

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: P575043

Luminaire Tested: **EPH-VN-03-730-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

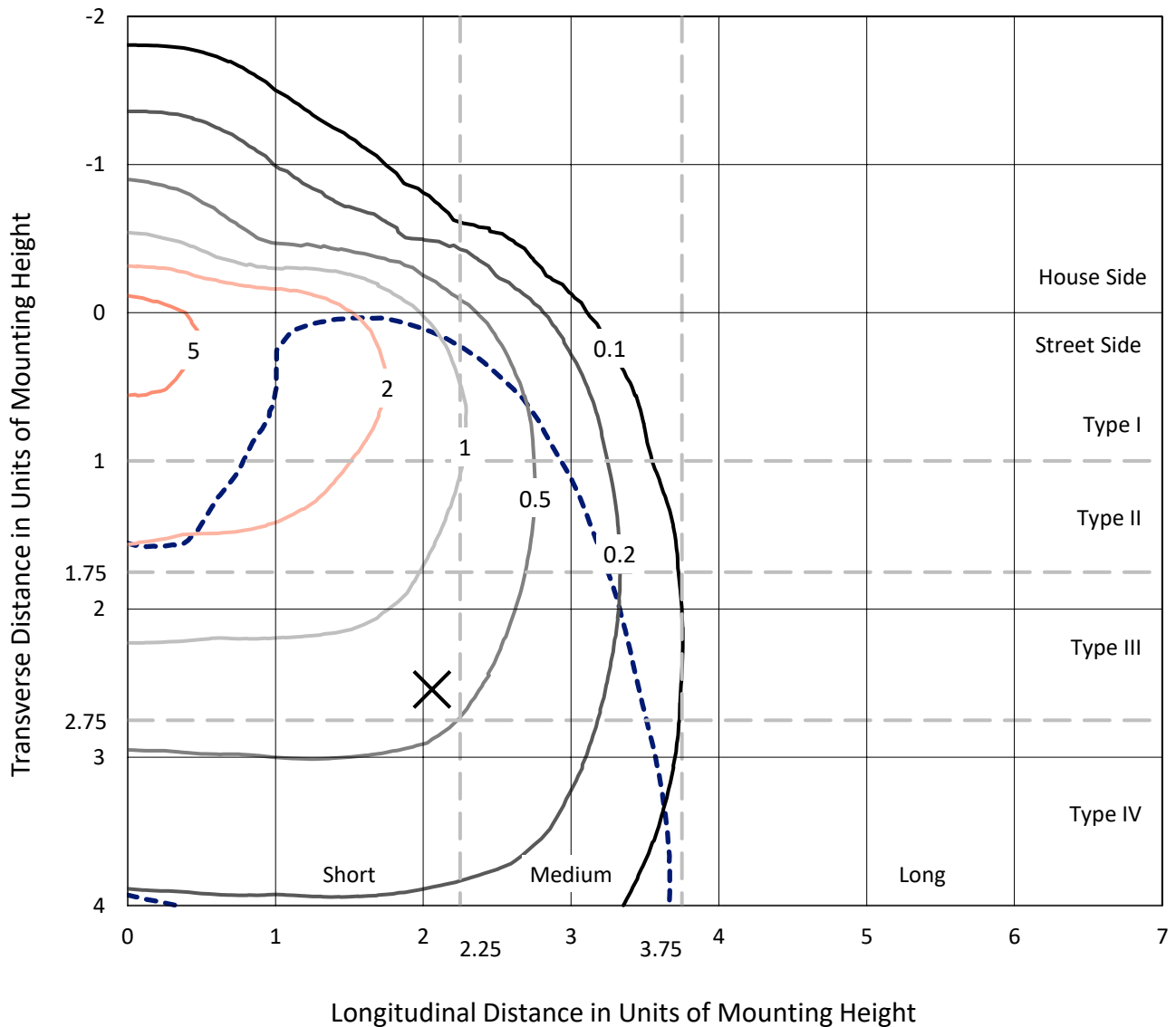
Lumens per Lamp: N/A
Luminaire Lumens: 23758.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

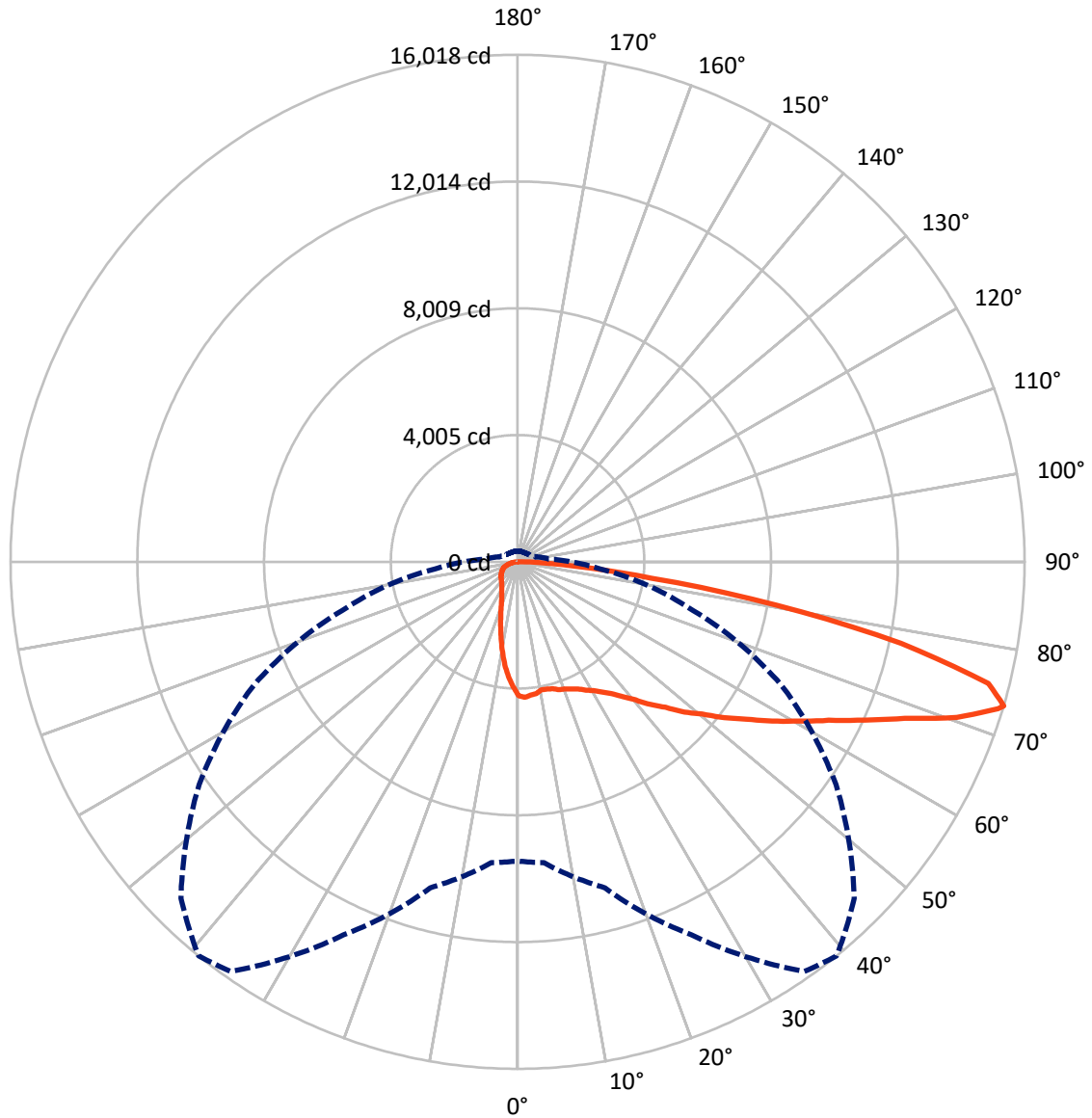
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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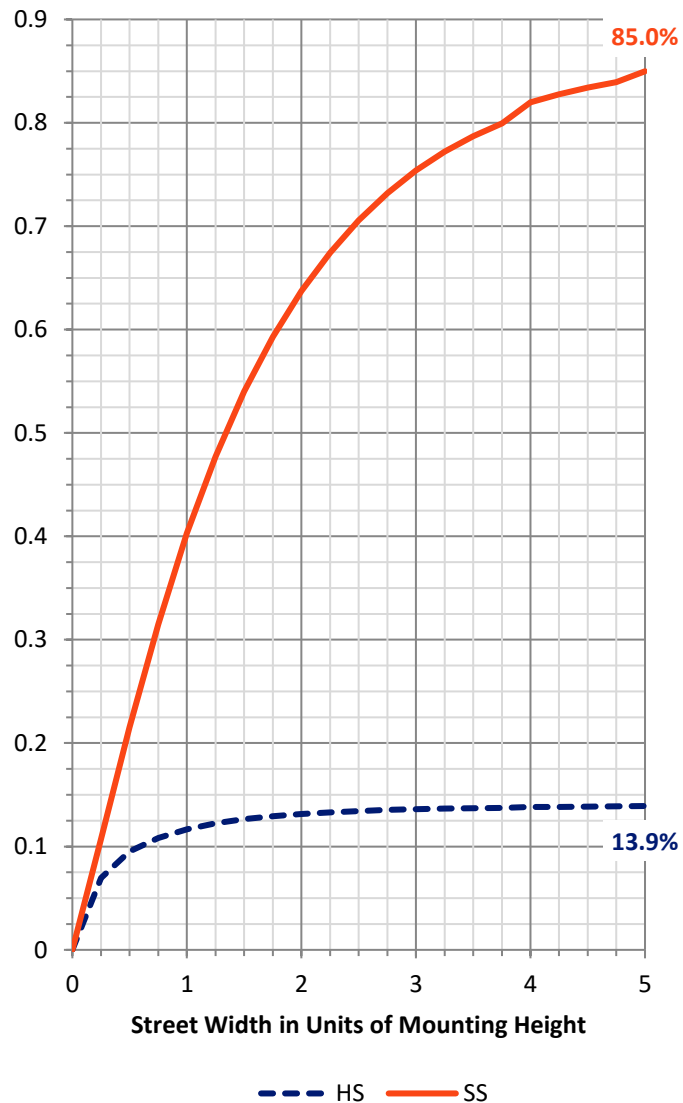
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3339.7	0.0	3339.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20418.5	0.0	20418.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	23758.3	0.0	23758.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.1	1.5
10°-20°	933.3	3.9
20°-30°	1426.1	6.0
30°-40°	2079.4	8.8
40°-50°	3142.1	13.2
50°-60°	4550.0	19.2
60°-70°	5781.0	24.3
70°-80°	4686.4	19.7
80°-90°	792.9	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°	23758.3	100.0
0°-180°	23758.3	100.0

Coefficient of Utilization



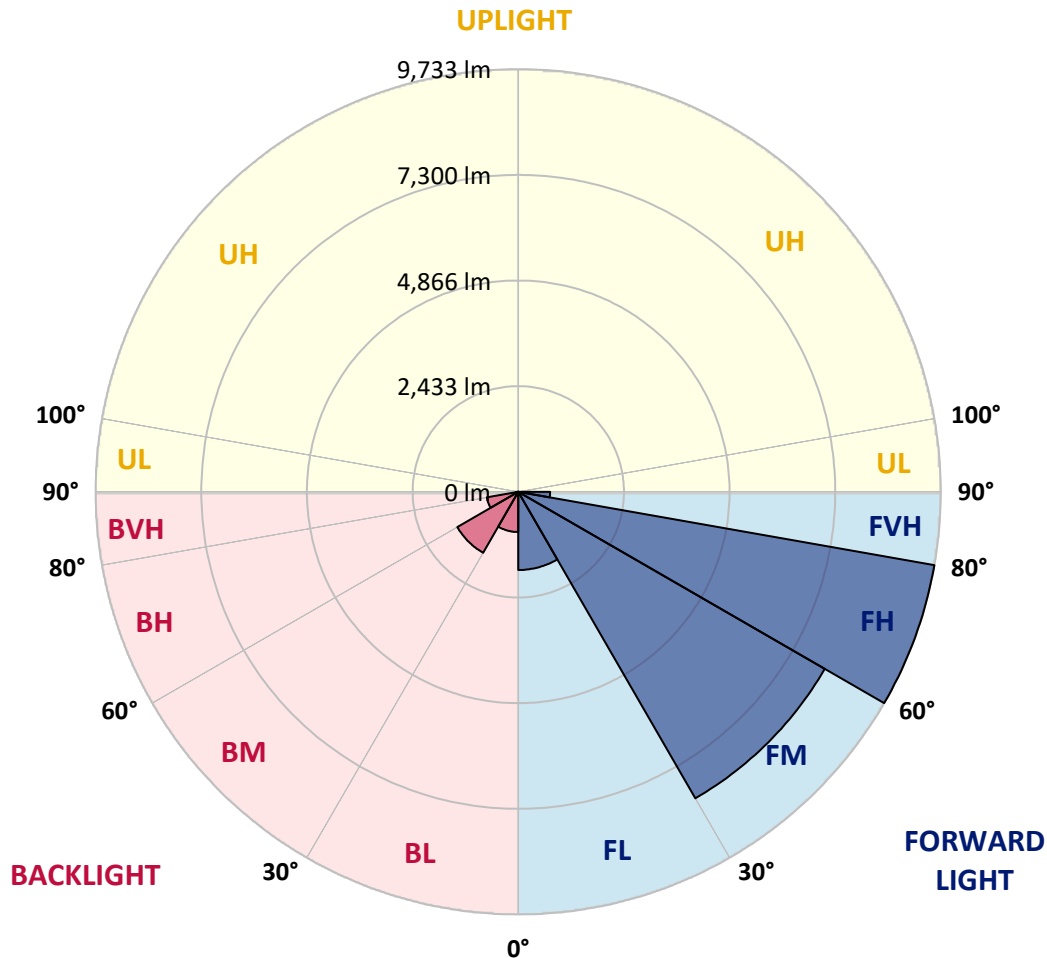
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.4	7.6			
FM (30°-60°)	8150.6	34.3			
FH (60°-80°)	9732.8	41.0			G4/12000
FVH (80°-90°)	734.7	3.1			G4/750
BL (0°-30°)	926.2	3.9	B2/1000		
BM (30°-60°)	1620.9	6.8	B2/2500		
BH (60°-80°)	734.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	58.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1
2.5°	4330.1	4284.9	4292.9	4277.0	4292.9	4287.6	4279.6	4239.7	4279.6	4239.7
5°	4271.6	4271.6	4298.2	4258.4	4263.7	4237.1	4263.7	4234.4	4207.8	4141.4
7.5°	4253.0	4250.4	4253.0	4197.2	4223.8	4207.8	4181.3	4149.4	4096.2	4053.7
10°	4125.4	4152.0	4122.8	4138.7	4160.0	4112.2	4109.5	4101.5	4077.6	4021.8
12.5°	4056.3	4101.5	4117.5	4104.2	4122.8	4128.1	4112.2	4101.5	4072.3	4035.1
15°	4085.6	4032.4	4077.6	4165.3	4146.7	4160.0	4162.7	4152.0	4138.7	4069.6
17.5°	4093.5	4061.7	4157.3	4176.0	4199.9	4247.7	4215.8	4213.2	4162.7	4114.8
20°	4112.2	4098.9	4176.0	4274.3	4277.0	4284.9	4300.9	4261.0	4234.4	4152.0
22.5°	4181.3	4226.5	4298.2	4340.8	4364.7	4370.0	4370.0	4290.3	4261.0	4194.6
25°	4388.6	4340.8	4441.8	4492.3	4457.7	4449.7	4431.1	4359.4	4327.5	4269.0
27.5°	4540.1	4537.5	4595.9	4665.1	4572.0	4590.6	4524.2	4502.9	4431.1	4399.2
30°	4747.5	4805.9	4803.3	4824.5	4702.3	4723.5	4638.5	4598.6	4558.7	4577.3
32.5°	5013.3	4992.0	5026.6	5010.6	4888.3	4906.9	4805.9	4744.8	4758.1	4813.9
35°	5183.4	5162.1	5175.4	5175.4	5138.2	5116.9	5074.4	4994.7	5058.5	5162.1
37.5°	5366.8	5393.4	5470.5	5454.5	5406.7	5406.7	5401.4	5345.5	5427.9	5683.1
40°	5529.0	5600.7	5648.6	5680.5	5736.3	5736.3	5781.5	5749.6	5898.4	6307.8
42.5°	5699.1	5701.7	5962.2	5986.2	6111.1	6164.2	6198.8	6225.4	6504.5	6961.7
45°	5917.0	5930.3	6158.9	6342.3	6536.4	6555.0	6685.2	6773.0	7115.9	7676.7
47.5°	6204.1	6188.2	6432.7	6725.1	6967.0	7094.6	7251.4	7347.1	7769.8	8452.9
50°	6581.6	6533.7	6674.6	7134.5	7418.9	7559.8	7838.9	7998.4	8492.8	9194.5
52.5°	7041.4	6961.7	7073.3	7575.7	7894.7	8179.1	8444.9	8623.0	9138.7	9768.7
55°	7527.9	7363.1	7395.0	8043.6	8503.4	8771.9	9136.1	9322.1	9848.4	10284.4
57.5°	8009.0	7905.3	7841.5	8492.8	9229.1	9486.9	9821.9	10063.8	10510.3	10741.6
60°	8413.0	8386.5	8282.8	9189.2	9997.3	10217.9	10568.8	10717.7	11055.2	11164.2
62.5°	8745.3	8654.9	8819.7	9750.1	10778.8	11028.7	11414.1	11427.4	11666.6	11427.4
65°	9005.8	9011.1	9274.3	10427.9	11682.6	12052.0	12363.1	12328.5	12174.3	11270.6
67.5°	9242.4	9343.4	9728.8	11172.2	12844.2	13192.4	13538.0	13080.8	12312.5	10536.9
70°	9428.5	9529.5	10342.9	12078.6	14213.1	14723.5	14800.6	13378.5	11677.2	8926.1
72.5°	9407.2	9590.6	10691.1	12801.6	15427.9	15869.1	15247.1	12541.1	9728.8	6222.7
73°	9452.4	9542.8	10661.8	13003.7	15797.4	16018.0	15039.8	12278.0	9175.9	5582.1
75°	8580.5	8886.2	10132.9	12674.1	15401.3	15361.4	13849.0	10231.2	6523.1	2931.9
77.5°	6347.7	6541.7	7985.1	10422.6	12642.2	12387.0	10446.5	6539.0	3096.7	1087.2
80°	3102.1	3253.6	4231.8	6018.0	8266.8	8288.1	6483.2	3402.4	1326.4	614.0
82.5°	1549.7	1640.1	2033.5	2644.9	4067.0	4261.0	3288.1	1935.1	821.4	348.2
85°	1012.8	1076.6	1252.0	1294.5	1725.1	1820.8	1531.1	1509.8	534.3	188.7
87.5°	672.5	683.1	768.2	653.9	691.1	664.5	739.0	951.6	156.8	79.7
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°
4229.1	0°	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1
4229.1	2.5°	4215.8	4178.6	4138.7	4082.9	4043.0	3981.9	3926.1	3902.2	3896.8	3899.5
4122.8	5°	4106.8	4053.7	3973.9	3859.6	3793.2	3692.2	3607.1	3561.9	3514.1	3522.0
3992.5	7.5°	3955.3	3896.8	3774.6	3641.7	3476.9	3333.3	3253.6	3141.9	3078.1	3030.3
3984.6	10°	3907.5	3806.5	3623.1	3439.6	3184.5	2995.7	2812.3	2684.7	2597.0	2512.0
3928.7	12.5°	3883.6	3782.5	3527.4	3256.2	2926.6	2639.5	2381.7	2224.9	2099.9	2025.5
4000.5	15°	3862.3	3737.4	3437.0	3054.2	2684.7	2307.3	2017.5	1810.2	1690.6	1618.8
4013.8	17.5°	3891.5	3713.4	3304.1	2857.5	2418.9	2014.9	1693.2	1477.9	1355.7	1310.5
3997.9	20°	3862.3	3686.9	3173.8	2660.8	2153.1	1735.8	1427.4	1249.3	1164.3	1127.1
4072.3	22.5°	3872.9	3623.1	3038.3	2442.8	1905.9	1501.9	1249.3	1113.8	1047.3	1028.7
4106.8	25°	3923.4	3585.8	2902.7	2203.6	1661.3	1329.1	1135.0	1031.4	983.5	964.9
4168.0	27.5°	3960.6	3617.7	2780.4	1977.7	1454.0	1174.9	1039.3	970.2	938.3	925.0
4348.7	30°	4053.7	3636.3	2660.8	1775.6	1283.9	1073.9	972.9	917.1	895.8	887.8
4595.9	32.5°	4191.9	3670.9	2522.6	1589.6	1159.0	978.2	919.7	871.9	866.6	858.6
4872.4	35°	4417.8	3790.5	2368.4	1430.1	1039.3	914.4	863.9	832.0	832.0	832.0
5313.6	37.5°	4742.1	3958.0	2230.2	1278.6	962.2	858.6	816.1	805.4	800.1	808.1
5853.2	40°	5159.5	4160.0	2118.5	1159.0	895.8	821.4	784.2	778.8	776.2	773.5
6430.1	42.5°	5616.7	4417.8	2022.9	1065.9	847.9	781.5	754.9	749.6	739.0	744.3
7057.4	45°	6071.2	4736.8	1937.8	991.5	816.1	760.2	723.0	720.4	715.0	712.4
7743.2	47.5°	6576.3	5050.5	1911.2	946.3	792.1	728.3	701.8	699.1	683.1	680.5
8213.7	50°	6969.7	5281.7	1940.4	925.0	757.6	704.4	685.8	672.5	659.2	645.9
8561.9	52.5°	7240.8	5441.2	1961.7	909.1	739.0	672.5	648.6	643.3	630.0	616.7
8910.1	55°	7485.3	5536.9	1967.0	911.7	720.4	635.3	619.3	616.7	608.7	587.5
9205.2	57.5°	7567.8	5497.1	1860.7	887.8	709.7	611.4	590.1	595.4	584.8	566.2
9210.5	60°	7559.8	5220.6	1618.8	855.9	685.8	584.8	558.2	574.2	574.2	552.9
8939.4	62.5°	7099.9	4582.6	1323.8	794.8	659.2	558.2	529.0	552.9	560.9	547.6
8298.7	65°	6145.6	3732.0	1105.8	733.6	619.3	529.0	499.7	526.3	539.6	534.3
7046.8	67.5°	5085.0	2854.9	919.7	653.9	568.8	489.1	465.2	483.8	491.8	494.4
5316.3	70°	3593.8	1900.6	768.2	566.2	499.7	446.6	420.0	422.6	420.0	428.0
3102.1	72.5°	1953.7	1095.2	624.7	481.1	430.6	388.1	369.5	356.2	356.2	353.5
2623.6	73°	1672.0	983.5	595.4	467.8	412.0	377.5	356.2	345.6	345.6	342.9
1270.6	75°	938.3	720.4	510.4	401.4	356.2	329.6	313.7	297.7	295.1	295.1
685.8	77.5°	616.7	560.9	406.7	321.6	287.1	263.2	257.8	241.9	241.9	241.9
467.8	80°	462.5	441.3	313.7	244.5	220.6	202.0	196.7	186.1	183.4	172.8
265.8	82.5°	308.3	348.2	228.6	172.8	148.9	138.2	138.2	135.6	127.6	114.3
215.3	85°	244.5	284.4	164.8	106.3	87.7	74.4	77.1	74.4	71.8	58.5
58.5	87.5°	45.2	114.3	47.8	29.2	21.3	13.3	13.3	8.0	5.3	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



180°
4229.1
3872.9
3500.8
3056.9
2549.2
2054.7
1626.8
1299.8
1119.1
1034.0
970.2
922.4
885.2
861.2
840.0
813.4
778.8
752.3
725.7
691.1
645.9
611.4
582.1
563.5
550.2
544.9
531.6
497.1
428.0
353.5
340.2
295.1
239.2
175.4
114.3
55.8
0.0
0.0

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