

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: P575010

Luminaire Tested: **EPH-VN-04-735-U-SL3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575010  
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-SL3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

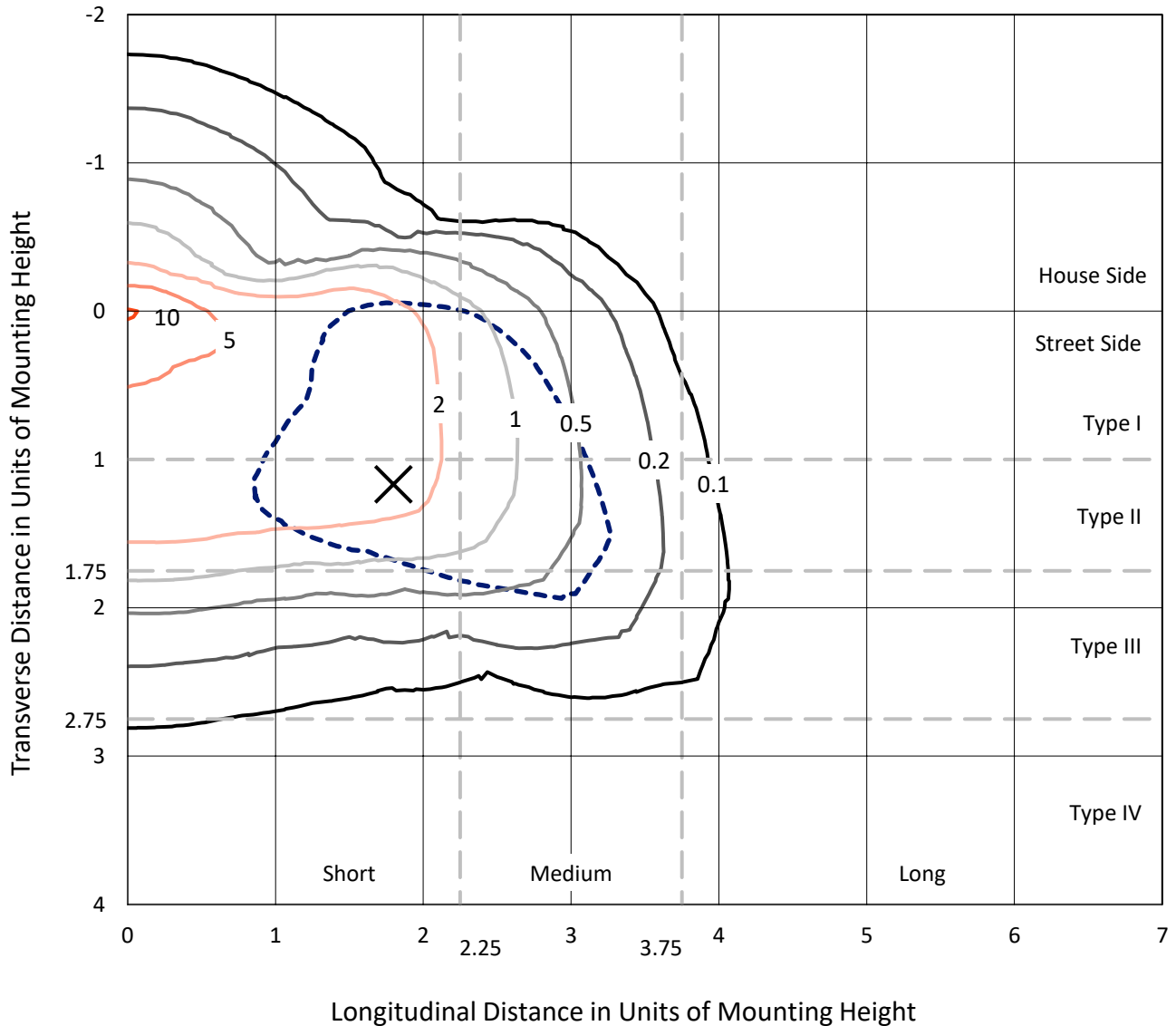
Lumens per Lamp: N/A  
Luminaire Lumens: 34037.6 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

REPORT NUMBER: P575010  
 CATALOG NUMBER: EPH-VN-04-735-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

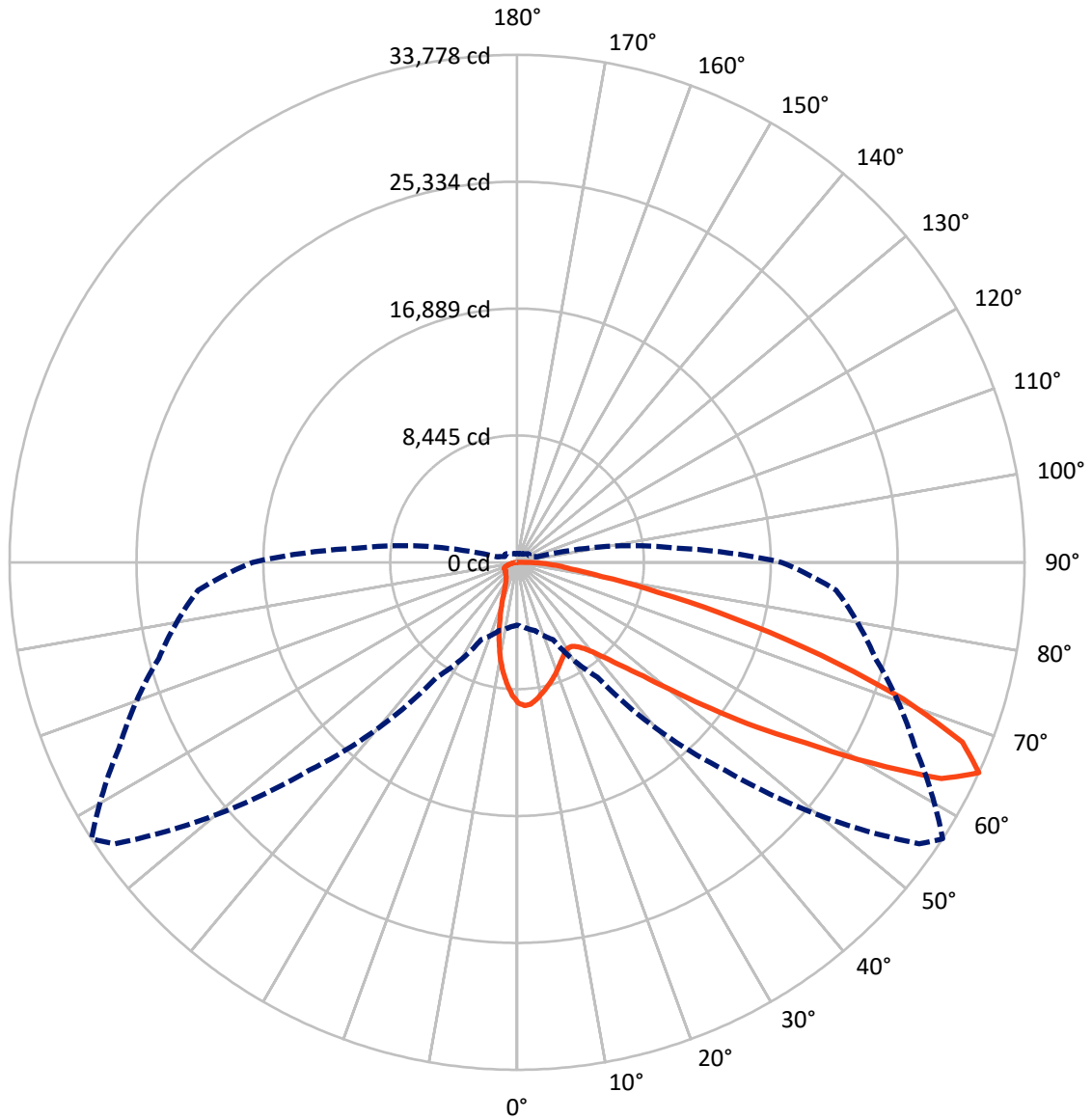
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P575010  
CATALOG NUMBER: EPH-VN-04-735-U-SL3

### Luminous Intensity Polar Plot



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

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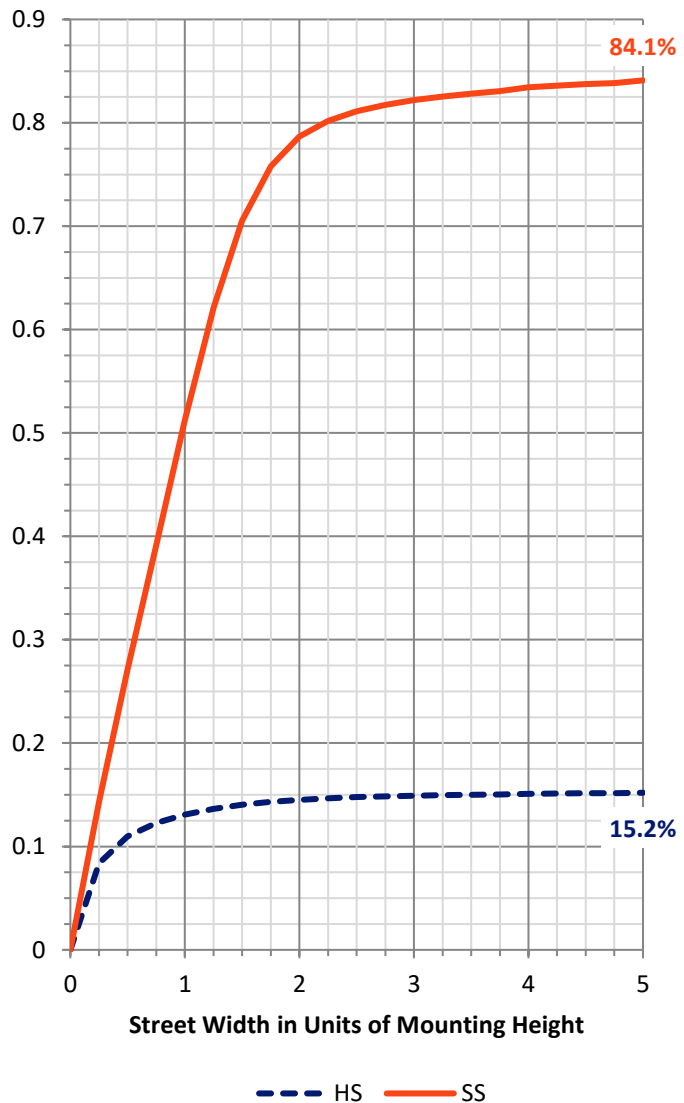
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5220.0	0.0	5220.0
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	28817.6	0.0	28817.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	34037.6	0.0	34037.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.8	2.3
10°-20°	1686.9	5.0
20°-30°	2181.0	6.4
30°-40°	2934.9	8.6
40°-50°	4679.9	13.7
50°-60°	8265.8	24.3
60°-70°	9093.4	26.7
70°-80°	3803.9	11.2
80°-90°	607.9	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°	34037.6	100.0
0°-180°	34037.6	100.0

**Coefficient of Utilization**

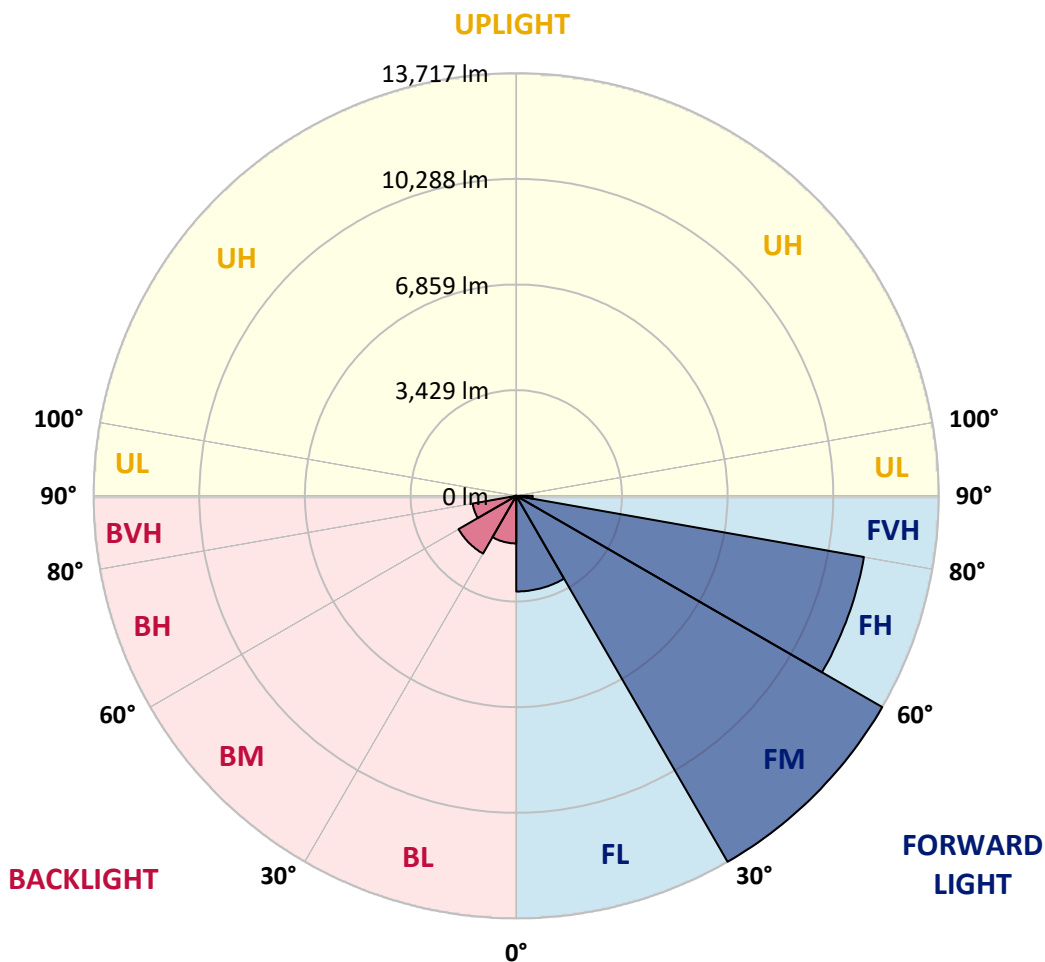


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.8	9.1			
FM (30°-60°)	13717.1	40.3			
FH (60°-80°)	11458.1	33.7			G4/12000
FVH (80°-90°)	536.6	1.6			G4/750
BL (0°-30°)	1545.9	4.5	B3/2500		
BM (30°-60°)	2163.4	6.4	B2/2500		
BH (60°-80°)	1439.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	71.3	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°	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9
2.5°	9612.6	9627.9	9627.9	9658.6	9555.2	9605.0	9597.3	9551.3	9566.7	9486.2
5°	9340.7	9329.2	9390.5	9398.2	9478.6	9501.6	9520.7	9490.1	9497.7	9321.6
7.5°	8643.7	8639.9	8743.3	8831.4	8999.9	9156.9	9260.3	9229.7	9271.8	9160.7
10°	7816.5	7904.6	8011.8	8099.9	8410.1	8609.2	8877.3	8904.1	9065.0	9038.2
12.5°	7196.1	7234.4	7314.8	7567.5	7850.9	8180.3	8563.3	8597.7	8754.8	8831.4
15°	6686.7	6721.2	6824.6	7012.2	7330.1	7720.7	8207.1	8295.2	8609.2	8636.0
17.5°	6315.2	6342.0	6411.0	6598.6	6859.0	7360.7	7820.3	7977.3	8390.9	8521.2
20°	6169.7	6112.3	6150.5	6269.3	6529.7	6916.5	7510.1	7648.0	8176.5	8433.1
22.5°	6104.6	6054.8	6077.8	6070.1	6276.9	6552.7	7176.9	7322.4	7973.5	8329.7
25°	6154.4	6154.4	6131.4	6112.3	6135.2	6315.2	6816.9	7042.9	7701.6	8241.6
27.5°	6422.5	6319.1	6330.5	6250.1	6227.1	6227.1	6656.1	6790.1	7613.5	8191.8
30°	6594.8	6644.6	6648.4	6529.7	6411.0	6196.5	6506.7	6636.9	7540.7	8253.1
32.5°	7035.2	7012.2	6947.1	6924.2	6748.0	6506.7	6579.5	6667.6	7498.6	8390.9
35°	7475.6	7464.1	7468.0	7456.5	7272.7	6916.5	6774.8	6893.5	7575.2	8632.2
37.5°	7931.4	7962.0	8092.2	8092.2	7896.9	7510.1	7322.4	7288.0	7854.8	9026.7
40°	8387.1	8463.7	8628.4	8888.8	8613.1	8253.1	7950.5	7896.9	8191.8	9555.2
42.5°	8823.7	8950.1	9275.6	9662.4	9570.5	9210.5	8808.4	8747.1	8885.0	10340.3
45°	9382.8	9490.1	10003.3	10596.9	10723.2	10405.4	9934.3	9884.5	9876.9	11489.2
47.5°	10233.0	10347.9	10861.1	11458.6	11849.2	11899.0	11370.5	11316.9	11133.0	13040.2
50°	11297.7	11485.4	11918.1	12615.1	13181.9	13714.3	13564.9	13407.9	13047.9	14844.0
52.5°	12075.1	12304.9	12890.9	13783.2	14782.8	15629.1	16165.3	16165.3	15338.1	16824.0
55°	12281.9	12419.8	13159.0	14449.6	16161.5	18302.3	19424.4	19340.1	18064.8	18907.4
57.5°	11458.6	11638.6	12534.7	13886.6	16885.3	20803.1	22660.5	22679.7	21044.4	21327.8
60°	9191.4	9248.8	10305.8	12113.4	16188.3	22817.5	27080.0	27152.8	24433.7	23483.9
62.5°	6353.5	6537.4	7333.9	8919.4	13411.7	22591.6	31342.5	31702.5	27149.0	24621.3
65°	4182.1	4293.1	4718.2	5683.3	9336.9	19581.4	32667.6	33778.2	29224.7	24686.4
67.5°	3033.1	3052.3	3178.7	3676.5	5610.6	14081.9	30404.2	31970.6	30002.1	24142.6
70°	2451.0	2466.3	2512.3	2830.2	3622.9	8812.2	24797.5	27252.4	27669.8	21565.2
72.5°	1991.5	2010.6	2068.1	2366.8	2987.2	4902.1	18133.8	21124.8	22507.3	15954.7
75°	1566.4	1581.7	1719.5	2014.4	2807.2	3366.3	12029.2	14958.9	15146.6	9325.4
77.5°	1072.3	1099.1	1267.6	1708.1	2642.5	2945.1	7498.6	9582.0	8597.7	3649.7
80°	681.7	720.0	819.6	1294.4	2336.1	2811.0	4664.6	5721.6	3764.6	1248.5
82.5°	402.1	440.4	540.0	838.7	1834.4	2608.0	3285.9	3580.8	1765.5	639.6
85°	222.1	248.9	325.5	505.5	1076.2	2317.0	2631.0	2569.7	1011.0	340.8
87.5°	72.8	84.3	118.7	203.0	444.2	1091.5	1577.8	1482.1	524.7	157.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575010

CATALOG NUMBER: EPH-VN-04-735-U-SL3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9359.9	0°	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9	9359.9
9405.8	2.5°	9352.2	9340.7	9168.4	9038.2	8816.0	8632.2	8559.4	8459.9	8456.0	8383.3
9245.0	5°	9126.2	9007.5	8743.3	8490.5	8096.1	7831.8	7590.5	7422.0	7353.1	7203.7
8980.7	7.5°	8835.2	8678.2	8272.2	7797.3	7333.9	6920.3	6545.0	6169.7	5959.1	5886.3
8712.6	10°	8532.6	8256.9	7655.6	7123.3	6476.1	5840.3	5250.6	4722.1	4434.8	4231.9
8548.0	12.5°	8291.4	7923.7	7157.8	6361.2	5507.2	4657.0	3971.4	3416.1	3090.6	2937.4
8333.5	15°	8019.5	7533.1	6613.9	5606.7	4542.1	3577.0	2906.8	2470.2	2340.0	2267.2
8111.4	17.5°	7732.2	7169.3	6024.2	4863.8	3599.9	2692.3	2259.5	2083.4	2025.9	1995.3
7900.7	20°	7464.1	6843.7	5419.1	4036.5	2818.7	2160.0	1957.0	1865.1	1861.2	1876.6
7713.1	22.5°	7085.0	6418.6	4821.6	3270.6	2251.9	1880.4	1750.2	1727.2	1750.2	1769.3
7521.6	25°	6870.5	6070.1	4155.3	2596.6	1861.2	1669.8	1627.6	1620.0	1654.4	1677.4
7364.6	27.5°	6648.4	5710.1	3534.8	2079.5	1631.5	1520.4	1512.7	1520.4	1554.9	1589.3
7272.7	30°	6476.1	5422.9	2952.7	1738.7	1455.3	1413.2	1405.5	1413.2	1432.3	1436.1
7299.5	32.5°	6334.4	5082.1	2458.7	1508.9	1348.1	1313.6	1321.3	1317.4	1321.3	1325.1
7391.4	35°	6250.1	4879.1	2052.7	1367.2	1260.0	1233.2	1229.3	1217.9	1221.7	1225.5
7609.7	37.5°	6430.1	4779.5	1731.0	1267.6	1198.7	1175.7	1168.1	1160.4	1148.9	1148.9
8134.3	40°	6702.0	4725.9	1535.7	1202.5	1152.7	1125.9	1103.0	1095.3	1095.3	1099.1
8865.8	42.5°	7242.0	4814.0	1401.7	1152.7	1095.3	1064.7	1041.7	1045.5	1057.0	1068.5
9873.0	45°	8023.3	5082.1	1340.4	1114.5	1060.8	1018.7	1003.4	999.6	1011.0	1030.2
11347.5	47.5°	9045.8	5499.5	1317.4	1080.0	1037.9	980.4	961.3	972.8	988.1	1014.9
13216.4	50°	10719.4	6437.8	1336.6	1049.3	1003.4	961.3	938.3	926.8	938.3	957.4
15464.5	52.5°	12906.2	8142.0	1409.3	1034.0	980.4	945.9	907.6	888.5	900.0	915.3
18080.2	55°	15521.9	10470.5	1612.3	1014.9	942.1	923.0	880.8	842.5	850.2	850.2
20661.4	57.5°	17827.4	12228.3	1853.6	988.1	919.1	892.3	838.7	792.8	785.1	788.9
21975.0	60°	18861.4	12695.6	1968.5	980.4	919.1	854.0	781.3	735.3	723.8	716.2
22181.8	62.5°	18681.4	11887.5	1734.9	945.9	942.1	823.4	727.6	677.9	662.5	647.2
21316.3	65°	17593.8	10734.7	1367.2	900.0	945.9	804.2	674.0	624.2	597.4	578.3
19286.5	67.5°	15606.2	9164.5	1083.8	865.5	907.6	769.8	628.1	570.6	547.7	528.5
15533.4	70°	12209.2	7184.6	942.1	819.6	815.7	685.5	574.5	524.7	490.2	467.2
10325.0	72.5°	7916.1	4542.1	808.1	727.6	704.7	574.5	497.9	467.2	440.4	421.3
4833.1	75°	3584.6	2110.2	651.1	608.9	574.5	459.6	421.3	406.0	383.0	363.8
1662.1	77.5°	1286.8	900.0	486.4	478.7	428.9	356.2	340.8	329.4	314.0	294.9
800.4	80°	720.0	570.6	363.8	348.5	298.7	264.3	245.1	245.1	237.4	226.0
482.5	82.5°	455.7	371.5	268.1	233.6	195.3	176.2	168.5	164.7	160.8	145.5
302.5	85°	287.2	252.8	176.2	137.9	114.9	88.1	84.3	80.4	72.8	65.1
118.7	87.5°	130.2	145.5	68.9	42.1	30.6	19.1	11.5	3.8	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°
9359.9
8364.1
7169.3
5805.9
4143.8
2868.5
2255.7
1980.0
1872.7
1777.0
1673.6
1585.5
1436.1
1328.9
1221.7
1148.9
1103.0
1060.8
1045.5
1003.4
965.1
915.3
846.4
792.8
716.2
651.1
574.5
520.8
467.2
421.3
363.8
294.9
222.1
141.7
65.1
0.0
0.0

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