

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: P574813

Luminaire Tested: **EPH-VN-07-735-U-T4W**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574813  
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-T4W  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

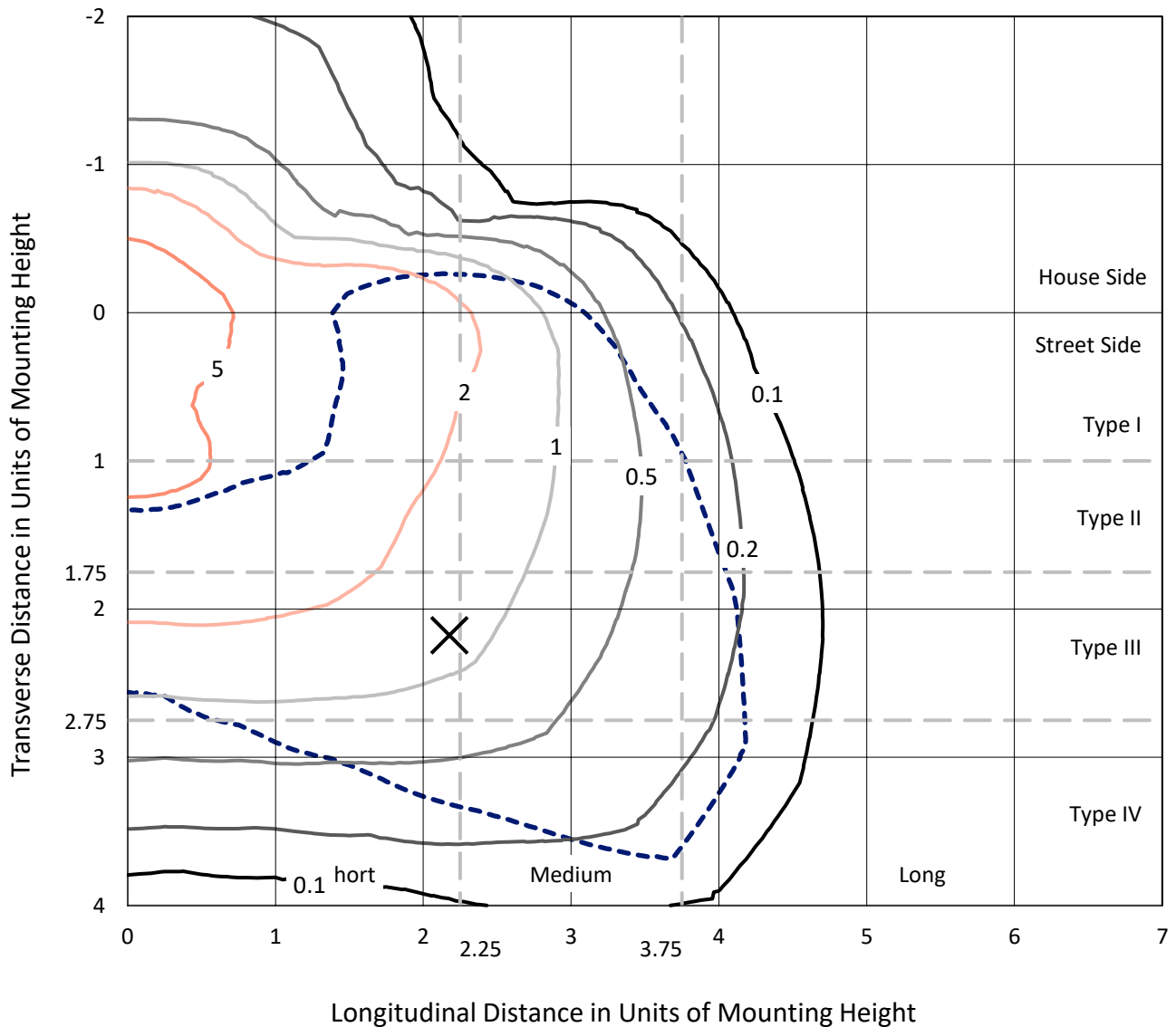
Lumens per Lamp: N/A  
Luminaire Lumens: 56278.2 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

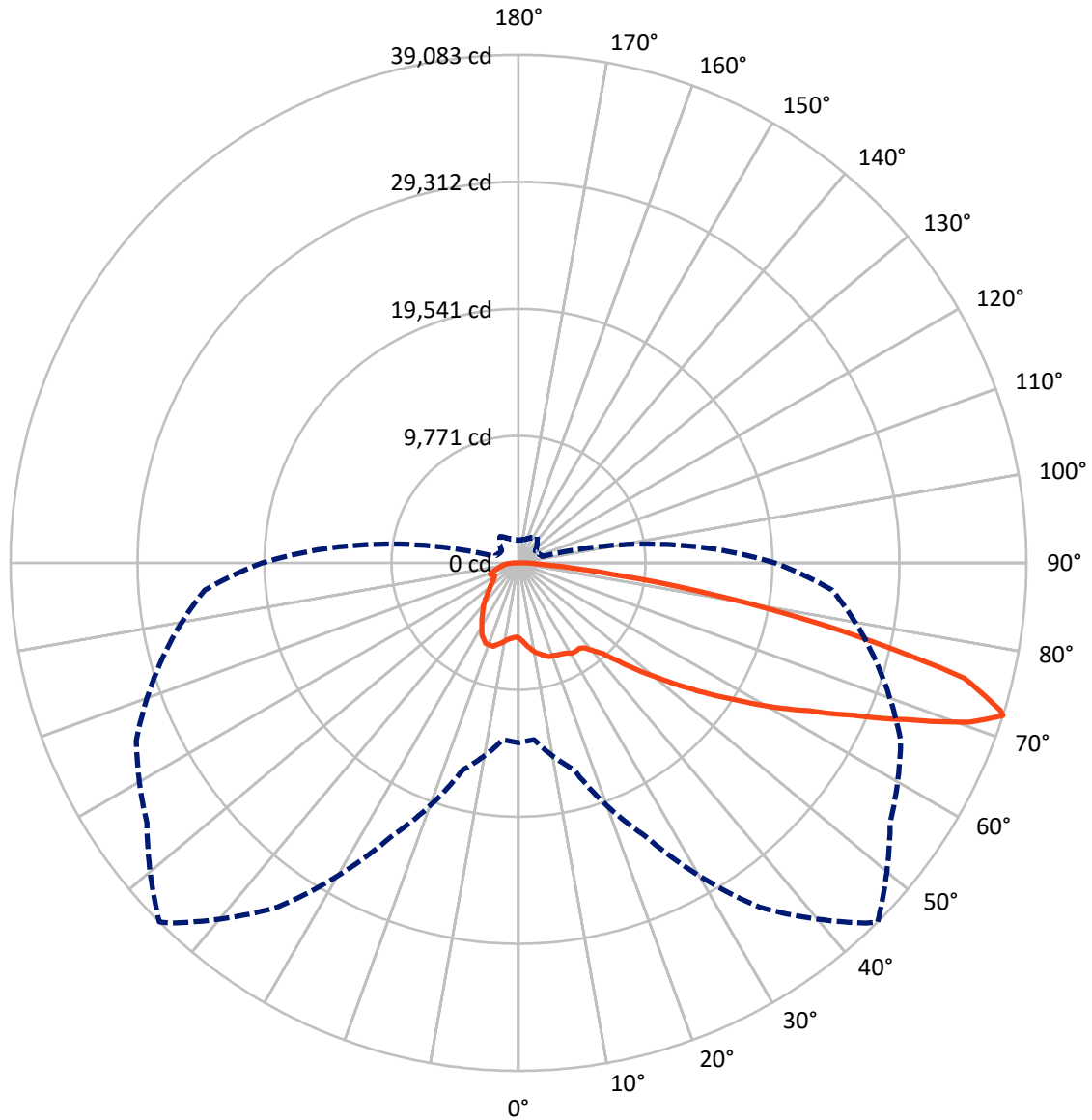
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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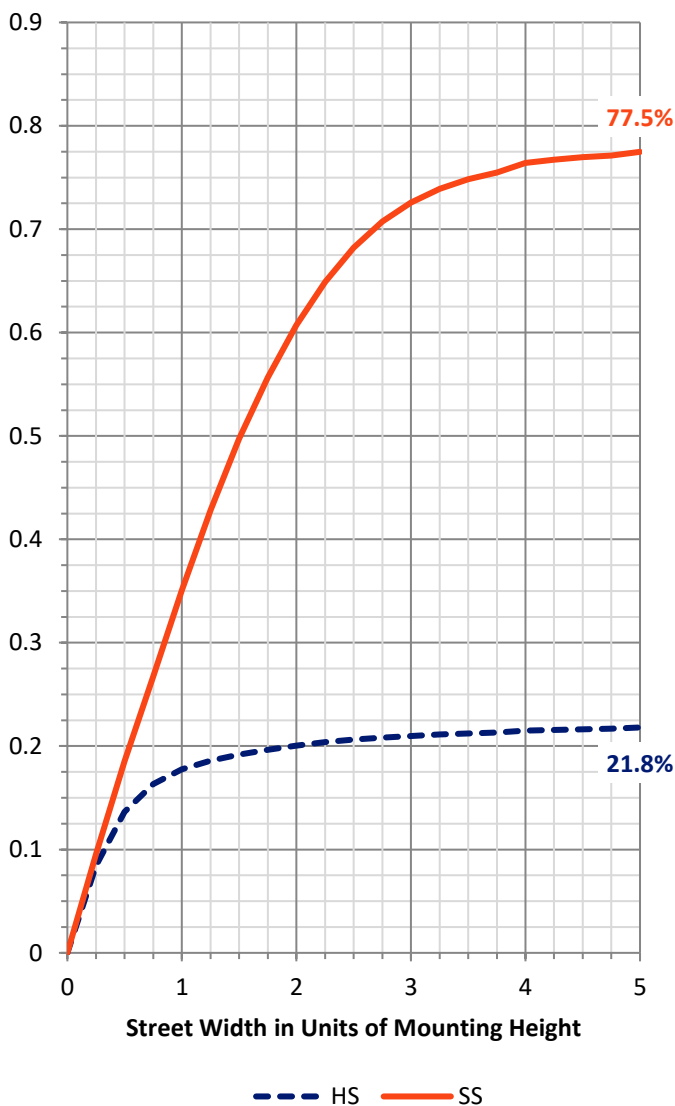
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12527.9	0.0	12527.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	43750.4	0.0	43750.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	56278.2	0.0	56278.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.1	1.1
10°-20°	1973.1	3.5
20°-30°	3332.1	5.9
30°-40°	4611.0	8.2
40°-50°	6595.6	11.7
50°-60°	10638.0	18.9
60°-70°	15689.6	27.9
70°-80°	11393.3	20.2
80°-90°	1452.4	2.6
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°	56278.2	100.0
0°-180°	56278.2	100.0

**Coefficient of Utilization**

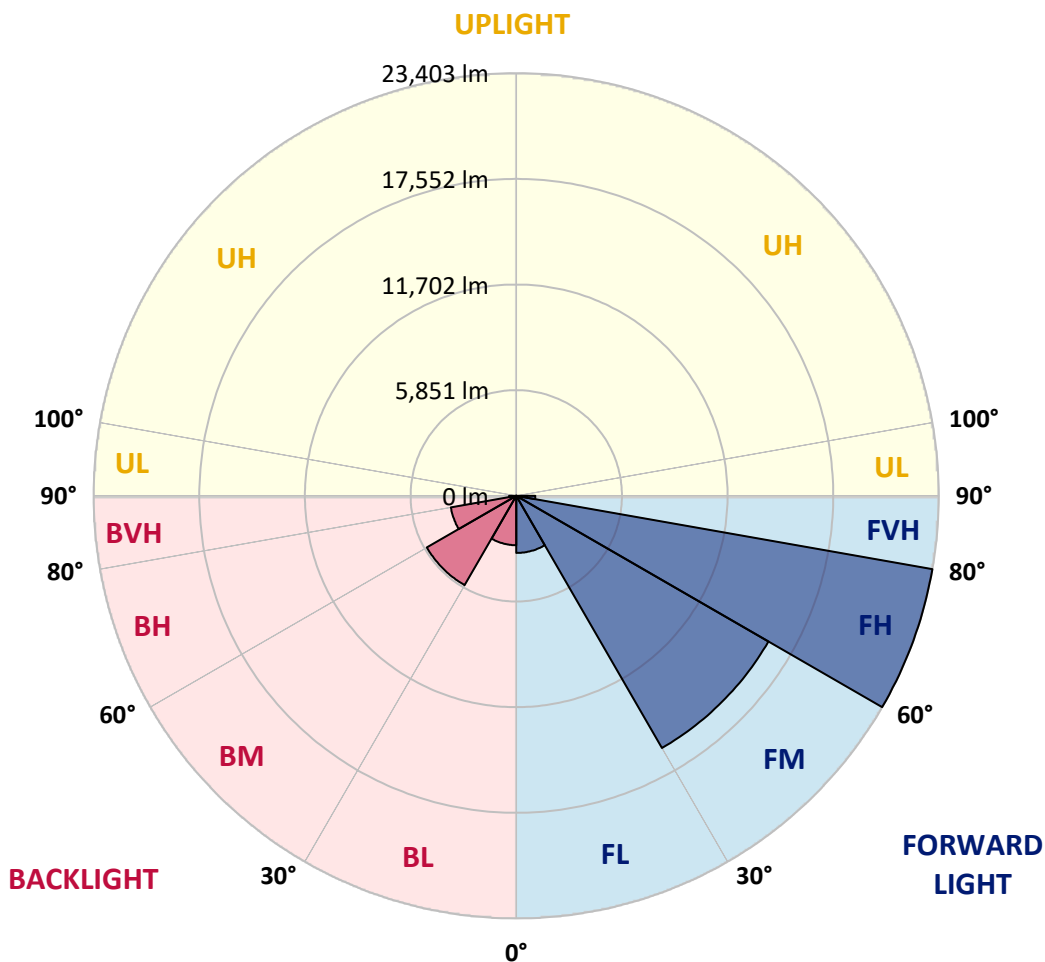


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3162.9	5.6			
FM (30°-60°)	16127.4	28.7			
FH (60°-80°)	23403.0	41.6			G5
FVH (80°-90°)	1057.1	1.9			G5
BL (0°-30°)	2735.4	4.9	B4/5000		
BM (30°-60°)	5717.3	10.2	B4/8500		
BH (60°-80°)	3679.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	395.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6
2.5°	6105.1	6141.6	6105.1	6099.1	6038.4	5995.9	6032.3	5977.7	5917.0	5892.7
5°	6663.5	6669.5	6602.8	6608.9	6481.4	6347.9	6372.2	6208.3	6032.3	5965.6
7.5°	7233.9	7167.2	7070.1	7039.7	6839.5	6693.8	6675.6	6530.0	6256.9	6105.1
10°	7604.1	7628.4	7470.6	7337.1	7167.2	6991.2	6985.1	6712.0	6554.2	6329.7
12.5°	7931.8	7937.9	7804.4	7592.0	7379.6	7161.1	7191.4	7070.1	6803.1	6590.6
15°	8186.7	8150.3	8004.7	7810.5	7585.9	7416.0	7397.8	7294.6	7070.1	6894.1
17.5°	8259.5	8241.3	8095.7	7889.4	7670.9	7543.4	7592.0	7422.1	7331.0	7173.2
20°	8120.0	8077.5	8053.2	7822.6	7664.8	7652.7	7610.2	7646.6	7494.9	7349.2
22.5°	7865.1	7846.9	7834.7	7652.7	7579.8	7634.5	7707.3	7761.9	7737.6	7598.1
25°	7604.1	7689.1	7610.2	7525.2	7628.4	7768.0	7749.8	7925.8	7925.8	7883.3
27.5°	7786.2	7731.6	7670.9	7628.4	7664.8	7883.3	7871.1	8083.6	8162.4	8083.6
30°	8241.3	8186.7	8010.7	7822.6	7774.0	8010.7	8071.4	8259.5	8296.0	8101.8
32.5°	9097.0	9066.7	8787.5	8235.3	7937.9	8071.4	8101.8	8314.2	8283.8	8162.4
35°	10365.4	10262.2	9873.8	8939.2	8283.8	8150.3	8071.4	8241.3	8356.6	8296.0
37.5°	11755.1	11639.8	11160.4	9977.0	8908.9	8362.7	8302.0	8441.6	8575.1	8544.8
40°	13084.2	13084.2	12653.3	11275.7	9837.4	8878.6	8890.7	8732.9	8854.3	8799.7
42.5°	14395.0	14346.5	14170.5	12799.0	10832.7	9740.3	9546.1	9151.7	9370.1	9351.9
45°	15724.1	15687.7	15639.1	14219.0	12258.8	10905.5	10802.3	10092.3	10292.6	10207.6
47.5°	16786.1	16828.6	16828.6	15803.0	13782.1	12459.1	12307.4	11184.7	11567.0	11609.5
50°	17690.4	17708.6	17690.4	17314.1	15481.3	14237.2	13927.7	12786.8	13169.2	13502.9
52.5°	18940.5	18964.8	18879.8	18734.2	17787.5	16106.4	15760.5	14492.1	15275.0	15627.0
55°	20482.0	20299.9	20142.1	20251.4	20002.5	18163.7	17805.7	16252.1	17429.4	17896.7
57.5°	20767.2	20925.0	21325.5	22193.4	22551.4	20166.4	19960.1	18412.5	19863.0	20269.6
60°	21774.6	21513.7	22496.8	24378.1	24778.6	22776.0	22563.6	20779.3	22284.4	22709.2
62.5°	22436.1	22424.0	23880.5	26113.8	27024.1	25482.6	25051.7	23856.2	24900.0	25312.7
65°	22241.9	22417.9	25003.2	27133.3	28899.3	28559.5	28310.6	26502.2	27879.8	27843.4
67.5°	20469.8	20967.5	24293.1	27867.6	31690.9	32309.9	32231.0	30222.3	30301.2	29530.5
70°	18012.0	17842.1	21289.1	27103.0	33086.7	36758.3	36740.1	32989.6	32479.9	29900.7
72°	13836.7	13648.6	16482.7	23273.6	32352.4	38536.5	39082.6	34907.4	32455.6	28365.3
72.5°	12562.3	12398.4	15220.4	21908.1	31539.2	38997.7	38742.8	34980.2	32200.7	27643.1
75°	5783.5	5595.4	7604.1	13411.9	24602.6	34555.4	35423.2	32734.8	28122.5	22005.2
77.5°	1723.5	1668.9	2445.7	5413.3	14297.9	25458.3	25792.1	24699.7	19632.4	12052.5
80°	958.9	964.9	1262.3	2027.0	6287.2	14716.7	15918.3	15256.8	9631.1	3981.1
82.5°	534.0	564.4	788.9	1201.6	2888.7	6754.5	7270.3	7009.4	3483.5	1869.2
85°	279.2	291.3	412.7	643.3	1638.6	2136.2	2196.9	2354.7	1808.5	1274.4
87.5°	109.2	109.2	151.7	267.0	606.9	661.5	594.7	722.2	1037.8	825.3
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°
5795.6	0°	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6	5795.6
5838.1	2.5°	5886.7	5838.1	5832.1	5753.2	5777.4	5710.7	5716.7	5704.6	5710.7	5698.5
5856.3	5°	5856.3	5819.9	5716.7	5783.5	5722.8	5807.8	5874.5	5850.3	5868.5	5862.4
5953.4	7.5°	5898.8	5850.3	5838.1	5801.7	5856.3	5892.7	5947.4	6099.1	6086.9	6105.1
6135.5	10°	6026.3	5971.6	5935.2	5989.8	5959.5	6074.8	6135.5	6214.4	6354.0	6360.0
6396.4	12.5°	6275.1	6238.7	6165.8	6178.0	6281.1	6317.6	6354.0	6402.5	6493.5	6475.3
6572.4	15°	6560.3	6481.4	6438.9	6426.8	6451.1	6493.5	6487.5	6536.0	6584.6	6627.1
6863.7	17.5°	6766.6	6663.5	6675.6	6736.3	6730.2	6718.1	6639.2	6614.9	6639.2	6663.5
7124.7	20°	6979.0	6991.2	6900.2	6845.5	6821.3	6699.9	6639.2	6566.4	6493.5	6530.0
7343.2	22.5°	7246.1	7191.4	7057.9	6894.1	6772.7	6699.9	6511.8	6384.3	6384.3	6420.7
7670.9	25°	7549.5	7434.2	7203.6	6906.2	6754.5	6445.0	6311.5	6293.3	6244.7	6299.3
7840.8	27.5°	7786.2	7683.0	7367.4	6863.7	6445.0	6196.2	6117.3	6093.0	6171.9	6178.0
7895.4	30°	7883.3	7852.9	7391.7	6754.5	6129.4	5728.9	5680.3	5789.6	5874.5	6002.0
8077.5	32.5°	8010.7	8022.9	7428.1	6499.6	5716.7	5316.2	5243.4	5376.9	5619.6	5722.8
8217.1	35°	8223.1	8283.8	7397.8	6184.0	5279.8	4897.5	4885.3	4921.7	5158.4	5340.5
8380.9	37.5°	8593.3	8581.2	7391.7	5807.8	4933.9	4533.3	4436.2	4448.4	4606.2	4757.9
8830.0	40°	9091.0	9042.4	7373.5	5316.2	4484.8	4223.8	4060.0	3999.3	3987.2	3944.7
9394.4	42.5°	9770.7	9673.6	7367.4	4818.6	4078.2	3799.0	3683.7	3525.9	3410.6	3192.2
10389.7	45°	10717.4	10547.5	7209.7	4351.3	3677.7	3447.0	3271.0	3155.7	2906.9	2633.8
11652.0	47.5°	12179.9	11627.7	7215.7	3835.4	3289.3	3101.1	2979.7	2779.5	2512.5	2294.0
13891.3	50°	14334.3	13072.1	7009.4	3428.8	2973.7	2846.2	2718.8	2488.2	2233.3	2081.6
16324.9	52.5°	17113.8	15226.5	7003.3	3064.7	2724.9	2633.8	2494.2	2287.9	2099.8	2002.7
19292.5	55°	20427.4	18078.8	7221.8	2767.3	2470.0	2421.4	2360.7	2190.8	2008.8	1923.8
22600.0	57.5°	23819.8	20864.3	7573.8	2554.9	2251.5	2287.9	2245.4	2111.9	1966.3	1869.2
25652.5	60°	26835.9	23073.3	6863.7	2300.1	2057.3	2136.2	2196.9	2081.6	2002.7	1996.6
28978.2	62.5°	29111.7	24020.0	5219.1	2105.9	1954.1	2099.8	2263.6	2336.5	2300.1	2348.6
31144.7	65°	29943.1	23449.6	3592.7	2002.7	1875.2	2184.7	2548.9	2524.6	2312.2	2221.2
32109.7	67.5°	28777.9	21137.4	2664.2	1881.3	1820.6	2360.7	2712.7	2409.3	2087.6	2075.5
29342.3	70°	24748.3	17914.9	2172.6	1753.9	1729.6	2263.6	2639.9	2233.3	1966.3	1887.4
24238.5	72°	19717.3	13952.0	1905.6	1662.8	1583.9	2020.9	2470.0	2093.7	1863.1	1766.0
22642.4	72.5°	17999.9	12932.5	1869.2	1620.4	1553.6	1966.3	2385.0	2051.2	1838.8	1753.9
13563.6	75°	9873.8	6621.0	1644.6	1486.8	1310.8	1699.2	2209.0	1923.8	1735.7	1614.3
5031.0	77.5°	3671.6	2567.1	1420.1	1316.9	1134.9	1468.6	2008.8	1826.7	1577.9	1426.2
1675.0	80°	1407.9	1353.3	1159.1	1110.6	952.8	1286.6	1851.0	1638.6	1341.2	1189.5
916.4	82.5°	855.7	788.9	880.0	867.8	728.2	1171.3	1741.7	1535.4	1189.5	964.9
491.6	85°	467.3	467.3	612.9	588.7	509.8	934.6	1316.9	1019.5	752.5	619.0
242.7	87.5°	206.3	242.7	327.7	309.5	279.2	528.0	643.3	540.1	376.3	254.9
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>
5795.6
5668.2
5868.5
6141.6
6287.2
6542.1
6608.9
6651.3
6584.6
6402.5
6323.6
6275.1
6008.0
5801.7
5443.7
4739.7
3956.8
3204.3
2633.8
2269.7
2099.8
1966.3
1917.7
1857.0
1954.1
2354.7
2269.7
2039.1
1851.0
1723.5
1687.1
1602.1
1395.8
1140.9
934.6
631.1
273.1
0.0

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