

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: P575348

Luminaire Tested: **EPH-VN-04-760-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575348
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-760-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

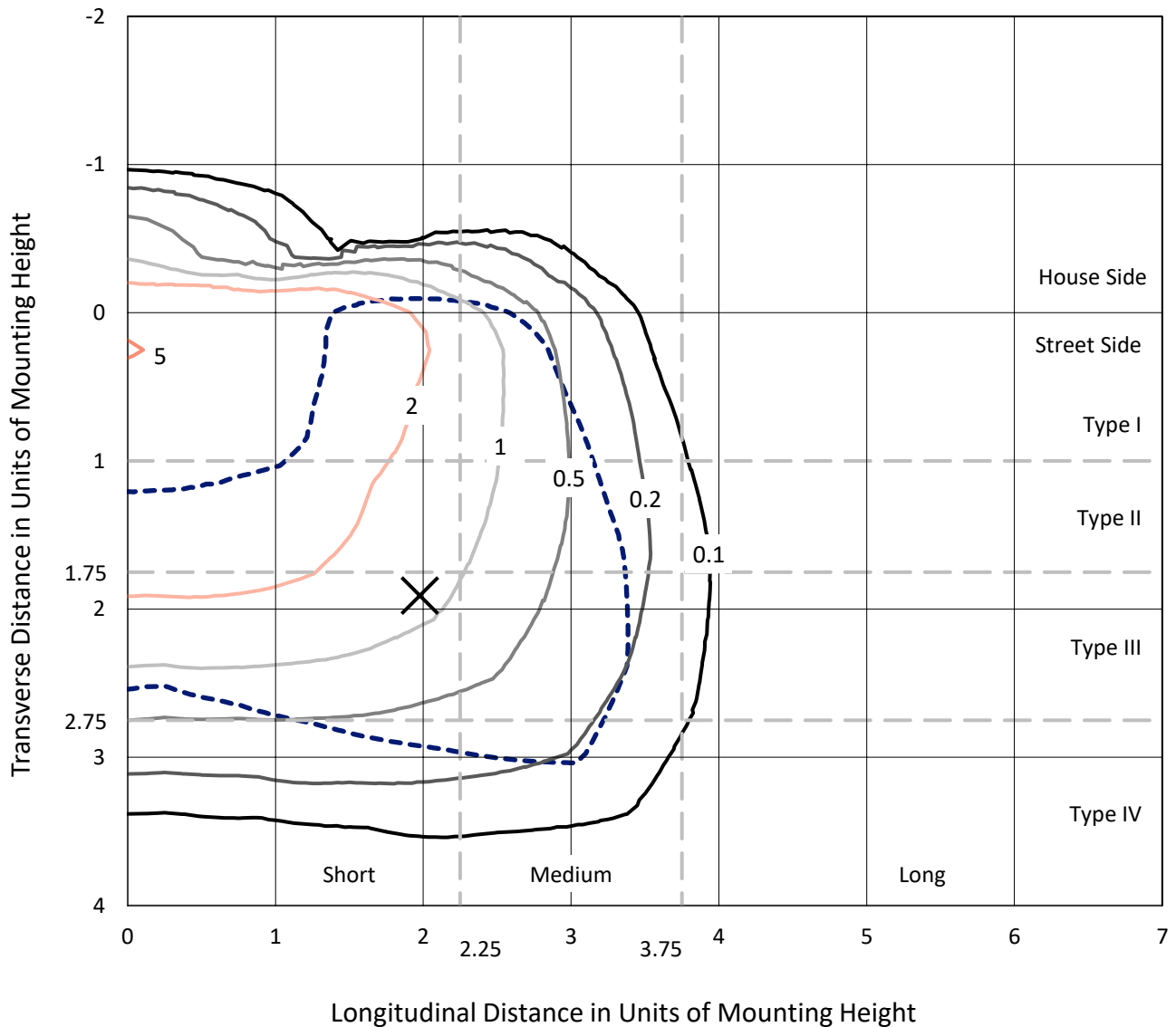
Lumens per Lamp: N/A
Luminaire Lumens: 22809.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 241
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: P575348
 CATALOG NUMBER: EPH-VN-04-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

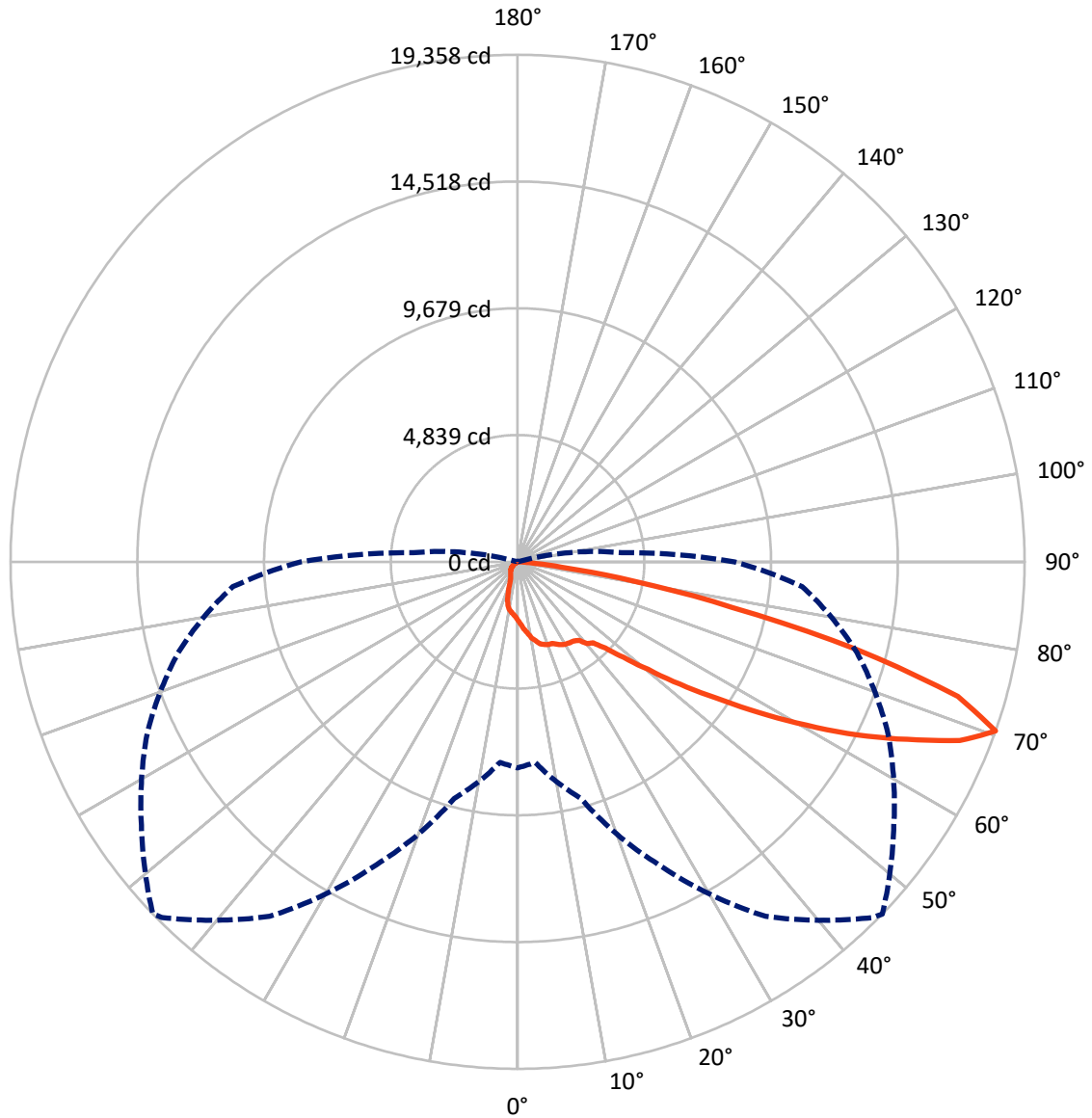
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P575348
CATALOG NUMBER: EPH-VN-04-760-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P575348
 CATALOG NUMBER: EPH-VN-04-760-U-T4W-HSS

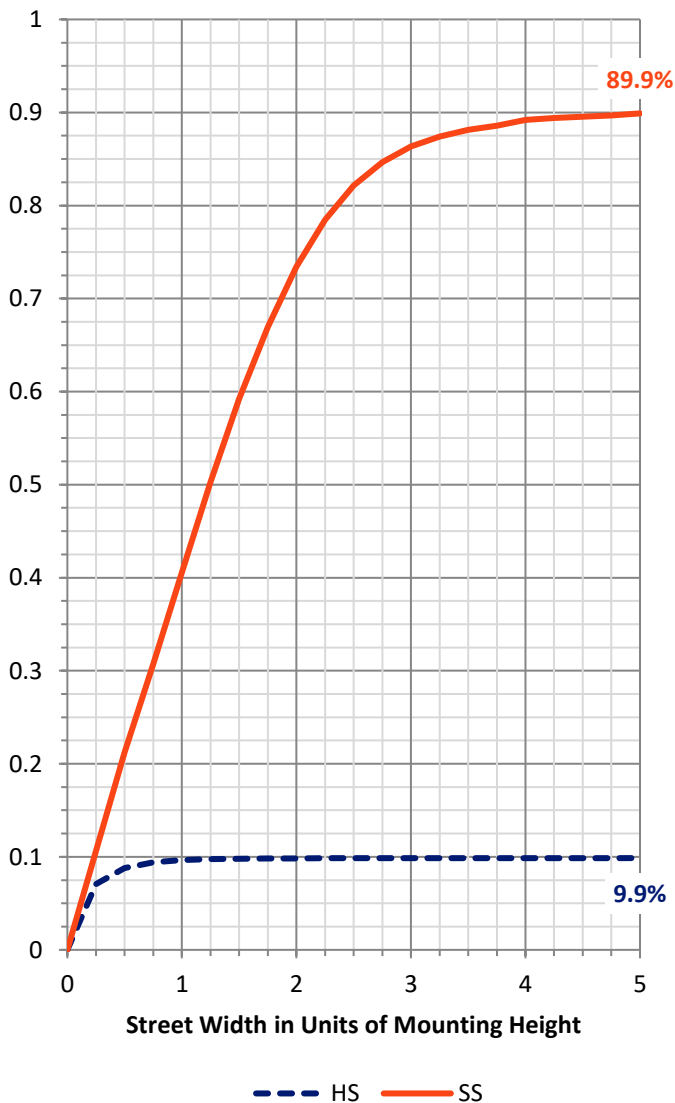
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2269.6	0.0	2269.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	20539.6	0.0	20539.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	22809.2	0.0	22809.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.0
10°-20°	674.3	3.0
20°-30°	1080.0	4.7
30°-40°	1541.6	6.8
40°-50°	2661.9	11.7
50°-60°	5096.4	22.3
60°-70°	7546.9	33.1
70°-80°	3737.9	16.4
80°-90°	247.0	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°	22809.2	100.0
0°-180°	22809.2	100.0

Coefficient of Utilization

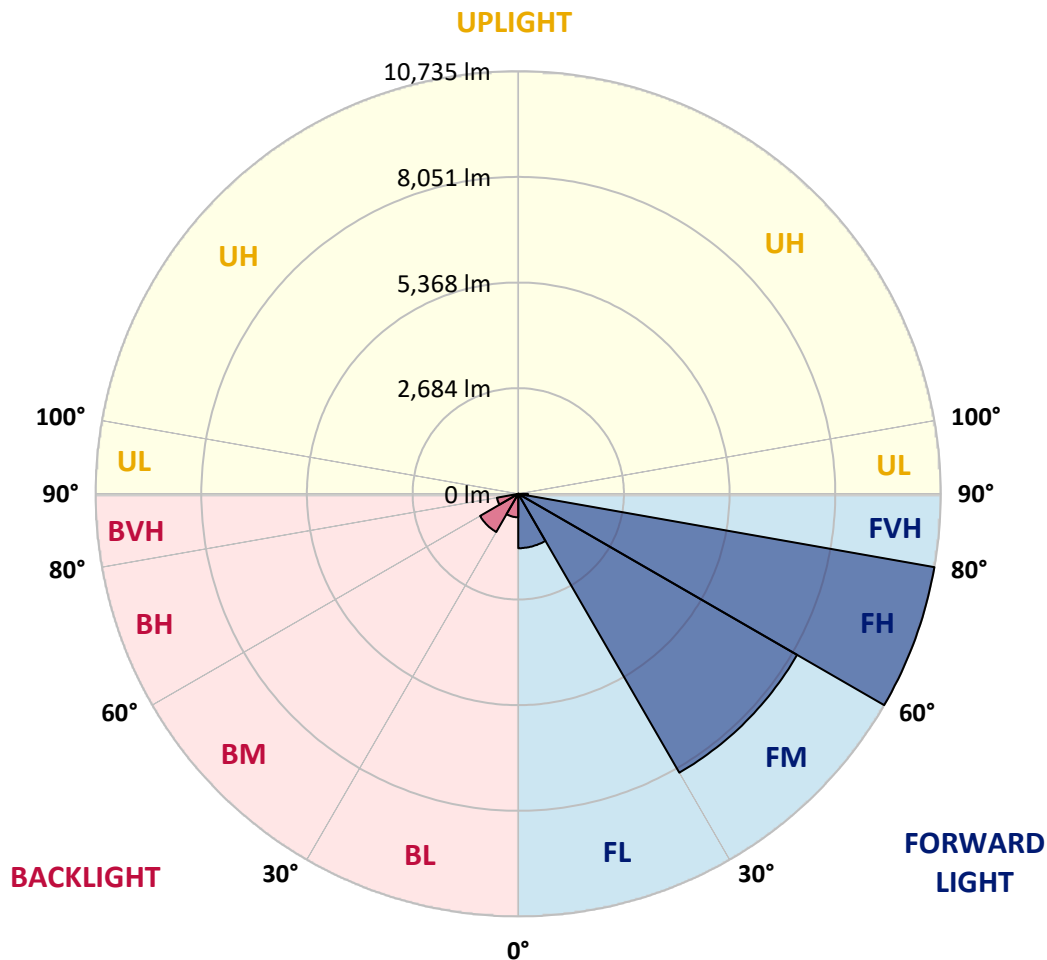


REPORT NUMBER: P575348
 CATALOG NUMBER: EPH-VN-04-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.3	6.1			
FM (30°-60°)	8179.3	35.9			
FH (60°-80°)	10735.2	47.1			G4/12000
FVH (80°-90°)	243.9	1.1			G3/500
BL (0°-30°)	596.3	2.6	B2/1000		
BM (30°-60°)	1120.5	4.9	B2/2500		
BH (60°-80°)	549.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	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-G4
 Type IV Short





REPORT NUMBER: P575348

CATALOG NUMBER: EPH-VN-04-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2498.5	2482.1	2455.8	2446.0	2419.7	2406.6	2386.9	2377.1	2340.9	2304.8
5°	2803.9	2764.5	2777.6	2738.2	2652.8	2583.9	2580.6	2505.1	2423.0	2357.4
7.5°	3112.5	3079.7	3030.4	2974.6	2879.4	2777.6	2748.1	2675.8	2560.9	2446.0
10°	3345.6	3322.6	3279.9	3201.1	3069.8	2954.9	2958.2	2836.7	2715.2	2583.9
12.5°	3490.1	3499.9	3437.5	3358.7	3243.8	3099.4	3096.1	3014.0	2876.1	2738.2
15°	3634.5	3670.6	3575.4	3483.5	3335.8	3230.7	3250.4	3151.9	3017.3	2859.7
17.5°	3657.5	3667.4	3647.7	3513.0	3404.7	3316.1	3319.3	3253.7	3151.9	2981.2
20°	3618.1	3611.5	3588.6	3490.1	3417.8	3365.3	3368.6	3352.2	3296.4	3158.5
22.5°	3503.2	3503.2	3473.6	3408.0	3375.1	3424.4	3385.0	3447.4	3388.3	3306.2
25°	3411.3	3447.4	3431.0	3388.3	3401.4	3467.1	3486.8	3545.9	3536.0	3434.2
27.5°	3509.8	3467.1	3476.9	3427.7	3476.9	3575.4	3585.3	3628.0	3624.7	3542.6
30°	3575.4	3614.8	3539.3	3431.0	3483.5	3650.9	3644.4	3700.2	3726.5	3628.0
32.5°	3785.6	3752.7	3690.3	3545.9	3552.4	3647.7	3677.2	3749.4	3765.9	3706.8
35°	4215.7	4166.4	3893.9	3677.2	3644.4	3690.3	3710.0	3851.2	3880.8	3815.1
37.5°	4878.9	4767.2	4438.9	3959.6	3811.8	3802.0	3802.0	3989.1	4100.7	3949.7
40°	5827.7	5670.1	5315.5	4481.6	4031.8	4071.2	4110.6	4212.4	4199.2	4100.7
42.5°	7035.9	6914.5	6530.3	5358.2	4452.0	4255.1	4222.2	4360.1	4567.0	4527.6
45°	8043.9	8050.5	7804.2	6559.9	5177.6	4678.6	4701.6	4806.6	5154.7	5125.1
47.5°	8779.3	8687.4	8651.3	7718.8	6234.8	5483.0	5450.1	5522.4	5975.5	6162.6
50°	9449.1	9386.7	9301.4	8845.0	7505.4	6490.9	6458.1	6464.7	7157.4	7420.1
52.5°	10279.8	10358.6	10076.2	9797.1	9150.3	7800.9	7764.8	7636.8	8497.0	8858.1
55°	11304.1	11156.4	10837.9	10982.4	10723.0	9216.0	9150.3	8999.3	10023.7	10174.7
57.5°	11530.7	11419.0	11747.4	12259.5	12509.1	10877.3	10851.0	10578.5	11307.4	11169.5
60°	12095.4	12124.9	12581.3	13599.1	14032.5	12794.7	12666.7	12187.3	12551.7	12578.0
62.5°	12676.5	12607.6	13628.6	14607.0	15273.5	14610.3	14567.6	13615.5	14029.2	13694.3
65°	12249.7	12354.8	13815.8	15454.1	16882.3	16386.5	16350.4	14991.2	15217.7	14800.7
67.5°	10732.8	10519.4	12564.9	15066.7	17709.7	18248.1	18208.7	16491.6	15887.5	14794.2
70°	7866.6	7682.7	9350.6	12758.6	16524.4	19200.3	19357.9	17535.7	15615.0	13415.2
72.5°	3854.5	3857.8	5240.0	8651.3	13073.8	17499.6	17578.4	16077.9	13415.2	9889.1
75°	1139.3	1152.4	1940.4	4241.9	8451.0	13290.5	13379.1	12203.7	9298.1	5108.7
77.5°	417.0	417.0	643.5	1592.4	4215.7	8388.6	8382.1	7492.3	4708.1	1730.3
80°	216.7	226.5	334.9	650.1	1825.5	4370.0	4534.1	3667.4	1789.4	728.9
82.5°	88.6	98.5	183.9	334.9	876.6	1533.3	1677.7	1438.0	778.1	508.9
85°	26.3	29.5	88.6	187.1	344.7	384.1	426.8	482.6	489.2	394.0
87.5°	3.3	3.3	36.1	62.4	75.5	82.1	95.2	95.2	249.5	275.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575348

CATALOG NUMBER: EPH-VN-04-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2239.2	0°	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2	2239.2
2281.8	2.5°	2255.6	2239.2	2212.9	2153.8	2140.7	2098.0	2094.7	2055.3	2068.4	2042.2
2268.7	5°	2239.2	2203.0	2130.8	2084.8	2038.9	2009.3	1989.6	1973.2	1969.9	1956.8
2327.8	7.5°	2268.7	2219.5	2107.8	2035.6	1956.8	1930.5	1887.9	1884.6	1861.6	1838.6
2423.0	10°	2367.2	2278.6	2157.1	2035.6	1933.8	1848.5	1750.0	1677.7	1651.5	1592.4
2547.8	12.5°	2446.0	2367.2	2189.9	2065.1	1910.8	1717.1	1500.4	1333.0	1254.2	1178.7
2649.6	15°	2557.6	2442.7	2252.3	2071.7	1822.2	1487.3	1132.7	945.6	873.3	856.9
2800.6	17.5°	2679.1	2557.6	2331.1	2055.3	1641.6	1149.1	833.9	725.6	738.7	758.4
2912.2	20°	2813.7	2666.0	2390.2	1999.5	1356.0	833.9	682.9	679.6	699.3	728.9
3102.6	22.5°	2954.9	2826.9	2462.4	1832.0	1011.2	669.8	656.6	656.6	669.8	705.9
3234.0	25°	3112.5	2941.8	2498.5	1572.7	725.6	617.2	623.8	636.9	643.5	673.1
3352.2	27.5°	3234.0	3069.8	2508.4	1260.8	591.0	571.3	587.7	604.1	614.0	636.9
3463.8	30°	3345.6	3230.7	2455.8	939.0	541.7	531.9	538.4	561.4	581.1	600.8
3572.1	32.5°	3486.8	3322.6	2334.4	666.5	512.2	495.8	492.5	502.3	525.3	548.3
3687.1	35°	3631.2	3476.9	2140.7	535.2	485.9	462.9	449.8	440.0	449.8	466.2
3857.8	37.5°	3841.4	3710.0	1897.7	492.5	466.2	433.4	407.1	384.1	367.7	364.4
4081.0	40°	4140.1	3972.7	1585.8	462.9	443.2	403.8	364.4	325.0	288.9	265.9
4514.4	42.5°	4593.2	4360.1	1247.6	446.5	426.8	371.0	315.2	259.4	213.4	190.4
5121.8	45°	5240.0	4872.3	916.0	430.1	407.1	331.6	259.4	193.7	147.7	134.6
6248.0	47.5°	6215.1	5489.5	656.6	403.8	380.9	288.9	203.6	137.9	108.3	101.8
7630.2	50°	7489.0	6221.7	512.2	374.3	348.0	243.0	151.0	101.8	85.4	82.1
9107.6	52.5°	8825.3	6960.4	449.8	348.0	298.8	193.7	111.6	82.1	72.2	68.9
10437.4	55°	9967.9	7436.5	390.7	308.6	239.7	144.5	88.6	72.2	62.4	52.5
11911.5	57.5°	11123.5	7676.2	308.6	256.1	177.3	108.3	75.5	62.4	52.5	42.7
13369.3	60°	12062.5	7846.9	220.0	190.4	124.8	85.4	65.7	55.8	42.7	32.8
14741.7	62.5°	12679.8	7357.7	160.9	144.5	91.9	72.2	55.8	46.0	32.8	23.0
15299.8	65°	12374.5	6681.4	124.8	101.8	68.9	55.8	46.0	32.8	23.0	13.1
14140.8	67.5°	11103.8	5443.6	101.8	75.5	52.5	42.7	36.1	26.3	13.1	3.3
10910.1	70°	8283.6	3989.1	82.1	55.8	42.7	32.8	26.3	16.4	6.6	3.3
6179.0	72.5°	4530.8	2183.3	65.7	46.0	32.8	26.3	19.7	13.1	6.6	0.0
2107.8	75°	1497.1	581.1	49.2	32.8	19.7	16.4	13.1	9.8	3.3	0.0
492.5	77.5°	361.2	151.0	39.4	29.5	16.4	9.8	6.6	3.3	3.3	0.0
144.5	80°	111.6	62.4	29.5	19.7	13.1	9.8	3.3	0.0	0.0	0.0
65.7	82.5°	46.0	29.5	13.1	13.1	9.8	3.3	0.0	0.0	0.0	0.0
29.5	85°	23.0	16.4	9.8	6.6	6.6	3.3	0.0	0.0	0.0	0.0
16.4	87.5°	16.4	6.6	3.3	3.3	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



<u>180°</u>
2239.2
2032.3
1950.2
1838.6
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646.8
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548.3
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374.3
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