

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: P575218

Luminaire Tested: **EPH-VN-06-740-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575218
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-740-U-T3-HSS
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

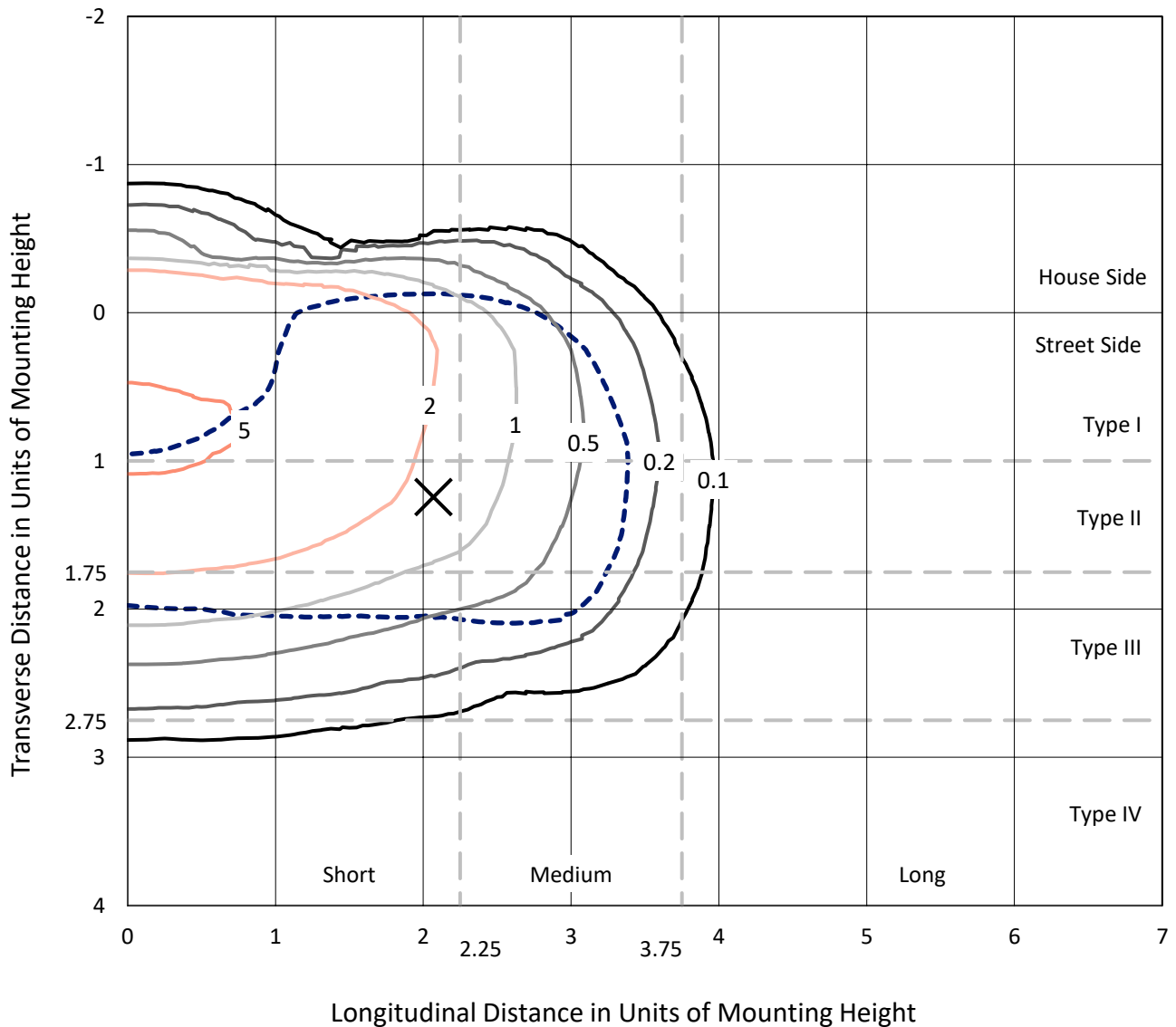
Lumens per Lamp: N/A
Luminaire Lumens: 33926.9 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

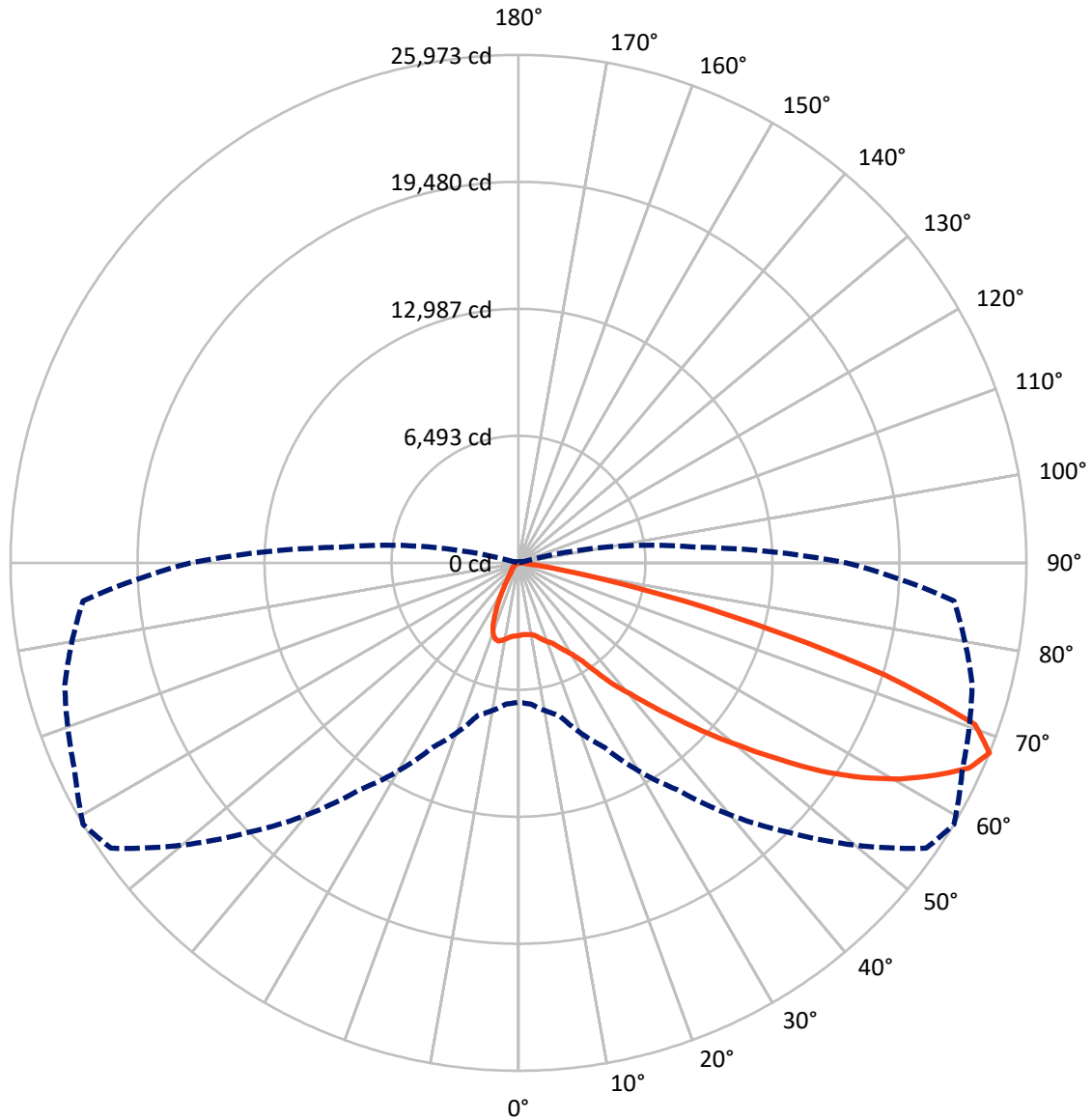
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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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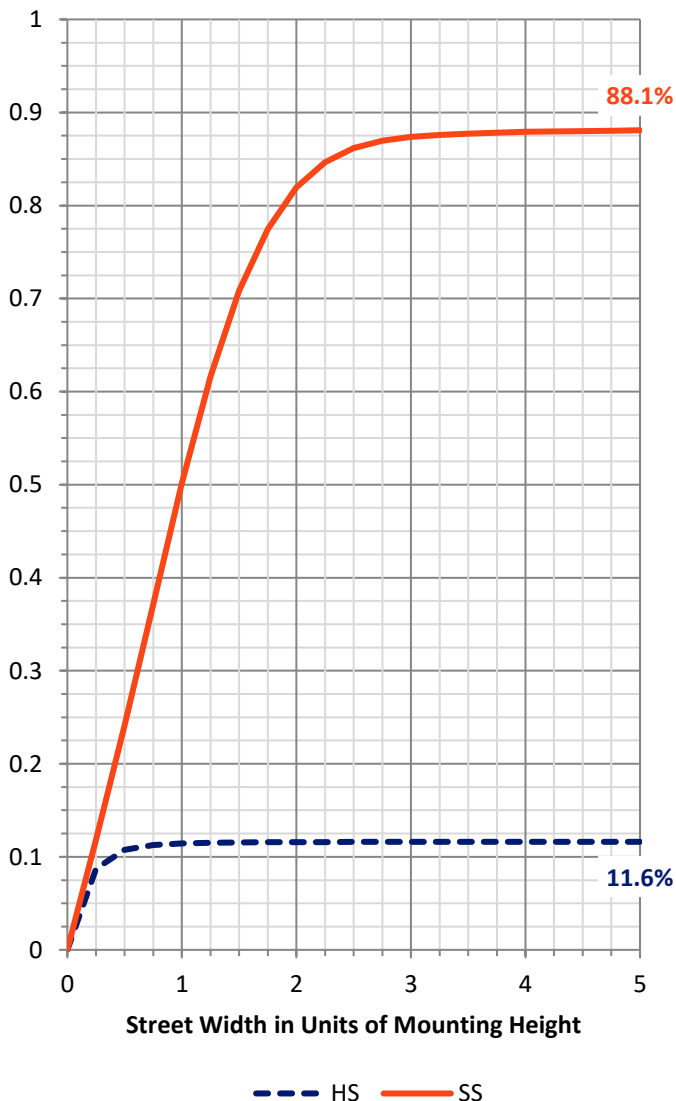
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.3	0.0	3985.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	29941.6	0.0	29941.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	33926.9	0.0	33926.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	1.0
10°-20°	1021.0	3.0
20°-30°	1784.5	5.3
30°-40°	3141.9	9.3
40°-50°	5553.8	16.4
50°-60°	8793.6	25.9
60°-70°	9754.6	28.8
70°-80°	3384.6	10.0
80°-90°	139.4	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°	33926.9	100.0
0°-180°	33926.9	100.0

Coefficient of Utilization

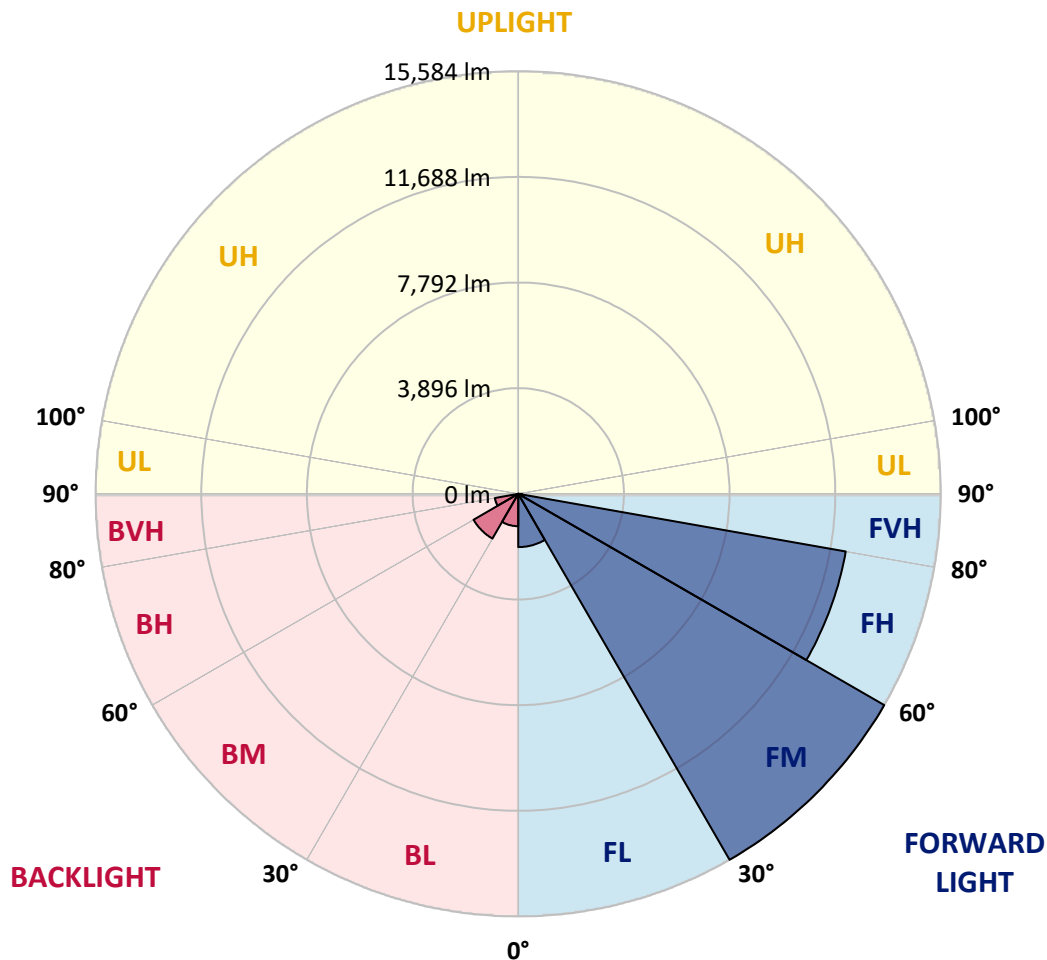


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.6	5.8			
FM (30°-60°)	15583.9	45.9			
FH (60°-80°)	12262.8	36.1			G5
FVH (80°-90°)	130.4	0.4			G2/225
BL (0°-30°)	1194.4	3.5	B3/2500		
BM (30°-60°)	1905.4	5.6	B2/2500		
BH (60°-80°)	876.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.0	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°	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2
2.5°	3613.4	3561.8	3608.7	3613.4	3618.1	3660.2	3707.1	3674.3	3669.6	3707.1
5°	3468.1	3444.7	3500.9	3529.0	3575.9	3613.4	3688.4	3693.1	3697.7	3739.9
7.5°	3407.2	3350.9	3416.5	3449.3	3482.2	3571.2	3660.2	3707.1	3772.7	3824.3
10°	3285.3	3327.5	3346.2	3402.5	3496.2	3599.3	3707.1	3730.5	3875.8	3918.0
12.5°	3327.5	3355.6	3393.1	3407.2	3510.3	3664.9	3810.2	3819.6	3969.6	4152.3
15°	3435.3	3416.5	3430.6	3449.3	3571.2	3697.7	3932.1	3974.2	4114.8	4321.1
17.5°	3664.9	3632.1	3608.7	3604.0	3632.1	3749.3	4025.8	4152.3	4283.6	4564.8
20°	4241.4	4213.3	4119.5	3875.8	3791.5	3838.3	4138.3	4316.4	4499.2	4813.2
22.5°	5117.8	5145.9	4925.6	4583.5	4232.0	4049.2	4316.4	4471.0	4761.6	5160.0
25°	6153.5	6097.3	5830.1	5431.8	4878.8	4447.6	4602.3	4775.7	5131.8	5459.9
27.5°	6964.3	6898.7	6692.5	6209.8	5731.7	5033.4	4977.2	5085.0	5506.8	5802.0
30°	7765.7	7789.2	7648.6	7076.8	6486.3	5750.5	5394.3	5441.2	5764.5	6144.2
32.5°	8787.4	8731.2	8651.5	8150.0	7451.7	6664.4	6055.1	5980.1	6120.7	6622.2
35°	9738.8	9706.0	9598.2	9092.0	8482.8	7625.1	7029.9	6861.2	6828.4	7386.1
37.5°	10568.3	10512.1	10348.0	10024.7	9434.2	8712.4	8061.0	7911.0	7906.3	8290.6
40°	11266.6	11308.8	11290.1	10933.9	10610.5	10034.0	9035.8	8796.8	8778.0	8984.2
42.5°	12171.1	12269.6	12218.0	12147.7	11758.7	11533.8	10404.3	10038.7	9874.7	10296.5
45°	13539.6	13577.1	13609.9	13436.5	13047.5	13094.4	11819.6	11383.8	11341.6	11969.6
47.5°	14819.1	14720.7	14950.3	14959.7	14940.9	14725.3	13347.5	13024.1	13080.3	13558.4
50°	15137.8	15390.8	16023.5	16140.7	16445.3	16642.2	15044.0	14720.7	14814.4	15358.0
52.5°	15386.2	15770.5	16403.2	17260.8	18081.0	18549.6	16942.1	16679.7	16675.0	17007.7
55°	15822.0	16056.3	16604.7	17785.7	19346.3	20115.0	19229.2	18807.4	18427.8	18662.1
57.5°	15779.8	15868.9	16721.8	18179.4	20349.3	21745.9	21108.5	20705.5	20218.1	20082.1
60°	15039.3	15250.2	16206.3	17912.2	20967.9	23016.0	22861.3	22448.9	21610.0	21291.3
62.5°	13572.4	13853.6	14603.5	16974.9	20068.1	23081.6	24070.5	23915.8	22978.5	22406.7
65°	10999.5	11130.7	11993.0	14594.1	18034.1	22074.0	25499.9	25307.7	24445.4	23592.4
67.5°	7123.7	7250.2	8079.7	10418.3	14163.0	19472.9	25443.6	25973.2	25040.6	24014.2
70°	3365.0	3332.2	4105.5	5788.0	9073.3	14870.6	23723.6	24768.8	23976.7	21769.3
72.5°	1026.4	1115.4	1705.9	2563.6	4658.5	9274.8	18596.5	19576.0	19327.6	17392.0
75°	454.6	492.1	670.2	1049.8	1888.7	3805.5	11486.9	12358.6	12250.8	10259.0
77.5°	290.6	318.7	421.8	599.9	857.7	1209.1	5291.2	6139.5	5952.0	3604.0
80°	206.2	220.3	299.9	412.4	539.0	496.8	1823.1	2165.2	2076.2	979.5
82.5°	112.5	121.9	220.3	304.6	360.9	253.1	510.8	637.4	665.5	435.9
85°	42.2	51.6	135.9	215.6	187.5	117.2	150.0	182.8	239.0	239.0
87.5°	0.0	4.7	56.2	93.7	46.9	32.8	42.2	51.6	65.6	112.5
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°
3721.2	0°	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2	3721.2
3739.9	2.5°	3763.4	3730.5	3744.6	3768.0	3716.5	3744.6	3688.4	3730.5	3744.6	3688.4
3796.2	5°	3810.2	3843.0	3824.3	3786.8	3754.0	3763.4	3749.3	3716.5	3744.6	3754.0
3880.5	7.5°	3946.1	3908.6	3918.0	3875.8	3810.2	3805.5	3716.5	3693.1	3702.4	3711.8
4053.9	10°	4072.7	4096.1	4049.2	4016.4	3908.6	3838.3	3716.5	3585.3	3571.2	3515.0
4222.6	12.5°	4297.6	4241.4	4222.6	4114.8	4007.1	3772.7	3510.3	3308.8	3140.0	3079.1
4494.5	15°	4485.1	4475.7	4442.9	4278.9	4030.5	3604.0	3107.2	2638.6	2315.2	2113.7
4653.8	17.5°	4742.9	4700.7	4639.7	4382.0	3857.1	3163.5	2315.2	1724.7	1401.3	1274.8
4958.4	20°	4939.7	4906.9	4822.5	4358.6	3543.1	2357.4	1434.1	1096.7	1017.0	993.6
5291.2	22.5°	5225.6	5122.5	4963.1	4241.4	2971.3	1570.0	1031.1	979.5	965.4	946.7
5511.5	25°	5474.0	5380.2	5047.5	4039.9	2118.4	1040.4	956.1	927.9	904.5	881.1
5745.8	27.5°	5694.2	5577.1	5136.5	3627.4	1326.3	895.1	885.8	853.0	806.1	768.6
6017.6	30°	5909.8	5773.9	5160.0	2854.1	895.1	810.8	787.4	735.8	674.9	623.3
6472.2	32.5°	6270.7	6106.7	5127.2	2038.7	773.3	721.7	670.2	609.3	520.2	478.0
7123.7	35°	6833.1	6584.7	5085.0	1199.8	693.6	637.4	557.7	478.0	412.4	370.2
7784.5	37.5°	7479.8	7048.7	4963.1	801.4	637.4	562.4	459.3	379.6	323.4	290.6
8689.0	40°	8440.6	7728.2	4494.5	656.1	567.1	478.0	370.2	299.9	257.8	234.3
10029.4	42.5°	9499.8	8506.2	3772.7	590.5	501.5	407.7	295.3	243.7	210.9	187.5
11369.7	45°	10769.8	9317.0	2910.4	539.0	445.2	337.4	243.7	196.8	168.7	150.0
12939.7	47.5°	12185.2	10052.8	1963.7	487.4	374.9	276.5	201.5	150.0	121.9	107.8
14650.4	50°	13450.6	10704.2	1251.3	426.5	328.1	229.6	164.0	121.9	98.4	79.7
16032.9	52.5°	14598.8	11201.0	862.3	374.9	281.2	187.5	135.9	98.4	75.0	60.9
17467.0	55°	15775.1	11454.1	637.4	323.4	243.7	159.3	112.5	89.0	65.6	51.6
19116.7	57.5°	16740.6	11561.9	487.4	281.2	206.2	126.5	98.4	75.0	56.2	42.2
20382.1	60°	17565.4	11510.3	379.6	234.3	164.0	107.8	84.4	60.9	46.9	32.8
22031.8	62.5°	18048.2	11201.0	299.9	201.5	131.2	93.7	70.3	51.6	32.8	23.4
22880.1	65°	18057.5	10544.9	234.3	150.0	98.4	79.7	60.9	42.2	23.4	9.4
22350.5	67.5°	16764.0	9124.8	187.5	117.2	79.7	60.9	46.9	32.8	9.4	0.0
18563.7	70°	13113.1	6903.4	154.7	93.7	65.6	51.6	32.8	18.7	4.7	0.0
12391.4	72.5°	8356.2	4133.6	126.5	75.0	56.2	37.5	23.4	14.1	0.0	0.0
5656.7	75°	3496.2	1274.8	98.4	65.6	42.2	28.1	18.7	4.7	0.0	0.0
1481.0	77.5°	899.8	403.0	79.7	56.2	42.2	23.4	14.1	4.7	0.0	0.0
398.4	80°	267.1	150.0	65.6	46.9	32.8	18.7	9.4	4.7	0.0	0.0
192.2	82.5°	121.9	89.0	56.2	42.2	28.1	18.7	9.4	0.0	0.0	0.0
89.0	85°	46.9	28.1	28.1	23.4	23.4	14.1	4.7	0.0	0.0	0.0
32.8	87.5°	18.7	9.4	9.4	9.4	4.7	4.7	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



<u>180°</u>
3721.2
3716.5
3735.2
3679.0
3561.8
3018.2
2085.5
1227.9
998.2
951.4
876.4
754.5
613.9
468.7
360.9
281.2
225.0
187.5
140.6
107.8
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