

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: P575049

Luminaire Tested: **EPH-VN-03-735-U-SL4**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575049  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-735-U-SL4  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

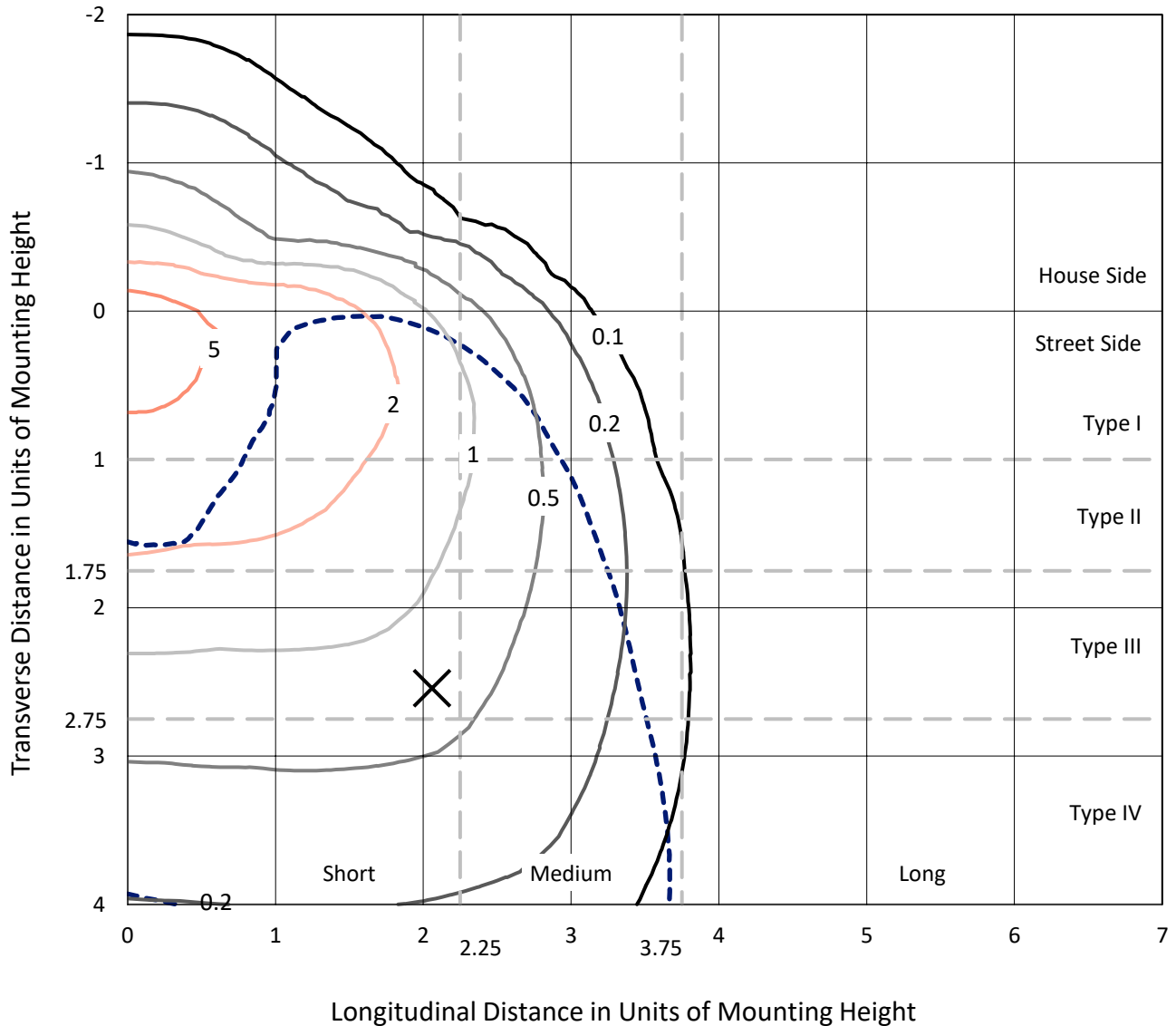
Lumens per Lamp: N/A  
Luminaire Lumens: 25733.3 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 232.1  
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

REPORT NUMBER: P575049  
 CATALOG NUMBER: EPH-VN-03-735-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

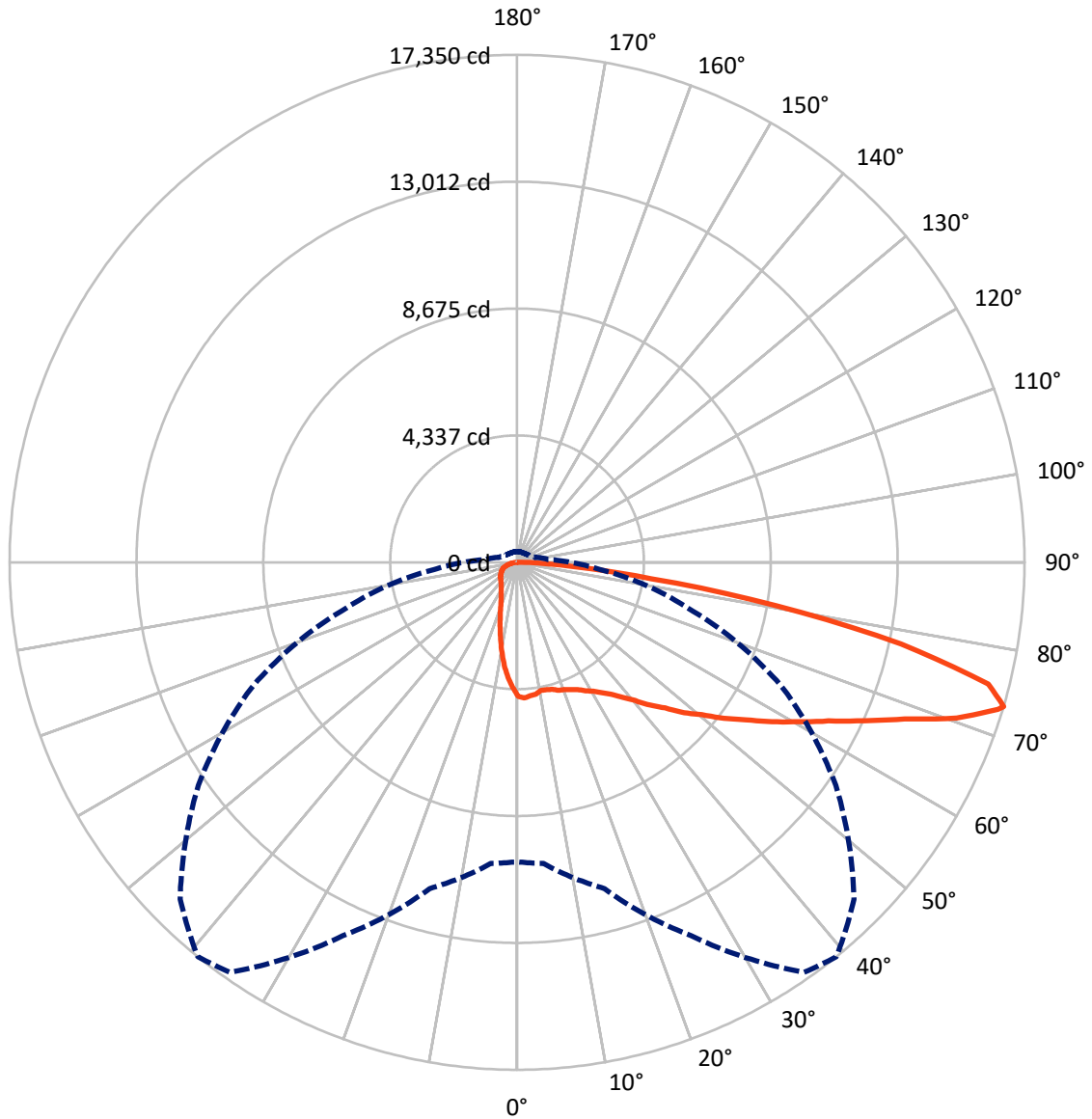
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P575049  
CATALOG NUMBER: EPH-VN-03-735-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P575049  
 CATALOG NUMBER: EPH-VN-03-735-U-SL4

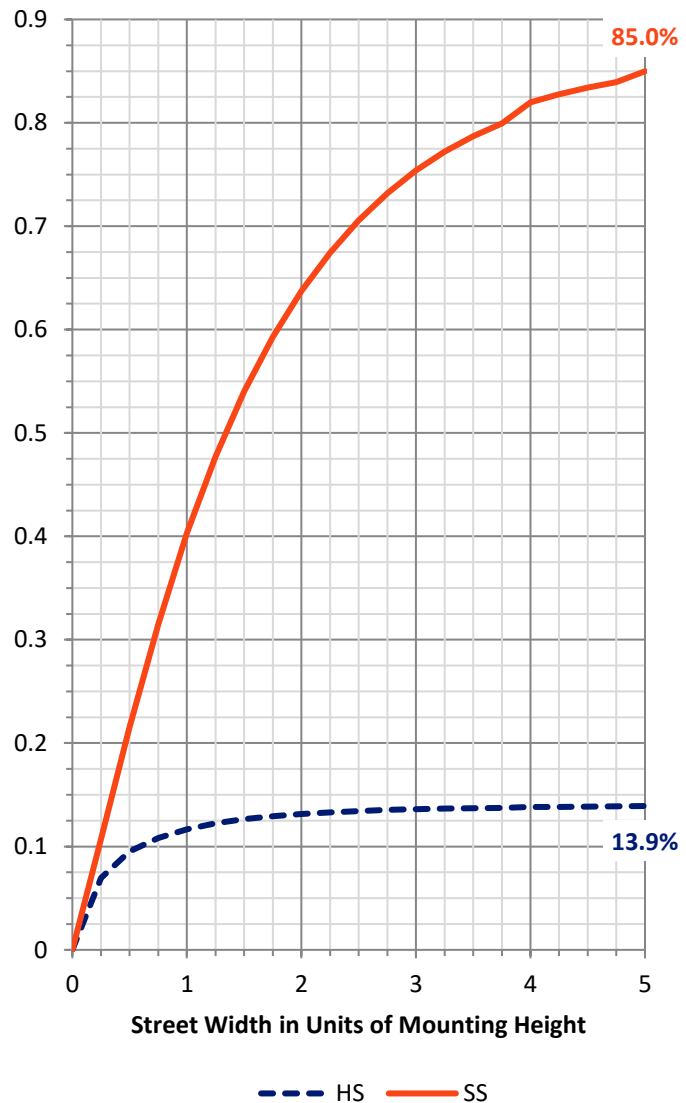
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3617.4	0.0	3617.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	22116.0	0.0	22116.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	25733.3	0.0	25733.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.6	1.5
10°-20°	1010.9	3.9
20°-30°	1544.7	6.0
30°-40°	2252.2	8.8
40°-50°	3403.3	13.2
50°-60°	4928.2	19.2
60°-70°	6261.6	24.3
70°-80°	5076.0	19.7
80°-90°	858.8	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°	25733.3	100.0
0°-180°	25733.3	100.0

**Coefficient of Utilization**



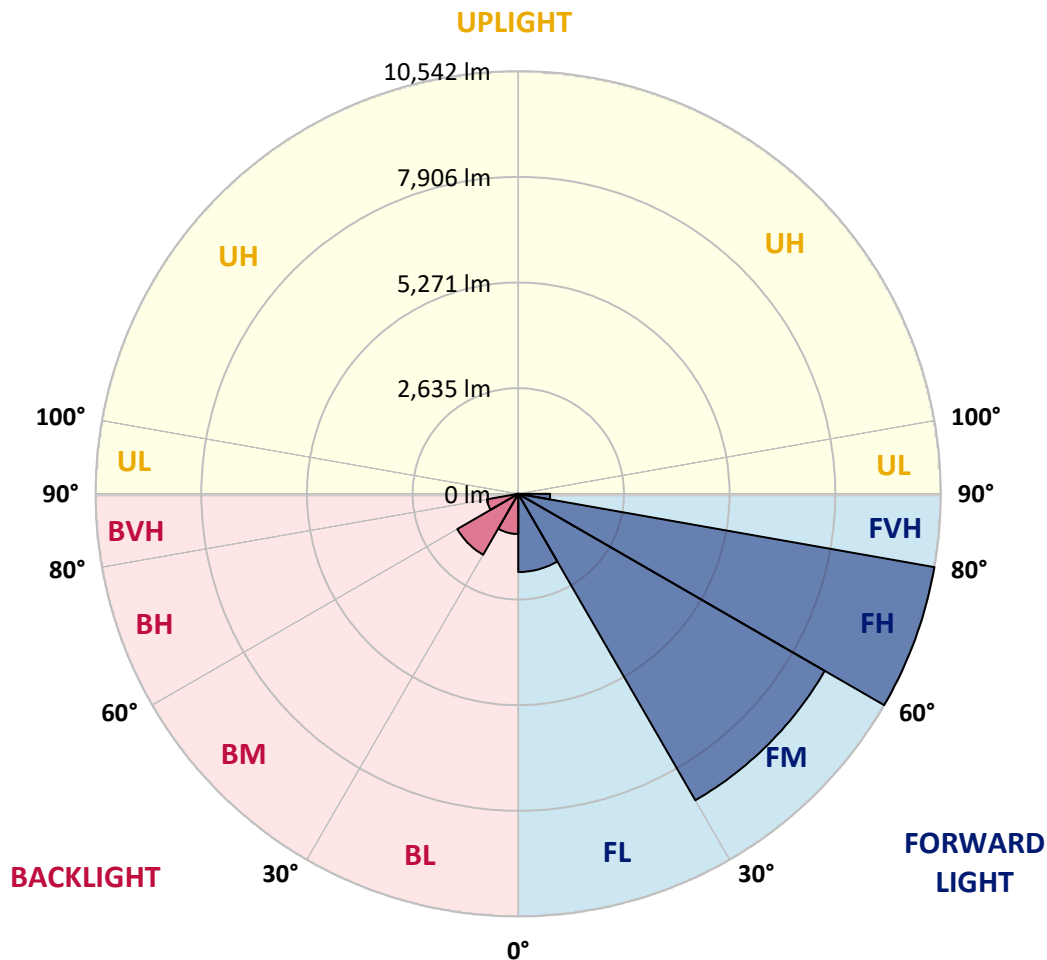
REPORT NUMBER: P575049  
 CATALOG NUMBER: EPH-VN-03-735-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.0	7.6			
FM (30°-60°)	8828.2	34.3			
FH (60°-80°)	10541.9	41.0			G4/12000
FVH (80°-90°)	795.8	3.1			G5
BL (0°-30°)	1003.2	3.9	B3/2500		
BM (30°-60°)	1755.6	6.8	B2/2500		
BH (60°-80°)	795.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	63.0	0.2			G1/100
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





REPORT NUMBER: P575049  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7
2.5°	4690.1	4641.2	4649.8	4632.5	4649.8	4644.0	4635.4	4592.2	4635.4	4592.2
5°	4626.8	4626.8	4655.5	4612.4	4618.1	4589.3	4618.1	4586.4	4557.7	4485.7
7.5°	4606.6	4603.7	4606.6	4546.1	4574.9	4557.7	4528.9	4494.3	4436.7	4390.7
10°	4468.4	4497.2	4465.5	4482.8	4505.8	4454.0	4451.1	4442.5	4416.6	4356.1
12.5°	4393.5	4442.5	4459.8	4445.4	4465.5	4471.3	4454.0	4442.5	4410.8	4370.5
15°	4425.2	4367.6	4416.6	4511.6	4491.4	4505.8	4508.7	4497.2	4482.8	4407.9
17.5°	4433.9	4399.3	4503.0	4523.1	4549.0	4600.8	4566.3	4563.4	4508.7	4456.9
20°	4454.0	4439.6	4523.1	4629.6	4632.5	4641.2	4658.4	4615.2	4586.4	4497.2
22.5°	4528.9	4577.8	4655.5	4701.6	4727.5	4733.3	4733.3	4646.9	4615.2	4543.3
25°	4753.4	4701.6	4811.0	4865.7	4828.3	4819.7	4799.5	4721.8	4687.2	4623.9
27.5°	4917.5	4914.7	4978.0	5052.9	4952.1	4972.3	4900.3	4877.2	4799.5	4765.0
30°	5142.1	5205.5	5202.6	5225.6	5093.2	5116.2	5024.1	4980.9	4937.7	4957.9
32.5°	5430.0	5407.0	5444.4	5427.2	5294.7	5314.9	5205.5	5139.2	5153.6	5214.1
35°	5614.3	5591.3	5605.7	5605.7	5565.4	5542.3	5496.3	5409.9	5479.0	5591.3
37.5°	5813.0	5841.7	5925.2	5908.0	5856.1	5856.1	5850.4	5789.9	5879.2	6155.6
40°	5988.6	6066.3	6118.1	6152.7	6213.2	6213.2	6262.1	6227.6	6388.8	6832.2
42.5°	6172.8	6175.7	6457.9	6483.8	6619.1	6676.7	6714.1	6742.9	7045.2	7540.4
45°	6408.9	6423.3	6670.9	6869.6	7079.8	7099.9	7241.0	7336.0	7707.4	8314.9
47.5°	6719.9	6702.6	6967.5	7284.2	7546.2	7684.4	7854.3	7957.9	8415.7	9155.6
50°	7128.7	7076.9	7229.5	7727.6	8035.6	8188.2	8490.5	8663.3	9198.8	9958.9
52.5°	7626.8	7540.4	7661.4	8205.5	8551.0	8859.1	9147.0	9339.9	9898.4	10580.8
55°	8153.7	7975.2	8009.7	8712.2	9210.3	9501.1	9895.6	10097.1	10667.2	11139.3
57.5°	8674.8	8562.5	8493.4	9198.8	9996.3	10275.6	10638.4	10900.4	11384.1	11634.5
60°	9112.4	9083.6	8971.4	9953.1	10828.4	11067.4	11447.4	11608.6	11974.3	12092.3
62.5°	9472.3	9374.4	9552.9	10560.6	11674.9	11945.5	12363.0	12377.4	12636.5	12377.4
65°	9754.5	9760.2	10045.3	11294.8	12653.8	13054.0	13390.8	13353.4	13186.4	12207.5
67.5°	10010.7	10120.1	10537.6	12101.0	13911.9	14289.1	14663.4	14168.2	13336.1	11412.9
70°	10212.3	10321.7	11202.7	13082.7	15394.7	15947.5	16031.0	14490.6	12648.0	9668.1
72.5°	10189.2	10387.9	11579.8	13865.9	16710.4	17188.4	16514.7	13583.7	10537.6	6740.0
73°	10238.2	10336.1	11548.2	14084.7	17110.6	17349.6	16290.1	13298.7	9938.7	6046.2
75°	9293.8	9624.9	10975.2	13727.7	16681.7	16638.5	15000.2	11081.8	7065.4	3175.7
77.5°	6875.4	7085.5	8648.9	11289.1	13693.1	13416.7	11315.0	7082.7	3354.2	1177.6
80°	3359.9	3524.1	4583.6	6518.3	8954.1	8977.1	7022.2	3685.3	1436.7	665.1
82.5°	1678.5	1776.4	2202.5	2864.7	4405.1	4615.2	3561.5	2096.0	889.7	377.2
85°	1096.9	1166.0	1356.1	1402.1	1868.6	1972.2	1658.4	1635.3	578.7	204.4
87.5°	728.4	739.9	832.1	708.3	748.6	719.8	800.4	1030.7	169.9	86.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575049

CATALOG NUMBER: EPH-VN-03-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4580.7	0°	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7	4580.7
4580.7	2.5°	4566.3	4526.0	4482.8	4422.3	4379.2	4312.9	4252.5	4226.6	4220.8	4223.7
4465.5	5°	4448.3	4390.7	4304.3	4180.5	4108.5	3999.1	3907.0	3858.0	3806.2	3814.8
4324.4	7.5°	4284.1	4220.8	4088.4	3944.4	3765.9	3610.4	3524.1	3403.1	3334.0	3282.2
4315.8	10°	4232.3	4122.9	3924.2	3725.6	3449.2	3244.8	3046.1	2907.9	2812.9	2720.8
4255.3	12.5°	4206.4	4097.0	3820.6	3526.9	3169.9	2859.0	2579.7	2409.8	2274.5	2193.9
4333.1	15°	4183.4	4048.1	3722.7	3308.1	2907.9	2499.1	2185.3	1960.7	1831.1	1753.4
4347.5	17.5°	4215.0	4022.1	3578.8	3095.1	2620.0	2182.4	1834.0	1600.8	1468.4	1419.4
4330.2	20°	4183.4	3993.3	3437.7	2882.0	2332.1	1880.1	1546.1	1353.2	1261.1	1220.7
4410.8	22.5°	4194.9	3924.2	3290.8	2645.9	2064.3	1626.7	1353.2	1206.4	1134.4	1114.2
4448.3	25°	4249.6	3883.9	3144.0	2386.8	1799.5	1439.6	1229.4	1117.1	1065.3	1045.1
4514.5	27.5°	4289.9	3918.5	3011.6	2142.1	1574.9	1272.6	1125.7	1050.9	1016.3	1001.9
4710.3	30°	4390.7	3938.6	2882.0	1923.3	1390.6	1163.2	1053.8	993.3	970.3	961.6
4978.0	32.5°	4540.4	3976.1	2732.3	1721.7	1255.3	1059.5	996.2	944.4	938.6	930.0
5277.4	35°	4785.1	4105.6	2565.3	1549.0	1125.7	990.4	935.7	901.2	901.2	901.2
5755.4	37.5°	5136.4	4287.0	2415.6	1384.9	1042.2	930.0	883.9	872.4	866.6	875.3
6339.8	40°	5588.4	4505.8	2294.7	1255.3	970.3	889.7	849.3	843.6	840.7	837.8
6964.6	42.5°	6083.6	4785.1	2191.0	1154.5	918.4	846.5	817.7	811.9	800.4	806.2
7644.1	45°	6575.9	5130.6	2098.9	1073.9	883.9	823.4	783.1	780.2	774.5	771.6
8386.9	47.5°	7123.0	5470.3	2070.1	1025.0	858.0	788.9	760.1	757.2	739.9	737.1
8896.5	50°	7549.1	5720.8	2101.8	1001.9	820.6	763.0	742.8	728.4	714.0	699.6
9273.7	52.5°	7842.7	5893.6	2124.8	984.7	800.4	728.4	702.5	696.7	682.4	668.0
9650.8	55°	8107.6	5997.2	2130.6	987.5	780.2	688.1	670.8	668.0	659.3	636.3
9970.4	57.5°	8196.9	5954.0	2015.4	961.6	768.7	662.2	639.2	644.9	633.4	613.3
9976.2	60°	8188.2	5654.6	1753.4	927.1	742.8	633.4	604.6	621.9	621.9	598.9
9682.5	62.5°	7690.1	4963.6	1433.8	860.9	714.0	604.6	572.9	598.9	607.5	593.1
8988.6	65°	6656.5	4042.3	1197.7	794.6	670.8	572.9	541.3	570.1	584.5	578.7
7632.6	67.5°	5507.8	3092.2	996.2	708.3	616.1	529.8	503.8	524.0	532.6	535.5
5758.3	70°	3892.6	2058.6	832.1	613.3	541.3	483.7	454.9	457.8	454.9	463.5
3359.9	72.5°	2116.2	1186.2	676.6	521.1	466.4	420.4	400.2	385.8	385.8	382.9
2841.7	73°	1811.0	1065.3	644.9	506.7	446.3	408.8	385.8	374.3	374.3	371.4
1376.2	75°	1016.3	780.2	552.8	434.7	385.8	357.0	339.7	322.5	319.6	319.6
742.8	77.5°	668.0	607.5	440.5	348.4	310.9	285.0	279.3	262.0	262.0	262.0
506.7	80°	501.0	477.9	339.7	264.9	239.0	218.8	213.1	201.5	198.7	187.1
287.9	82.5°	334.0	377.2	247.6	187.1	161.2	149.7	149.7	146.8	138.2	123.8
233.2	85°	264.9	308.1	178.5	115.2	95.0	80.6	83.5	80.6	77.7	63.3
63.3	87.5°	48.9	123.8	51.8	31.7	23.0	14.4	14.4	8.6	5.8	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>
4580.7
4194.9
3791.8
3311.0
2761.1
2225.6
1762.0
1407.9
1212.1
1120.0
1050.9
999.1
958.7
932.8
909.8
881.0
843.6
814.8
786.0
748.6
699.6
662.2
630.5
610.4
596.0
590.2
575.8
538.4
463.5
382.9
368.5
319.6
259.1
190.0
123.8
60.5
0.0
0.0

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