

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: P575022

Luminaire Tested: **EPH-VN-04-750-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575022  
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-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

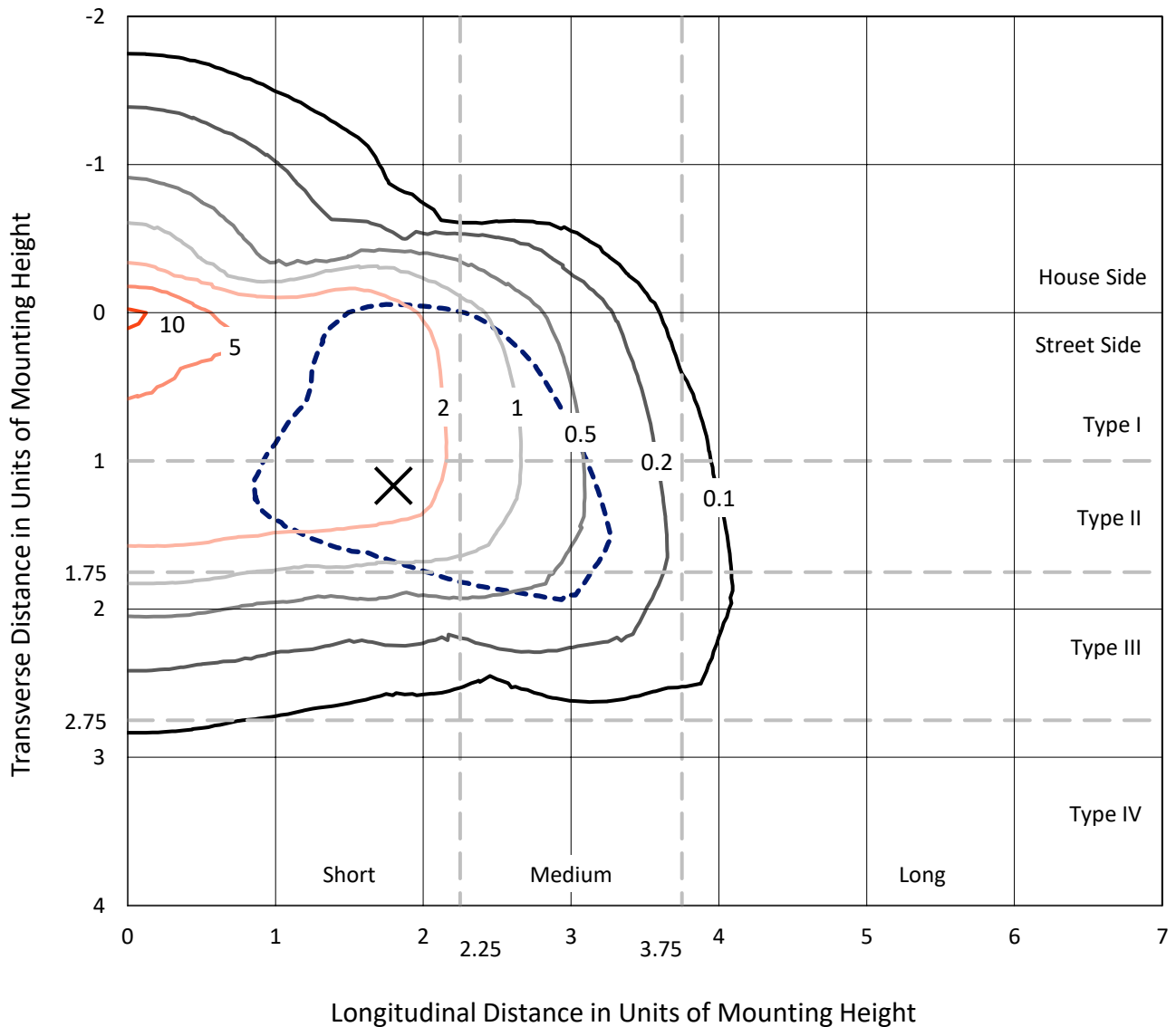
Lumens per Lamp: N/A  
Luminaire Lumens: 35300.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

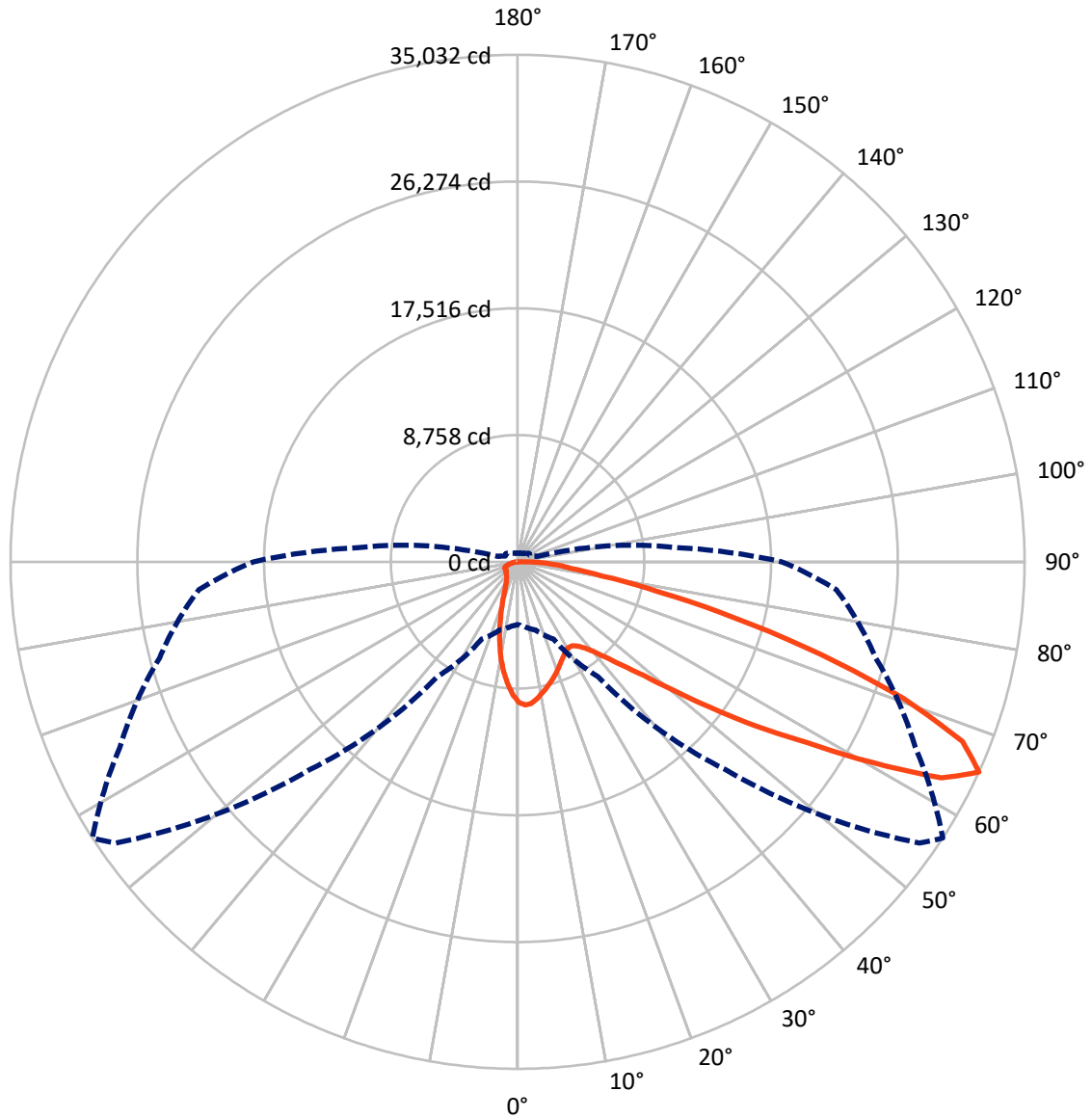
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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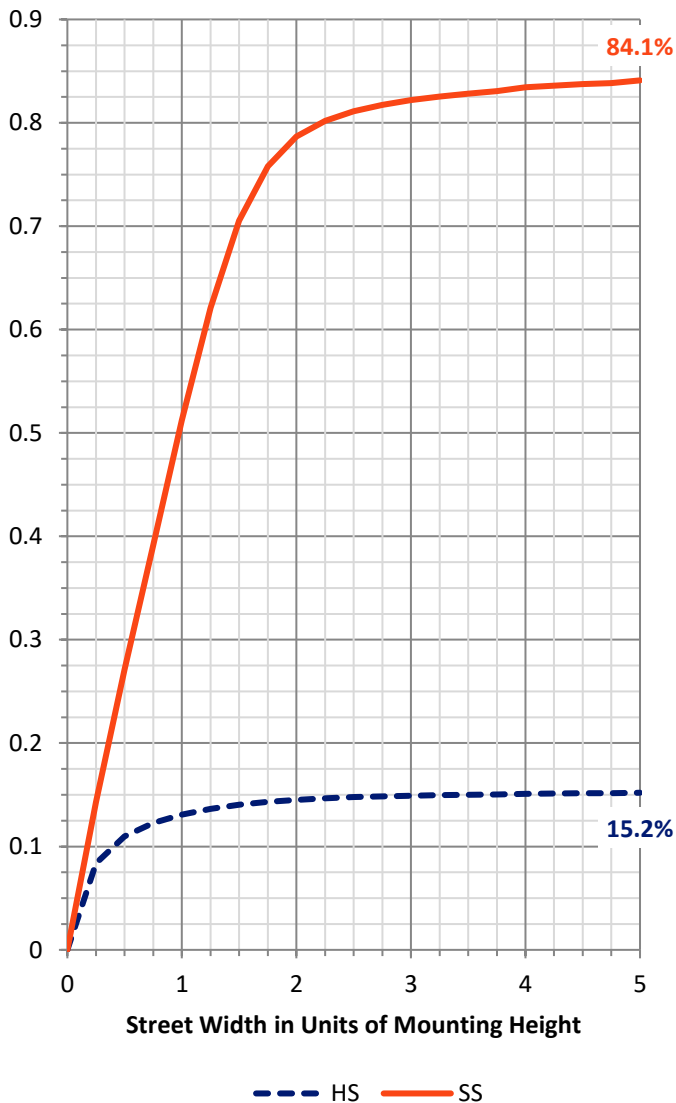
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5413.7	0.0	5413.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	29887.0	0.0	29887.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	35300.7	0.0	35300.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	812.9	2.3
10°-20°	1749.5	5.0
20°-30°	2261.9	6.4
30°-40°	3043.8	8.6
40°-50°	4853.5	13.7
50°-60°	8572.5	24.3
60°-70°	9430.9	26.7
70°-80°	3945.1	11.2
80°-90°	630.5	1.8
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°	35300.7	100.0
0°-180°	35300.7	100.0

**Coefficient of Utilization**

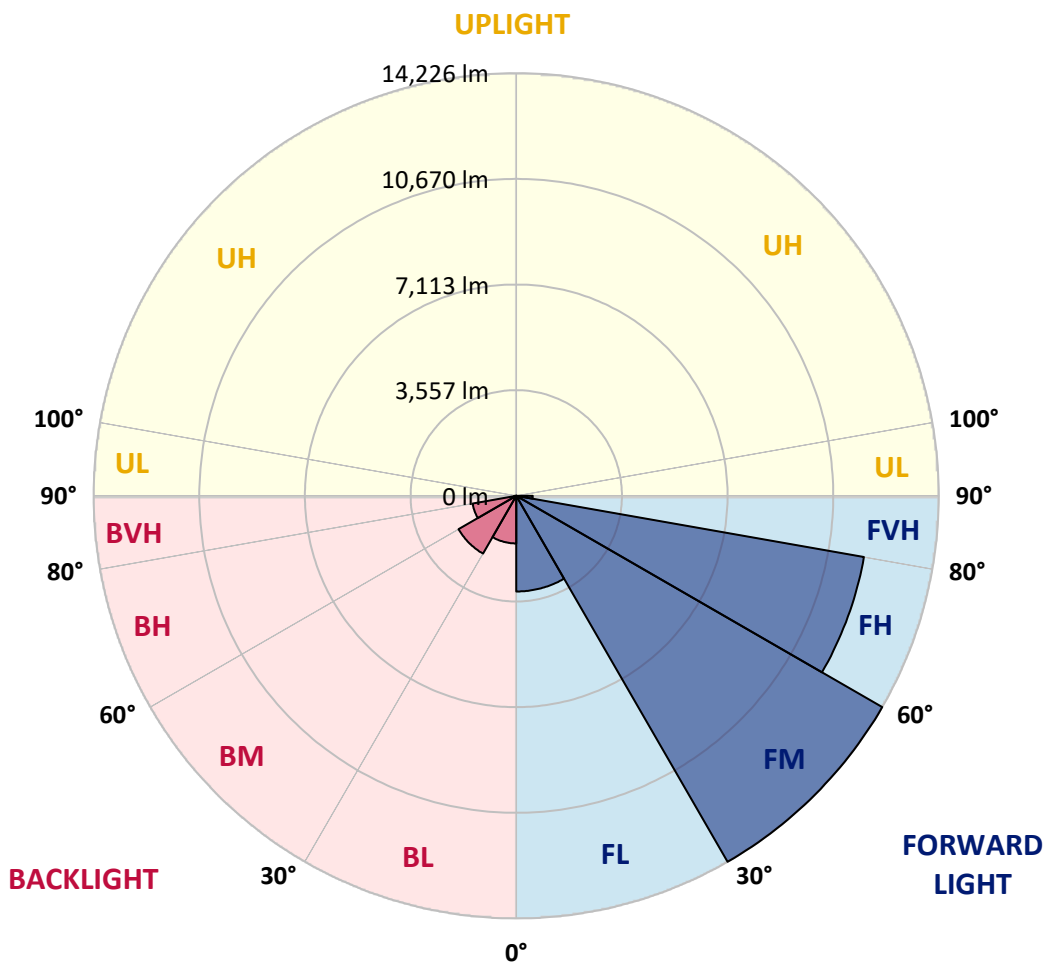


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3221.1	9.1			
FM (30°-60°)	14226.1	40.3			
FH (60°-80°)	11883.3	33.7			G4/12000
FVH (80°-90°)	556.5	1.6			G4/750
BL (0°-30°)	1603.3	4.5	B3/2500		
BM (30°-60°)	2243.7	6.4	B2/2500		
BH (60°-80°)	1492.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	74.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°
0°	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2
2.5°	9969.3	9985.2	9985.2	10017.0	9909.8	9961.4	9953.4	9905.8	9921.7	9838.3
5°	9687.3	9675.4	9739.0	9746.9	9830.3	9854.2	9874.0	9842.2	9850.2	9667.5
7.5°	8964.5	8960.5	9067.7	9159.1	9333.8	9496.7	9603.9	9572.1	9615.8	9500.7
10°	8106.5	8197.9	8309.1	8400.5	8722.2	8928.7	9206.7	9234.5	9401.4	9373.6
12.5°	7463.1	7502.8	7586.2	7848.4	8142.3	8483.9	8881.0	8916.8	9079.6	9159.1
15°	6934.8	6970.6	7077.8	7272.5	7602.1	8007.2	8511.7	8603.0	8928.7	8956.5
17.5°	6549.6	6577.4	6648.9	6843.5	7113.6	7633.9	8110.5	8273.4	8702.3	8837.4
20°	6398.6	6339.1	6378.8	6501.9	6772.0	7173.2	7788.8	7931.8	8479.9	8746.0
22.5°	6331.1	6279.5	6303.3	6295.4	6509.9	6795.8	7443.2	7594.2	8269.4	8638.8
25°	6382.8	6382.8	6358.9	6339.1	6362.9	6549.6	7069.9	7304.2	7987.4	8547.4
27.5°	6660.8	6553.5	6565.5	6482.1	6458.2	6458.2	6903.1	7042.1	7896.0	8495.8
30°	6839.5	6891.2	6895.1	6772.0	6648.9	6426.4	6748.2	6883.2	7820.6	8559.3
32.5°	7296.3	7272.5	7204.9	7181.1	6998.4	6748.2	6823.6	6915.0	7776.9	8702.3
35°	7753.0	7741.1	7745.1	7733.2	7542.5	7173.2	7026.2	7149.3	7856.3	8952.5
37.5°	8225.7	8257.5	8392.5	8392.5	8189.9	7788.8	7594.2	7558.4	8146.3	9361.6
40°	8698.3	8777.8	8948.6	9218.7	8932.7	8559.3	8245.6	8189.9	8495.8	9909.8
42.5°	9151.1	9282.2	9619.8	10021.0	9925.6	9552.3	9135.2	9071.7	9214.7	10724.0
45°	9731.0	9842.2	10374.5	10990.1	11121.2	10791.5	10303.0	10251.3	10243.4	11915.5
47.5°	10612.8	10731.9	11264.2	11883.8	12288.9	12340.5	11792.4	11736.8	11546.2	13524.1
50°	11716.9	11911.6	12360.4	13083.3	13671.1	14223.2	14068.3	13905.4	13532.1	15394.9
52.5°	12523.2	12761.5	13369.2	14294.7	15331.3	16209.1	16765.2	16765.2	15907.2	17448.3
55°	12737.7	12880.7	13647.3	14985.8	16761.2	18981.5	20145.2	20057.8	18735.2	19609.0
57.5°	11883.8	12070.4	12999.9	14401.9	17511.9	21575.1	23501.4	23521.3	21825.3	22119.2
60°	9532.4	9592.0	10688.2	12562.9	16789.0	23664.3	28084.9	28160.4	25340.4	24355.4
62.5°	6589.3	6779.9	7606.1	9250.4	13909.4	23429.9	32505.6	32878.9	28156.4	25535.0
65°	4337.3	4452.4	4893.3	5894.2	9683.4	20308.0	33879.8	35031.7	30309.2	25602.5
67.5°	3145.7	3165.6	3296.6	3813.0	5818.8	14604.5	31532.5	33157.0	31115.4	25038.5
70°	2542.0	2557.9	2605.5	2935.2	3757.4	9139.2	25717.7	28263.7	28696.6	22365.5
72.5°	2065.4	2085.2	2144.8	2454.6	3098.0	5084.0	18806.7	21908.7	23342.5	16546.7
75°	1624.5	1640.4	1783.4	2089.2	2911.4	3491.3	12475.6	15514.0	15708.7	9671.4
77.5°	1112.1	1139.9	1314.7	1771.4	2740.6	3054.3	7776.9	9937.6	8916.8	3785.2
80°	707.0	746.7	850.0	1342.5	2422.8	2915.3	4837.7	5933.9	3904.3	1294.8
82.5°	417.0	456.8	560.0	869.8	1902.5	2704.8	3407.8	3713.7	1831.0	663.3
85°	230.4	258.2	337.6	524.3	1116.1	2403.0	2728.7	2665.1	1048.6	353.5
87.5°	75.5	87.4	123.1	210.5	460.7	1132.0	1636.4	1537.1	544.1	162.8
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°
9707.2	0°	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2	9707.2
9754.9	2.5°	9699.2	9687.3	9508.6	9373.6	9143.2	8952.5	8877.1	8773.8	8769.8	8694.4
9588.0	5°	9464.9	9341.8	9067.7	8805.6	8396.5	8122.4	7872.2	7697.4	7625.9	7471.0
9314.0	7.5°	9163.0	9000.2	8579.2	8086.7	7606.1	7177.1	6787.9	6398.6	6180.2	6104.7
9035.9	10°	8849.3	8563.3	7939.7	7387.6	6716.4	6057.1	5445.4	4897.3	4599.4	4388.9
8865.2	12.5°	8599.0	8217.7	7423.4	6597.2	5711.5	4829.8	4118.8	3542.9	3205.3	3046.4
8642.7	15°	8317.0	7812.6	6859.4	5814.8	4710.6	3709.7	3014.6	2561.8	2426.8	2351.3
8412.4	17.5°	8019.2	7435.3	6247.7	5044.2	3733.5	2792.2	2343.4	2160.7	2101.1	2069.3
8193.9	20°	7741.1	7097.7	5620.2	4186.3	2923.3	2240.1	2029.6	1934.3	1930.3	1946.2
7999.3	22.5°	7347.9	6656.8	5000.6	3392.0	2335.4	1950.2	1815.1	1791.3	1815.1	1835.0
7800.7	25°	7125.5	6295.4	4309.5	2692.9	1930.3	1731.7	1688.0	1680.1	1715.8	1739.7
7637.9	27.5°	6895.1	5922.0	3666.0	2156.7	1692.0	1576.8	1568.9	1576.8	1612.6	1648.3
7542.5	30°	6716.4	5624.1	3062.3	1803.2	1509.3	1465.6	1457.7	1465.6	1485.5	1489.4
7570.3	32.5°	6569.4	5270.6	2549.9	1564.9	1398.1	1362.3	1370.3	1366.3	1370.3	1374.3
7665.7	35°	6482.1	5060.1	2128.9	1417.9	1306.7	1278.9	1275.0	1263.0	1267.0	1271.0
7892.1	37.5°	6668.7	4956.9	1795.3	1314.7	1243.2	1219.4	1211.4	1203.5	1191.6	1191.6
8436.2	40°	6950.7	4901.3	1592.7	1247.2	1195.5	1167.7	1143.9	1135.9	1135.9	1139.9
9194.8	42.5°	7510.8	4992.6	1453.7	1195.5	1135.9	1104.2	1080.3	1084.3	1096.2	1108.1
10239.4	45°	8321.0	5270.6	1390.1	1155.8	1100.2	1056.5	1040.6	1036.7	1048.6	1068.4
11768.6	47.5°	9381.5	5703.6	1366.3	1120.1	1076.4	1016.8	996.9	1008.8	1024.7	1052.5
13706.8	50°	11117.2	6676.7	1386.2	1088.3	1040.6	996.9	973.1	961.2	973.1	993.0
16038.3	52.5°	13385.1	8444.1	1461.6	1072.4	1016.8	981.0	941.3	921.5	933.4	949.3
18751.1	55°	16097.9	10859.0	1672.1	1052.5	977.1	957.2	913.5	873.8	881.7	881.7
21428.1	57.5°	18488.9	12682.1	1922.4	1024.7	953.2	925.4	869.8	822.2	814.2	818.2
22790.5	60°	19561.3	13166.7	2041.5	1016.8	953.2	885.7	810.3	762.6	750.7	742.7
23004.9	62.5°	19374.7	12328.6	1799.2	981.0	977.1	853.9	754.7	703.0	687.1	671.2
22107.3	65°	18246.7	11133.1	1417.9	933.4	981.0	834.1	699.0	647.4	619.6	599.7
20002.2	67.5°	16185.3	9504.6	1124.0	897.6	941.3	798.3	651.4	591.8	568.0	548.1
16109.8	70°	12662.2	7451.2	977.1	850.0	846.0	711.0	595.8	544.1	508.4	484.6
10708.1	72.5°	8209.8	4710.6	838.1	754.7	730.8	595.8	516.3	484.6	456.8	436.9
5012.5	75°	3717.6	2188.5	675.2	631.5	595.8	476.6	436.9	421.0	397.2	377.3
1723.8	77.5°	1334.5	933.4	504.4	496.5	444.8	369.4	353.5	341.6	325.7	305.8
830.1	80°	746.7	591.8	377.3	361.4	309.8	274.1	254.2	254.2	246.3	234.3
500.5	82.5°	472.6	385.3	278.0	242.3	202.6	182.7	174.8	170.8	166.8	150.9
313.8	85°	297.9	262.1	182.7	143.0	119.2	91.4	87.4	83.4	75.5	67.5
123.1	87.5°	135.0	150.9	71.5	43.7	31.8	19.9	11.9	4.0	0.0	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°
9707.2
8674.5
7435.3
6021.3
4297.5
2974.9
2339.4
2053.4
1942.2
1842.9
1735.7
1644.3
1489.4
1378.2
1267.0
1191.6
1143.9
1100.2
1084.3
1040.6
1000.9
949.3
877.8
822.2
742.7
675.2
595.8
540.2
484.6
436.9
377.3
305.8
230.4
147.0
67.5
0.0
0.0

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