

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: P574699

Luminaire Tested: **EPH-VN-07-740-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574699  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

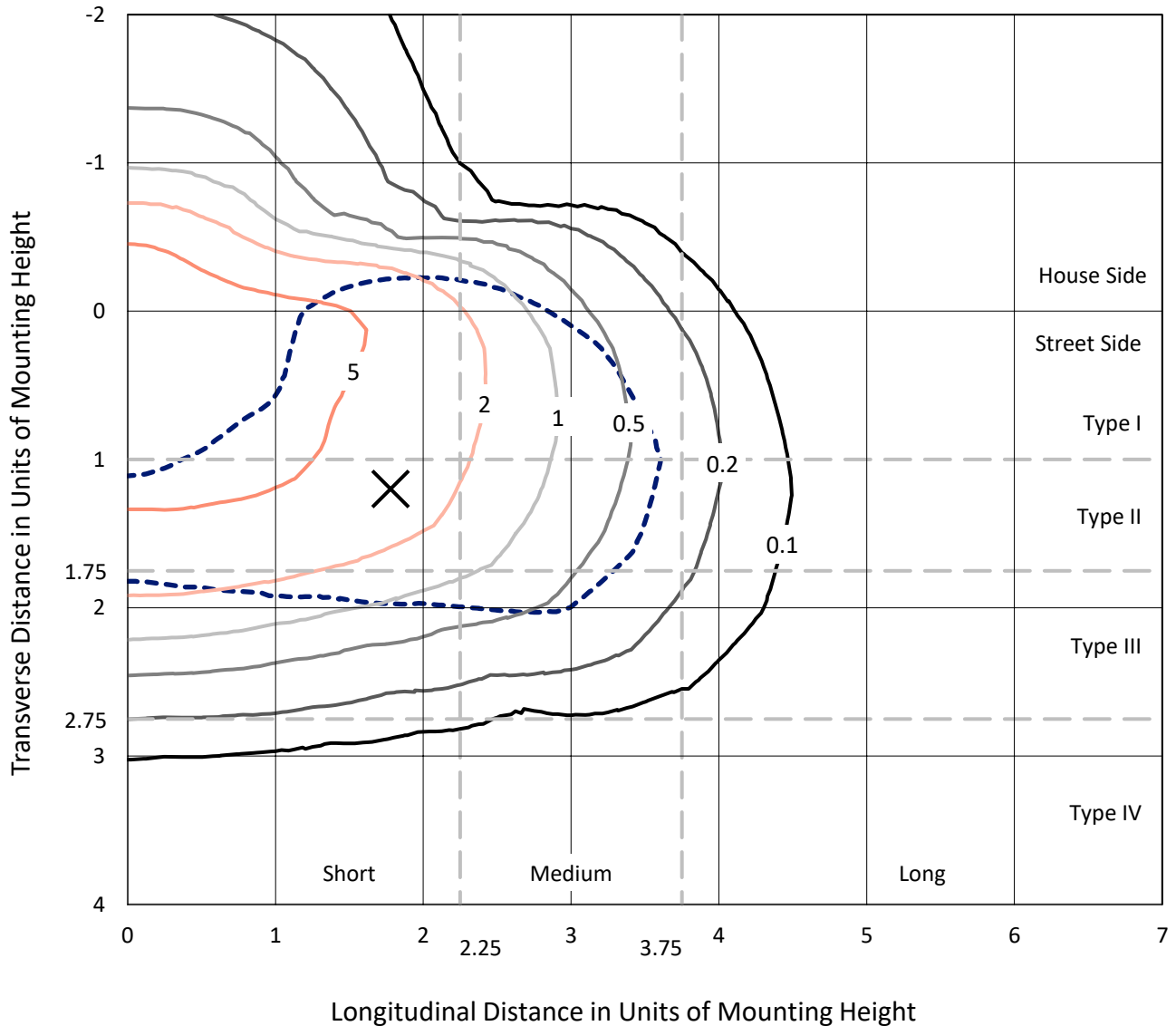
Lumens per Lamp: N/A  
Luminaire Lumens: 57496.9 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

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

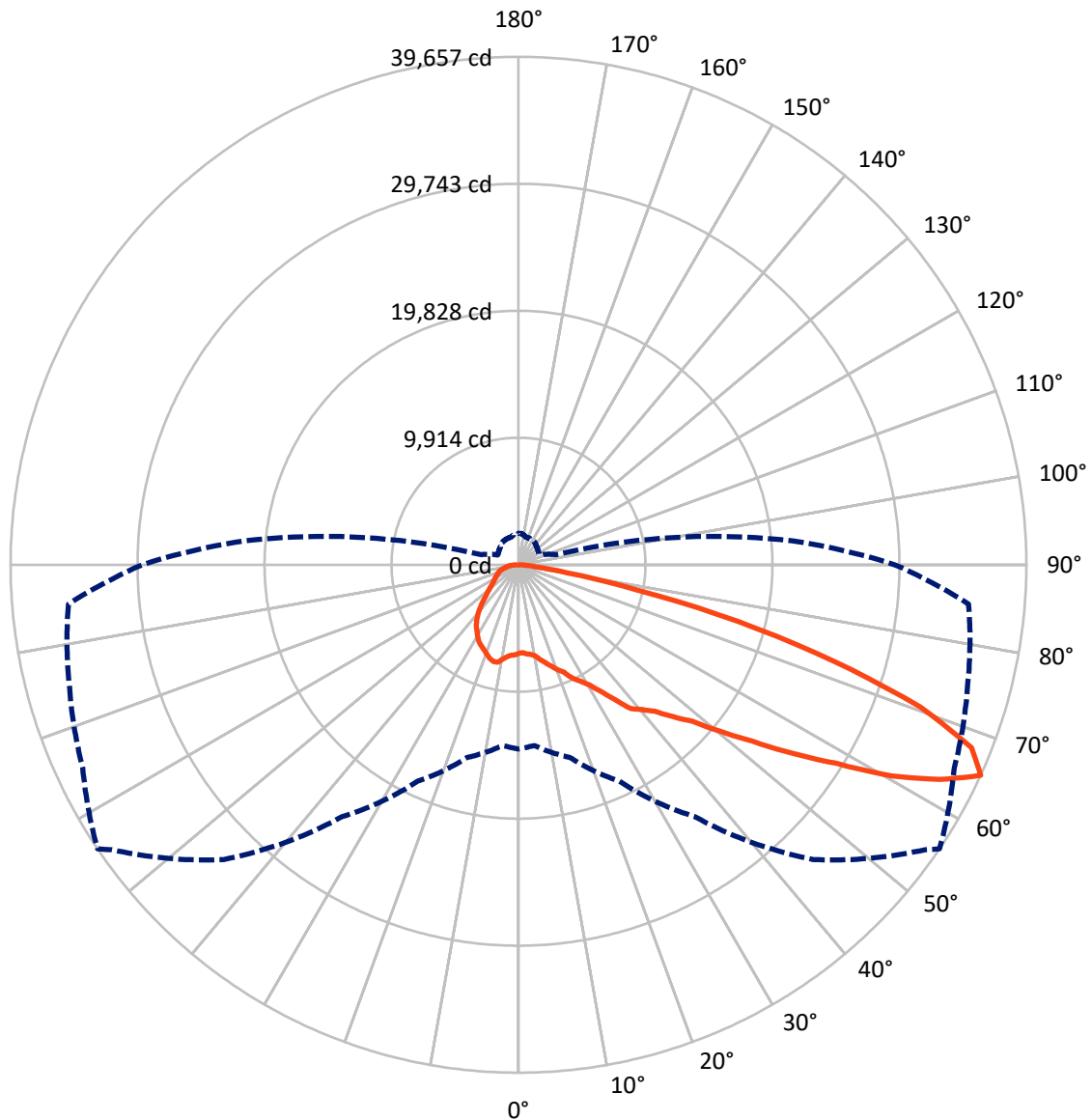
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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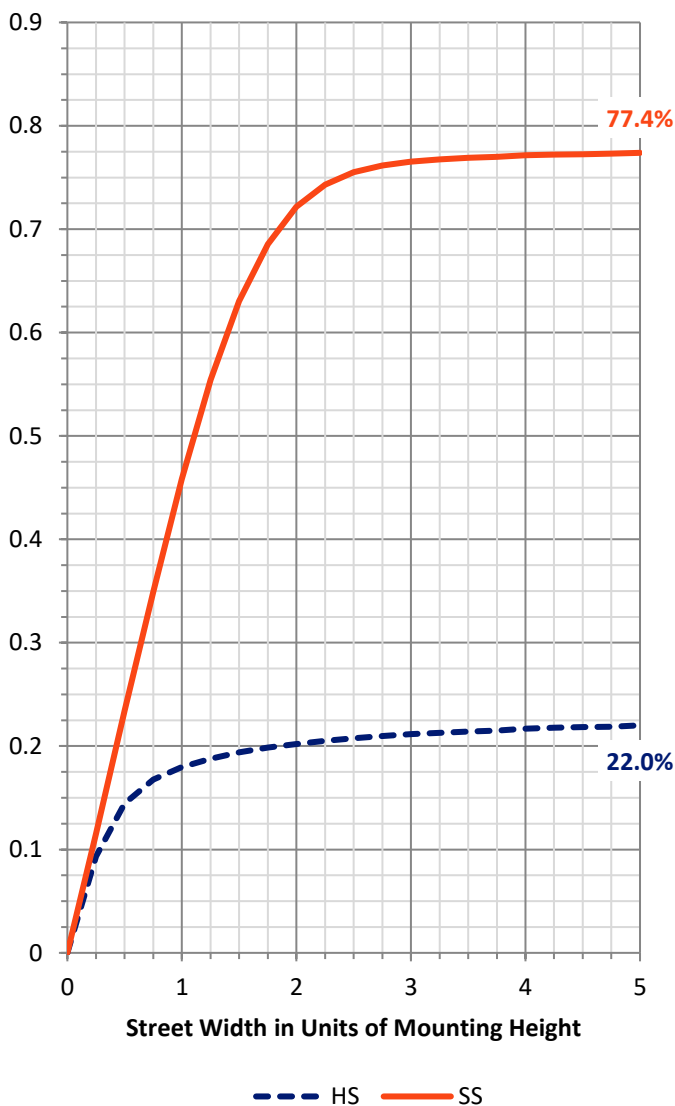
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12894.7	0.0	12894.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	44602.2	0.0	44602.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	57496.9	0.0	57496.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.9	1.2
10°-20°	2220.7	3.9
20°-30°	3954.1	6.9
30°-40°	5921.1	10.3
40°-50°	8772.9	15.3
50°-60°	13517.7	23.5
60°-70°	15303.8	26.6
70°-80°	6351.2	11.0
80°-90°	771.6	1.3
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°	57496.9	100.0
0°-180°	57496.9	100.0

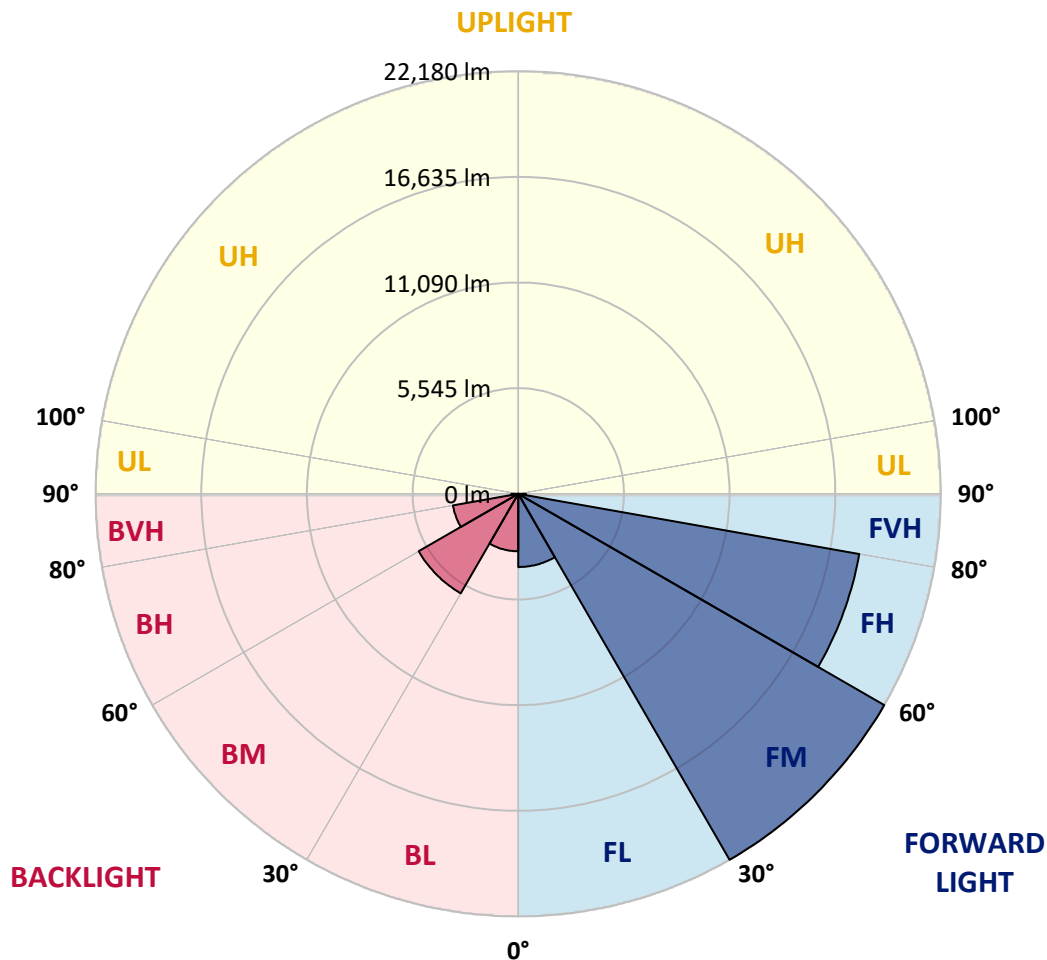


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3842.5	6.7			
FM (30°-60°)	22179.8	38.6			
FH (60°-80°)	18173.0	31.6			G5
FVH (80°-90°)	407.0	0.7			G3/500
BL (0°-30°)	3016.2	5.2	B4/5000		
BM (30°-60°)	6031.9	10.5	B4/8500		
BH (60°-80°)	3482.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	364.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3
2.5°	6720.8	6756.9	6732.8	6805.0	6865.2	6865.2	6913.3	6877.2	6925.3	6991.5
5°	6943.4	6799.0	6877.2	6913.3	6895.3	6925.3	6877.2	6997.5	6919.3	7045.7
7.5°	6997.5	7051.7	7117.9	7057.7	7111.9	7081.8	7087.8	7069.7	7027.6	7129.9
10°	7394.7	7316.4	7466.9	7376.6	7364.6	7352.5	7328.5	7238.2	7340.5	7346.5
12.5°	7851.9	7779.7	7773.7	7701.5	7797.8	7623.3	7659.4	7611.3	7629.3	7653.4
15°	8182.9	8152.8	8291.2	8206.9	8080.6	8002.3	8086.6	7954.2	8020.4	8008.4
17.5°	8838.7	8832.7	8730.4	8592.0	8519.8	8405.5	8387.4	8333.3	8381.4	8357.3
20°	9296.0	9362.1	9380.2	9217.7	8941.0	8814.6	8784.5	8742.4	8796.6	8778.5
22.5°	9993.9	9891.6	9969.8	9687.1	9584.8	9283.9	9175.6	9115.5	9374.2	9308.0
25°	10439.2	10547.5	10469.2	10373.0	10144.3	9771.3	9693.1	9825.4	9927.7	9855.5
27.5°	11444.0	11335.7	11263.5	10974.6	10824.2	10433.1	10342.9	10294.8	10318.8	10360.9
30°	12208.1	12268.3	12105.8	11901.2	11522.2	11125.1	10914.5	10872.4	10788.1	10715.9
32.5°	13297.1	13206.9	13110.6	12978.2	12653.3	12129.9	11925.3	11768.9	11516.2	11179.2
35°	13820.6	14079.3	14007.1	13652.1	13405.4	13206.9	13146.7	12906.0	12695.5	12166.0
37.5°	14693.0	14801.3	14699.1	14584.7	14470.4	14259.8	14187.6	14253.8	13838.6	12966.2
40°	15258.6	15487.3	15697.8	15378.9	15354.9	15397.0	14951.8	14873.5	14019.2	13561.9
42.5°	16413.8	16510.1	16552.2	16540.2	16678.6	16678.6	15830.2	15661.7	15054.0	14681.0
45°	17942.1	18020.3	18170.7	18279.0	18122.6	18200.8	16991.5	16925.3	16383.8	16311.6
47.5°	19265.8	19452.3	19789.3	20108.2	20312.7	20048.0	18724.3	18255.0	18116.6	18549.8
50°	20421.0	20198.4	20986.6	21311.5	22208.0	22647.2	20637.6	20451.1	20228.5	21058.8
52.5°	20535.4	20836.2	21949.3	22599.1	24446.3	25258.5	22984.2	22906.0	22635.2	23591.9
55°	21353.6	21317.5	22436.7	23844.6	26040.7	27406.5	26040.7	25992.6	25402.9	26311.5
57.5°	21215.2	21582.3	22466.7	24434.2	27478.7	29711.0	29584.6	29253.7	28429.4	29169.5
60°	20745.9	20842.2	21919.2	24416.2	28315.1	32075.6	33411.3	33477.5	31792.8	32382.4
62.5°	18086.5	18309.1	19674.9	22496.8	27719.4	33706.1	37147.7	36913.1	35565.3	34891.4
65°	14386.2	14163.6	15583.5	18634.0	24013.1	32550.9	38784.3	39656.8	37538.8	36305.4
67.5°	8820.6	8766.5	10132.3	12821.8	17966.2	27701.4	37478.7	38158.6	36991.3	36004.6
70°	4542.7	4404.3	5258.7	7154.0	11293.5	20324.8	32617.1	33285.0	34398.1	32292.2
72.5°	2117.9	2087.8	2545.1	3519.8	5752.1	11949.4	25258.5	25739.9	28086.4	27226.0
75°	1245.5	1263.5	1522.3	1841.1	2803.8	5631.7	16762.8	17695.4	20240.5	19620.8
77.5°	932.6	932.6	1083.0	1281.6	1636.6	2178.1	8273.1	9506.5	11835.1	10643.7
80°	685.9	697.9	830.3	962.7	1137.2	1125.1	3285.2	3850.8	5427.2	4639.0
82.5°	535.5	553.5	643.8	716.0	800.2	679.9	1347.8	1450.0	2232.2	1775.0
85°	373.0	385.1	505.4	487.4	487.4	379.1	559.6	589.6	884.5	842.4
87.5°	90.3	102.3	246.7	270.8	204.6	114.3	174.5	198.6	318.9	367.0
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°
6901.3	0°	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3	6901.3
7021.6	2.5°	6931.4	6955.4	7057.7	7003.6	7033.6	6907.3	7009.6	6925.3	6997.5	6961.4
7075.8	5°	7123.9	7069.7	7129.9	7087.8	7087.8	7135.9	7208.1	7154.0	7262.3	7214.1
7117.9	7.5°	7202.1	7208.1	7244.2	7250.2	7220.2	7370.6	7376.6	7358.6	7460.8	7436.8
7406.7	10°	7394.7	7400.7	7466.9	7503.0	7472.9	7527.0	7466.9	7418.7	7412.7	7388.6
7635.3	12.5°	7701.5	7761.7	7749.6	7779.7	7785.7	7557.1	7418.7	7184.1	7154.0	7184.1
7972.3	15°	7984.3	7960.2	7972.3	8032.4	7779.7	7412.7	7166.0	6967.5	6979.5	6985.5
8411.5	17.5°	8321.2	8339.3	8357.3	8080.6	7617.3	7184.1	6967.5	6967.5	6907.3	6931.4
8718.3	20°	8706.3	8634.1	8477.7	8086.6	7334.5	6919.3	6853.1	6853.1	6780.9	6732.8
9049.3	22.5°	9007.2	8862.8	8628.1	7900.1	7081.8	6817.0	6654.6	6540.3	6456.0	6359.8
9416.3	25°	9199.7	9121.5	8664.2	7707.5	6895.3	6546.3	6305.6	6131.1	6022.8	5896.5
9705.1	27.5°	9494.5	9344.1	8766.5	7484.9	6690.7	6275.5	5902.5	5631.7	5427.2	5294.8
10144.3	30°	9891.6	9675.0	8694.3	7166.0	6377.8	5806.2	5367.0	5018.0	4783.4	4675.1
10559.5	32.5°	10216.5	9933.7	8634.1	6877.2	6028.8	5330.9	4747.3	4392.3	4259.9	4121.5
11257.4	35°	10836.3	10276.7	8592.0	6714.8	5716.0	4855.6	4241.8	3935.0	3766.5	3561.9
11672.6	37.5°	11311.6	10872.4	8489.7	6377.8	5312.8	4392.3	3856.8	3580.0	3327.3	3110.7
12635.3	40°	12057.7	11702.7	8495.7	5902.5	4837.5	3995.2	3555.9	3267.1	2948.2	2761.7
14061.3	42.5°	13459.6	12521.0	8531.8	5523.4	4302.0	3670.3	3285.2	2942.2	2623.3	2466.9
15685.8	45°	15180.4	13646.1	8309.2	5180.5	3754.5	3363.4	2960.3	2617.3	2412.7	2298.4
17894.0	47.5°	17159.9	14747.2	8008.4	4536.7	3297.2	3038.5	2659.4	2460.9	2310.5	2244.3
20739.9	50°	19374.1	16323.6	7924.1	3947.0	2942.2	2761.7	2515.0	2364.6	2262.3	2184.1
23946.9	52.5°	22226.1	18158.7	7755.7	3339.3	2635.4	2539.1	2460.9	2358.6	2268.3	2202.2
26937.2	55°	24951.7	20192.4	7575.2	2839.9	2418.8	2430.8	2472.9	2382.7	2304.4	2202.2
30288.6	57.5°	28020.3	22268.2	6907.3	2472.9	2256.3	2376.6	2460.9	2358.6	2280.4	2202.2
33718.2	60°	29915.5	23435.4	5601.6	2154.0	2111.9	2274.4	2388.7	2280.4	2196.1	2226.2
35294.6	62.5°	30685.7	22821.7	4223.8	1955.5	2009.6	2136.0	2274.4	2232.2	2172.1	2286.4
35276.5	65°	29374.0	21407.8	3020.4	1787.0	1871.2	1997.6	2172.1	2220.2	2238.3	2460.9
32400.5	67.5°	26137.0	18640.1	2220.2	1648.6	1726.8	1913.3	2244.3	2322.5	2310.5	2587.2
27189.9	70°	20914.4	14578.7	1732.8	1534.3	1672.7	1979.5	2346.6	2346.6	2262.3	2587.2
20739.9	72.5°	15216.5	10276.7	1492.2	1401.9	1534.3	1817.1	2334.5	2328.5	2220.2	2364.6
13206.9	75°	9211.7	5980.7	1317.7	1269.5	1317.7	1558.4	2232.2	2196.1	2045.7	2033.7
6353.7	77.5°	4590.8	3008.4	1077.0	1125.1	1149.2	1305.6	1961.5	2015.6	1811.1	1762.9
2509.0	80°	1937.4	1311.7	896.5	968.7	968.7	1101.1	1630.6	1666.7	1504.2	1413.9
992.8	82.5°	884.5	752.1	764.1	842.4	788.2	854.4	1293.6	1335.7	1221.4	1071.0
421.2	85°	373.0	427.2	583.6	661.8	583.6	553.5	890.5	938.6	794.2	661.8
180.5	87.5°	168.5	234.7	367.0	481.3	294.8	258.7	475.3	493.4	397.1	294.8
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>
6901.3
6895.3
7148.0
7400.7
7388.6
7196.1
7069.7
6937.4
6660.6
6305.6
5920.5
5355.0
4735.2
4115.5
3543.9
3116.7
2779.8
2478.9
2322.5
2232.2
2196.1
2196.1
2196.1
2196.1
2202.2
2256.3
2460.9
2605.3
2533.1
2280.4
2009.6
1732.8
1383.9
1046.9
667.9
276.8
0.0

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