

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: P574626

Luminaire Tested: **EPH-VN-08-750-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574626  
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-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

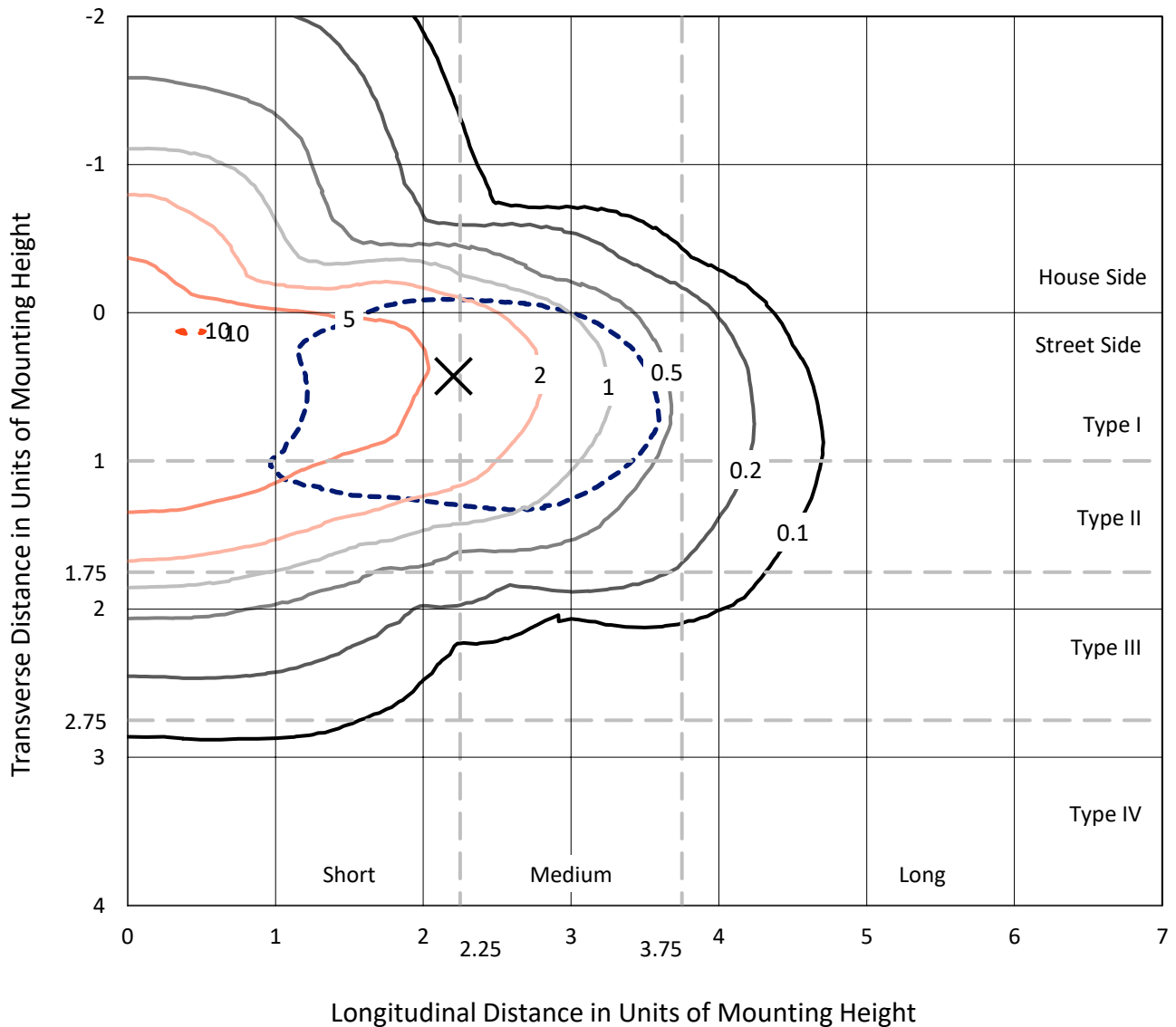
Lumens per Lamp: N/A  
Luminaire Lumens: 56955.5 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

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

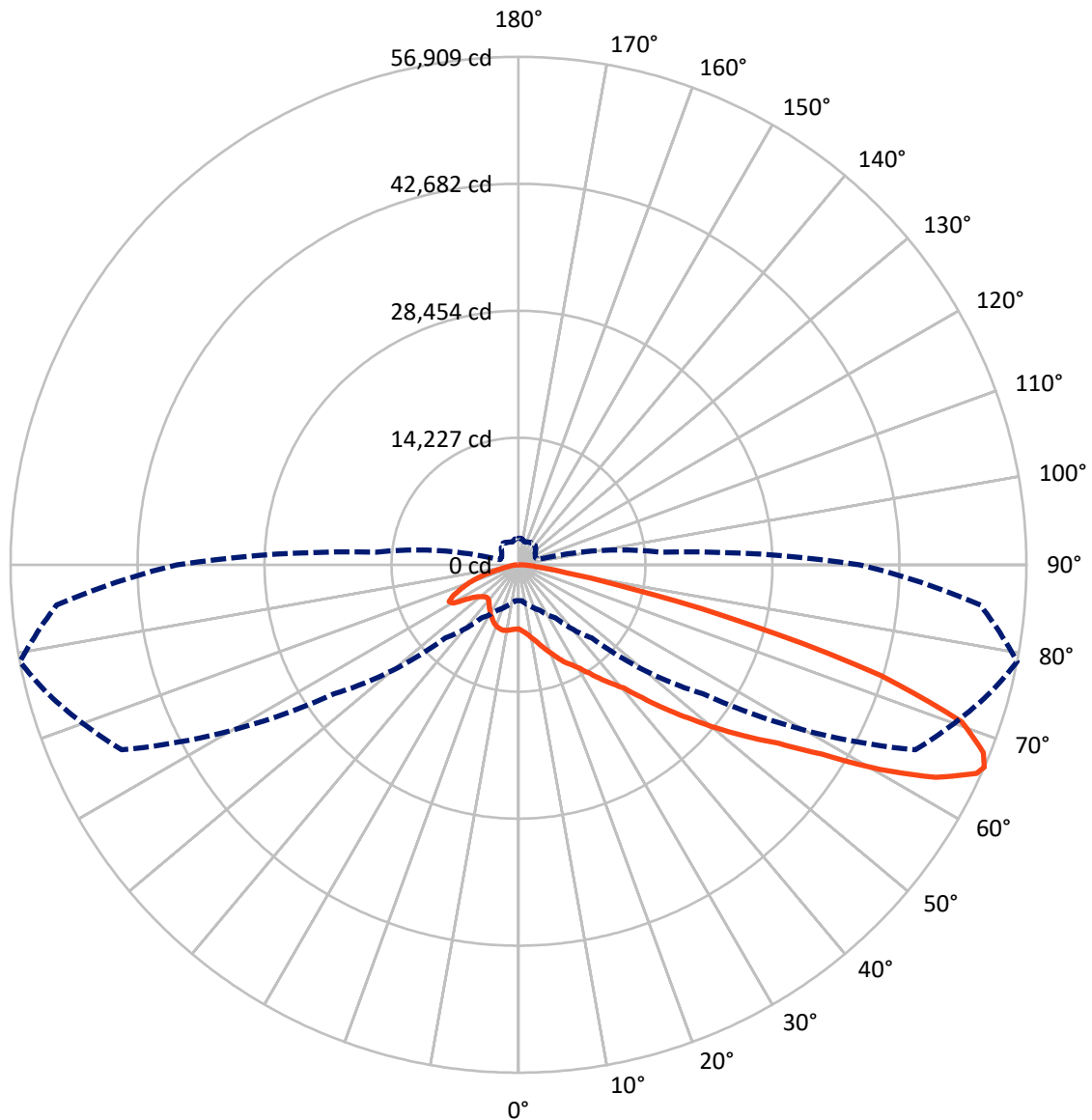
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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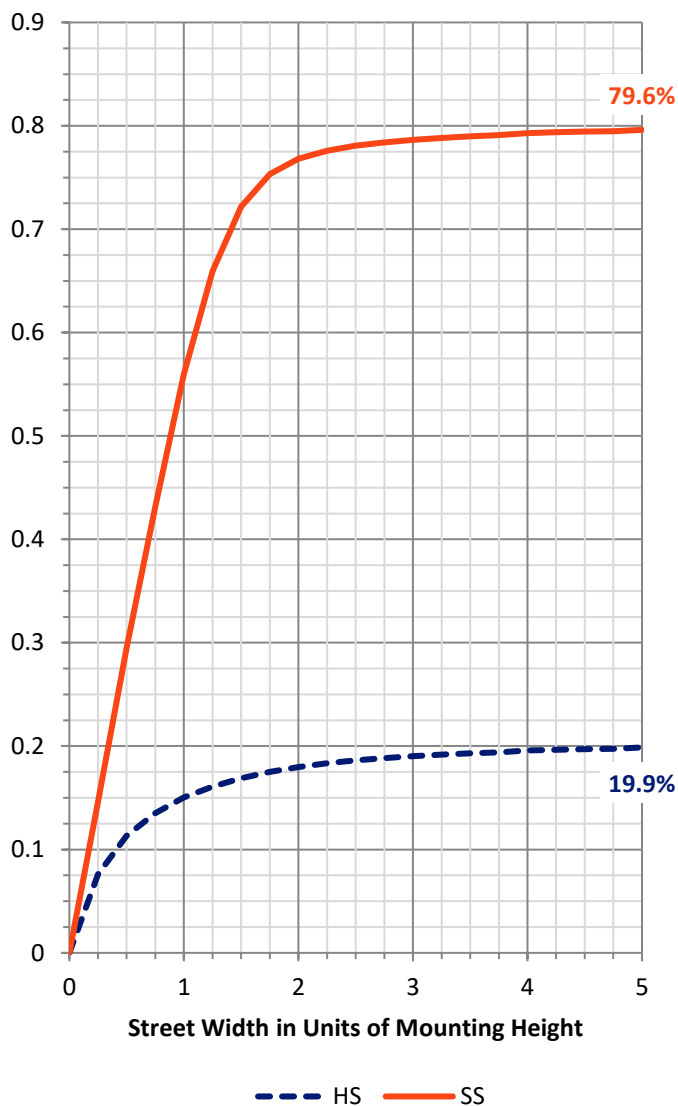
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11501.4	0.0	11501.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	45454.1	0.0	45454.1
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	56955.5	0.0	56955.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.2	1.2
10°-20°	2183.7	3.8
20°-30°	3748.4	6.6
30°-40°	5790.6	10.2
40°-50°	9275.1	16.3
50°-60°	13848.3	24.3
60°-70°	14229.1	25.0
70°-80°	6307.6	11.1
80°-90°	865.5	1.5
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°	56955.5	100.0
0°-180°	56955.5	100.0

**Coefficient of Utilization**

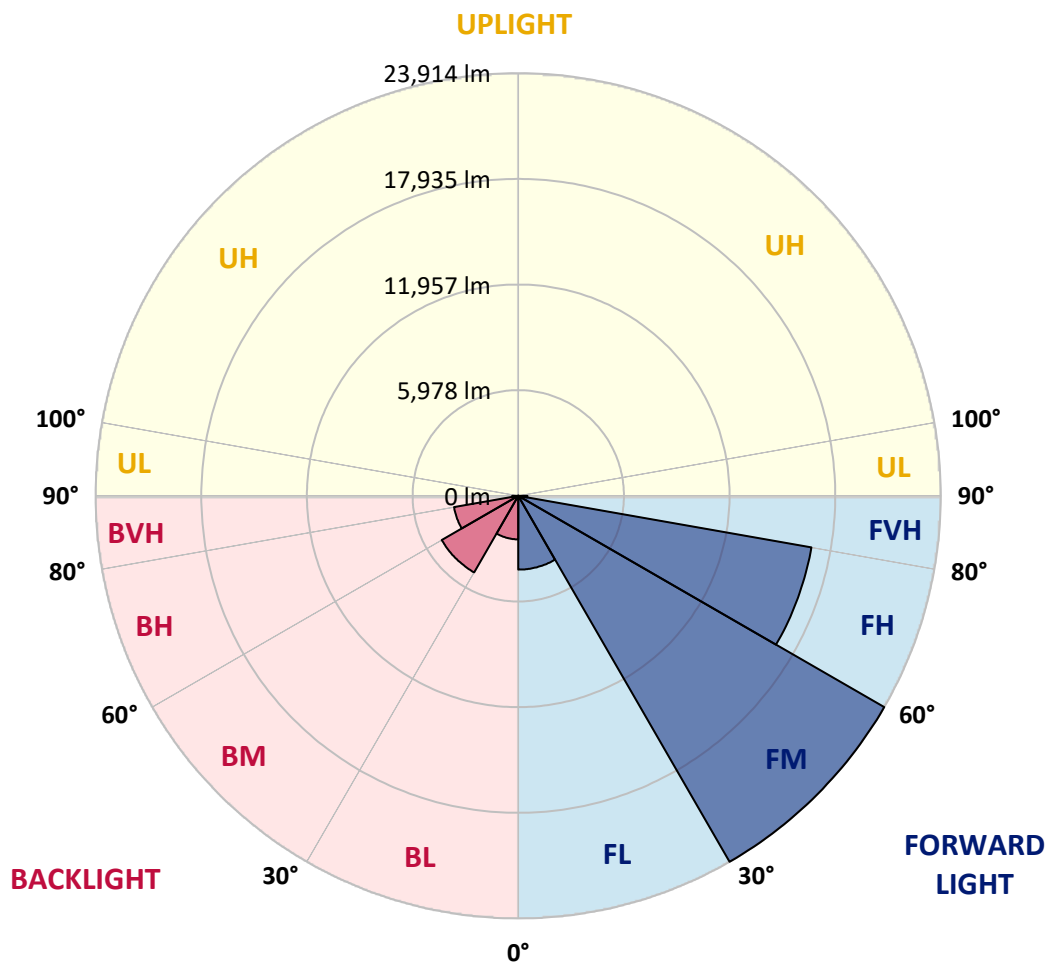


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4175.2	7.3			
FM (30°-60°)	23913.7	42.0			
FH (60°-80°)	16846.2	29.6			G5
FVH (80°-90°)	519.1	0.9			G4/750
BL (0°-30°)	2464.1	4.3	B3/2500		
BM (30°-60°)	5000.3	8.8	B4/8500		
BH (60°-80°)	3690.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	346.4	0.6			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9
2.5°	7649.2	7655.5	7655.5	7630.4	7636.7	7655.5	7586.6	7436.2	7436.2	7411.2
5°	8119.1	8087.7	8043.9	8050.2	8025.1	8025.1	7949.9	7805.8	7680.5	7630.4
7.5°	8181.7	8213.0	8206.8	8282.0	8319.5	8319.5	8357.1	8238.1	8050.2	7931.1
10°	8307.0	8225.6	8219.3	8394.7	8451.1	8582.7	8733.0	8670.4	8513.7	8344.6
12.5°	8382.2	8432.3	8432.3	8520.0	8651.6	8845.8	9108.9	9227.9	8983.6	8808.2
15°	8495.0	8426.0	8626.5	8701.7	8952.3	9090.1	9466.0	9773.0	9610.1	9397.1
17.5°	8545.1	8501.2	8614.0	8751.8	9177.8	9384.5	9841.9	10267.9	10130.0	9992.2
20°	8801.9	8795.7	8845.8	8958.5	9265.5	9672.7	10242.8	10831.7	10881.8	10631.2
22.5°	9428.4	9347.0	9347.0	9303.1	9434.7	9854.4	10625.0	11439.4	11664.9	11370.5
25°	10004.8	10117.5	10048.6	9848.1	9798.0	10017.3	10900.6	12084.6	12385.3	12109.7
27.5°	10744.0	10781.6	10900.6	10631.2	10286.7	10355.6	11201.3	12448.0	13068.2	12698.6
30°	11809.0	11740.1	11715.0	11414.3	10963.3	10869.3	11545.9	12980.5	13964.1	13444.1
32.5°	12529.4	12698.6	12692.3	12278.8	11733.8	11527.1	11971.9	13481.7	14922.6	14440.2
35°	13957.8	14133.2	13995.4	13387.7	12748.7	12335.2	12585.8	14133.2	16018.9	15643.0
37.5°	15780.8	16194.3	15899.8	14778.5	13876.3	13425.3	13437.8	14841.1	17140.3	16833.3
40°	17040.0	17597.6	17190.4	16137.9	15179.4	14753.4	14584.3	15680.6	18480.9	18155.1
42.5°	18599.9	19063.5	18850.5	17810.6	16689.2	16325.8	15987.6	17083.9	20529.5	20379.1
45°	20303.9	20523.2	20454.3	19796.5	18549.8	18424.5	17679.0	18932.0	22941.4	23004.0
47.5°	21888.9	22007.9	22139.5	21663.4	20886.6	20993.1	19627.4	20911.6	25284.4	25697.9
50°	22296.1	22703.3	23010.3	23329.8	23498.9	24219.4	21776.2	23342.3	27978.2	28780.1
52.5°	21882.7	21851.3	22784.8	23787.1	25478.6	26988.4	24701.8	26361.9	30358.8	31943.8
55°	20003.2	19940.6	21444.1	22772.2	26073.7	28529.5	28880.3	30383.9	33234.3	35295.4
57.5°	16714.3	16325.8	17967.2	20147.3	24783.2	28698.7	33077.7	36354.1	37657.2	40006.5
60°	11232.6	11069.8	12642.2	15242.1	20122.3	26299.3	35589.8	43827.9	43890.6	46534.3
62.5°	6916.2	6947.6	7956.2	9904.5	14089.3	20849.0	34506.1	49798.2	49810.8	52460.7
65°	4523.1	4541.9	5356.3	6433.9	8801.9	14139.5	28535.8	50268.1	53926.7	56388.7
66°	4028.2	4034.5	4736.1	5613.2	7292.1	11570.9	25203.0	49046.5	54853.8	56908.7
67.5°	3395.5	3476.9	4040.7	4717.3	5688.4	8313.3	19997.0	45513.2	54377.7	56182.0
70°	2656.2	2700.1	3144.9	3834.0	4266.3	4811.3	11884.2	37099.6	49773.2	52698.8
72.5°	2130.0	2167.6	2505.9	3113.6	3464.4	3169.9	6471.5	26919.5	39317.4	42437.2
75°	1798.0	1804.2	1967.1	2449.5	2850.4	2380.6	3445.6	17278.1	25228.0	26681.4
77.5°	1453.4	1478.5	1591.2	1866.9	2292.9	1873.1	2054.8	9679.0	12667.3	12773.8
80°	1184.0	1196.6	1265.5	1359.4	1747.9	1384.5	1390.8	4723.6	5431.5	5306.2
82.5°	933.4	946.0	1027.4	1008.6	1284.3	989.8	864.5	2274.1	2499.6	2449.5
85°	526.2	526.2	808.1	808.1	814.4	626.5	526.2	1071.3	1321.9	1234.1
87.5°	169.1	175.4	244.3	256.9	407.2	281.9	256.9	400.9	626.5	551.3
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°
7191.9	0°	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9	7191.9
7367.3	2.5°	7342.2	7242.0	7198.2	7054.1	7016.5	6922.5	6878.7	6822.3	6803.5	6722.0
7498.9	5°	7398.6	7367.3	7191.9	7010.2	6872.4	6809.7	6715.8	6590.5	6578.0	6465.2
7799.6	7.5°	7636.7	7530.2	7223.2	7029.0	6753.4	6596.7	6390.0	6327.4	6245.9	6208.3
8169.2	10°	8006.3	7736.9	7279.6	6791.0	6452.7	6264.7	6114.4	6070.5	6076.8	6051.7
8538.8	12.5°	8269.4	8012.6	7185.6	6590.5	6152.0	5970.3	5957.7	6001.6	6070.5	6039.2
8971.1	15°	8645.3	8162.9	7116.7	6258.5	5907.6	5857.5	5851.2	5982.8	5976.5	5976.5
9553.7	17.5°	8996.1	8313.3	6866.1	5970.3	5650.8	5688.4	5732.2	5726.0	5788.6	5813.7
10036.1	20°	9440.9	8488.7	6515.3	5682.1	5456.6	5444.0	5437.8	5444.0	5506.7	5544.3
10581.1	22.5°	9829.3	8526.3	6220.9	5406.4	5224.8	5174.7	5093.2	5174.7	5143.3	5155.9
11320.3	25°	10167.6	8532.5	5801.1	5199.7	4993.0	4880.2	4817.6	4811.3	4754.9	4748.7
11740.1	27.5°	10449.5	8319.5	5431.5	4911.5	4717.3	4610.8	4604.6	4535.7	4391.6	4297.6
12235.0	30°	10668.8	8156.7	5174.7	4660.9	4473.0	4454.2	4397.8	4241.2	4053.3	3934.2
13149.6	32.5°	11057.2	7830.9	4823.8	4404.1	4310.1	4285.1	4153.5	4015.7	3840.3	3727.5
13926.5	35°	11345.4	7530.2	4592.0	4184.8	4141.0	4090.9	3978.1	3827.7	3777.6	3752.6
14759.7	37.5°	11671.2	7191.9	4310.1	3996.9	4040.7	3946.8	3815.2	3746.3	3921.7	3877.9
16062.7	40°	12191.1	6953.8	4034.5	3884.1	3928.0	3821.5	3652.3	3627.3	3846.5	3689.9
17735.4	42.5°	13143.4	6947.6	3865.3	3715.0	3746.3	3664.9	3514.5	3502.0	3589.7	3401.7
19827.8	45°	14327.4	7166.8	3740.0	3589.7	3564.6	3552.1	3502.0	3445.6	3370.4	3126.1
22158.3	47.5°	15743.2	7523.9	3715.0	3401.7	3433.1	3539.6	3476.9	3332.8	3138.6	2982.0
24751.9	50°	17459.8	8263.2	3652.3	3263.9	3320.3	3489.4	3439.3	3238.9	3063.4	2963.2
27126.2	52.5°	19358.0	9196.6	3570.9	3050.9	3176.2	3445.6	3470.7	3282.7	3025.9	2938.2
30340.0	55°	21594.5	10574.8	3476.9	2819.1	3007.1	3401.7	3470.7	3157.4	2975.7	2975.7
35245.3	57.5°	26011.1	13055.7	3282.7	2606.1	2856.7	3320.3	3370.4	3163.7	2982.0	2982.0
42856.9	60°	32488.8	16927.3	2913.1	2443.2	2712.6	3207.5	3295.2	3069.7	2913.1	2950.7
49121.6	62.5°	37557.0	18105.0	2599.9	2286.6	2568.5	3000.8	3195.0	2969.5	2831.7	2969.5
51990.9	65°	38640.8	16914.7	2280.4	2117.5	2368.1	2800.3	3050.9	2825.4	2712.6	2982.0
51953.3	66°	38252.4	15987.6	2167.6	2067.4	2280.4	2700.1	2963.2	2775.3	2650.0	2969.5
50775.5	67.5°	36523.3	14596.8	2042.3	1960.9	2161.3	2556.0	2863.0	2706.4	2549.7	2931.9
46490.5	70°	32764.5	12379.1	1829.3	1772.9	1992.2	2317.9	2631.2	2530.9	2393.1	2700.1
36567.1	72.5°	25234.3	9892.0	1603.8	1610.0	1798.0	2073.6	2399.4	2330.5	2211.4	2368.1
22402.6	75°	15367.3	6321.1	1397.0	1409.6	1566.2	1841.8	2180.1	2130.0	1985.9	2073.6
10355.6	77.5°	6809.7	3132.4	1177.8	1202.8	1328.1	1622.6	1898.2	1816.8	1666.4	1685.2
4209.9	80°	2643.7	1484.7	958.5	989.8	1071.3	1296.8	1572.4	1497.3	1365.7	1340.6
1935.8	82.5°	1271.7	826.9	739.2	751.8	783.1	1033.7	1353.2	1259.2	1083.8	971.0
908.4	85°	639.0	513.7	520.0	476.1	520.0	701.6	914.6	764.3	632.7	563.8
325.8	87.5°	256.9	256.9	256.9	219.3	231.8	332.0	426.0	288.2	263.1	156.6
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°
7191.9
6797.2
6452.7
6289.8
6014.1
6083.0
5970.3
5857.5
5512.9
5193.4
4748.7
4310.1
3934.2
3708.7
3771.4
3896.7
3652.3
3345.4
3063.4
2950.7
2944.4
2925.6
2963.2
2956.9
2944.4
2982.0
2994.5
2975.7
2875.5
2599.9
2305.4
2042.3
1672.7
1328.1
971.0
576.4
156.6
0.0

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