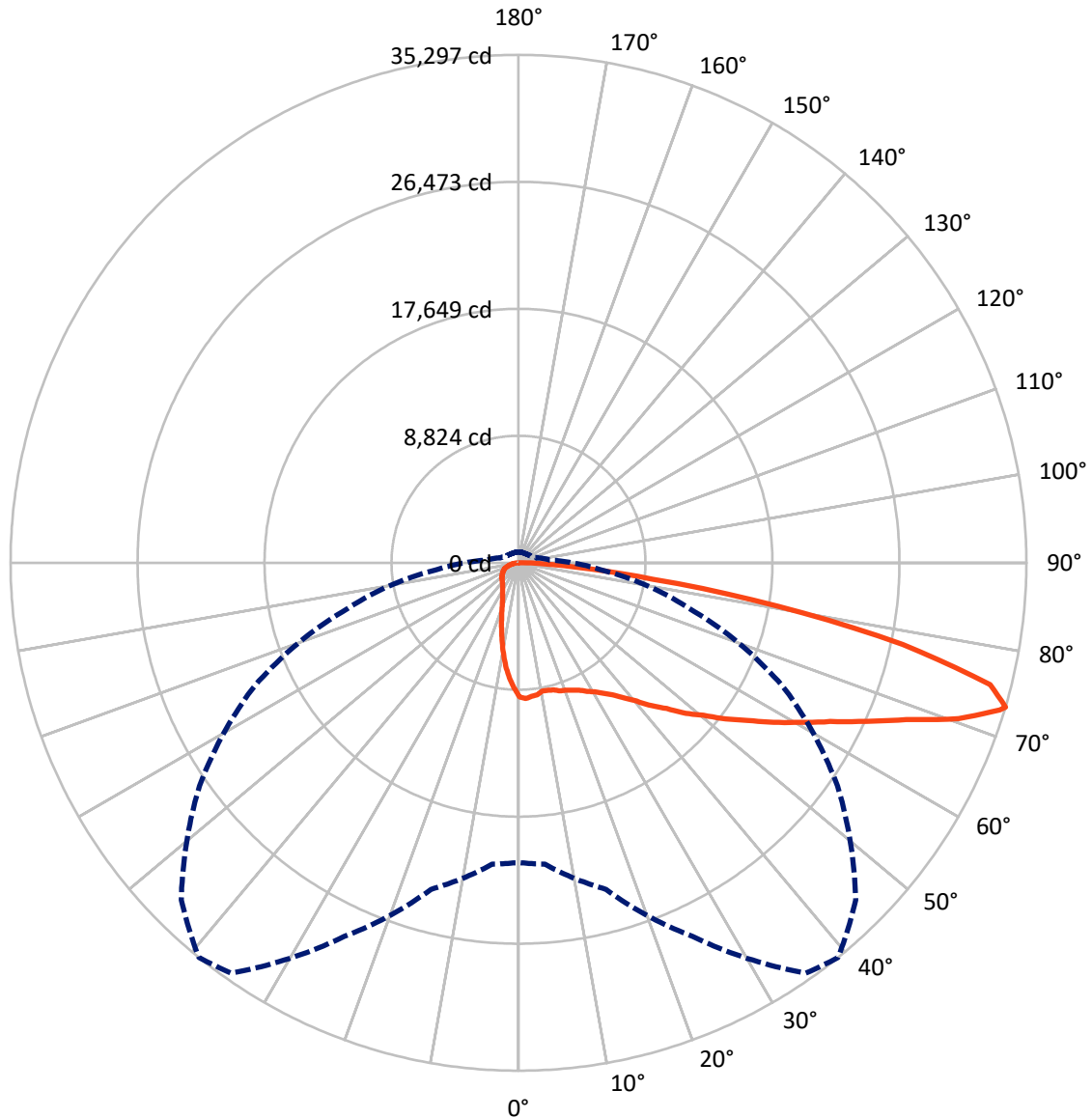
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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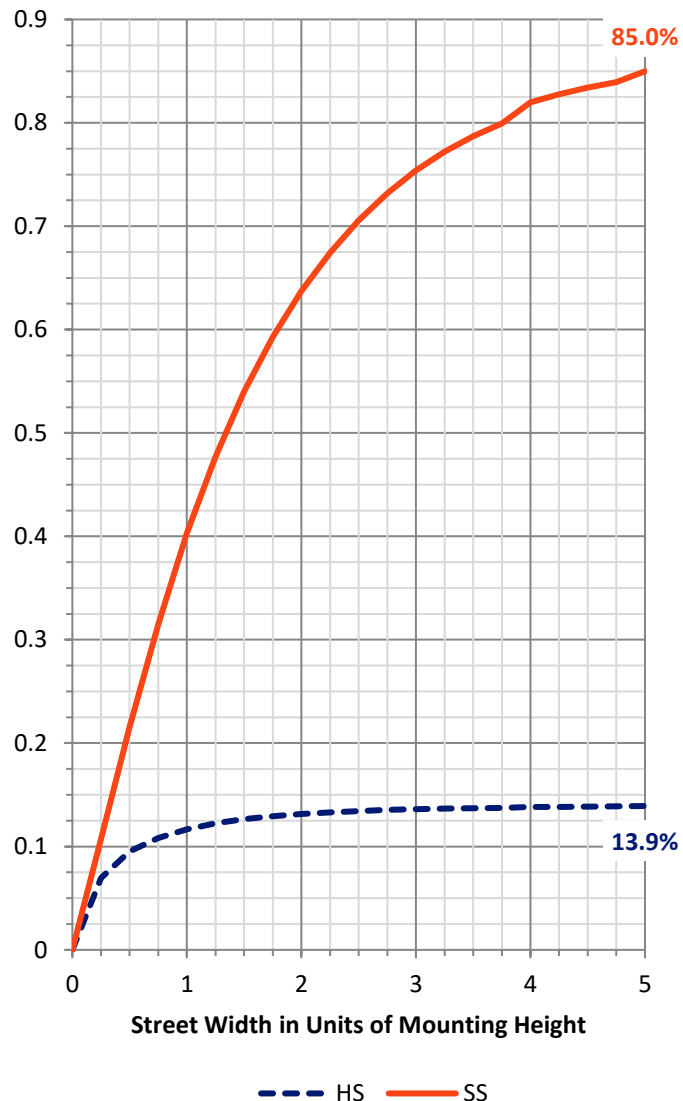
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7359.5	0.0	7359.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	44994.3	0.0	44994.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	52353.7	0.0	52353.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.0	1.5
10°-20°	2056.6	3.9
20°-30°	3142.7	6.0
30°-40°	4582.1	8.8
40°-50°	6924.0	13.2
50°-60°	10026.3	19.2
60°-70°	12739.0	24.3
70°-80°	10326.9	19.7
80°-90°	1747.3	3.3
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°	52353.7	100.0
0°-180°	52353.7	100.0

Coefficient of Utilization

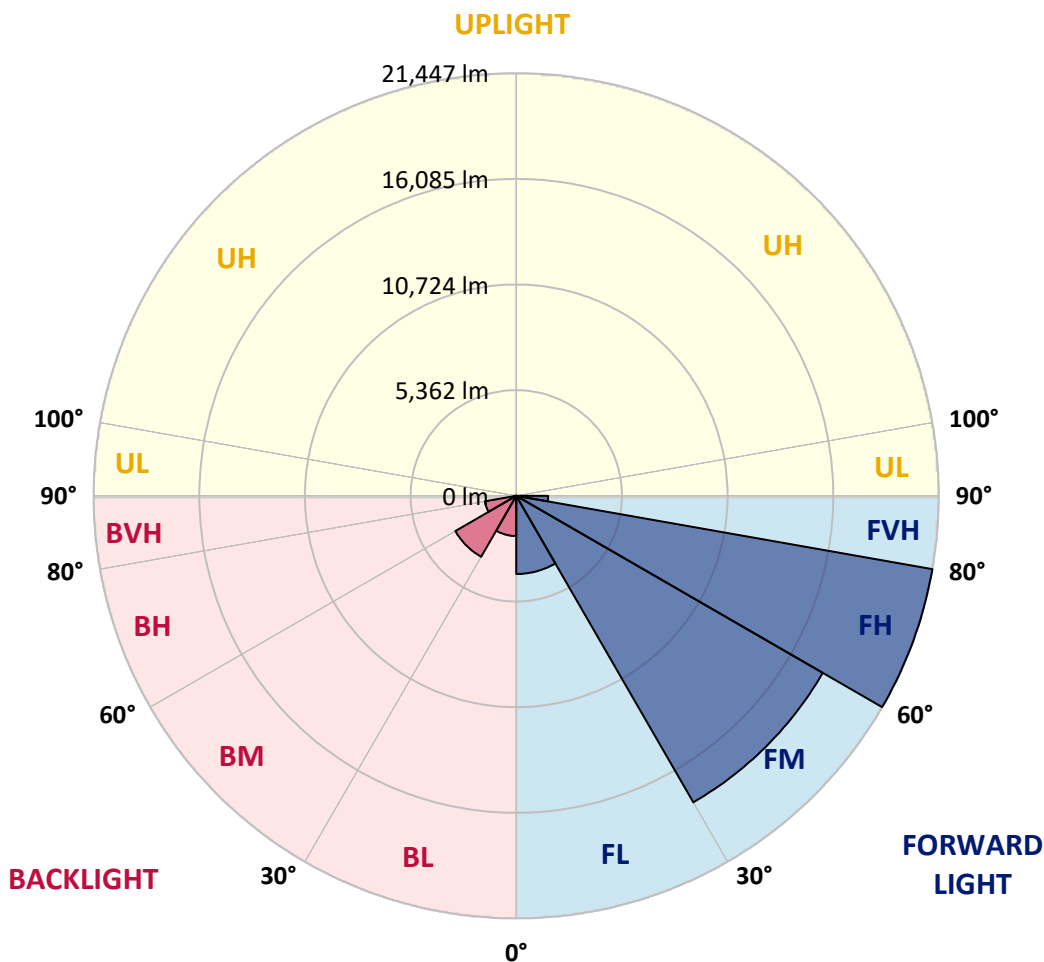


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3967.3	7.6			
FM (30°-60°)	17960.7	34.3			
FH (60°-80°)	21447.2	41.0			G5
FVH (80°-90°)	1619.1	3.1			G5
BL (0°-30°)	2040.9	3.9	B3/2500		
BM (30°-60°)	3571.7	6.8	B3/5000		
BH (60°-80°)	1618.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	128.2	0.2			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°	35°	39°	45°	55°	65°	75°
0°	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3
2.5°	9541.9	9442.3	9459.9	9424.7	9459.9	9448.1	9430.6	9342.7	9430.6	9342.7
5°	9413.0	9413.0	9471.6	9383.7	9395.4	9336.9	9395.4	9331.0	9272.4	9126.0
7.5°	9372.0	9366.1	9372.0	9249.0	9307.6	9272.4	9213.8	9143.6	9026.4	8932.7
10°	9090.8	9149.4	9085.0	9120.1	9167.0	9061.6	9055.7	9038.1	8985.4	8862.4
12.5°	8938.5	9038.1	9073.3	9044.0	9085.0	9096.7	9061.6	9038.1	8973.7	8891.7
15°	9003.0	8885.8	8985.4	9178.7	9137.7	9167.0	9172.8	9149.4	9120.1	8967.8
17.5°	9020.5	8950.3	9161.1	9202.1	9254.8	9360.3	9290.0	9284.1	9172.8	9067.4
20°	9061.6	9032.3	9202.1	9418.9	9424.7	9442.3	9477.4	9389.6	9331.0	9149.4
22.5°	9213.8	9313.4	9471.6	9565.3	9618.0	9629.7	9629.7	9454.0	9389.6	9243.1
25°	9670.7	9565.3	9787.9	9899.2	9823.0	9805.5	9764.5	9606.3	9536.0	9407.1
27.5°	10004.6	9998.8	10127.6	10279.9	10074.9	10115.9	9969.5	9922.6	9764.5	9694.2
30°	10461.5	10590.4	10584.5	10631.4	10361.9	10408.8	10221.3	10133.5	10045.6	10086.6
32.5°	11047.2	11000.4	11076.5	11041.4	10771.9	10812.9	10590.4	10455.6	10484.9	10607.9
35°	11422.1	11375.3	11404.5	11404.5	11322.5	11275.7	11182.0	11006.2	11146.8	11375.3
37.5°	11826.3	11884.9	12054.7	12019.6	11914.2	11914.2	11902.4	11779.4	11961.0	12523.3
40°	12183.6	12341.7	12447.2	12517.5	12640.5	12640.5	12740.1	12669.8	12997.8	13899.8
42.5°	12558.5	12564.3	13138.4	13191.1	13466.4	13583.5	13659.7	13718.3	14333.3	15340.8
45°	13038.8	13068.1	13571.8	13976.0	14403.6	14444.6	14731.6	14924.9	15680.5	16916.5
47.5°	13671.4	13636.3	14175.1	14819.5	15352.5	15633.7	15979.3	16190.1	17121.5	18626.8
50°	14503.2	14397.7	14708.2	15721.5	16348.3	16658.7	17273.8	17625.2	18714.7	20261.1
52.5°	15516.5	15340.8	15586.8	16693.9	17396.8	18023.5	18609.3	19001.7	20138.1	21526.3
55°	16588.4	16225.3	16295.6	17724.8	18738.1	19329.7	20132.2	20542.2	21702.0	22662.7
57.5°	17648.6	17420.2	17279.6	18714.7	20337.2	20905.4	21643.5	22176.5	23160.5	23670.2
60°	18539.0	18480.4	18252.0	20249.4	22030.1	22516.2	23289.4	23617.4	24361.3	24601.5
62.5°	19271.2	19072.0	19435.2	21485.3	23752.2	24302.8	25152.1	25181.4	25708.6	25181.4
65°	19845.2	19856.9	20436.8	22979.0	25743.7	26557.9	27243.2	27167.1	26827.3	24835.8
67.5°	20366.5	20589.1	21438.4	24619.1	28303.4	29070.8	29832.2	28824.8	27131.9	23219.1
70°	20776.5	20999.1	22791.5	26616.5	31320.0	32444.7	32614.6	29480.8	25732.0	19669.5
72.5°	20729.7	21133.9	23558.9	28209.7	33996.9	34969.3	33598.6	27635.7	21438.4	13712.4
73°	20829.3	21028.4	23494.4	28654.9	34811.1	35297.3	33141.7	27055.8	20220.1	12300.7
75°	18908.0	19581.6	22328.8	27928.6	33938.3	33850.5	30517.6	22545.5	14374.3	6460.8
77.5°	13987.7	14415.3	17595.9	22967.3	27858.3	27295.9	23020.0	14409.4	6824.0	2395.7
80°	6835.7	7169.6	9325.1	13261.4	18216.8	18263.7	14286.4	7497.6	2922.9	1353.1
82.5°	3414.9	3614.1	4481.0	5828.2	8962.0	9389.6	7245.7	4264.3	1810.0	767.3
85°	2231.7	2372.3	2758.9	2852.6	3801.5	4012.4	3373.9	3327.1	1177.4	415.9
87.5°	1481.9	1505.4	1692.8	1440.9	1522.9	1464.4	1628.4	2097.0	345.6	175.7
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°
9319.3	0°	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3	9319.3
9319.3	2.5°	9290.0	9208.0	9120.1	8997.1	8909.3	8774.5	8651.5	8598.8	8587.1	8593.0
9085.0	5°	9049.8	8932.7	8757.0	8505.1	8358.7	8136.1	7948.6	7849.0	7743.6	7761.2
8798.0	7.5°	8716.0	8587.1	8317.6	8024.8	7661.6	7345.3	7169.6	6923.6	6783.0	6677.5
8780.4	10°	8610.5	8387.9	7983.8	7579.6	7017.3	6601.4	6197.2	5916.1	5722.8	5535.3
8657.4	12.5°	8557.8	8335.2	7772.9	7175.4	6449.1	5816.5	5248.3	4902.7	4627.4	4463.4
8815.5	15°	8510.9	8235.6	7573.7	6730.3	5916.1	5084.3	4445.8	3989.0	3725.4	3567.2
8844.8	17.5°	8575.4	8182.9	7280.9	6296.8	5330.3	4440.0	3731.2	3256.8	2987.3	2887.7
8809.7	20°	8510.9	8124.4	6993.9	5863.4	4744.6	3824.9	3145.5	2753.0	2565.6	2483.6
8973.7	22.5°	8534.4	7983.8	6695.1	5383.0	4199.8	3309.5	2753.0	2454.3	2307.9	2266.9
9049.8	25°	8645.7	7901.8	6396.4	4855.9	3660.9	2928.7	2501.2	2272.7	2167.3	2126.3
9184.6	27.5°	8727.7	7972.1	6126.9	4358.0	3204.1	2589.0	2290.3	2138.0	2067.7	2038.4
9582.9	30°	8932.7	8013.1	5863.4	3912.8	2829.2	2366.4	2143.8	2020.8	1974.0	1956.4
10127.6	32.5°	9237.3	8089.2	5558.8	3502.8	2553.9	2155.6	2026.7	1921.3	1909.5	1892.0
10736.8	35°	9735.2	8352.8	5219.0	3151.3	2290.3	2015.0	1903.7	1833.4	1833.4	1833.4
11709.1	37.5°	10449.8	8721.8	4914.4	2817.5	2120.4	1892.0	1798.3	1774.8	1763.1	1780.7
12898.2	40°	11369.4	9167.0	4668.4	2553.9	1974.0	1810.0	1728.0	1716.2	1710.4	1704.5
14169.3	42.5°	12376.9	9735.2	4457.6	2348.9	1868.5	1722.1	1663.5	1651.8	1628.4	1640.1
15551.7	45°	13378.5	10438.1	4270.1	2184.8	1798.3	1675.2	1593.2	1587.4	1575.7	1569.8
17062.9	47.5°	14491.5	11129.2	4211.5	2085.3	1745.5	1605.0	1546.4	1540.5	1505.4	1499.5
18099.7	50°	15358.4	11638.8	4276.0	2038.4	1669.4	1552.2	1511.2	1481.9	1452.7	1423.4
18867.0	52.5°	15955.8	11990.3	4322.8	2003.3	1628.4	1481.9	1429.2	1417.5	1388.2	1358.9
19634.3	55°	16494.7	12201.2	4334.5	2009.1	1587.4	1399.9	1364.8	1358.9	1341.4	1294.5
20284.5	57.5°	16676.3	12113.3	4100.2	1956.4	1564.0	1347.2	1300.4	1312.1	1288.6	1247.6
20296.2	60°	16658.7	11504.1	3567.2	1886.1	1511.2	1288.6	1230.1	1265.2	1265.2	1218.4
19698.8	62.5°	15645.4	10098.3	2917.0	1751.4	1452.7	1230.1	1165.6	1218.4	1235.9	1206.6
18287.1	65°	13542.5	8223.9	2436.7	1616.7	1364.8	1165.6	1101.2	1159.8	1189.1	1177.4
15528.2	67.5°	11205.4	6291.0	2026.7	1440.9	1253.5	1077.8	1025.1	1066.1	1083.6	1089.5
11715.0	70°	7919.3	4188.1	1692.8	1247.6	1101.2	984.1	925.5	931.3	925.5	943.1
6835.7	72.5°	4305.3	2413.3	1376.5	1060.2	948.9	855.2	814.2	784.9	784.9	779.0
5781.4	73°	3684.4	2167.3	1312.1	1030.9	907.9	831.8	784.9	761.5	761.5	755.6
2799.9	75°	2067.7	1587.4	1124.6	884.5	784.9	726.3	691.2	656.0	650.2	650.2
1511.2	77.5°	1358.9	1235.9	896.2	708.8	632.6	579.9	568.2	533.0	533.0	533.0
1030.9	80°	1019.2	972.3	691.2	538.9	486.2	445.2	433.5	410.0	404.2	380.7
585.7	82.5°	679.5	767.3	503.7	380.7	328.0	304.6	304.6	298.7	281.2	251.9
474.5	85°	538.9	626.8	363.2	234.3	193.3	164.0	169.9	164.0	158.2	128.9
128.9	87.5°	99.6	251.9	105.4	64.4	46.9	29.3	29.3	17.6	11.7	0.0
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°
9319.3
8534.4
7714.3
6736.1
5617.3
4527.8
3584.8
2864.3
2466.0
2278.6
2138.0
2032.6
1950.5
1897.8
1851.0
1792.4
1716.2
1657.7
1599.1
1522.9
1423.4
1347.2
1282.8
1241.8
1212.5
1200.8
1171.5
1095.4
943.1
779.0
749.8
650.2
527.2
386.6
251.9
123.0
0.0
0.0

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