

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: P575226

Luminaire Tested: **EPH-VN-08-750-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575226
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-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

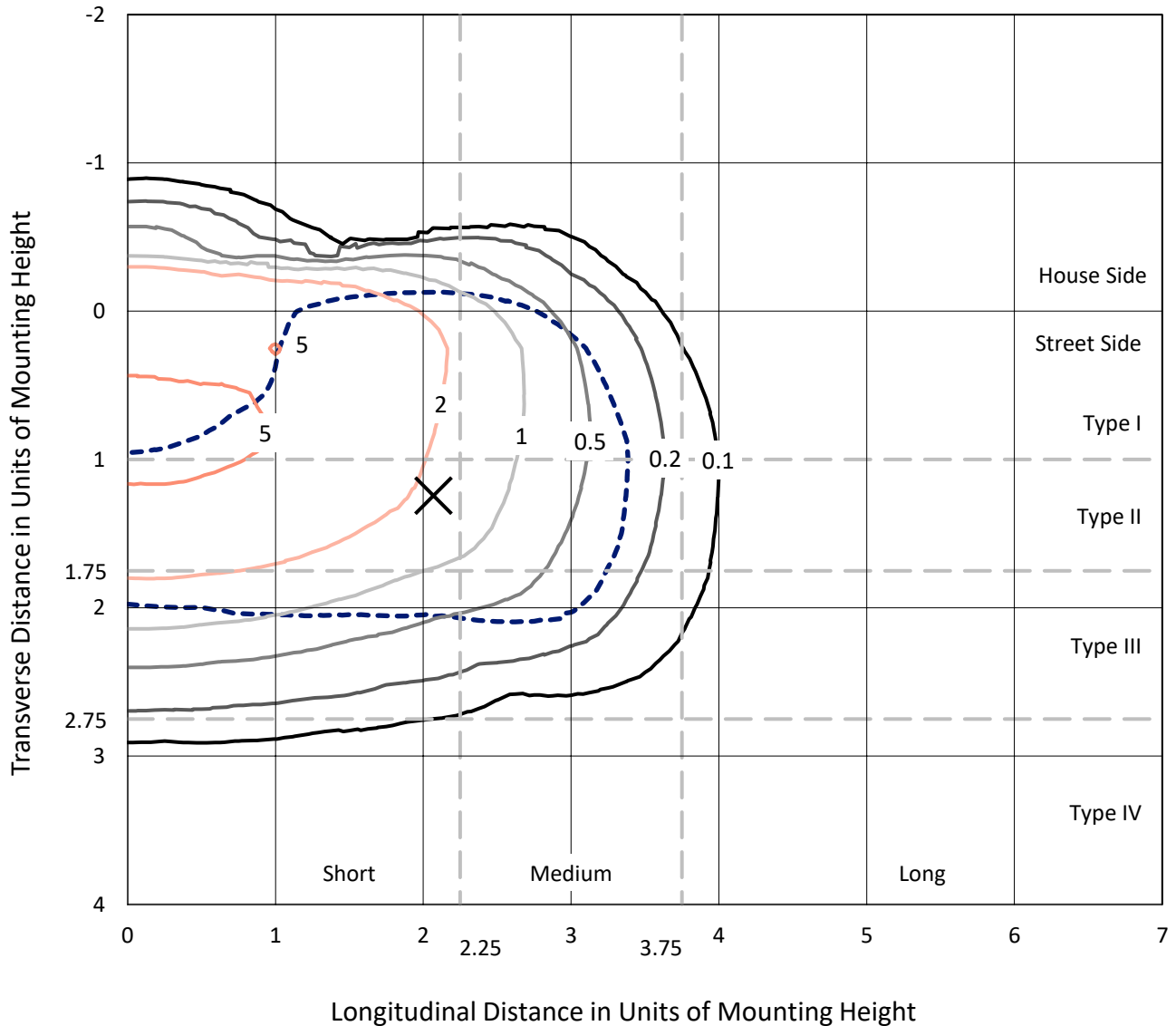
Lumens per Lamp: N/A
Luminaire Lumens: 36563 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

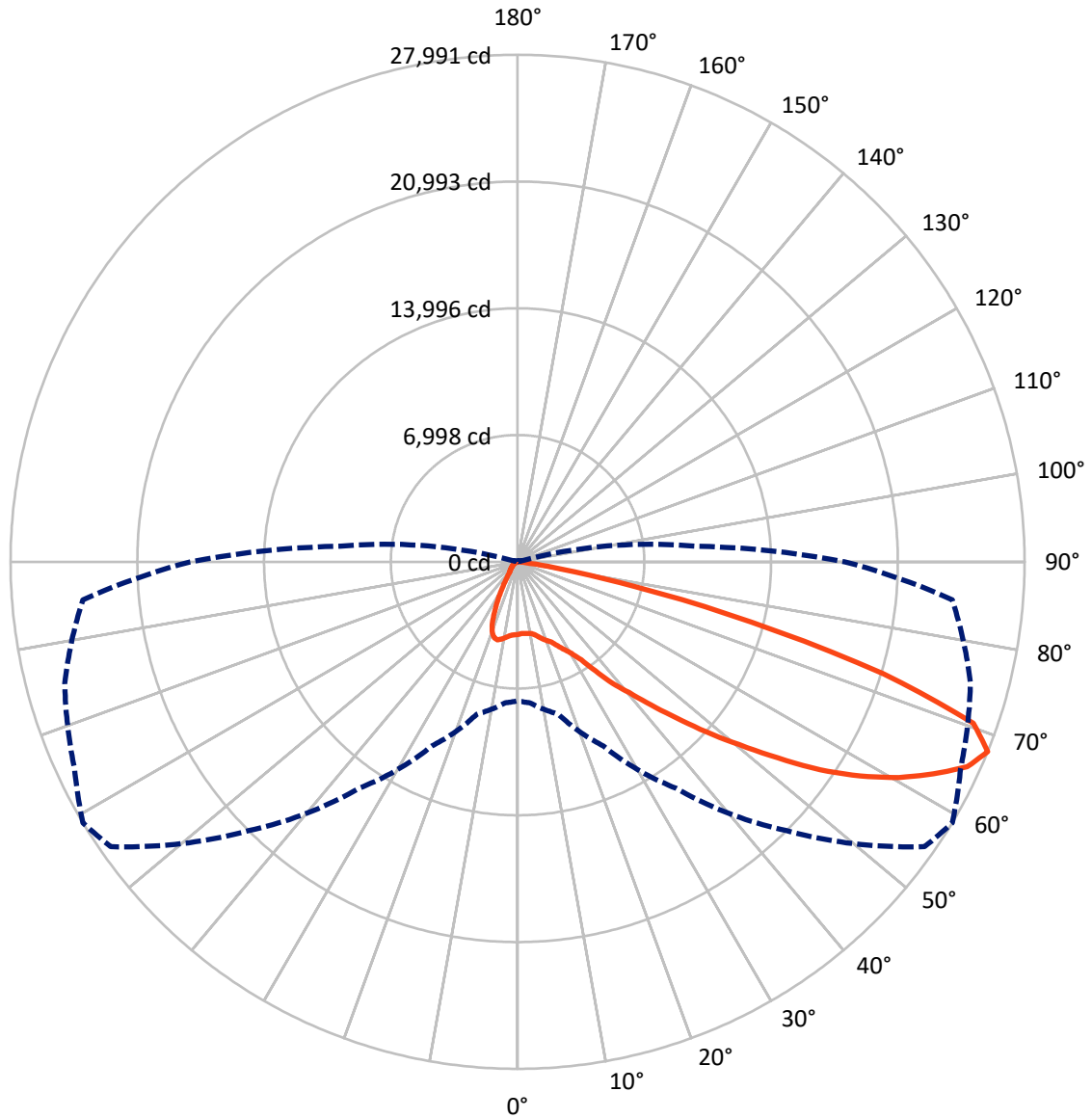
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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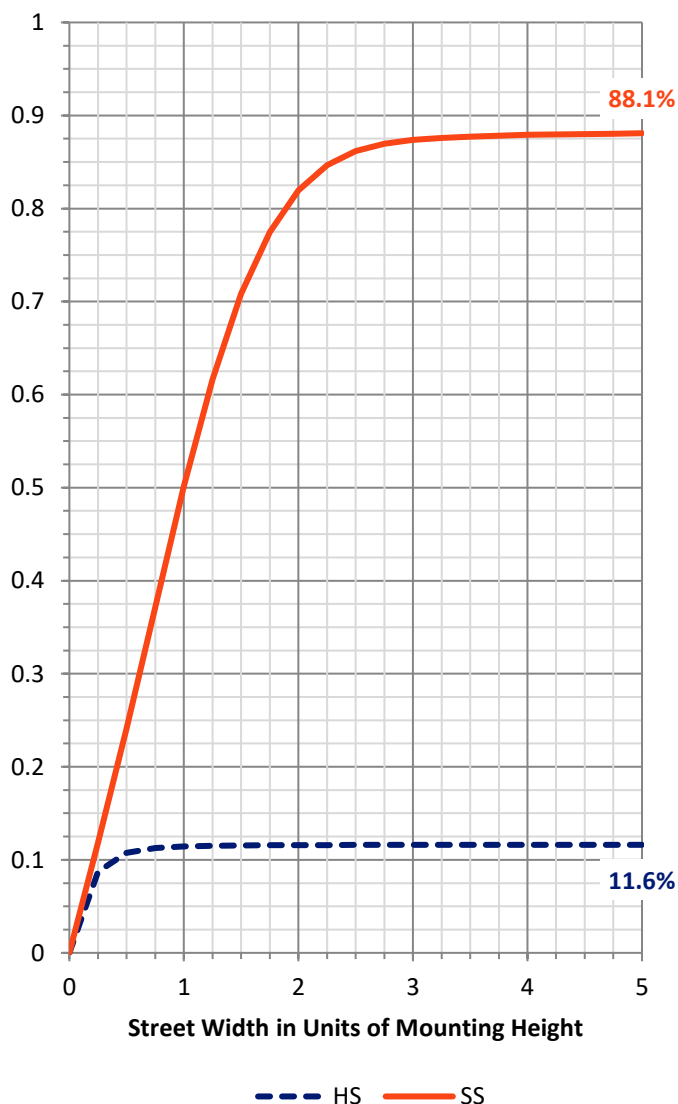
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4295.0	0.0	4295.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	32268.1	0.0	32268.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	36563.0	0.0	36563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	1.0
10°-20°	1100.4	3.0
20°-30°	1923.2	5.3
30°-40°	3386.0	9.3
40°-50°	5985.3	16.4
50°-60°	9476.9	25.9
60°-70°	10512.5	28.8
70°-80°	3647.6	10.0
80°-90°	150.2	0.4
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°	36563.0	100.0
0°-180°	36563.0	100.0

Coefficient of Utilization



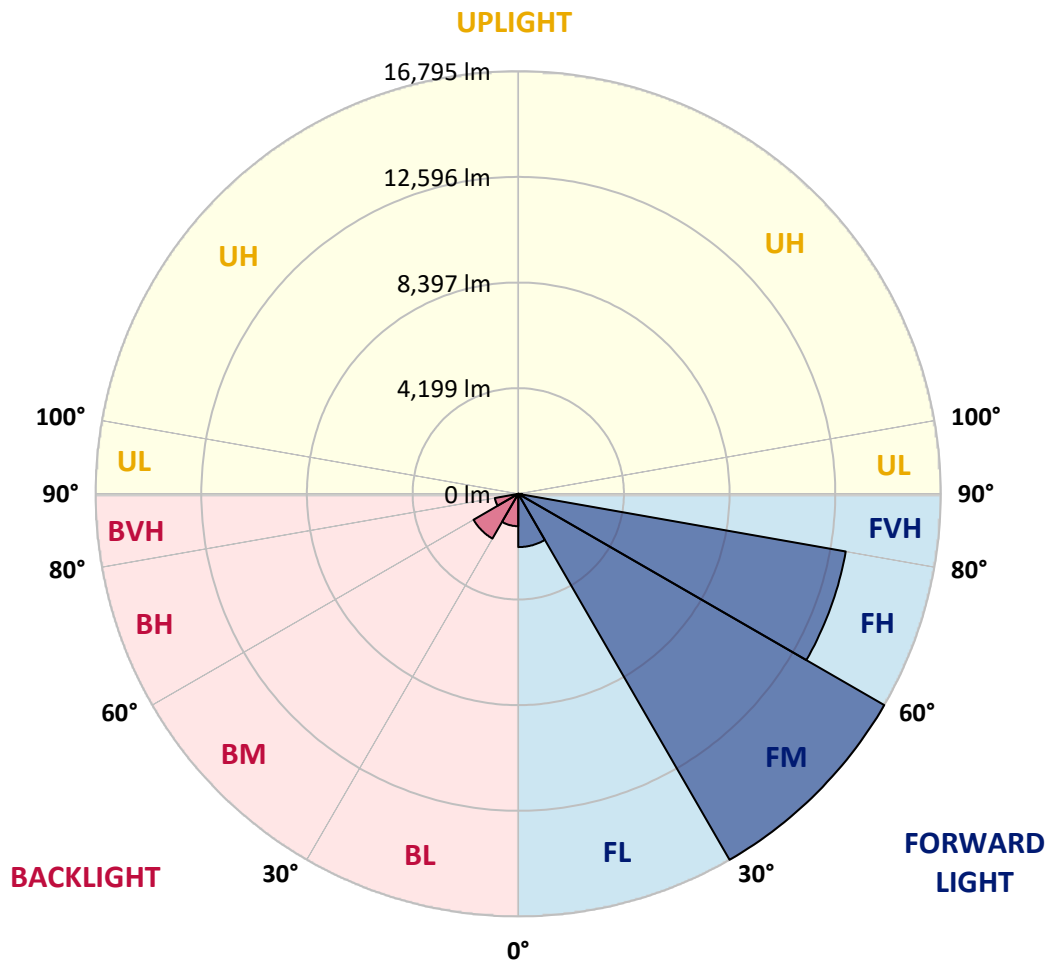
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.3	5.8			
FM (30°-60°)	16794.7	45.9			
FH (60°-80°)	13215.6	36.1			G5
FVH (80°-90°)	140.5	0.4			G2/225
BL (0°-30°)	1287.2	3.5	B3/2500		
BM (30°-60°)	2053.5	5.6	B2/2500		
BH (60°-80°)	944.6	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3
2.5°	3894.1	3838.6	3889.1	3894.1	3899.2	3944.6	3995.2	3959.8	3954.7	3995.2
5°	3737.6	3712.3	3772.9	3803.2	3853.7	3894.1	3974.9	3980.0	3985.1	4030.5
7.5°	3671.9	3611.3	3682.0	3717.4	3752.7	3848.7	3944.6	3995.2	4065.9	4121.4
10°	3540.6	3586.0	3606.2	3666.9	3767.9	3879.0	3995.2	4020.4	4177.0	4222.4
12.5°	3586.0	3616.3	3656.8	3671.9	3783.0	3949.7	4106.3	4116.4	4278.0	4475.0
15°	3702.2	3682.0	3697.2	3717.4	3848.7	3985.1	4237.6	4283.0	4434.6	4656.8
17.5°	3949.7	3914.3	3889.1	3884.0	3914.3	4040.6	4338.6	4475.0	4616.4	4919.4
20°	4570.9	4540.6	4439.6	4177.0	4086.1	4136.6	4459.8	4651.8	4848.7	5187.1
22.5°	5515.4	5545.7	5308.4	4939.6	4560.8	4363.9	4651.8	4818.4	5131.6	5560.9
25°	6631.6	6571.0	6283.1	5853.8	5257.8	4793.2	4959.8	5146.7	5530.6	5884.1
27.5°	7505.4	7434.7	7212.5	6692.3	6177.1	5424.5	5363.9	5480.1	5934.6	6252.8
30°	8369.1	8394.4	8242.8	7626.6	6990.3	6197.3	5813.4	5863.9	6212.4	6621.5
32.5°	9470.2	9409.6	9323.7	8783.3	8030.7	7182.2	6525.6	6444.8	6596.3	7136.7
35°	10495.5	10460.1	10344.0	9798.5	9141.9	8217.6	7576.1	7394.3	7359.0	7960.0
37.5°	11389.5	11328.9	11152.1	10803.6	10167.2	9389.4	8687.3	8525.7	8520.6	8934.8
40°	12142.0	12187.5	12167.3	11783.4	11434.9	10813.7	9737.9	9480.3	9460.1	9682.3
42.5°	13116.8	13222.9	13167.3	13091.6	12672.4	12429.9	11212.7	10818.7	10642.0	11096.5
45°	14591.6	14632.1	14667.4	14480.5	14061.3	14111.8	12738.0	12268.3	12222.8	12899.6
47.5°	15970.5	15864.4	16111.9	16122.0	16101.8	15869.5	14384.6	14036.1	14096.7	14611.9
50°	16314.0	16586.7	17268.6	17394.8	17723.1	17935.3	16212.9	15864.4	15965.5	16551.3
52.5°	16581.6	16995.8	17677.7	18602.0	19485.8	19990.9	18258.5	17975.7	17970.6	18329.2
55°	17051.4	17303.9	17894.8	19167.6	20849.5	21677.9	20723.3	20268.7	19859.6	20112.1
57.5°	17005.9	17101.9	18021.1	19591.9	21930.4	23435.5	22748.6	22314.3	21789.0	21642.5
60°	16207.9	16435.2	17465.5	19304.0	22597.1	24804.3	24637.6	24193.1	23289.1	22945.6
62.5°	14627.0	14930.1	15738.2	18293.9	21627.4	24875.0	25940.7	25774.0	24763.9	24147.7
65°	11854.1	11995.6	12924.9	15728.1	19435.3	23789.1	27481.2	27274.1	26344.8	25425.5
67.5°	7677.2	7813.5	8707.5	11227.8	15263.4	20985.9	27420.6	27991.3	26986.2	25880.1
70°	3626.4	3591.1	4424.5	6237.7	9778.3	16026.1	25567.0	26693.3	25839.7	23460.8
72.5°	1106.1	1202.1	1838.5	2762.8	5020.5	9995.5	20041.4	21097.0	20829.3	18743.4
75°	489.9	530.3	722.3	1131.4	2035.5	4101.2	12379.4	13318.9	13202.7	11056.1
77.5°	313.1	343.5	454.6	646.5	924.3	1303.1	5702.3	6616.5	6414.5	3884.0
80°	222.2	237.4	323.2	444.5	580.8	535.4	1964.7	2333.5	2237.5	1055.6
82.5°	121.2	131.3	237.4	328.3	388.9	272.7	550.5	686.9	717.2	469.7
85°	45.5	55.6	146.5	232.3	202.0	126.3	161.6	197.0	257.6	257.6
87.5°	0.0	5.1	60.6	101.0	50.5	35.4	45.5	55.6	70.7	121.2
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°
4010.3	0°	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3	4010.3
4030.5	2.5°	4055.8	4020.4	4035.6	4060.8	4005.3	4035.6	3974.9	4020.4	4035.6	3974.9
4091.1	5°	4106.3	4141.6	4121.4	4081.0	4045.7	4055.8	4040.6	4005.3	4035.6	4045.7
4182.0	7.5°	4252.7	4212.3	4222.4	4177.0	4106.3	4101.2	4005.3	3980.0	3990.1	4000.2
4368.9	10°	4389.1	4414.4	4363.9	4328.5	4212.3	4136.6	4005.3	3863.8	3848.7	3788.1
4550.7	12.5°	4631.5	4570.9	4550.7	4434.6	4318.4	4065.9	3783.0	3565.8	3384.0	3318.4
4843.7	15°	4833.6	4823.5	4788.1	4611.3	4343.7	3884.0	3348.7	2843.6	2495.1	2277.9
5015.4	17.5°	5111.4	5065.9	5000.3	4722.5	4156.8	3409.3	2495.1	1858.7	1510.2	1373.8
5343.7	20°	5323.5	5288.1	5197.2	4697.2	3818.4	2540.5	1545.5	1181.9	1096.0	1070.8
5702.3	22.5°	5631.6	5520.5	5348.8	4570.9	3202.2	1692.0	1111.2	1055.6	1040.5	1020.3
5939.7	25°	5899.3	5798.3	5439.7	4353.8	2282.9	1121.3	1030.4	1000.1	974.8	949.5
6192.2	27.5°	6136.7	6010.4	5535.6	3909.3	1429.4	964.7	954.6	919.2	868.7	828.3
6485.2	30°	6369.0	6222.5	5560.9	3075.9	964.7	873.8	848.5	793.0	727.3	671.8
6975.1	32.5°	6757.9	6581.1	5525.5	2197.1	833.4	777.8	722.3	656.6	560.6	515.2
7677.2	35°	7364.0	7096.3	5480.1	1293.0	747.5	686.9	601.0	515.2	444.5	399.0
8389.3	37.5°	8061.0	7596.3	5348.8	863.7	686.9	606.1	495.0	409.1	348.5	313.1
9364.1	40°	9096.4	8328.7	4843.7	707.1	611.1	515.2	399.0	323.2	277.8	252.5
10808.6	42.5°	10237.9	9167.1	4065.9	636.4	540.4	439.4	318.2	262.6	227.3	202.0
12253.1	45°	11606.6	10040.9	3136.5	580.8	479.8	363.7	262.6	212.1	181.8	161.6
13945.2	47.5°	13132.0	10833.9	2116.3	525.3	404.1	298.0	217.2	161.6	131.3	116.2
15788.7	50°	14495.7	11535.9	1348.6	459.6	353.6	247.5	176.8	131.3	106.1	85.9
17278.7	52.5°	15733.1	12071.3	929.3	404.1	303.0	202.0	146.5	106.1	80.8	65.7
18824.2	55°	17000.9	12344.1	686.9	348.5	262.6	171.7	121.2	96.0	70.7	55.6
20602.1	57.5°	18041.3	12460.2	525.3	303.0	222.2	136.4	106.1	80.8	60.6	45.5
21965.8	60°	18930.3	12404.7	409.1	252.5	176.8	116.2	90.9	65.7	50.5	35.4
23743.6	62.5°	19450.5	12071.3	323.2	217.2	141.4	101.0	75.8	55.6	35.4	25.3
24657.8	65°	19460.6	11364.2	252.5	161.6	106.1	85.9	65.7	45.5	25.3	10.1
24087.1	67.5°	18066.6	9833.8	202.0	126.3	85.9	65.7	50.5	35.4	10.1	0.0
20006.1	70°	14132.0	7439.8	166.7	101.0	70.7	55.6	35.4	20.2	5.1	0.0
13354.2	72.5°	9005.5	4454.8	136.4	80.8	60.6	40.4	25.3	15.2	0.0	0.0
6096.3	75°	3767.9	1373.8	106.1	70.7	45.5	30.3	20.2	5.1	0.0	0.0
1596.0	77.5°	969.7	434.4	85.9	60.6	45.5	25.3	15.2	5.1	0.0	0.0
429.3	80°	287.9	161.6	70.7	50.5	35.4	20.2	10.1	5.1	0.0	0.0
207.1	82.5°	131.3	96.0	60.6	45.5	30.3	20.2	10.1	0.0	0.0	0.0
96.0	85°	50.5	30.3	30.3	25.3	25.3	15.2	5.1	0.0	0.0	0.0
35.4	87.5°	20.2	10.1	10.1	10.1	5.1	5.1	0.0	0.0	0.0	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°
4010.3
4005.3
4025.5
3964.8
3838.6
3252.7
2247.6
1323.3
1075.8
1025.3
944.5
813.2
661.6
505.1
388.9
303.0
242.4
202.0
151.5
116.2
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