

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: P575333

Luminaire Tested: **EPH-VN-07-735-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575333
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

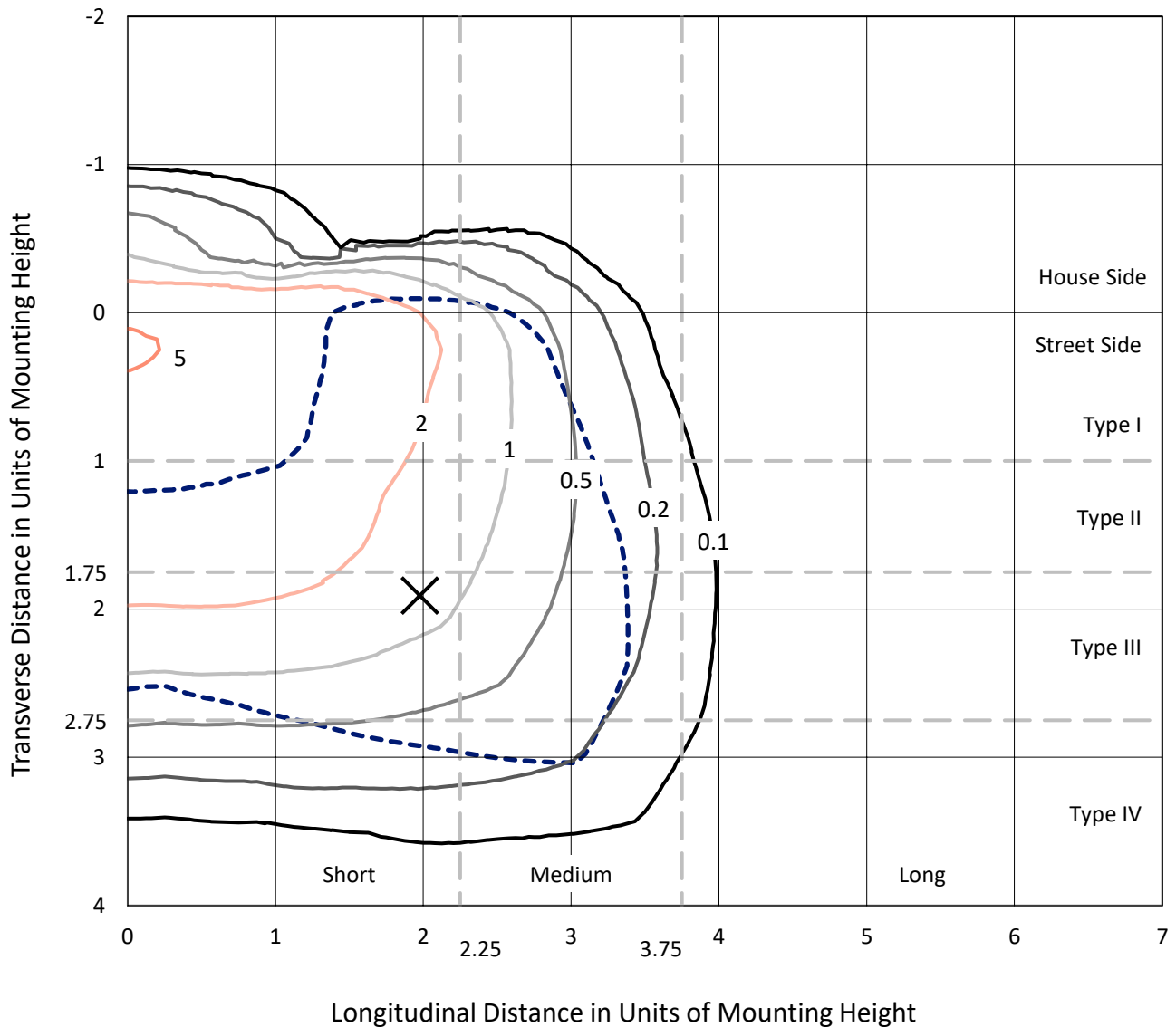
Lumens per Lamp: N/A
Luminaire Lumens: 35498.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.5
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: P575333
 CATALOG NUMBER: EPH-VN-07-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

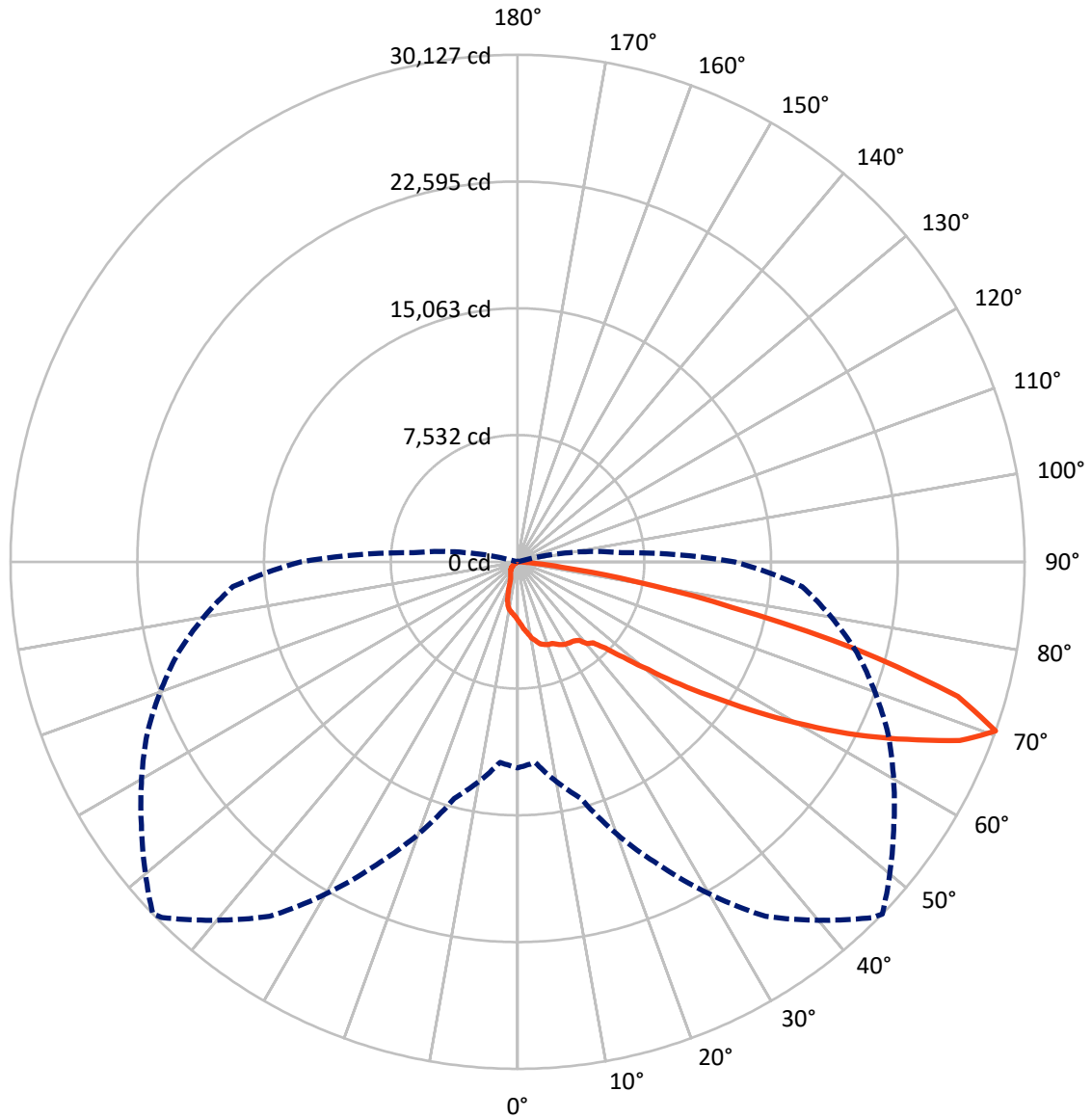
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P575333
CATALOG NUMBER: EPH-VN-07-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P575333
 CATALOG NUMBER: EPH-VN-07-735-U-T4W-HSS

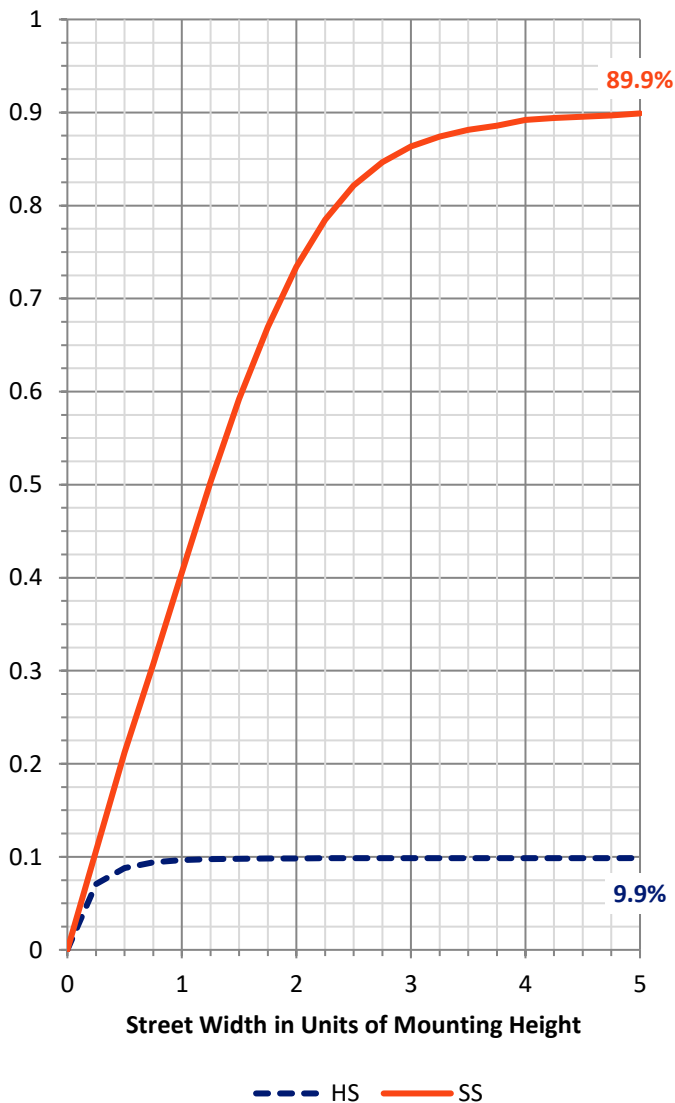
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3532.2	0.0	3532.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	31966.1	0.0	31966.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	35498.3	0.0	35498.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	1.0
10°-20°	1049.3	3.0
20°-30°	1680.8	4.7
30°-40°	2399.2	6.8
40°-50°	4142.7	11.7
50°-60°	7931.6	22.3
60°-70°	11745.4	33.1
70°-80°	5817.4	16.4
80°-90°	384.4	1.1
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°	35498.3	100.0
0°-180°	35498.3	100.0

Coefficient of Utilization

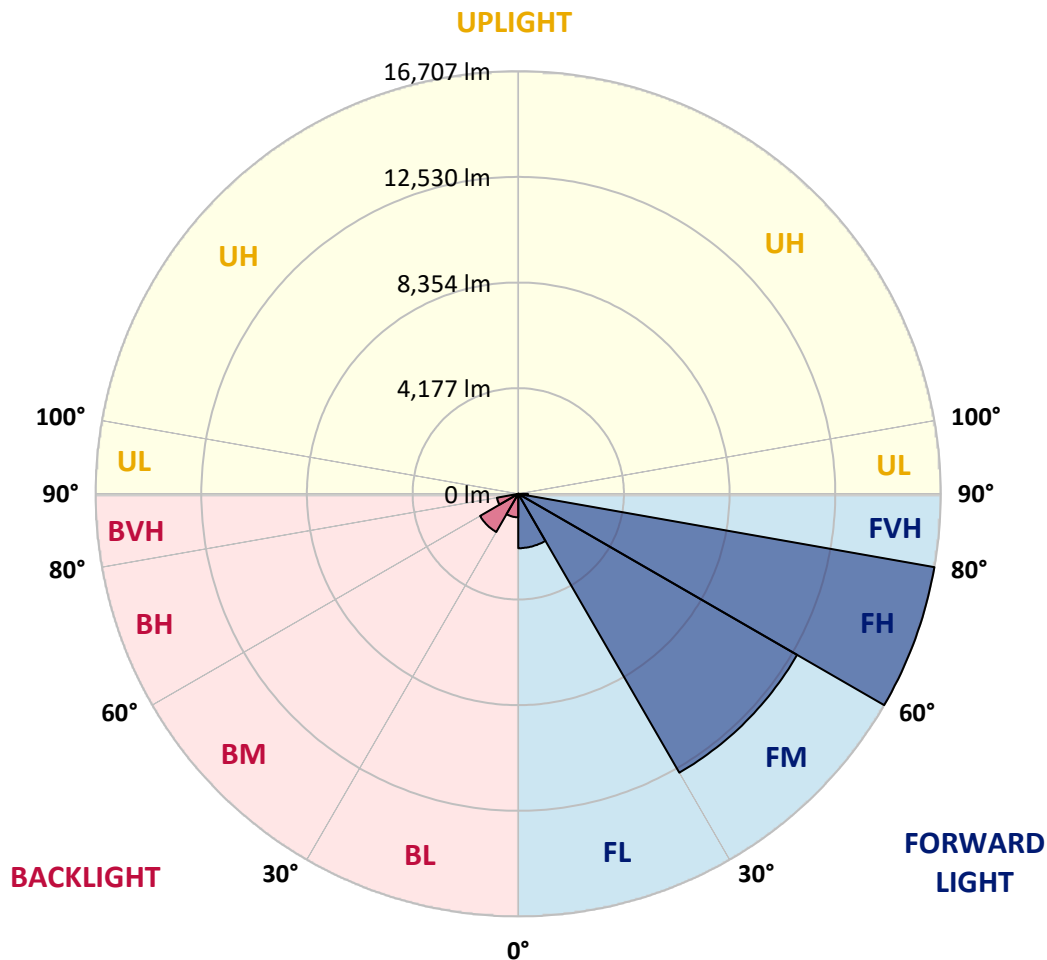


REPORT NUMBER: P575333
 CATALOG NUMBER: EPH-VN-07-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.7	6.1			
FM (30°-60°)	12729.6	35.9			
FH (60°-80°)	16707.3	47.1			G5
FVH (80°-90°)	379.5	1.1			G3/500
BL (0°-30°)	928.0	2.6	B2/1000		
BM (30°-60°)	1743.9	4.9	B2/2500		
BH (60°-80°)	855.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





REPORT NUMBER: P575333
 CATALOG NUMBER: EPH-VN-07-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8
2.5°	3888.5	3862.9	3822.1	3806.7	3765.9	3745.4	3714.8	3699.4	3643.2	3587.0
5°	4363.7	4302.4	4322.8	4261.5	4128.7	4021.3	4016.2	3898.7	3771.0	3668.8
7.5°	4844.0	4792.9	4716.3	4629.4	4481.2	4322.8	4276.8	4164.4	3985.6	3806.7
10°	5206.8	5171.0	5104.6	4982.0	4777.6	4598.7	4603.9	4414.8	4225.7	4021.3
12.5°	5431.6	5447.0	5349.9	5227.2	5048.4	4823.6	4818.5	4690.7	4476.1	4261.5
15°	5656.5	5712.7	5564.5	5421.4	5191.5	5028.0	5058.6	4905.3	4695.8	4450.6
17.5°	5692.2	5707.6	5676.9	5467.4	5298.8	5160.8	5165.9	5063.7	4905.3	4639.6
20°	5630.9	5620.7	5584.9	5431.6	5319.2	5237.5	5242.6	5217.0	5130.2	4915.6
22.5°	5452.1	5452.1	5406.1	5303.9	5252.8	5329.4	5268.1	5365.2	5273.2	5145.5
25°	5309.0	5365.2	5339.7	5273.2	5293.7	5395.9	5426.5	5518.5	5503.2	5344.8
27.5°	5462.3	5395.9	5411.2	5334.5	5411.2	5564.5	5579.8	5646.2	5641.1	5513.4
30°	5564.5	5625.8	5508.3	5339.7	5421.4	5682.0	5671.8	5758.7	5799.5	5646.2
32.5°	5891.5	5840.4	5743.3	5518.5	5528.7	5676.9	5722.9	5835.3	5860.8	5768.9
35°	6560.9	6484.2	6060.1	5722.9	5671.8	5743.3	5774.0	5993.7	6039.7	5937.5
37.5°	7593.0	7419.3	6908.3	6162.3	5932.4	5917.1	5917.1	6208.3	6382.0	6147.0
40°	9069.8	8824.5	8272.6	6974.8	6274.7	6336.1	6397.4	6555.8	6535.3	6382.0
42.5°	10950.1	10761.1	10163.2	8339.1	6928.8	6622.2	6571.1	6785.7	7107.6	7046.3
45°	12518.8	12529.0	12145.8	10209.2	8058.0	7281.4	7317.1	7480.6	8022.3	7976.3
47.5°	13663.4	13520.3	13464.1	12013.0	9703.4	8533.2	8482.1	8594.5	9299.7	9590.9
50°	14705.8	14608.7	14475.8	13765.6	11680.8	10101.9	10050.8	10061.0	11139.2	11548.0
52.5°	15998.5	16121.2	15681.7	15247.4	14240.8	12140.7	12084.5	11885.2	13224.0	13786.0
55°	17592.8	17362.8	16867.2	17092.0	16688.3	14343.0	14240.8	14005.7	15600.0	15835.0
57.5°	17945.3	17771.6	18282.6	19079.7	19468.0	16928.5	16887.6	16463.5	17597.9	17383.3
60°	18824.2	18870.2	19580.4	21164.5	21838.9	19912.6	19713.3	18967.3	19534.5	19575.3
62.5°	19728.6	19621.3	21210.4	22733.1	23770.4	22738.3	22671.8	21190.0	21833.8	21312.6
65°	19064.4	19227.9	21501.7	24051.5	26274.2	25502.6	25446.4	23331.0	23683.6	23034.6
67.5°	16703.7	16371.5	19554.9	23448.5	27561.8	28399.8	28338.5	25666.1	24725.9	23024.4
70°	12242.9	11956.7	14552.5	19856.4	25717.2	29881.6	30126.9	27291.0	24301.8	20878.3
72.5°	5998.8	6003.9	8155.1	13464.1	20346.9	27234.8	27357.4	25022.3	20878.3	15390.5
75°	1773.1	1793.5	3019.8	6601.8	13152.4	20684.1	20822.1	18992.8	14470.7	7950.7
77.5°	648.9	648.9	1001.5	2478.2	6560.9	13055.3	13045.1	11660.4	7327.3	2692.8
80°	337.2	352.6	521.2	1011.7	2841.0	6801.0	7056.5	5707.6	2784.8	1134.4
82.5°	138.0	153.3	286.1	521.2	1364.3	2386.2	2611.1	2238.1	1211.0	792.0
85°	40.9	46.0	138.0	291.3	536.5	597.8	664.3	751.1	761.3	613.2
87.5°	5.1	5.1	56.2	97.1	117.5	127.7	148.2	148.2	388.3	429.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575333

CATALOG NUMBER: EPH-VN-07-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3484.8	0°	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8	3484.8
3551.3	2.5°	3510.4	3484.8	3444.0	3352.0	3331.5	3265.1	3260.0	3198.7	3219.1	3178.2
3530.8	5°	3484.8	3428.6	3316.2	3244.7	3173.1	3127.1	3096.5	3070.9	3065.8	3045.4
3622.8	7.5°	3530.8	3454.2	3280.4	3168.0	3045.4	3004.5	2938.1	2933.0	2897.2	2861.4
3771.0	10°	3684.1	3546.1	3357.1	3168.0	3009.6	2876.8	2723.5	2611.1	2570.2	2478.2
3965.1	12.5°	3806.7	3684.1	3408.2	3214.0	2973.9	2672.4	2335.1	2074.5	1951.9	1834.4
4123.5	15°	3980.5	3801.6	3505.3	3224.2	2835.9	2314.7	1762.9	1471.6	1359.2	1333.6
4358.6	17.5°	4169.5	3980.5	3627.9	3198.7	2554.9	1788.4	1297.9	1129.2	1149.7	1180.3
4532.3	20°	4379.0	4149.1	3719.9	3111.8	2110.3	1297.9	1062.8	1057.7	1088.4	1134.4
4828.7	22.5°	4598.7	4399.5	3832.3	2851.2	1573.8	1042.4	1021.9	1021.9	1042.4	1098.6
5033.1	25°	4844.0	4578.3	3888.5	2447.6	1129.2	960.6	970.8	991.3	1001.5	1047.5
5217.0	27.5°	5033.1	4777.6	3903.8	1962.1	919.7	889.1	914.6	940.2	955.5	991.3
5390.8	30°	5206.8	5028.0	3822.1	1461.4	843.1	827.8	838.0	873.8	904.4	935.1
5559.4	32.5°	5426.5	5171.0	3633.0	1037.3	797.1	771.6	766.5	781.8	817.6	853.3
5738.2	35°	5651.3	5411.2	3331.5	832.9	756.2	720.5	700.0	684.7	700.0	725.6
6003.9	37.5°	5978.4	5774.0	2953.4	766.5	725.6	674.5	633.6	597.8	572.3	567.2
6351.4	40°	6443.4	6182.8	2468.0	720.5	689.8	628.5	567.2	505.9	449.7	413.9
7025.9	42.5°	7148.5	6785.7	1941.7	694.9	664.3	577.4	490.5	403.7	332.1	296.4
7971.2	45°	8155.1	7582.8	1425.6	669.4	633.6	516.1	403.7	301.5	229.9	209.5
9723.8	47.5°	9672.7	8543.5	1021.9	628.5	592.7	449.7	316.8	214.6	168.6	158.4
11875.0	50°	11655.3	9682.9	797.1	582.5	541.6	378.1	235.0	158.4	132.9	127.7
14174.4	52.5°	13734.9	10832.6	700.0	541.6	465.0	301.5	173.7	127.7	112.4	107.3
16243.8	55°	15513.1	11573.5	608.1	480.3	373.0	224.8	138.0	112.4	97.1	81.8
18538.1	57.5°	17311.7	11946.5	480.3	398.6	275.9	168.6	117.5	97.1	81.8	66.4
20806.8	60°	18773.1	12212.2	342.4	296.4	194.2	132.9	102.2	86.9	66.4	51.1
22942.6	62.5°	19733.7	11450.9	250.4	224.8	143.1	112.4	86.9	71.5	51.1	35.8
23811.3	65°	19258.5	10398.3	194.2	158.4	107.3	86.9	71.5	51.1	35.8	20.4
22007.6	67.5°	17281.1	8471.9	158.4	117.5	81.8	66.4	56.2	40.9	20.4	5.1
16979.6	70°	12891.8	6208.3	127.7	86.9	66.4	51.1	40.9	25.5	10.2	5.1
9616.5	72.5°	7051.4	3398.0	102.2	71.5	51.1	40.9	30.7	20.4	10.2	0.0
3280.4	75°	2330.0	904.4	76.6	51.1	30.7	25.5	20.4	15.3	5.1	0.0
766.5	77.5°	562.1	235.0	61.3	46.0	25.5	15.3	10.2	5.1	5.1	0.0
224.8	80°	173.7	97.1	46.0	30.7	20.4	15.3	5.1	0.0	0.0	0.0
102.2	82.5°	71.5	46.0	20.4	20.4	15.3	5.1	0.0	0.0	0.0	0.0
46.0	85°	35.8	25.5	15.3	10.2	10.2	5.1	0.0	0.0	0.0	0.0
25.5	87.5°	25.5	10.2	5.1	5.1	0.0	0.0	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°
3484.8
3162.9
3035.2
2861.4
2488.4
1880.4
1328.5
1175.2
1144.6
1088.4
1052.6
1006.6
935.1
853.3
746.0
582.5
419.0
296.4
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163.5
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