

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: P575060

Luminaire Tested: **EPH-VN-08-740-U-SL4**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575060  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-740-U-SL4  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

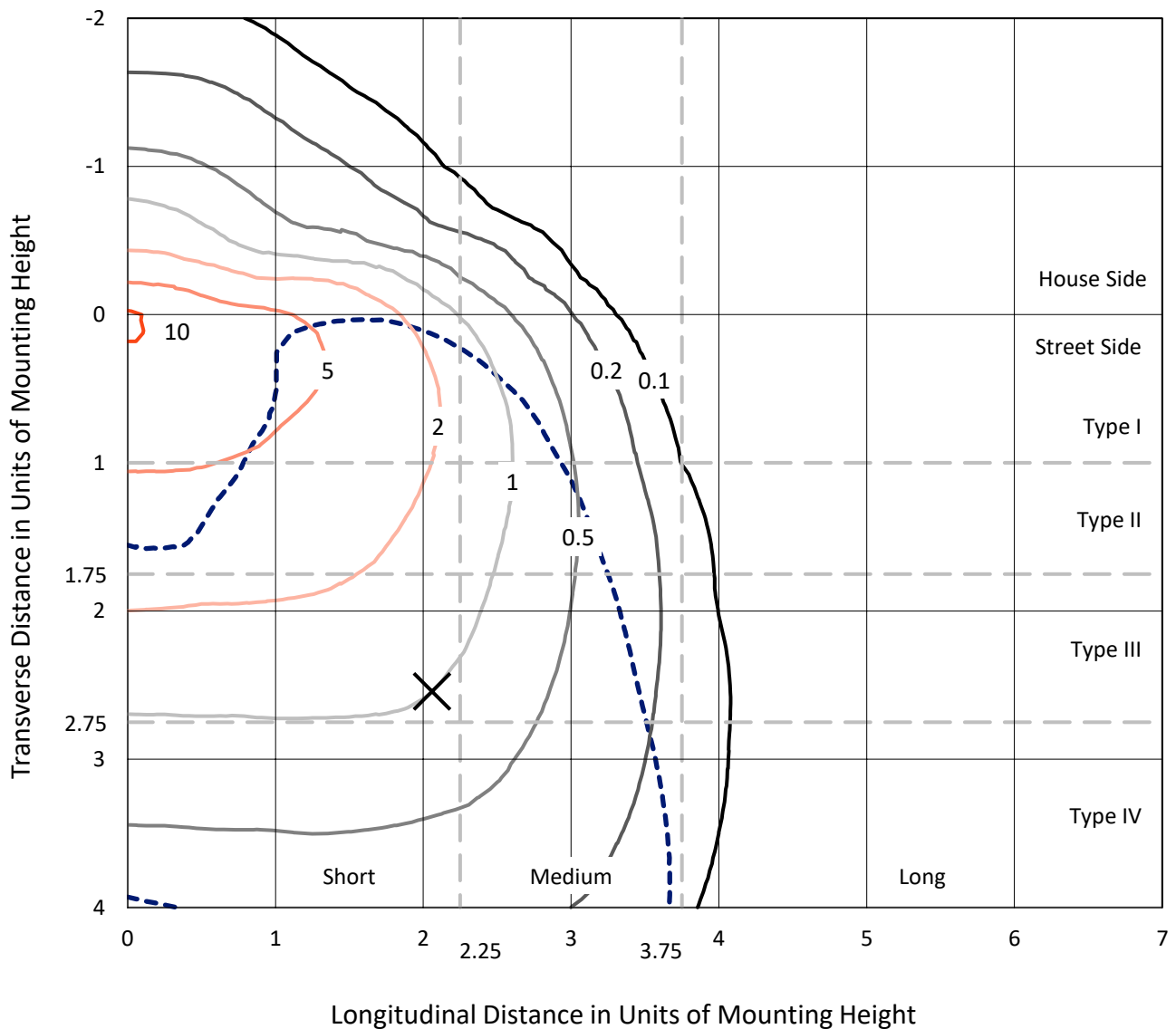
Lumens per Lamp: N/A  
Luminaire Lumens: 53923.6 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

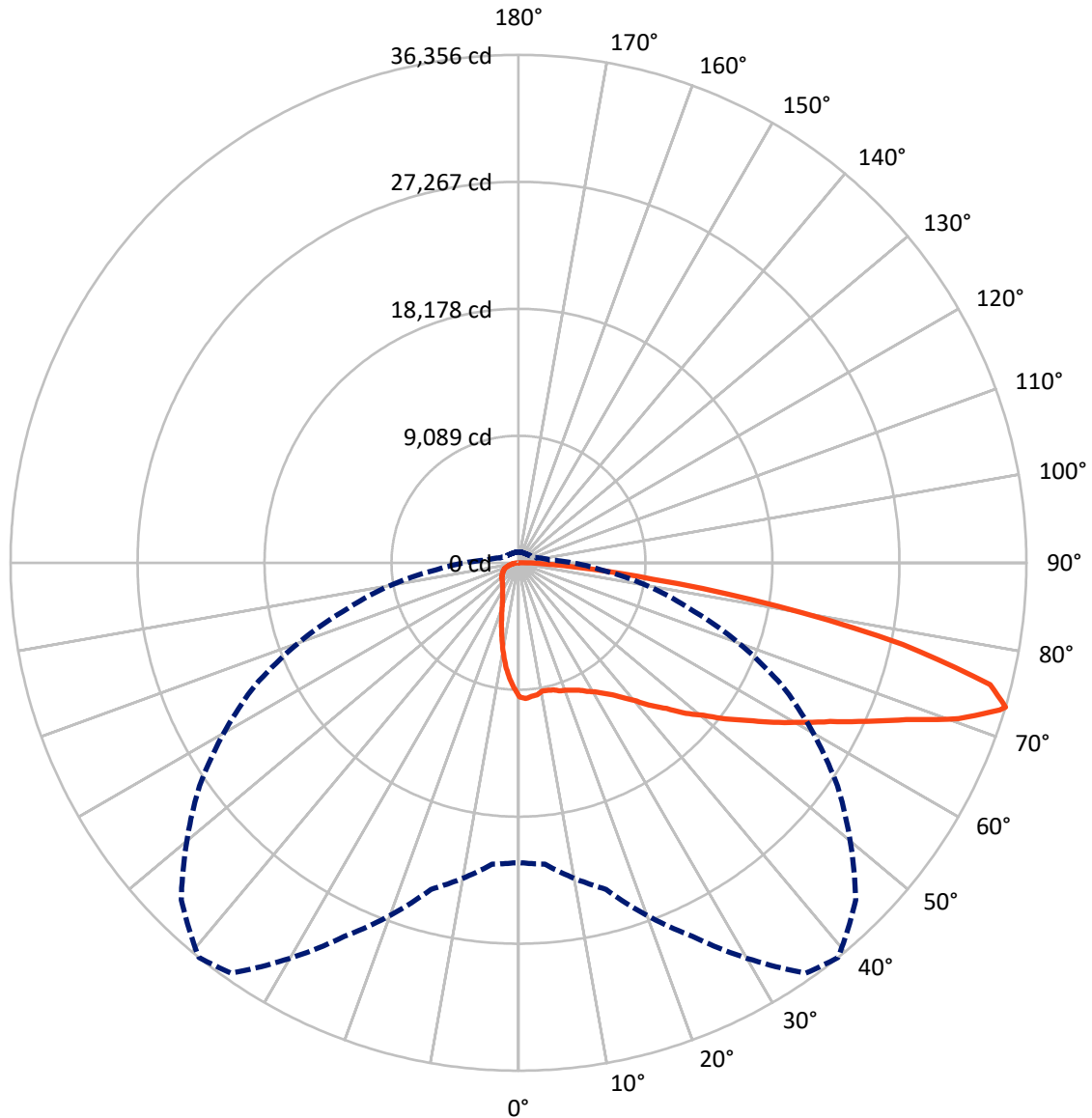
× Max cd  
 - - - 1/2 Max cd



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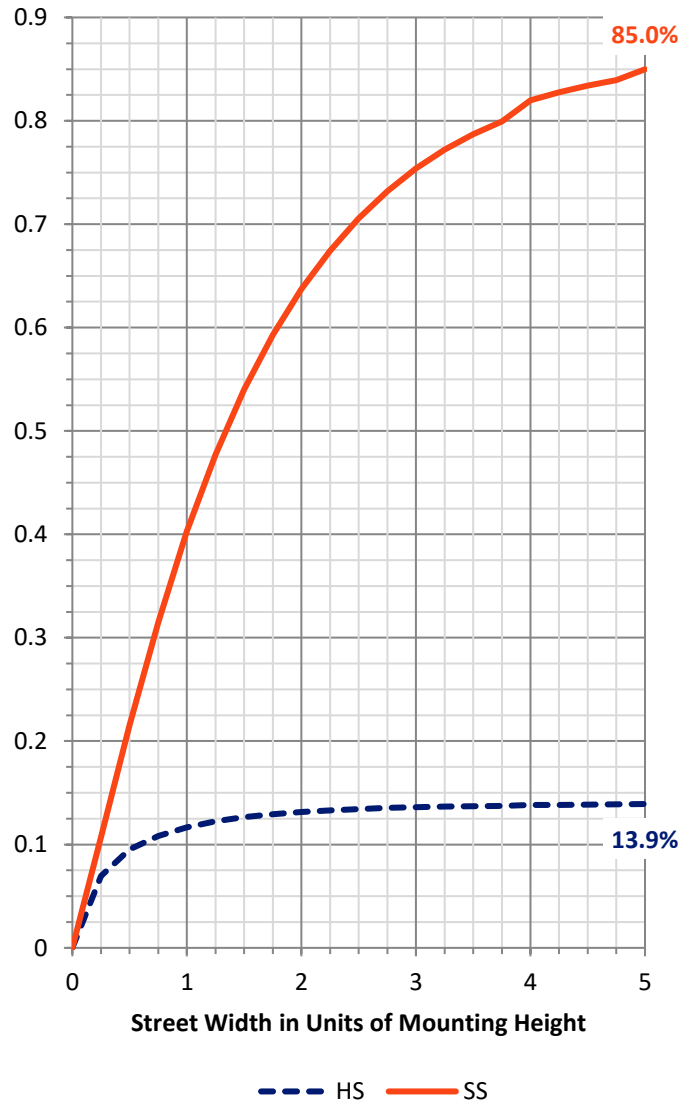
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7580.2	0.0	7580.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	46343.4	0.0	46343.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	53923.6	0.0	53923.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	833.2	1.5
10°-20°	2118.2	3.9
20°-30°	3236.9	6.0
30°-40°	4719.5	8.8
40°-50°	7131.6	13.2
50°-60°	10327.0	19.2
60°-70°	13120.9	24.3
70°-80°	10636.6	19.7
80°-90°	1799.7	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°	53923.6	100.0
0°-180°	53923.6	100.0

**Coefficient of Utilization**

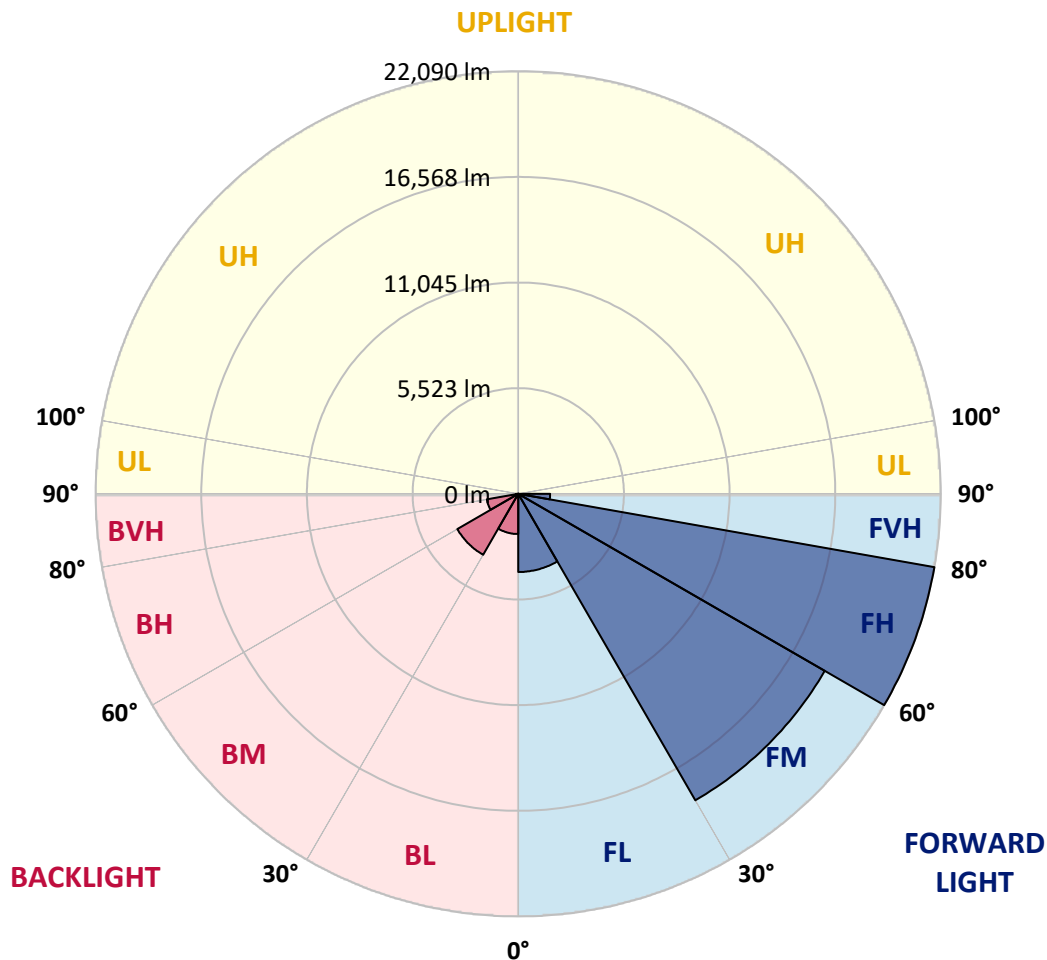


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4086.2	7.6			
FM (30°-60°)	18499.3	34.3			
FH (60°-80°)	22090.3	41.0			G5
FVH (80°-90°)	1667.6	3.1			G5
BL (0°-30°)	2102.1	3.9	B3/2500		
BM (30°-60°)	3678.8	6.8	B3/5000		
BH (60°-80°)	1667.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	132.0	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°	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7
2.5°	9828.0	9725.4	9743.5	9707.3	9743.5	9731.5	9713.4	9622.9	9713.4	9622.9
5°	9695.3	9695.3	9755.6	9665.1	9677.2	9616.8	9677.2	9610.8	9550.5	9399.6
7.5°	9653.0	9647.0	9653.0	9526.3	9586.7	9550.5	9490.1	9417.7	9297.1	9200.5
10°	9363.4	9423.8	9357.4	9393.6	9441.9	9333.3	9327.2	9309.1	9254.8	9128.1
12.5°	9206.6	9309.1	9345.3	9315.2	9357.4	9369.5	9333.3	9309.1	9242.8	9158.3
15°	9272.9	9152.3	9254.8	9453.9	9411.7	9441.9	9447.9	9423.8	9393.6	9236.7
17.5°	9291.0	9218.6	9435.8	9478.1	9532.4	9641.0	9568.6	9562.5	9447.9	9339.3
20°	9333.3	9303.1	9478.1	9701.3	9707.3	9725.4	9761.6	9671.1	9610.8	9423.8
22.5°	9490.1	9592.7	9755.6	9852.1	9906.4	9918.5	9918.5	9737.5	9671.1	9520.3
25°	9960.7	9852.1	10081.4	10196.0	10117.6	10099.5	10057.2	9894.3	9822.0	9689.2
27.5°	10304.6	10298.6	10431.3	10588.2	10377.0	10419.2	10268.4	10220.1	10057.2	9984.8
30°	10775.2	10907.9	10901.9	10950.1	10672.6	10720.9	10527.8	10437.3	10346.8	10389.1
32.5°	11378.5	11330.2	11408.7	11372.5	11094.9	11137.2	10907.9	10769.2	10799.3	10926.0
35°	11764.6	11716.4	11746.5	11746.5	11662.1	11613.8	11517.3	11336.3	11481.1	11716.4
37.5°	12180.9	12241.2	12416.2	12380.0	12271.4	12271.4	12259.3	12132.6	12319.7	12898.9
40°	12548.9	12711.8	12820.4	12892.8	13019.5	13019.5	13122.1	13049.7	13387.5	14316.6
42.5°	12935.1	12941.1	13532.3	13586.6	13870.2	13990.9	14069.3	14129.6	14763.1	15800.8
45°	13429.8	13459.9	13978.8	14395.1	14835.5	14877.7	15173.3	15372.4	16150.7	17423.7
47.5°	14081.3	14045.2	14600.2	15263.8	15812.9	16102.5	16458.4	16675.6	17634.9	19185.4
50°	14938.1	14829.5	15149.2	16192.9	16838.5	17158.3	17791.7	18153.7	19275.9	20868.6
52.5°	15981.8	15800.8	16054.2	17194.4	17918.4	18564.0	19167.3	19571.5	20741.9	22171.8
55°	17085.9	16711.8	16784.2	18256.3	19300.0	19909.4	20735.9	21158.2	22352.8	23342.2
57.5°	18177.9	17942.6	17797.8	19275.9	20947.1	21532.3	22292.5	22841.5	23855.0	24379.9
60°	19094.9	19034.6	18799.3	20856.6	22690.6	23191.4	23987.8	24325.6	25091.8	25339.2
62.5°	19849.0	19643.9	20018.0	22129.6	24464.4	25031.5	25906.3	25936.5	26479.5	25936.5
65°	20440.3	20452.3	21049.6	23668.0	26515.7	27354.3	28060.1	27981.7	27631.8	25580.5
67.5°	20977.2	21206.5	22081.3	25357.3	29152.1	29942.5	30726.8	29689.1	27945.5	23915.4
70°	21399.5	21628.8	23474.9	27414.6	32259.2	33417.6	33592.5	30364.8	26503.6	20259.3
72.5°	21351.3	21767.6	24265.3	29055.6	35016.3	36017.8	34606.1	28464.4	22081.3	14123.6
73°	21453.8	21659.0	24198.9	29514.1	35855.0	36355.7	34135.5	27867.1	20826.4	12669.6
75°	19475.0	20168.8	22998.3	28766.0	34956.0	34865.5	31432.7	23221.6	14805.3	6654.6
77.5°	14407.1	14847.6	18123.6	23655.9	28693.6	28114.4	23710.2	14841.5	7028.6	2467.6
80°	7040.7	7384.6	9604.8	13659.0	18763.1	18811.3	14714.8	7722.4	3010.5	1393.7
82.5°	3517.3	3722.4	4615.4	6003.0	9230.7	9671.1	7463.0	4392.1	1864.2	790.3
85°	2298.6	2443.4	2841.6	2938.1	3915.5	4132.7	3475.1	3426.8	1212.7	428.4
87.5°	1526.4	1550.5	1743.6	1484.2	1568.6	1508.3	1677.2	2159.9	356.0	181.0
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°
9598.7	0°	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7	9598.7
9598.7	2.5°	9568.6	9484.1	9393.6	9266.9	9176.4	9037.6	8910.9	8856.6	8844.6	8850.6
9357.4	5°	9321.2	9200.5	9019.5	8760.1	8609.3	8380.0	8187.0	8084.4	7975.8	7993.9
9061.8	7.5°	8977.3	8844.6	8567.1	8265.4	7891.3	7565.6	7384.6	7131.2	6986.4	6877.8
9043.7	10°	8868.7	8639.5	8223.2	7806.9	7227.7	6799.3	6383.1	6093.5	5894.4	5701.3
8917.0	12.5°	8814.4	8585.2	8006.0	7390.6	6642.5	5990.9	5405.7	5049.7	4766.2	4597.3
9079.9	15°	8766.2	8482.6	7800.9	6932.1	6093.5	5236.8	4579.2	4108.6	3837.1	3674.2
9110.0	17.5°	8832.5	8428.3	7499.2	6485.6	5490.2	4573.1	3843.1	3354.4	3076.9	2974.3
9073.8	20°	8766.2	8368.0	7203.6	6039.2	4886.8	3939.6	3239.8	2835.6	2642.5	2558.1
9242.8	22.5°	8790.3	8223.2	6895.9	5544.5	4325.8	3408.7	2835.6	2527.9	2377.1	2334.8
9321.2	25°	8904.9	8138.7	6588.2	5001.5	3770.7	3016.6	2576.2	2340.9	2232.3	2190.0
9460.0	27.5°	8989.4	8211.1	6310.7	4488.7	3300.1	2666.6	2359.0	2202.1	2129.7	2099.5
9870.2	30°	9200.5	8253.3	6039.2	4030.1	2914.0	2437.4	2208.1	2081.4	2033.2	2015.1
10431.3	32.5°	9514.3	8331.8	5725.4	3607.8	2630.4	2220.2	2087.5	1978.9	1966.8	1948.7
11058.7	35°	10027.1	8603.3	5375.5	3245.8	2359.0	2075.4	1960.8	1888.4	1888.4	1888.4
12060.2	37.5°	10763.1	8983.3	5061.8	2901.9	2184.0	1948.7	1852.2	1828.0	1816.0	1834.1
13285.0	40°	11710.3	9441.9	4808.4	2630.4	2033.2	1864.2	1779.8	1767.7	1761.7	1755.6
14594.2	42.5°	12748.0	10027.1	4591.2	2419.3	1924.6	1773.7	1713.4	1701.3	1677.2	1689.3
16018.0	45°	13779.7	10751.1	4398.2	2250.4	1852.2	1725.5	1641.0	1635.0	1622.9	1616.9
17574.5	47.5°	14926.0	11463.0	4337.8	2147.8	1797.9	1653.1	1592.7	1586.7	1550.5	1544.5
18642.4	50°	15818.9	11987.8	4404.2	2099.5	1719.4	1598.8	1556.6	1526.4	1496.2	1466.1
19432.7	52.5°	16434.3	12349.8	4452.5	2063.3	1677.2	1526.4	1472.1	1460.0	1429.9	1399.7
20223.1	55°	16989.3	12567.0	4464.5	2069.4	1635.0	1441.9	1405.7	1399.7	1381.6	1333.3
20892.8	57.5°	17176.3	12476.5	4223.2	2015.1	1610.8	1387.6	1339.4	1351.4	1327.3	1285.1
20904.8	60°	17158.3	11849.1	3674.2	1942.7	1556.6	1327.3	1267.0	1303.2	1303.2	1254.9
20289.5	62.5°	16114.5	10401.1	3004.5	1803.9	1496.2	1267.0	1200.6	1254.9	1273.0	1242.8
18835.5	65°	13948.6	8470.5	2509.8	1665.1	1405.7	1200.6	1134.2	1194.6	1224.7	1212.7
15993.9	67.5°	11541.4	6479.6	2087.5	1484.2	1291.1	1110.1	1055.8	1098.0	1116.1	1122.2
12066.3	70°	8156.8	4313.7	1743.6	1285.1	1134.2	1013.6	953.2	959.3	953.2	971.3
7040.7	72.5°	4434.4	2485.7	1417.8	1092.0	977.4	880.8	838.6	808.4	808.4	802.4
5954.7	73°	3794.8	2232.3	1351.4	1061.8	935.1	856.7	808.4	784.3	784.3	778.3
2883.8	75°	2129.7	1635.0	1158.4	911.0	808.4	748.1	711.9	675.7	669.7	669.7
1556.6	77.5°	1399.7	1273.0	923.1	730.0	651.6	597.3	585.2	549.0	549.0	549.0
1061.8	80°	1049.8	1001.5	711.9	555.0	500.8	458.5	446.5	422.3	416.3	392.2
603.3	82.5°	699.8	790.3	518.9	392.2	337.9	313.7	313.7	307.7	289.6	259.4
488.7	85°	555.0	645.5	374.1	241.3	199.1	168.9	175.0	168.9	162.9	132.7
132.7	87.5°	102.6	259.4	108.6	66.4	48.3	30.2	30.2	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>
9598.7
8790.3
7945.6
6938.1
5785.8
4663.6
3692.3
2950.2
2540.0
2346.9
2202.1
2093.5
2009.0
1954.7
1906.5
1846.1
1767.7
1707.4
1647.0
1568.6
1466.1
1387.6
1321.3
1279.0
1248.9
1236.8
1206.6
1128.2
971.3
802.4
772.2
669.7
543.0
398.2
259.4
126.7
0.0
0.0

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