

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: P575055

Luminaire Tested: **EPH-VN-03-740-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-740-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

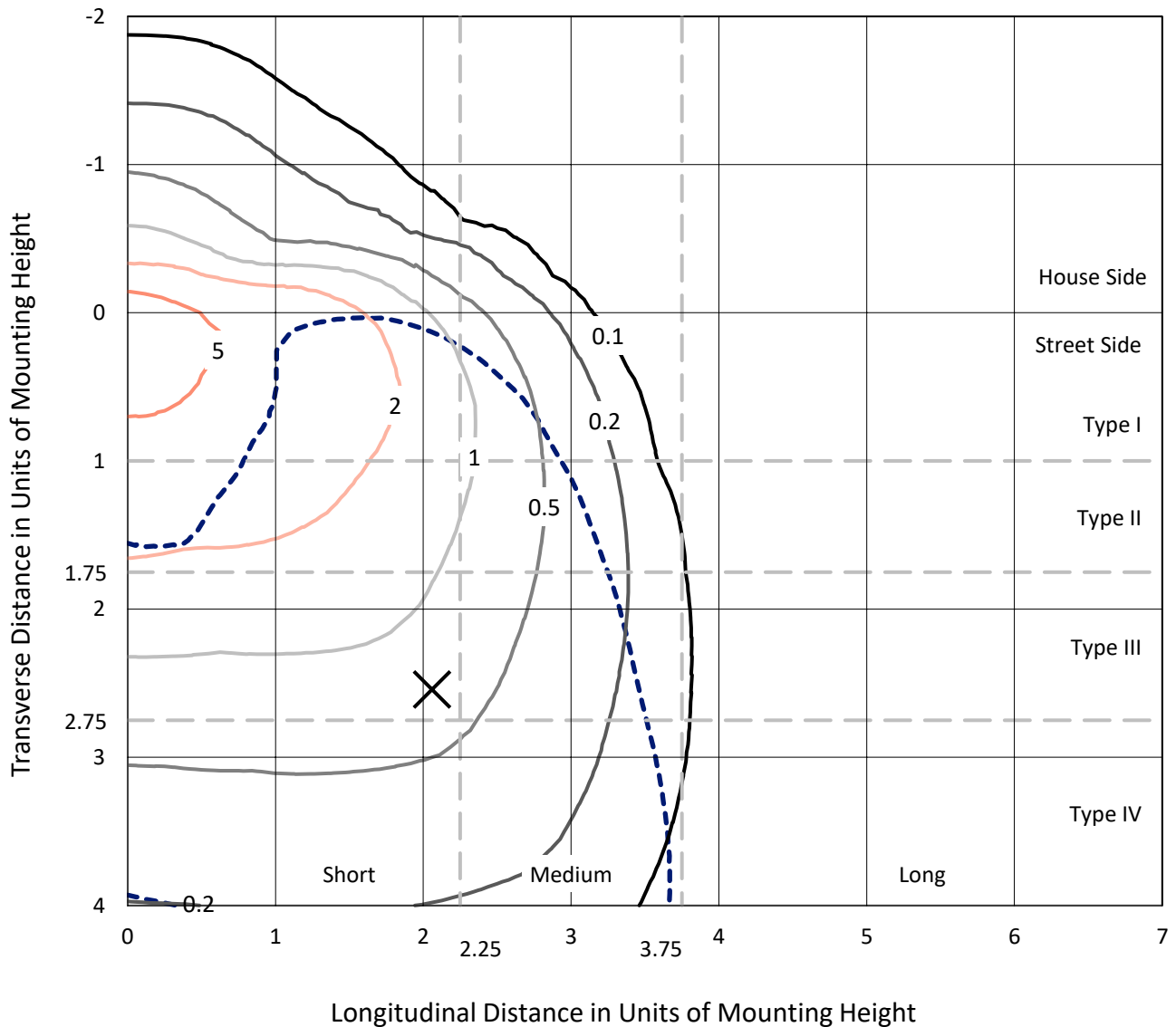
Lumens per Lamp: N/A
Luminaire Lumens: 26090.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

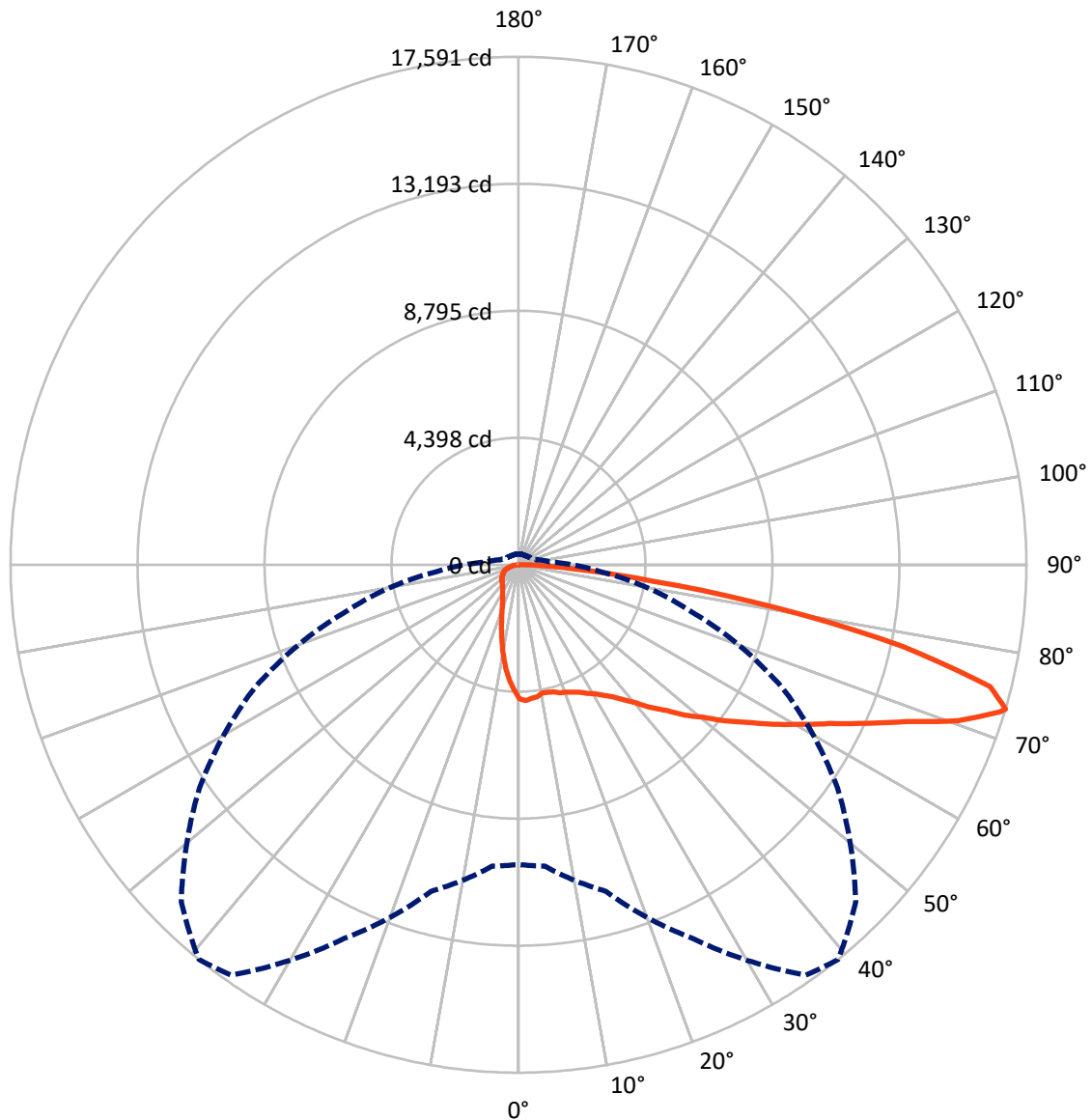
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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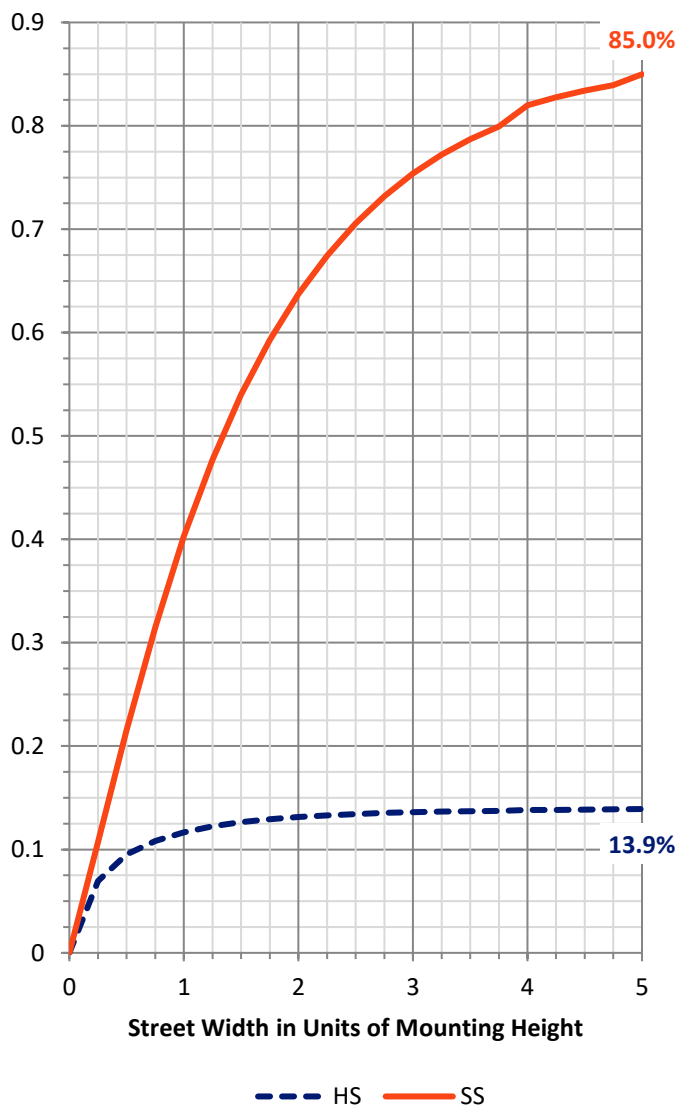
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3667.6	0.0	3667.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22423.1	0.0	22423.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	26090.8	0.0	26090.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.2	1.5
10°-20°	1024.9	3.9
20°-30°	1566.2	6.0
30°-40°	2283.5	8.8
40°-50°	3450.6	13.2
50°-60°	4996.7	19.2
60°-70°	6348.5	24.3
70°-80°	5146.5	19.7
80°-90°	870.7	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°	26090.8	100.0
0°-180°	26090.8	100.0

Coefficient of Utilization



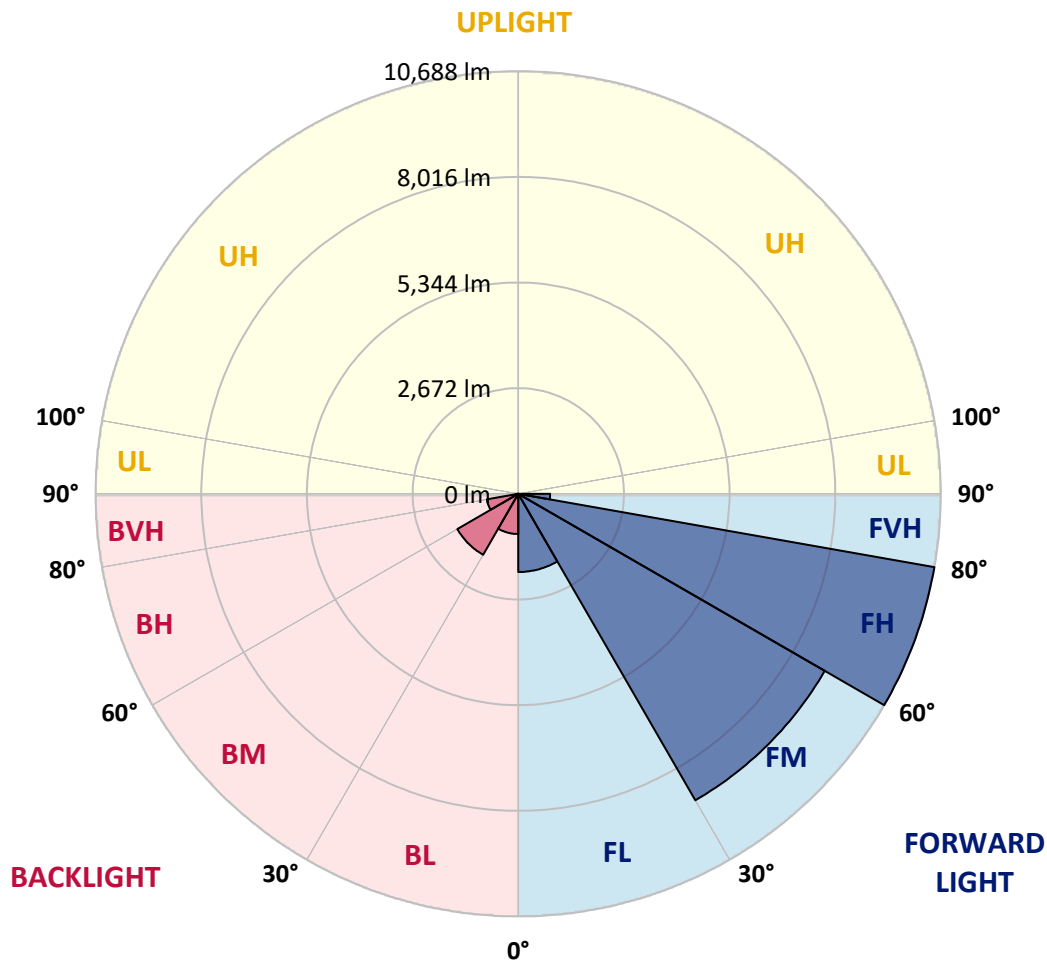
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.1	7.6			
FM (30°-60°)	8950.8	34.3			
FH (60°-80°)	10688.4	41.0			G4/12000
FVH (80°-90°)	806.9	3.1			G5
BL (0°-30°)	1017.1	3.9	B3/2500		
BM (30°-60°)	1780.0	6.8	B2/2500		
BH (60°-80°)	806.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	63.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3
2.5°	4755.2	4705.6	4714.4	4696.9	4714.4	4708.5	4699.8	4656.0	4699.8	4656.0
5°	4691.0	4691.0	4720.2	4676.4	4682.3	4653.1	4682.3	4650.2	4621.0	4548.0
7.5°	4670.6	4667.7	4670.6	4609.3	4638.5	4621.0	4591.8	4556.7	4498.4	4451.7
10°	4530.5	4559.7	4527.6	4545.1	4568.4	4515.9	4513.0	4504.2	4477.9	4416.6
12.5°	4454.6	4504.2	4521.7	4507.1	4527.6	4533.4	4515.9	4504.2	4472.1	4431.2
15°	4486.7	4428.3	4477.9	4574.3	4553.8	4568.4	4571.3	4559.7	4545.1	4469.2
17.5°	4495.4	4460.4	4565.5	4585.9	4612.2	4664.8	4629.7	4626.8	4571.3	4518.8
20°	4515.9	4501.3	4585.9	4693.9	4696.9	4705.6	4723.1	4679.3	4650.2	4559.7
22.5°	4591.8	4641.4	4720.2	4766.9	4793.2	4799.0	4799.0	4711.5	4679.3	4606.4
25°	4819.5	4766.9	4877.8	4933.3	4895.4	4886.6	4866.2	4787.4	4752.3	4688.1
27.5°	4985.9	4982.9	5047.2	5123.1	5020.9	5041.3	4968.3	4945.0	4866.2	4831.1
30°	5213.5	5277.8	5274.8	5298.2	5163.9	5187.3	5093.9	5050.1	5006.3	5026.7
32.5°	5505.5	5482.1	5520.1	5502.5	5368.3	5388.7	5277.8	5210.6	5225.2	5286.5
35°	5692.3	5668.9	5683.5	5683.5	5642.7	5619.3	5572.6	5485.0	5555.1	5668.9
37.5°	5893.7	5922.9	6007.5	5990.0	5937.5	5937.5	5931.6	5870.3	5960.8	6241.1
40°	6071.8	6150.6	6203.1	6238.2	6299.5	6299.5	6349.1	6314.1	6477.5	6927.1
42.5°	6258.6	6261.5	6547.6	6573.9	6711.1	6769.4	6807.4	6836.6	7143.1	7645.2
45°	6498.0	6512.6	6763.6	6965.0	7178.1	7198.5	7341.6	7437.9	7814.5	8430.4
47.5°	6813.2	6795.7	7064.3	7385.4	7651.0	7791.1	7963.4	8068.4	8532.6	9282.8
50°	7227.7	7175.2	7329.9	7834.9	8147.3	8302.0	8608.5	8783.6	9326.6	10097.2
52.5°	7732.7	7645.2	7767.8	8319.5	8669.8	8982.1	9274.0	9469.6	10035.9	10727.8
55°	8266.9	8086.0	8121.0	8833.3	9338.3	9633.1	10033.0	10237.3	10815.3	11294.1
57.5°	8795.3	8681.5	8611.4	9326.6	10135.2	10418.3	10786.1	11051.8	11542.2	11796.2
60°	9239.0	9209.8	9096.0	10091.4	10978.8	11221.1	11606.4	11769.9	12140.6	12260.3
62.5°	9603.9	9504.6	9685.6	10707.3	11837.0	12111.4	12534.7	12549.3	12812.0	12549.3
65°	9890.0	9895.8	10184.8	11451.7	12829.5	13235.3	13576.8	13538.9	13369.6	12377.1
67.5°	10149.8	10260.7	10684.0	12269.1	14105.2	14487.6	14867.1	14365.0	13521.4	11571.4
70°	10354.1	10465.0	11358.3	13264.5	15608.5	16169.0	16253.7	14691.9	12823.7	9802.4
72.5°	10330.8	10532.2	11740.7	14058.5	16942.6	17427.1	16744.1	13772.4	10684.0	6833.7
73°	10380.4	10479.6	11708.6	14280.3	17348.3	17590.6	16516.4	13483.4	10076.8	6130.1
75°	9422.9	9758.6	11127.7	13918.4	16913.4	16869.6	15208.6	11235.7	7163.5	3219.8
77.5°	6970.9	7183.9	8769.0	11445.9	13883.3	13603.1	11472.1	7181.0	3400.8	1193.9
80°	3406.6	3573.0	4647.2	6608.9	9078.5	9101.8	7119.7	3736.5	1456.6	674.3
82.5°	1701.8	1801.1	2233.1	2904.5	4466.3	4679.3	3610.9	2125.1	902.0	382.4
85°	1112.2	1182.2	1374.9	1421.6	1894.5	1999.6	1681.4	1658.1	586.7	207.3
87.5°	738.5	750.2	843.6	718.1	759.0	729.8	811.5	1045.0	172.2	87.6
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°
4644.3	0°	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3
4644.3	2.5°	4629.7	4588.9	4545.1	4483.8	4440.0	4372.8	4311.5	4285.3	4279.4	4282.3
4527.6	5°	4510.0	4451.7	4364.1	4238.6	4165.6	4054.7	3961.2	3911.6	3859.1	3867.8
4384.5	7.5°	4343.6	4279.4	4145.1	3999.2	3818.2	3660.6	3573.0	3450.4	3380.3	3327.8
4375.8	10°	4291.1	4180.2	3978.8	3777.3	3497.1	3289.8	3088.4	2948.3	2852.0	2758.6
4314.5	12.5°	4264.8	4153.9	3873.7	3575.9	3213.9	2898.7	2615.5	2443.3	2306.1	2224.4
4393.3	15°	4241.5	4104.3	3774.4	3354.1	2948.3	2533.8	2215.6	1987.9	1856.6	1777.7
4407.9	17.5°	4273.6	4078.0	3628.5	3138.1	2656.4	2212.7	1859.5	1623.0	1488.8	1439.1
4390.4	20°	4241.5	4048.8	3485.4	2922.0	2364.5	1906.2	1567.6	1372.0	1278.6	1237.7
4472.1	22.5°	4253.2	3978.8	3336.6	2682.7	2093.0	1649.3	1372.0	1223.1	1150.1	1129.7
4510.0	25°	4308.6	3937.9	3187.7	2419.9	1824.4	1459.6	1246.5	1132.6	1080.1	1059.6
4577.2	27.5°	4349.5	3972.9	3053.4	2171.8	1596.8	1290.3	1141.4	1065.5	1030.4	1015.9
4775.7	30°	4451.7	3993.4	2922.0	1950.0	1409.9	1179.3	1068.4	1007.1	983.7	975.0
5047.2	32.5°	4603.4	4031.3	2770.2	1745.6	1272.7	1074.2	1010.0	957.5	951.6	942.9
5350.7	35°	4851.6	4162.7	2600.9	1570.5	1141.4	1004.2	948.7	913.7	913.7	913.7
5835.3	37.5°	5207.7	4346.6	2449.1	1404.1	1056.7	942.9	896.2	884.5	878.7	887.4
6427.9	40°	5666.0	4568.4	2326.5	1272.7	983.7	902.0	861.1	855.3	852.4	849.5
7061.3	42.5°	6168.1	4851.6	2221.4	1170.6	931.2	858.2	829.0	823.2	811.5	817.4
7750.3	45°	6667.3	5201.9	2128.0	1088.8	896.2	834.9	794.0	791.1	785.2	782.3
8503.4	47.5°	7221.9	5546.3	2098.8	1039.2	869.9	799.8	770.6	767.7	750.2	747.3
9020.1	50°	7653.9	5800.3	2131.0	1015.9	831.9	773.6	753.1	738.5	723.9	709.3
9402.5	52.5°	7951.7	5975.4	2154.3	998.3	811.5	738.5	712.3	706.4	691.8	677.2
9784.9	55°	8220.2	6080.5	2160.1	1001.3	791.1	697.7	680.2	677.2	668.5	645.1
10108.9	57.5°	8310.7	6036.7	2043.4	975.0	779.4	671.4	648.0	653.9	642.2	621.8
10114.7	60°	8302.0	5733.1	1777.7	940.0	753.1	642.2	613.0	630.5	630.5	607.2
9817.0	62.5°	7797.0	5032.6	1453.7	872.8	723.9	613.0	580.9	607.2	615.9	601.3
9113.5	65°	6749.0	4098.4	1214.4	805.7	680.2	580.9	548.8	578.0	592.6	586.7
7738.6	67.5°	5584.3	3135.1	1010.0	718.1	624.7	537.1	510.8	531.3	540.0	543.0
5838.2	70°	3946.6	2087.2	843.6	621.8	548.8	490.4	461.2	464.1	461.2	470.0
3406.6	72.5°	2145.6	1202.7	686.0	528.4	472.9	426.2	405.8	391.2	391.2	388.2
2881.2	73°	1836.1	1080.1	653.9	513.8	452.5	414.5	391.2	379.5	379.5	376.6
1395.3	75°	1030.4	791.1	560.5	440.8	391.2	362.0	344.5	326.9	324.0	324.0
753.1	77.5°	677.2	615.9	446.6	353.2	315.3	289.0	283.2	265.6	265.6	265.6
513.8	80°	507.9	484.6	344.5	268.6	242.3	221.9	216.0	204.3	201.4	189.7
291.9	82.5°	338.6	382.4	251.0	189.7	163.5	151.8	151.8	148.9	140.1	125.5
236.4	85°	268.6	312.3	181.0	116.8	96.3	81.7	84.7	81.7	78.8	64.2
64.2	87.5°	49.6	125.5	52.5	32.1	23.4	14.6	14.6	8.8	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>
4644.3
4253.2
3844.5
3357.0
2799.4
2256.5
1786.5
1427.4
1228.9
1135.5
1065.5
1012.9
972.1
945.8
922.4
893.3
855.3
826.1
796.9
759.0
709.3
671.4
639.3
618.9
604.3
598.4
583.8
545.9
470.0
388.2
373.6
324.0
262.7
192.7
125.5
61.3
0.0
0.0

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