

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: P575053

Luminaire Tested: **EPH-VN-07-735-U-SL4**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575053  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-735-U-SL4  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

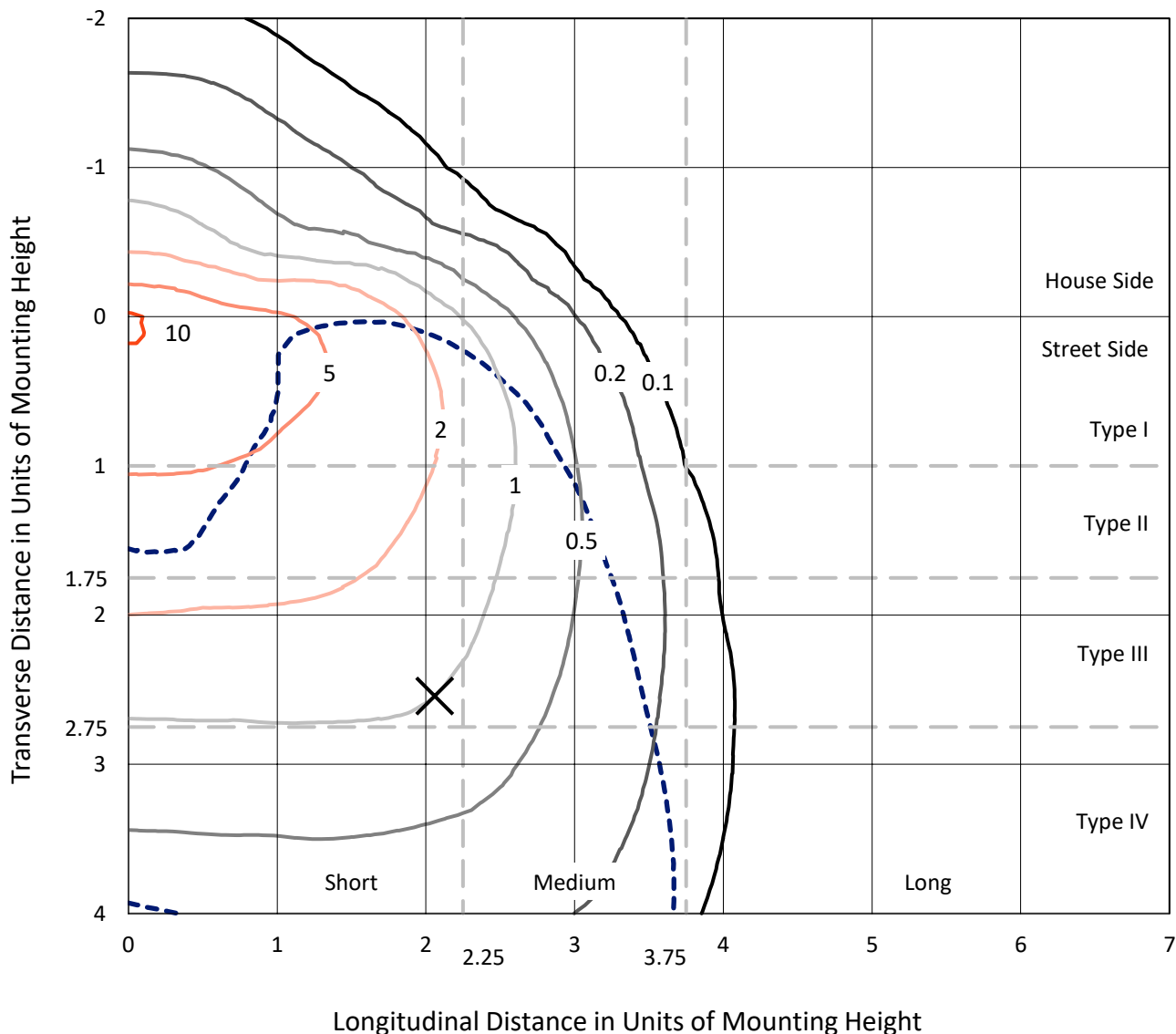
Lumens per Lamp: N/A  
Luminaire Lumens: 53856.3 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7  
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

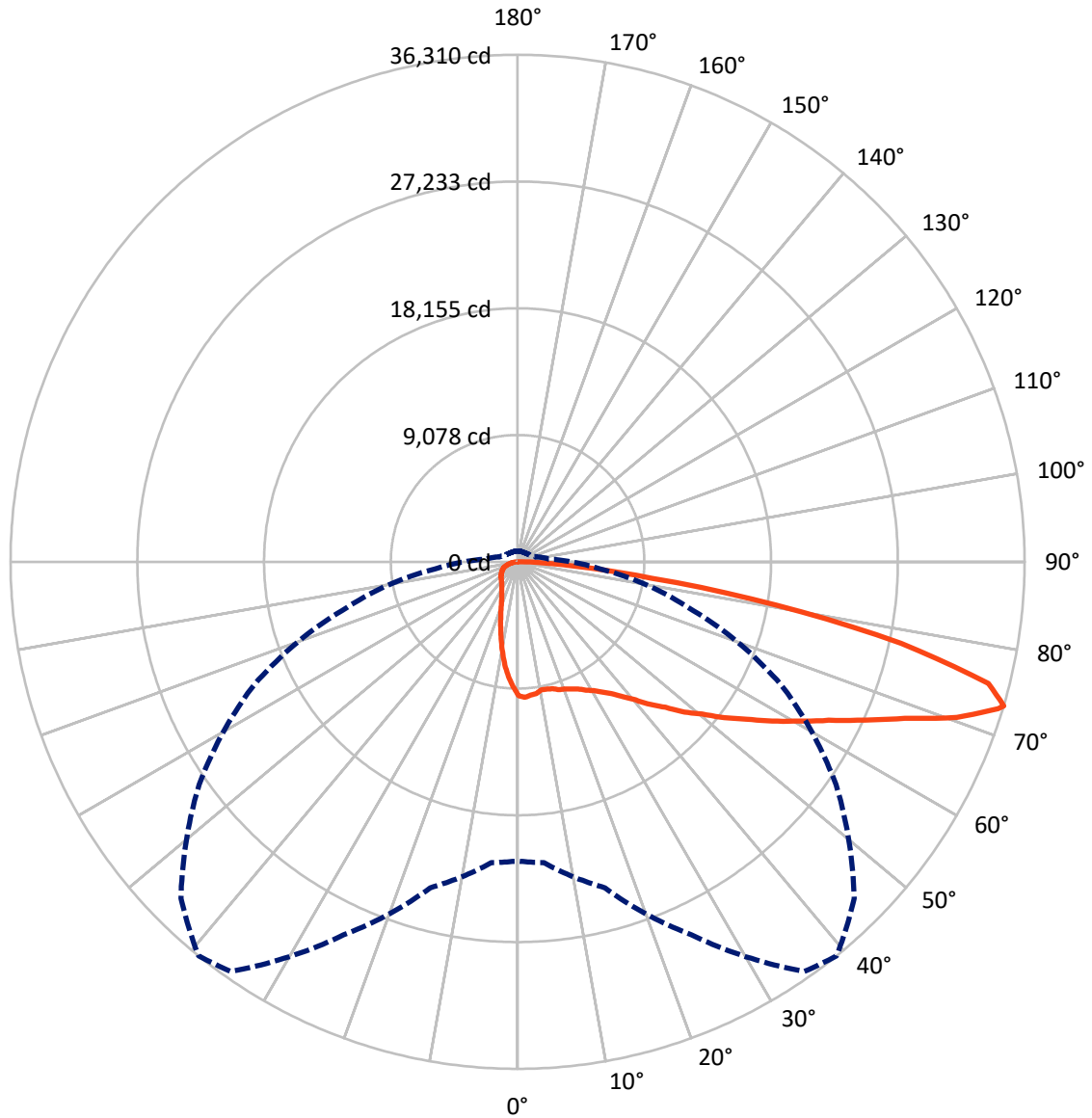
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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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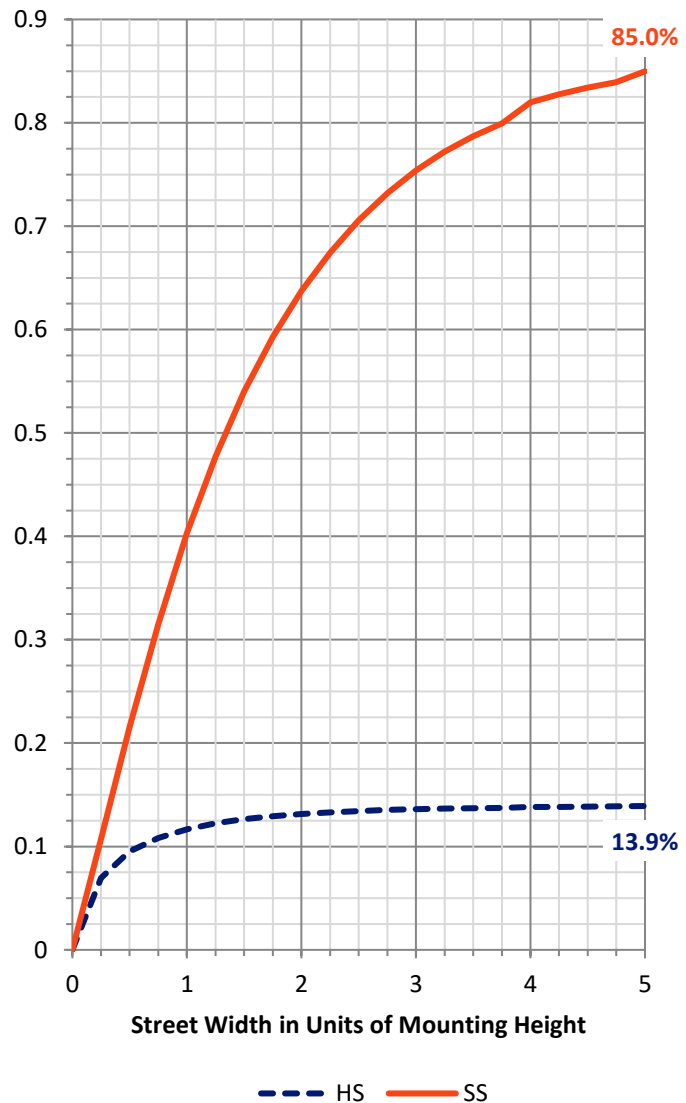
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7570.7	0.0	7570.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	46285.6	0.0	46285.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	53856.3	0.0	53856.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.2	1.5
10°-20°	2115.6	3.9
20°-30°	3232.8	6.0
30°-40°	4713.6	8.8
40°-50°	7122.7	13.2
50°-60°	10314.1	19.2
60°-70°	13104.6	24.3
70°-80°	10623.3	19.7
80°-90°	1797.4	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°	53856.3	100.0
0°-180°	53856.3	100.0

**Coefficient of Utilization**

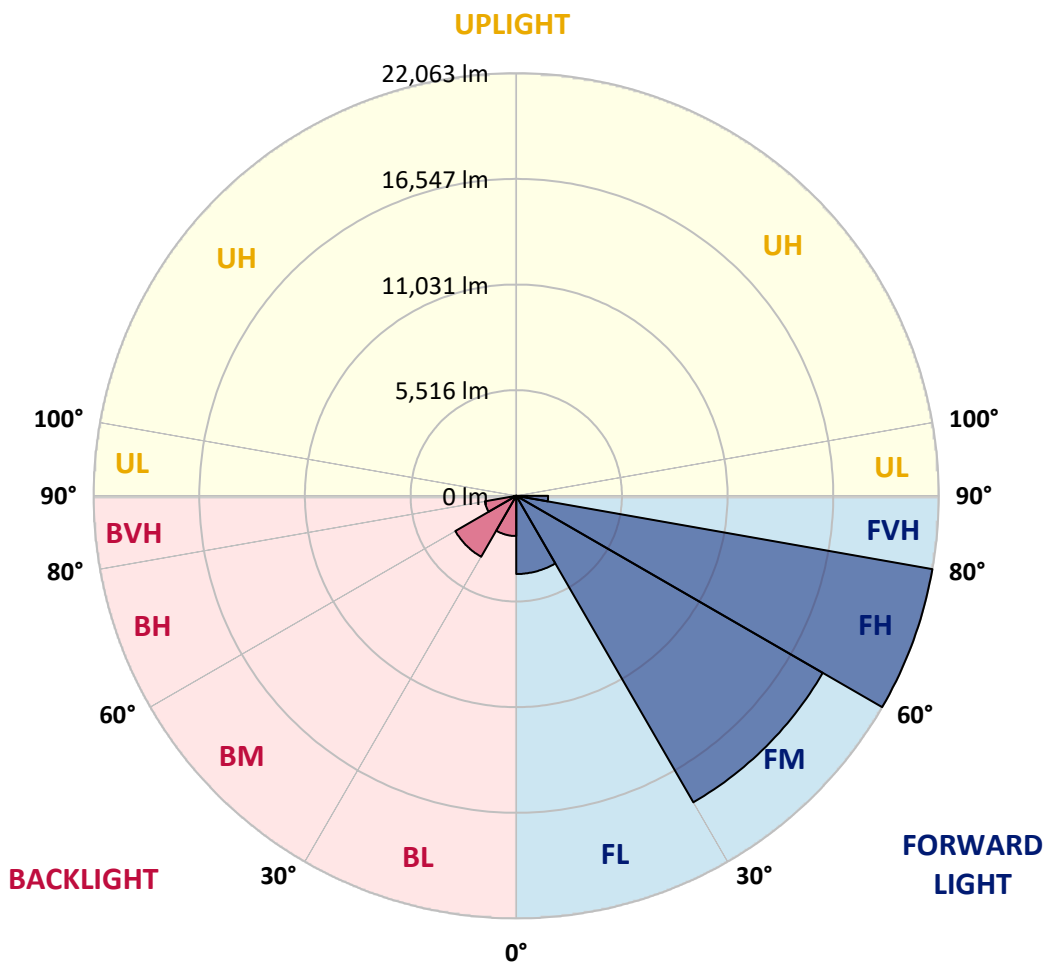


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4081.1	7.6			
FM (30°-60°)	18476.2	34.3			
FH (60°-80°)	22062.8	41.0			G5
FVH (80°-90°)	1665.5	3.1			G5
BL (0°-30°)	2099.5	3.9	B3/2500		
BM (30°-60°)	3674.2	6.8	B3/5000		
BH (60°-80°)	1665.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	131.9	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°	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7
2.5°	9815.7	9713.3	9731.4	9695.2	9731.4	9719.3	9701.2	9610.8	9701.2	9610.8
5°	9683.2	9683.2	9743.4	9653.0	9665.1	9604.8	9665.1	9598.8	9538.5	9387.9
7.5°	9641.0	9634.9	9641.0	9514.4	9574.7	9538.5	9478.3	9406.0	9285.5	9189.1
10°	9351.7	9412.0	9345.7	9381.9	9430.1	9321.6	9315.6	9297.5	9243.3	9116.7
12.5°	9195.1	9297.5	9333.7	9303.5	9345.7	9357.8	9321.6	9297.5	9231.2	9146.9
15°	9261.4	9140.8	9243.3	9442.1	9399.9	9430.1	9436.1	9412.0	9381.9	9225.2
17.5°	9279.4	9207.1	9424.1	9466.2	9520.5	9628.9	9556.6	9550.6	9436.1	9327.6
20°	9321.6	9291.5	9466.2	9689.2	9695.2	9713.3	9749.4	9659.0	9598.8	9412.0
22.5°	9478.3	9580.7	9743.4	9839.8	9894.0	9906.1	9906.1	9725.3	9659.0	9508.4
25°	9948.3	9839.8	10068.8	10183.3	10104.9	10086.9	10044.7	9882.0	9809.7	9677.1
27.5°	10291.7	10285.7	10418.3	10574.9	10364.0	10406.2	10255.6	10207.4	10044.7	9972.4
30°	10761.7	10894.3	10888.3	10936.5	10659.3	10707.5	10514.7	10424.3	10333.9	10376.1
32.5°	11364.3	11316.1	11394.4	11358.3	11081.1	11123.3	10894.3	10755.7	10785.8	10912.4
35°	11749.9	11701.7	11731.9	11731.9	11647.5	11599.3	11502.9	11322.1	11466.7	11701.7
37.5°	12165.7	12226.0	12400.7	12364.5	12256.1	12256.1	12244.0	12117.5	12304.3	12882.8
40°	12533.3	12696.0	12804.4	12876.7	13003.3	13003.3	13105.7	13033.4	13370.8	14298.8
42.5°	12918.9	12924.9	13515.4	13569.7	13852.9	13973.4	14051.7	14112.0	14744.7	15781.1
45°	13413.0	13443.1	13961.3	14377.1	14817.0	14859.1	15154.4	15353.2	16130.6	17402.0
47.5°	14063.8	14027.6	14582.0	15244.8	15793.1	16082.3	16437.9	16654.8	17612.9	19161.4
50°	14919.4	14810.9	15130.3	16172.7	16817.5	17136.8	17769.5	18131.1	19251.8	20842.6
52.5°	15961.8	15781.1	16034.1	17173.0	17896.1	18540.8	19143.4	19547.1	20716.0	22144.1
55°	17064.5	16690.9	16763.2	18233.5	19275.9	19884.5	20710.0	21131.8	22324.9	23313.1
57.5°	18155.2	17920.2	17775.5	19251.8	20920.9	21505.4	22264.6	22813.0	23825.3	24349.5
60°	19071.1	19010.8	18775.8	20830.5	22662.3	23162.4	23957.8	24295.3	25060.5	25307.6
62.5°	19824.3	19619.4	19993.0	22101.9	24433.8	25000.2	25874.0	25904.1	26446.4	25904.1
65°	20414.8	20426.8	21023.3	23638.5	26482.5	27320.1	28025.1	27946.8	27597.3	25548.6
67.5°	20951.0	21180.0	22053.7	25325.6	29115.7	29905.1	30688.4	29652.0	27910.6	23885.5
70°	21372.8	21601.8	23445.6	27380.4	32218.9	33375.8	33550.6	30326.9	26470.5	20234.0
72.5°	21324.6	21740.4	24235.0	29019.3	34972.6	35972.9	34562.9	28428.8	22053.7	14105.9
73°	21427.1	21631.9	24168.7	29477.3	35810.2	36310.3	34092.9	27832.3	20800.4	12653.8
75°	19450.7	20143.6	22969.6	28730.1	34912.4	34822.0	31393.4	23192.6	14786.8	6646.2
77.5°	14389.2	14829.0	18100.9	23626.4	28657.8	28079.3	23680.6	14823.0	7019.8	2464.5
80°	7031.9	7375.3	9592.8	13642.0	18739.6	18787.8	14696.5	7712.8	3006.8	1391.9
82.5°	3512.9	3717.8	4609.6	5995.5	9219.2	9659.0	7453.7	4386.6	1861.9	789.4
85°	2295.8	2440.4	2838.1	2934.5	3910.6	4127.5	3470.8	3422.5	1211.1	427.8
87.5°	1524.5	1548.6	1741.4	1482.3	1566.7	1506.4	1675.1	2157.2	355.5	180.8
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°
9586.7	0°	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7	9586.7
9586.7	2.5°	9556.6	9472.3	9381.9	9255.3	9165.0	9026.4	8899.8	8845.6	8833.5	8839.6
9345.7	5°	9309.6	9189.1	9008.3	8749.2	8598.5	8369.6	8176.8	8074.3	7965.9	7983.9
9050.5	7.5°	8966.1	8833.5	8556.4	8255.1	7881.5	7556.1	7375.3	7122.3	6977.7	6869.2
9032.4	10°	8857.6	8628.7	8212.9	7797.1	7218.7	6790.9	6375.1	6085.9	5887.0	5694.2
8905.8	12.5°	8803.4	8574.4	7996.0	7381.4	6634.2	5983.4	5398.9	5043.4	4760.2	4591.5
9068.5	15°	8755.2	8472.0	7791.1	6923.4	6085.9	5230.2	4573.4	4103.4	3832.3	3669.6
9098.7	17.5°	8821.5	8417.8	7489.8	6477.5	5483.3	4567.4	3838.3	3350.2	3073.1	2970.6
9062.5	20°	8755.2	8357.5	7194.6	6031.6	4880.7	3934.7	3235.8	2832.0	2639.2	2554.9
9231.2	22.5°	8779.3	8212.9	6887.3	5537.5	4320.4	3404.5	2832.0	2524.7	2374.1	2331.9
9309.6	25°	8893.8	8128.5	6580.0	4995.2	3766.0	3012.8	2572.9	2337.9	2229.5	2187.3
9448.2	27.5°	8978.2	8200.9	6302.8	4483.1	3296.0	2663.3	2356.0	2199.3	2127.0	2096.9
9857.9	30°	9189.1	8243.0	6031.6	4025.1	2910.4	2434.3	2205.4	2078.8	2030.6	2012.6
10418.3	32.5°	9502.4	8321.4	5718.3	3603.3	2627.2	2217.4	2084.9	1976.4	1964.3	1946.3
11044.9	35°	10014.6	8592.5	5368.8	3241.8	2356.0	2072.8	1958.3	1886.0	1886.0	1886.0
12045.2	37.5°	10749.7	8972.1	5055.5	2898.3	2181.3	1946.3	1849.9	1825.8	1813.7	1831.8
13268.4	40°	11695.7	9430.1	4802.4	2627.2	2030.6	1861.9	1777.6	1765.5	1759.5	1753.5
14575.9	42.5°	12732.1	10014.6	4585.5	2416.3	1922.2	1771.5	1711.3	1699.2	1675.1	1687.2
15998.0	45°	13762.5	10737.6	4392.7	2247.6	1849.9	1723.3	1639.0	1632.9	1620.9	1614.9
17552.6	47.5°	14907.4	11448.7	4332.4	2145.1	1795.6	1651.0	1590.8	1584.7	1548.6	1542.6
18619.1	50°	15799.1	11972.9	4398.7	2096.9	1717.3	1596.8	1554.6	1524.5	1494.4	1464.2
19408.5	52.5°	16413.8	12334.4	4446.9	2060.8	1675.1	1524.5	1470.2	1458.2	1428.1	1397.9
20197.8	55°	16968.1	12551.3	4459.0	2066.8	1632.9	1440.1	1404.0	1397.9	1379.9	1331.7
20866.7	57.5°	17154.9	12461.0	4217.9	2012.6	1608.8	1385.9	1337.7	1349.7	1325.6	1283.5
20878.7	60°	17136.8	11834.3	3669.6	1940.2	1554.6	1325.6	1265.4	1301.5	1301.5	1253.3
20264.1	62.5°	16094.4	10388.1	3000.8	1801.7	1494.4	1265.4	1199.1	1253.3	1271.4	1241.3
18811.9	65°	13931.2	8460.0	2506.7	1663.1	1404.0	1199.1	1132.8	1193.1	1223.2	1211.1
15973.9	67.5°	11527.0	6471.5	2084.9	1482.3	1289.5	1108.7	1054.5	1096.7	1114.7	1120.8
12051.2	70°	8146.6	4308.3	1741.4	1283.5	1132.8	1012.3	952.0	958.1	952.0	970.1
7031.9	72.5°	4428.8	2482.6	1416.0	1090.6	976.1	879.7	837.6	807.4	807.4	801.4
5947.3	73°	3790.1	2229.5	1349.7	1060.5	934.0	855.6	807.4	783.3	783.3	777.3
2880.2	75°	2127.0	1632.9	1156.9	909.9	807.4	747.2	711.0	674.9	668.8	668.8
1554.6	77.5°	1397.9	1271.4	921.9	729.1	650.8	596.5	584.5	548.3	548.3	548.3
1060.5	80°	1048.5	1000.3	711.0	554.4	500.1	457.9	445.9	421.8	415.8	391.7
602.6	82.5°	699.0	789.4	518.2	391.7	337.4	313.3	313.3	307.3	289.2	259.1
488.1	85°	554.4	644.7	373.6	241.0	198.8	168.7	174.7	168.7	162.7	132.6
132.6	87.5°	102.4	259.1	108.5	66.3	48.2	30.1	30.1	18.1	12.1	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





<u>180°</u>
9586.7
8779.3
7935.7
6929.4
5778.6
4657.8
3687.7
2946.5
2536.8
2344.0
2199.3
2090.9
2006.5
1952.3
1904.1
1843.8
1765.5
1705.2
1645.0
1566.7
1464.2
1385.9
1319.6
1277.4
1247.3
1235.2
1205.1
1126.8
970.1
801.4
771.3
668.8
542.3
397.7
259.1
126.5
0.0
0.0

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