

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: P574625

Luminaire Tested: **EPH-VN-07-750-U-T2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574625  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-750-U-T2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

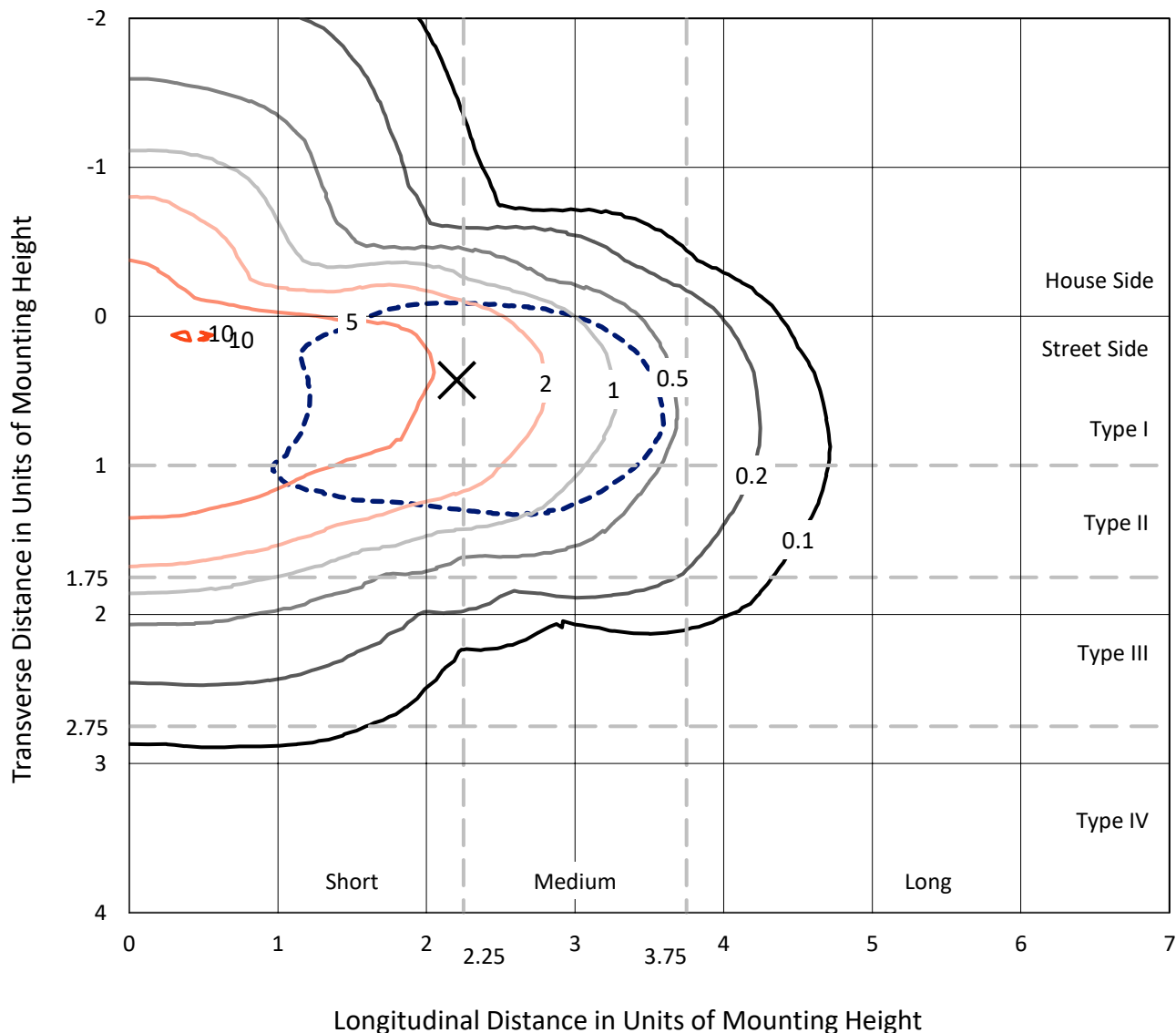
Lumens per Lamp: N/A  
Luminaire Lumens: 57674.5 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

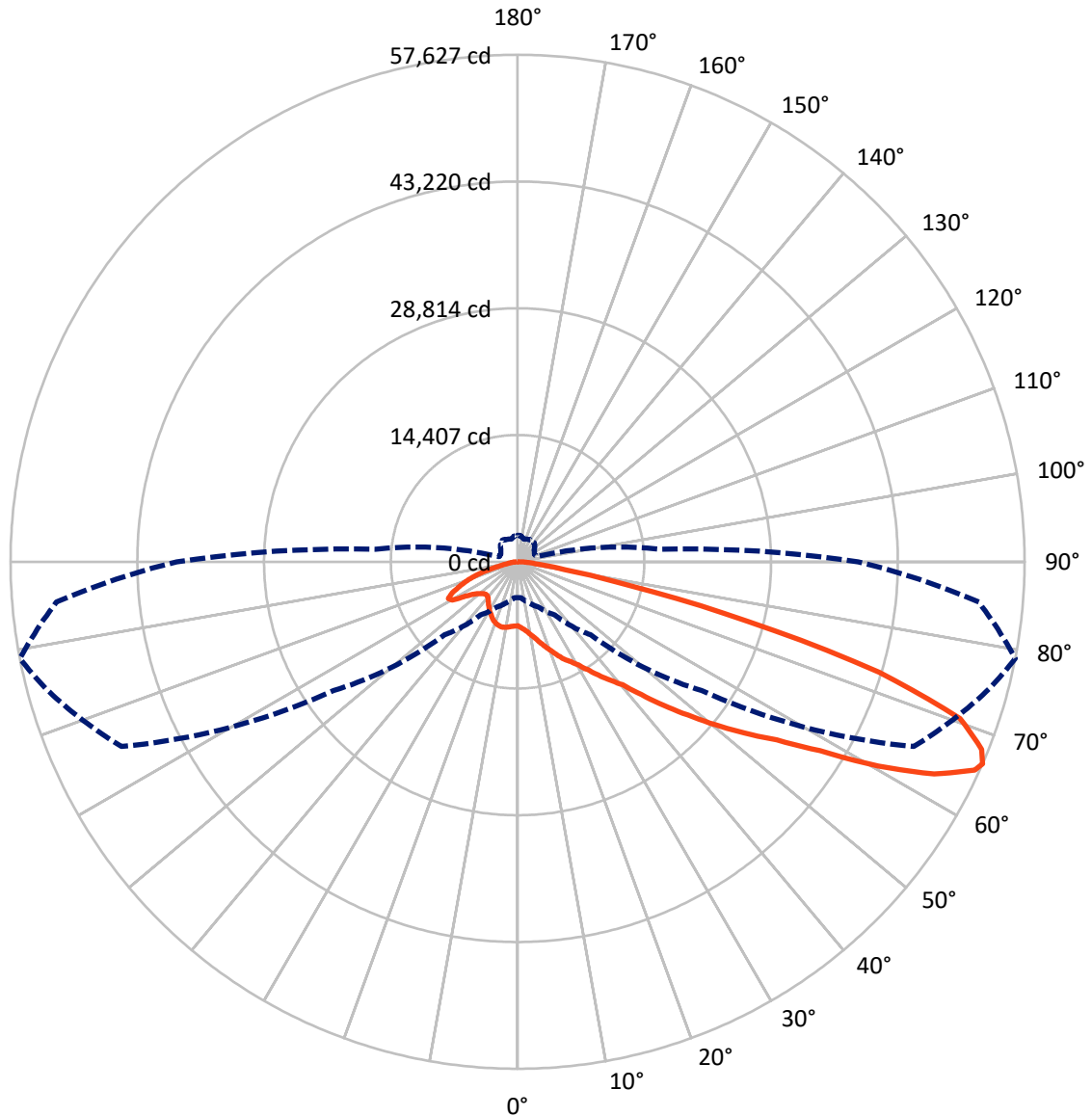
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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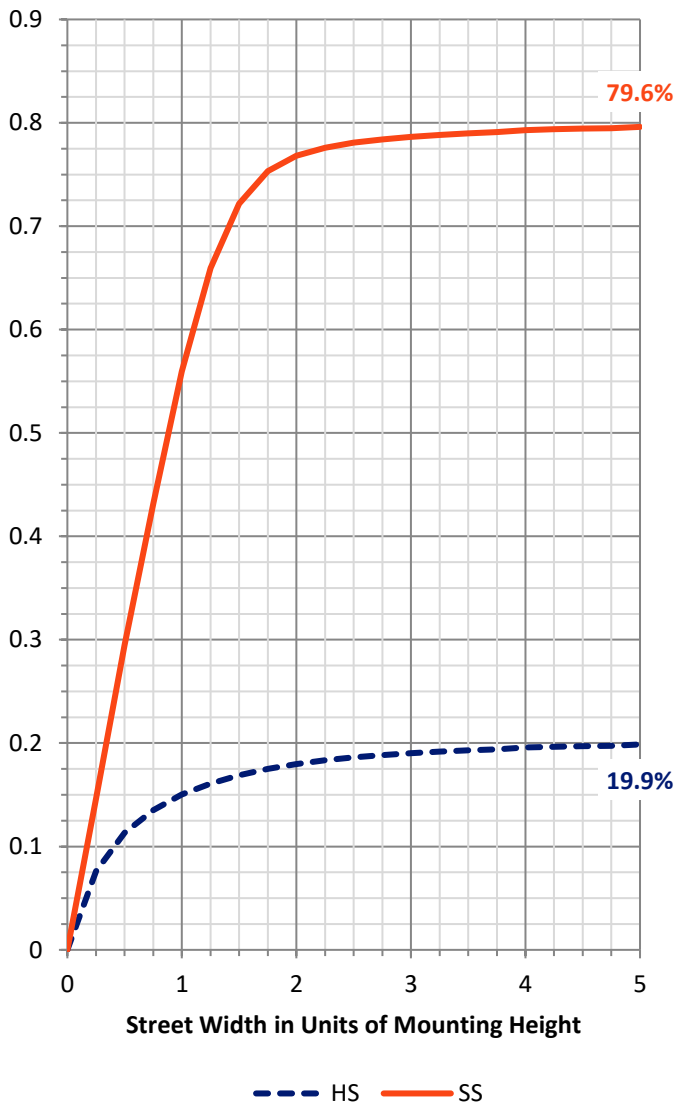
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11646.6	0.0	11646.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	46027.9	0.0	46027.9
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	57674.5	0.0	57674.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.1	1.2
10°-20°	2211.3	3.8
20°-30°	3795.8	6.6
30°-40°	5863.7	10.2
40°-50°	9392.2	16.3
50°-60°	14023.1	24.3
60°-70°	14408.8	25.0
70°-80°	6387.2	11.1
80°-90°	876.4	1.5
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°	57674.5	100.0
0°-180°	57674.5	100.0

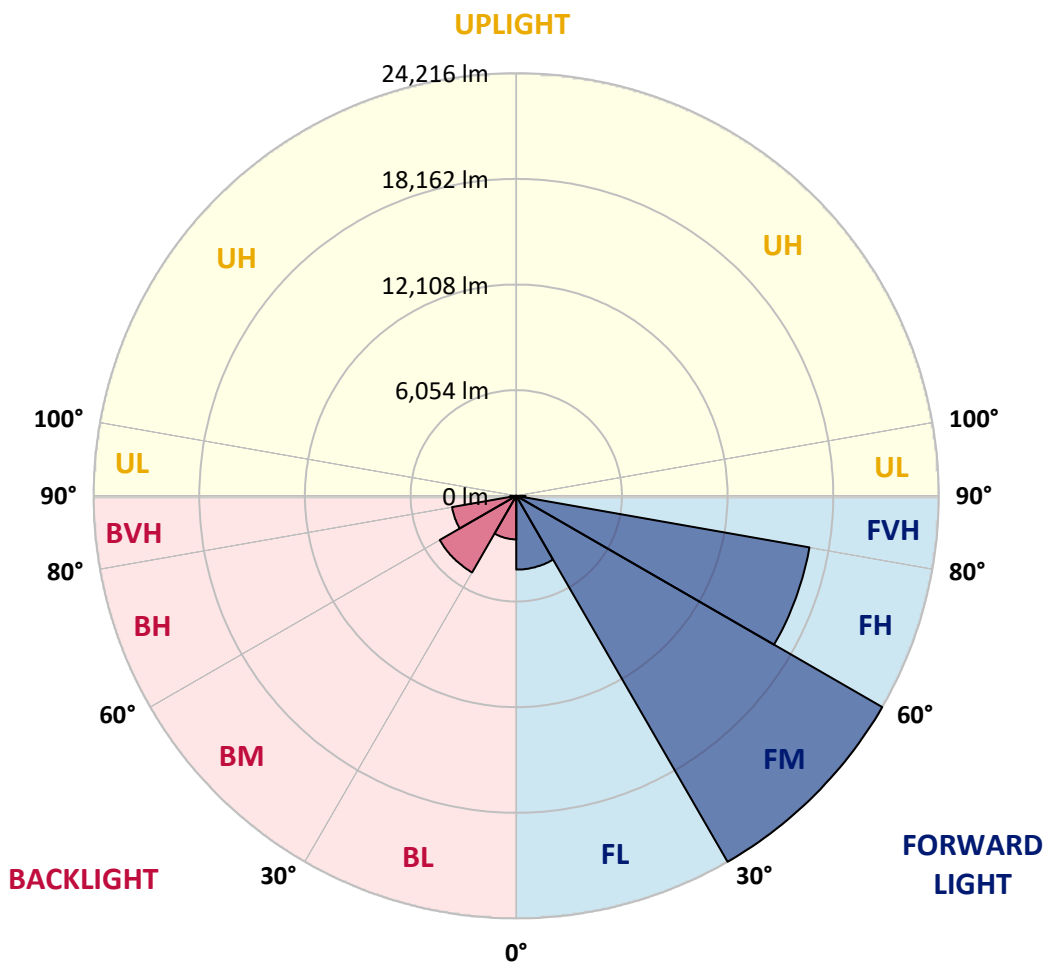


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4227.9	7.3			
FM (30°-60°)	24215.6	42.0			
FH (60°-80°)	17058.8	29.6			G5
FVH (80°-90°)	525.6	0.9			G4/750
BL (0°-30°)	2495.3	4.3	B3/2500		
BM (30°-60°)	5063.4	8.8	B4/8500		
BH (60°-80°)	3737.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	350.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7
2.5°	7745.8	7752.1	7752.1	7726.8	7733.1	7752.1	7682.3	7530.1	7530.1	7504.7
5°	8221.6	8189.9	8145.4	8151.8	8126.4	8126.4	8050.3	7904.4	7777.5	7726.8
7.5°	8285.0	8316.7	8310.4	8386.5	8424.6	8424.6	8462.6	8342.1	8151.8	8031.3
10°	8411.9	8329.4	8323.1	8500.7	8557.8	8691.0	8843.3	8779.8	8621.2	8449.9
12.5°	8488.0	8538.8	8538.8	8627.6	8760.8	8957.5	9223.9	9344.4	9097.0	8919.4
15°	8602.2	8532.4	8735.4	8811.5	9065.3	9204.9	9585.5	9896.3	9731.4	9515.7
17.5°	8652.9	8608.5	8722.7	8862.3	9293.7	9503.0	9966.1	10397.5	10257.9	10118.4
20°	8913.0	8906.7	8957.5	9071.6	9382.5	9794.8	10372.1	10968.4	11019.2	10765.4
22.5°	9547.4	9465.0	9465.0	9420.5	9553.8	9978.8	10759.1	11583.8	11812.2	11514.0
25°	10131.1	10245.2	10175.5	9972.5	9921.7	10143.7	11038.2	12237.2	12541.7	12262.6
27.5°	10879.6	10917.7	11038.2	10765.4	10416.5	10486.3	11342.7	12605.1	13233.2	12858.9
30°	11958.1	11888.3	11862.9	11558.4	11101.7	11006.5	11691.6	13144.4	14140.3	13613.8
32.5°	12687.6	12858.9	12852.5	12433.9	11881.9	11672.6	12123.0	13651.9	15110.9	14622.5
35°	14134.0	14311.6	14172.1	13556.7	12909.6	12491.0	12744.7	14311.6	16221.1	15840.5
37.5°	15980.0	16398.7	16100.6	14965.0	14051.5	13594.8	13607.5	15028.5	17356.6	17045.8
40°	17255.1	17819.7	17407.4	16341.6	15371.0	14939.7	14768.4	15878.5	18714.2	18384.3
42.5°	18834.8	19304.2	19088.5	18035.4	16899.9	16532.0	16189.4	17299.6	20788.6	20636.4
45°	20560.3	20782.3	20712.5	20046.4	18784.0	18657.1	17902.2	19171.0	23231.0	23294.5
47.5°	22165.3	22285.8	22419.0	21936.9	21150.2	21258.1	19875.1	21175.6	25603.6	26022.3
50°	22577.6	22989.9	23300.8	23624.3	23795.6	24525.1	22051.1	23637.0	28331.4	29143.4
52.5°	22158.9	22127.2	23072.4	24087.4	25800.3	27329.1	25013.6	26694.7	30742.1	32347.1
55°	20255.8	20192.3	21714.8	23059.7	26402.9	28889.7	29244.9	30767.5	33653.9	35741.0
57.5°	16925.3	16532.0	18194.0	20401.7	25096.1	29061.0	33495.3	36813.1	38132.6	40511.5
60°	11374.4	11209.5	12801.8	15434.5	20376.3	26631.3	36039.2	44381.3	44444.7	47121.8
62.5°	7003.6	7035.3	8056.6	10029.6	14267.2	21112.2	34941.7	50426.9	50439.6	53123.0
65°	4580.2	4599.3	5424.0	6515.1	8913.0	14318.0	28896.0	50902.7	54607.5	57100.6
66°	4079.1	4085.4	4795.9	5684.0	7384.2	11717.0	25521.1	49665.6	55546.4	57627.1
67.5°	3438.3	3520.8	4091.8	4776.9	5760.2	8418.2	20249.4	46087.7	55064.2	56891.2
70°	2689.8	2734.2	3184.6	3882.4	4320.1	4872.0	12034.2	37568.0	50401.5	53364.1
72.5°	2156.9	2195.0	2537.5	3152.9	3508.1	3210.0	6553.2	27259.3	39813.7	42972.9
75°	1820.7	1827.0	1992.0	2480.4	2886.4	2410.6	3489.1	17496.2	25546.5	27018.3
77.5°	1471.8	1497.1	1611.3	1890.5	2321.8	1896.8	2080.8	9801.2	12827.2	12935.0
80°	1199.0	1211.7	1281.4	1376.6	1769.9	1402.0	1408.3	4783.2	5500.1	5373.2
82.5°	945.2	957.9	1040.4	1021.4	1300.5	1002.3	875.4	2302.8	2531.2	2480.4
85°	532.9	532.9	818.4	818.4	824.7	634.4	532.9	1084.8	1338.5	1249.7
87.5°	171.3	177.6	247.4	260.1	412.3	285.5	260.1	406.0	634.4	558.3
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°
7282.7	0°	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7	7282.7
7460.3	2.5°	7434.9	7333.4	7289.0	7143.1	7105.1	7009.9	6965.5	6908.4	6889.4	6806.9
7593.5	5°	7492.0	7460.3	7282.7	7098.7	6959.2	6895.7	6800.6	6673.7	6661.0	6546.8
7898.0	7.5°	7733.1	7625.3	7314.4	7117.7	6838.6	6680.0	6470.7	6407.2	6324.8	6286.7
8272.3	10°	8107.4	7834.6	7371.5	6876.7	6534.1	6343.8	6191.6	6147.1	6153.5	6128.1
8646.6	12.5°	8373.8	8113.7	7276.3	6673.7	6229.6	6045.6	6033.0	6077.4	6147.1	6115.4
9084.3	15°	8754.5	8266.0	7206.6	6337.5	5982.2	5931.5	5925.1	6058.3	6052.0	6052.0
9674.3	17.5°	9109.7	8418.2	6952.8	6045.6	5722.1	5760.2	5804.6	5798.2	5861.7	5887.1
10162.8	20°	9560.1	8595.9	6597.6	5753.8	5525.5	5512.8	5506.4	5512.8	5576.2	5614.3
10714.7	22.5°	9953.4	8633.9	6299.4	5474.7	5290.7	5240.0	5157.5	5240.0	5208.3	5221.0
11463.3	25°	10296.0	8640.3	5874.4	5265.4	5056.0	4941.8	4878.4	4872.0	4814.9	4808.6
11888.3	27.5°	10581.5	8424.6	5500.1	4973.5	4776.9	4669.0	4662.7	4592.9	4447.0	4351.9
12389.5	30°	10803.5	8259.6	5240.0	4719.8	4529.5	4510.4	4453.4	4294.8	4104.4	3983.9
13315.6	32.5°	11196.8	7929.8	4884.7	4459.7	4364.5	4339.2	4205.9	4066.4	3888.8	3774.6
14102.3	35°	11488.6	7625.3	4650.0	4237.7	4193.3	4142.5	4028.3	3876.1	3825.3	3799.9
14946.0	37.5°	11818.5	7282.7	4364.5	4047.3	4091.8	3996.6	3863.4	3793.6	3971.2	3926.8
16265.5	40°	12345.0	7041.6	4085.4	3933.2	3977.6	3869.7	3698.4	3673.1	3895.1	3736.5
17959.3	42.5°	13309.3	7035.3	3914.1	3761.9	3793.6	3711.1	3558.9	3546.2	3635.0	3444.7
20078.1	45°	14508.3	7257.3	3787.3	3635.0	3609.6	3596.9	3546.2	3489.1	3413.0	3165.6
22438.0	47.5°	15942.0	7618.9	3761.9	3444.7	3476.4	3584.2	3520.8	3374.9	3178.2	3019.7
25064.4	50°	17680.2	8367.5	3698.4	3305.1	3362.2	3533.5	3482.7	3279.7	3102.1	3000.6
27468.7	52.5°	19602.4	9312.7	3616.0	3089.4	3216.3	3489.1	3514.5	3324.2	3064.1	2975.2
30723.0	55°	21867.1	10708.3	3520.8	2854.7	3045.0	3444.7	3514.5	3197.3	3013.3	3013.3
35690.2	57.5°	26339.5	13220.5	3324.2	2639.0	2892.8	3362.2	3413.0	3203.6	3019.7	3019.7
43398.0	60°	32899.0	17141.0	2949.9	2474.1	2746.9	3248.0	3336.8	3108.5	2949.9	2987.9
49741.8	62.5°	38031.1	18333.6	2632.7	2315.5	2601.0	3038.7	3235.3	3007.0	2867.4	3007.0
52647.2	65°	39128.6	17128.3	2309.1	2144.2	2398.0	2835.7	3089.4	2861.1	2746.9	3019.7
52609.2	66°	38735.3	16189.4	2195.0	2093.5	2309.1	2734.2	3000.6	2810.3	2683.4	3007.0
51416.5	67.5°	36984.4	14781.1	2068.1	1985.6	2188.6	2588.3	2899.1	2740.5	2581.9	2968.9
47077.4	70°	33178.1	12535.4	1852.4	1795.3	2017.3	2347.2	2664.4	2562.9	2423.3	2734.2
37028.8	72.5°	25552.8	10016.9	1624.0	1630.4	1820.7	2099.8	2429.7	2359.9	2239.4	2398.0
22685.4	75°	15561.4	6400.9	1414.7	1427.4	1586.0	1865.1	2207.6	2156.9	2011.0	2099.8
10486.3	77.5°	6895.7	3171.9	1192.6	1218.0	1344.9	1643.0	1922.2	1839.7	1687.5	1706.5
4263.0	80°	2677.1	1503.5	970.6	1002.3	1084.8	1313.2	1592.3	1516.2	1382.9	1357.6
1960.2	82.5°	1287.8	837.4	748.6	761.3	793.0	1046.7	1370.3	1275.1	1097.5	983.3
919.9	85°	647.1	520.2	526.5	482.1	526.5	710.5	926.2	773.9	640.7	570.9
329.9	87.5°	260.1	260.1	260.1	222.0	234.7	336.2	431.4	291.8	266.4	158.6
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>
7282.7
6883.0
6534.1
6369.2
6090.1
6159.8
6045.6
5931.5
5582.5
5259.0
4808.6
4364.5
3983.9
3755.5
3819.0
3945.8
3698.4
3387.6
3102.1
2987.9
2981.6
2962.6
3000.6
2994.3
2981.6
3019.7
3032.3
<b>3013.3</b>
2911.8
2632.7
2334.5
2068.1
1693.8
1344.9
983.3
583.6
158.6
0.0

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