

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: EPHEBUS

Report Number: P575066

Luminaire Tested: **EPH-VN-08-750-U-SL4**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575066  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-750-U-SL4  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

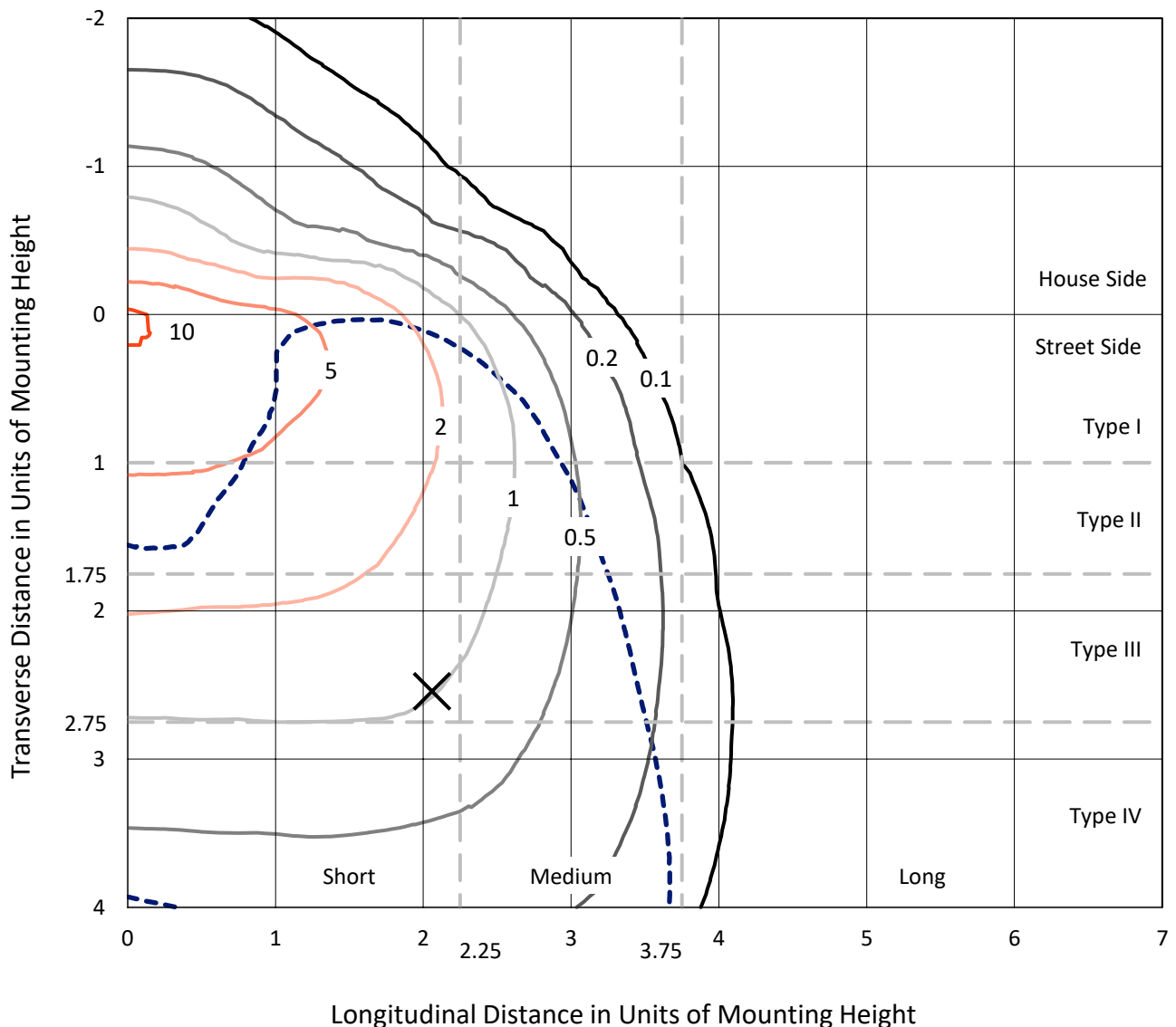
Lumens per Lamp: N/A  
Luminaire Lumens: 55158.4 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

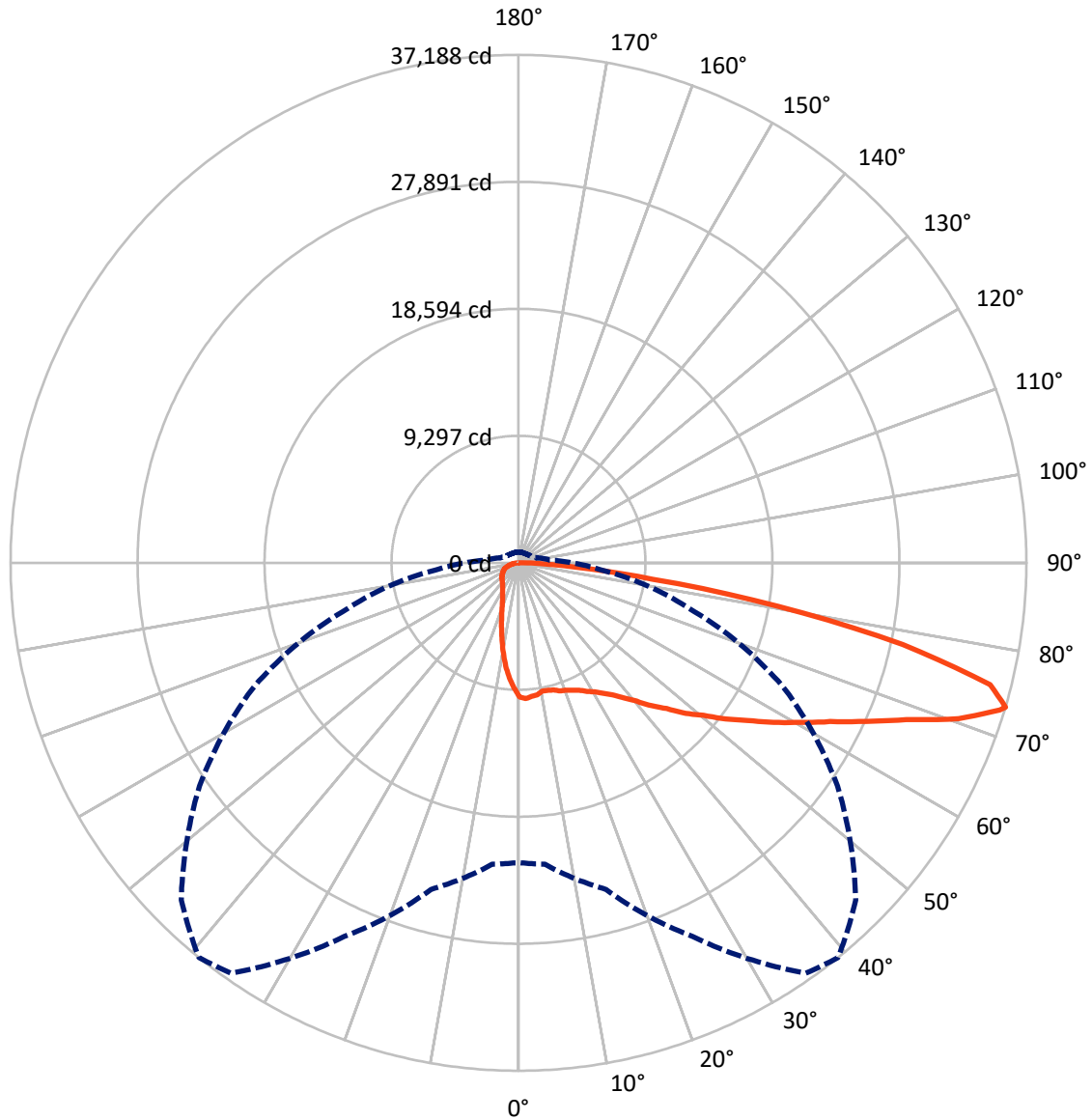
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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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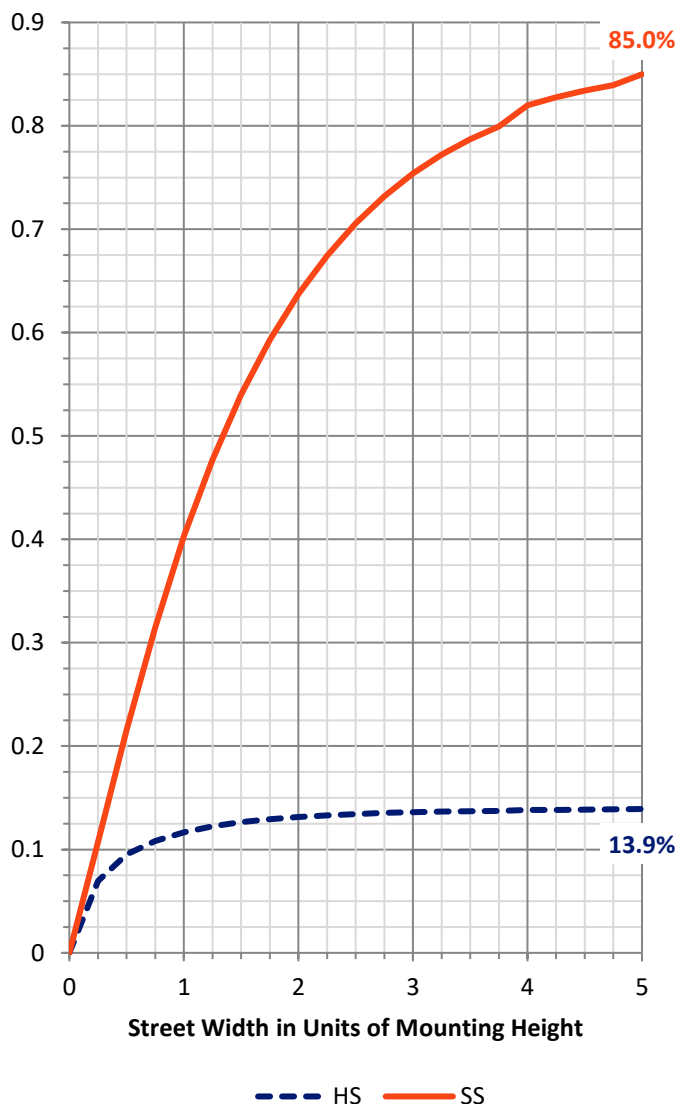
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7753.7	0.0	7753.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	47404.7	0.0	47404.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	55158.4	0.0	55158.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.3	1.5
10°-20°	2166.7	3.9
20°-30°	3311.0	6.0
30°-40°	4827.5	8.8
40°-50°	7294.9	13.2
50°-60°	10563.5	19.2
60°-70°	13421.4	24.3
70°-80°	10880.1	19.7
80°-90°	1840.9	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°	55158.4	100.0
0°-180°	55158.4	100.0

**Coefficient of Utilization**

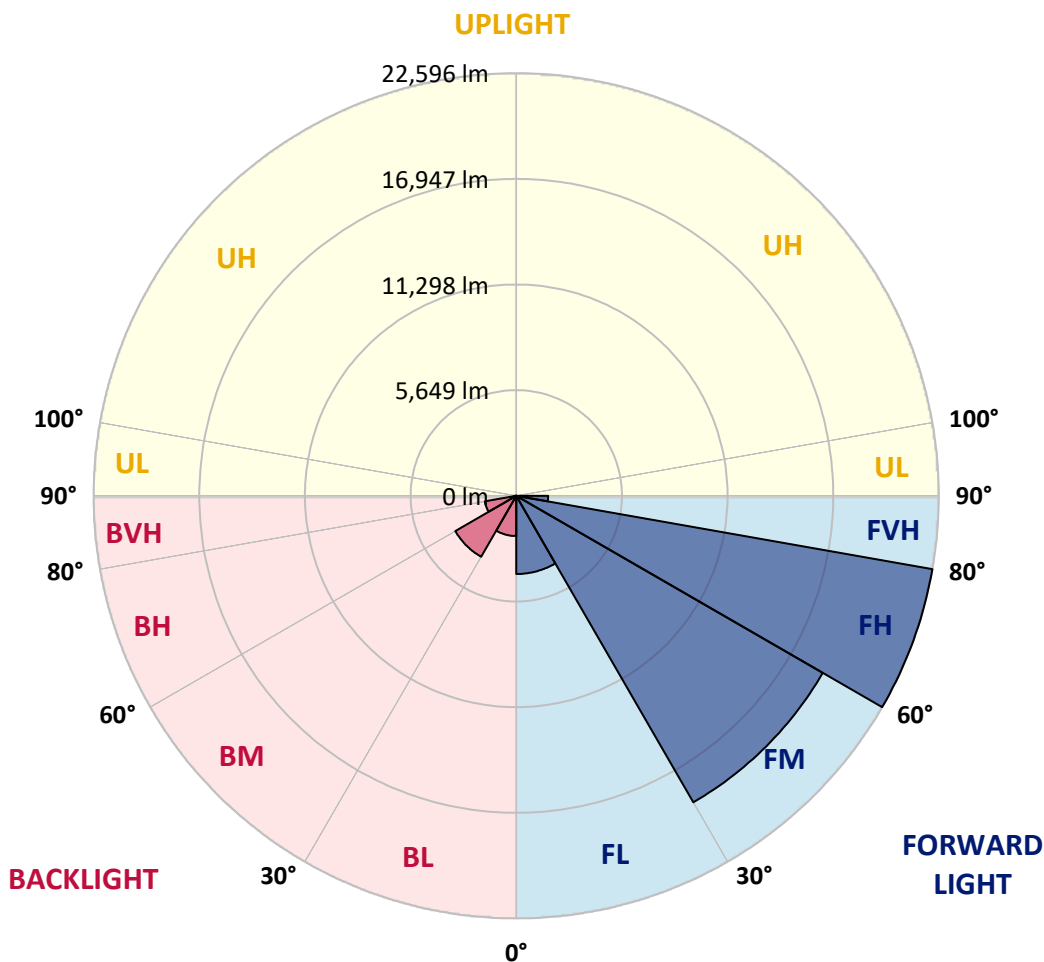


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4179.8	7.6			
FM (30°-60°)	18922.9	34.3			
FH (60°-80°)	22596.2	41.0			G5
FVH (80°-90°)	1705.8	3.1			G5
BL (0°-30°)	2150.3	3.9	B3/2500		
BM (30°-60°)	3763.1	6.8	B3/5000		
BH (60°-80°)	1705.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	135.1	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°	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5
2.5°	10053.0	9948.1	9966.6	9929.6	9966.6	9954.3	9935.8	9843.2	9935.8	9843.2
5°	9917.3	9917.3	9979.0	9886.4	9898.8	9837.1	9898.8	9830.9	9769.2	9614.9
7.5°	9874.1	9867.9	9874.1	9744.5	9806.2	9769.2	9707.5	9633.4	9510.0	9411.2
10°	9577.9	9639.6	9571.7	9608.7	9658.1	9547.0	9540.8	9522.3	9466.8	9337.2
12.5°	9417.4	9522.3	9559.3	9528.5	9571.7	9584.0	9547.0	9522.3	9454.4	9368.0
15°	9485.3	9361.9	9466.8	9670.4	9627.2	9658.1	9664.3	9639.6	9608.7	9448.3
17.5°	9503.8	9429.7	9651.9	9695.1	9750.7	9861.7	9787.7	9781.5	9664.3	9553.2
20°	9547.0	9516.1	9695.1	9923.4	9929.6	9948.1	9985.2	9892.6	9830.9	9639.6
22.5°	9707.5	9812.4	9979.0	10077.7	10133.3	10145.6	10145.6	9960.5	9892.6	9738.3
25°	10188.8	10077.7	10312.2	10429.5	10349.3	10330.8	10287.6	10120.9	10046.9	9911.1
27.5°	10540.6	10534.4	10670.2	10830.6	10614.6	10657.8	10503.6	10454.2	10287.6	10213.5
30°	11021.9	11157.7	11151.5	11200.9	10917.0	10966.4	10768.9	10676.3	10583.8	10627.0
32.5°	11639.1	11589.7	11669.9	11632.9	11349.0	11392.2	11157.7	11015.8	11046.6	11176.2
35°	12034.0	11984.7	12015.5	12015.5	11929.1	11879.8	11781.0	11595.9	11744.0	11984.7
37.5°	12459.9	12521.6	12700.5	12663.5	12552.4	12552.4	12540.1	12410.5	12601.8	13194.2
40°	12836.3	13002.9	13114.0	13188.1	13317.7	13317.7	13422.6	13348.5	13694.1	14644.5
42.5°	13231.3	13237.4	13842.2	13897.8	14187.8	14311.2	14391.5	14453.2	15101.2	16162.6
45°	13737.3	13768.2	14298.9	14724.7	15175.2	15218.4	15520.8	15724.5	16520.6	17822.7
47.5°	14403.8	14366.8	14934.5	15613.4	16175.0	16471.2	16835.3	17057.5	18038.7	19624.7
50°	15280.1	15169.1	15496.1	16563.8	17224.1	17551.2	18199.2	18569.4	19717.3	21346.5
52.5°	16347.8	16162.6	16421.8	17588.2	18328.8	18989.1	19606.2	20019.7	21216.9	22679.5
55°	17477.1	17094.5	17168.6	18674.4	19742.0	20365.3	21210.8	21642.7	22864.7	23876.8
57.5°	18594.1	18353.4	18205.3	19717.3	21426.8	22025.4	22802.9	23364.5	24401.3	24938.2
60°	19532.2	19470.4	19229.8	21334.2	23210.3	23722.5	24537.1	24882.7	25666.4	25919.5
62.5°	20303.6	20093.7	20476.4	22636.3	25024.6	25604.7	26499.6	26530.4	27085.8	26530.4
65°	20908.4	20920.7	21531.7	24210.0	27122.9	27980.7	28702.7	28622.5	28264.5	26166.3
67.5°	21457.6	21692.1	22587.0	25938.0	29819.7	30628.2	31430.4	30369.0	28585.5	24463.0
70°	21889.6	22124.1	24012.5	28042.4	32997.9	34182.8	34361.8	31060.1	27110.5	20723.2
72.5°	21840.2	22266.0	24821.0	29721.0	35818.2	36842.7	35398.6	29116.2	22587.0	14447.0
73°	21945.1	22155.0	24753.1	30190.0	36676.0	37188.2	34917.2	28505.2	21303.3	12959.7
75°	19921.0	20630.7	23525.0	29424.8	35756.5	35663.9	32152.5	23753.3	15144.4	6806.9
77.5°	14737.1	15187.6	18538.6	24197.7	29350.7	28758.3	24253.2	15181.4	7189.6	2524.1
80°	7201.9	7553.7	9824.7	13971.8	19192.7	19242.1	15051.8	7899.3	3079.5	1425.6
82.5°	3597.9	3807.7	4721.0	6140.4	9442.1	9892.6	7633.9	4492.7	1906.9	808.4
85°	2351.3	2499.4	2906.7	3005.4	4005.2	4227.3	3554.7	3505.3	1240.4	438.2
87.5°	1561.3	1586.0	1783.5	1518.1	1604.5	1542.8	1715.6	2209.3	364.1	185.1
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°
9818.5	0°	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5	9818.5
9818.5	2.5°	9787.7	9701.3	9608.7	9479.1	9386.5	9244.6	9115.0	9059.5	9047.1	9053.3
9571.7	5°	9534.7	9411.2	9226.1	8960.7	8806.4	8571.9	8374.5	8269.5	8158.5	8177.0
9269.3	7.5°	9182.9	9047.1	8763.2	8454.7	8072.1	7738.8	7553.7	7294.5	7146.4	7035.3
9250.8	10°	9071.8	8837.3	8411.5	7985.7	7393.2	6955.1	6529.2	6233.0	6029.4	5831.9
9121.2	12.5°	9016.3	8781.8	8189.3	7559.8	6794.6	6128.1	5529.5	5165.4	4875.3	4702.5
9287.8	15°	8966.9	8676.8	7979.5	7090.8	6233.0	5356.7	4684.0	4202.7	3924.9	3758.3
9318.7	17.5°	9034.8	8621.3	7670.9	6634.1	5615.9	4677.8	3931.1	3431.2	3147.4	3042.5
9281.6	20°	8966.9	8559.6	7368.5	6177.5	4998.8	4029.9	3314.0	2900.5	2703.0	2616.6
9454.4	22.5°	8991.6	8411.5	7053.8	5671.4	4424.8	3486.8	2900.5	2585.8	2431.5	2388.3
9534.7	25°	9108.8	8325.1	6739.1	5116.0	3857.1	3085.6	2635.1	2394.5	2283.4	2240.2
9676.6	27.5°	9195.2	8399.1	6455.2	4591.4	3375.7	2727.7	2413.0	2252.5	2178.5	2147.6
10096.2	30°	9411.2	8442.3	6177.5	4122.4	2980.7	2493.2	2258.7	2129.1	2079.7	2061.2
10670.2	32.5°	9732.1	8522.6	5856.6	3690.4	2690.7	2271.0	2135.3	2024.2	2011.8	1993.3
11312.0	35°	10256.7	8800.3	5498.6	3320.2	2413.0	2122.9	2005.7	1931.6	1931.6	1931.6
12336.4	37.5°	11009.6	9189.1	5177.7	2968.4	2234.0	1993.3	1894.6	1869.9	1857.6	1876.1
13589.2	40°	11978.5	9658.1	4918.5	2690.7	2079.7	1906.9	1820.5	1808.2	1802.0	1795.8
14928.4	42.5°	13040.0	10256.7	4696.4	2474.7	1968.6	1814.4	1752.6	1740.3	1715.6	1728.0
16384.8	45°	14095.2	10997.3	4498.9	2301.9	1894.6	1765.0	1678.6	1672.4	1660.1	1653.9
17977.0	47.5°	15267.8	11725.5	4437.2	2197.0	1839.0	1690.9	1629.2	1623.1	1586.0	1579.9
19069.3	50°	16181.1	12262.4	4505.0	2147.6	1758.8	1635.4	1592.2	1561.3	1530.5	1499.6
19877.8	52.5°	16810.6	12632.6	4554.4	2110.6	1715.6	1561.3	1505.8	1493.5	1462.6	1431.7
20686.2	55°	17378.4	12854.8	4566.8	2116.8	1672.4	1474.9	1437.9	1431.7	1413.2	1363.9
21371.2	57.5°	17569.7	12762.2	4319.9	2061.2	1647.7	1419.4	1370.0	1382.4	1357.7	1314.5
21383.6	60°	17551.2	12120.4	3758.3	1987.2	1592.2	1357.7	1296.0	1333.0	1333.0	1283.6
20754.1	62.5°	16483.5	10639.3	3073.3	1845.2	1530.5	1296.0	1228.1	1283.6	1302.1	1271.3
19266.8	65°	14268.0	8664.5	2567.3	1703.3	1437.9	1228.1	1160.2	1221.9	1252.8	1240.4
16360.1	67.5°	11805.7	6628.0	2135.3	1518.1	1320.7	1135.5	1080.0	1123.2	1141.7	1147.9
12342.6	70°	8343.6	4412.5	1783.5	1314.5	1160.2	1036.8	975.1	981.2	975.1	993.6
7201.9	72.5°	4535.9	2542.6	1450.3	1117.0	999.8	901.0	857.8	827.0	827.0	820.8
6091.1	73°	3881.7	2283.4	1382.4	1086.1	956.6	876.3	827.0	802.3	802.3	796.1
2949.9	75°	2178.5	1672.4	1184.9	931.9	827.0	765.2	728.2	691.2	685.0	685.0
1592.2	77.5°	1431.7	1302.1	944.2	746.7	666.5	611.0	598.6	561.6	561.6	561.6
1086.1	80°	1073.8	1024.4	728.2	567.8	512.2	469.0	456.7	432.0	425.8	401.1
617.1	82.5°	715.9	808.4	530.7	401.1	345.6	320.9	320.9	314.7	296.2	265.4
499.9	85°	567.8	660.3	382.6	246.9	203.7	172.8	179.0	172.8	166.6	135.8
135.8	87.5°	104.9	265.4	111.1	67.9	49.4	30.9	30.9	18.5	12.3	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>
9818.5
8991.6
8127.6
7097.0
5918.3
4770.4
3776.8
3017.8
2598.1
2400.6
2252.5
2141.4
2055.0
1999.5
1950.1
1888.4
1808.2
1746.5
1684.8
1604.5
1499.6
1419.4
1351.5
1308.3
1277.5
1265.1
1234.3
1154.0
993.6
820.8
789.9
685.0
555.4
407.3
265.4
129.6
0.0
0.0

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