

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: P574649

Luminaire Tested: **EPH-VN-03-735-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574649
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

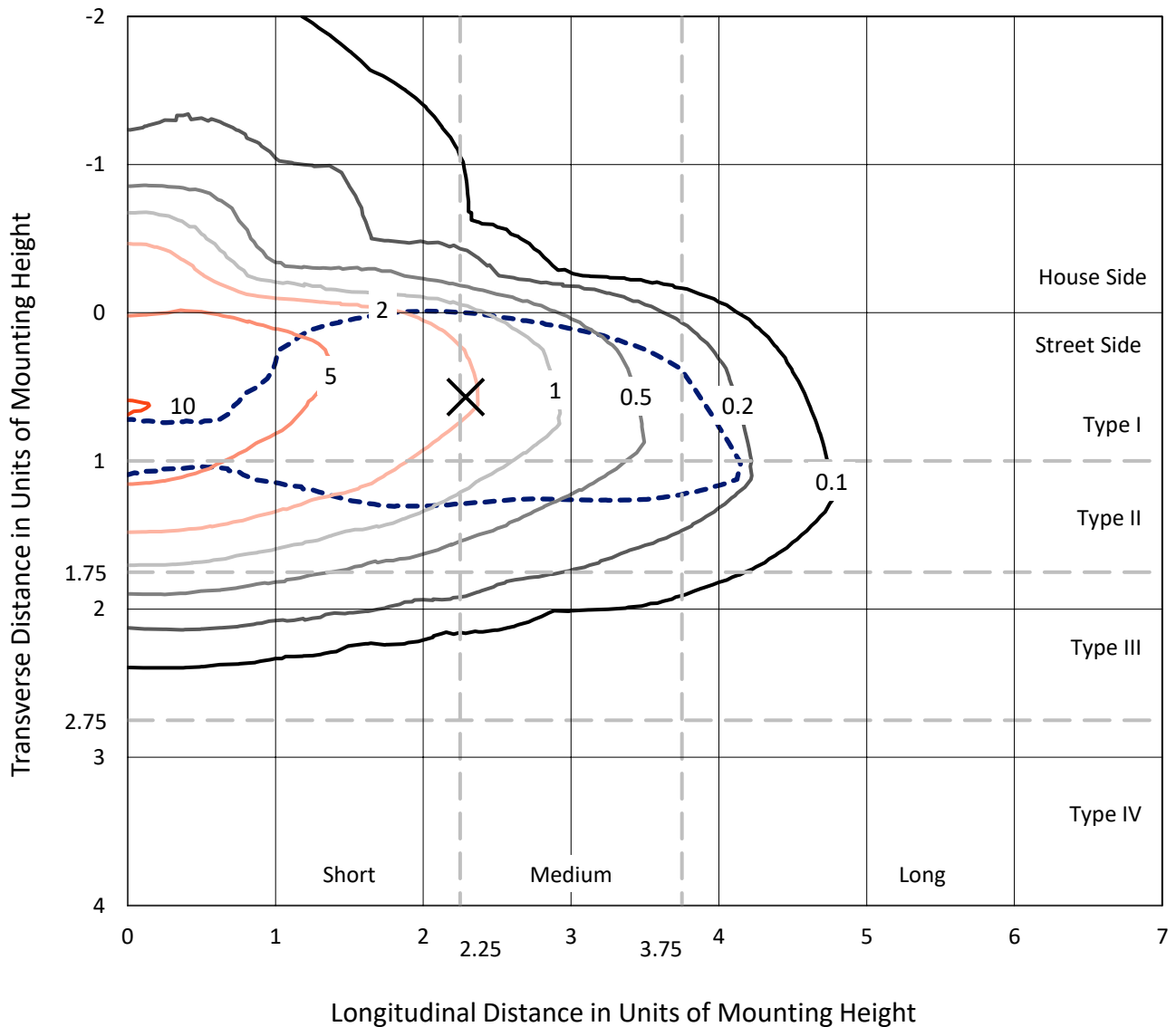
Lumens per Lamp: N/A
Luminaire Lumens: 26753.3 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

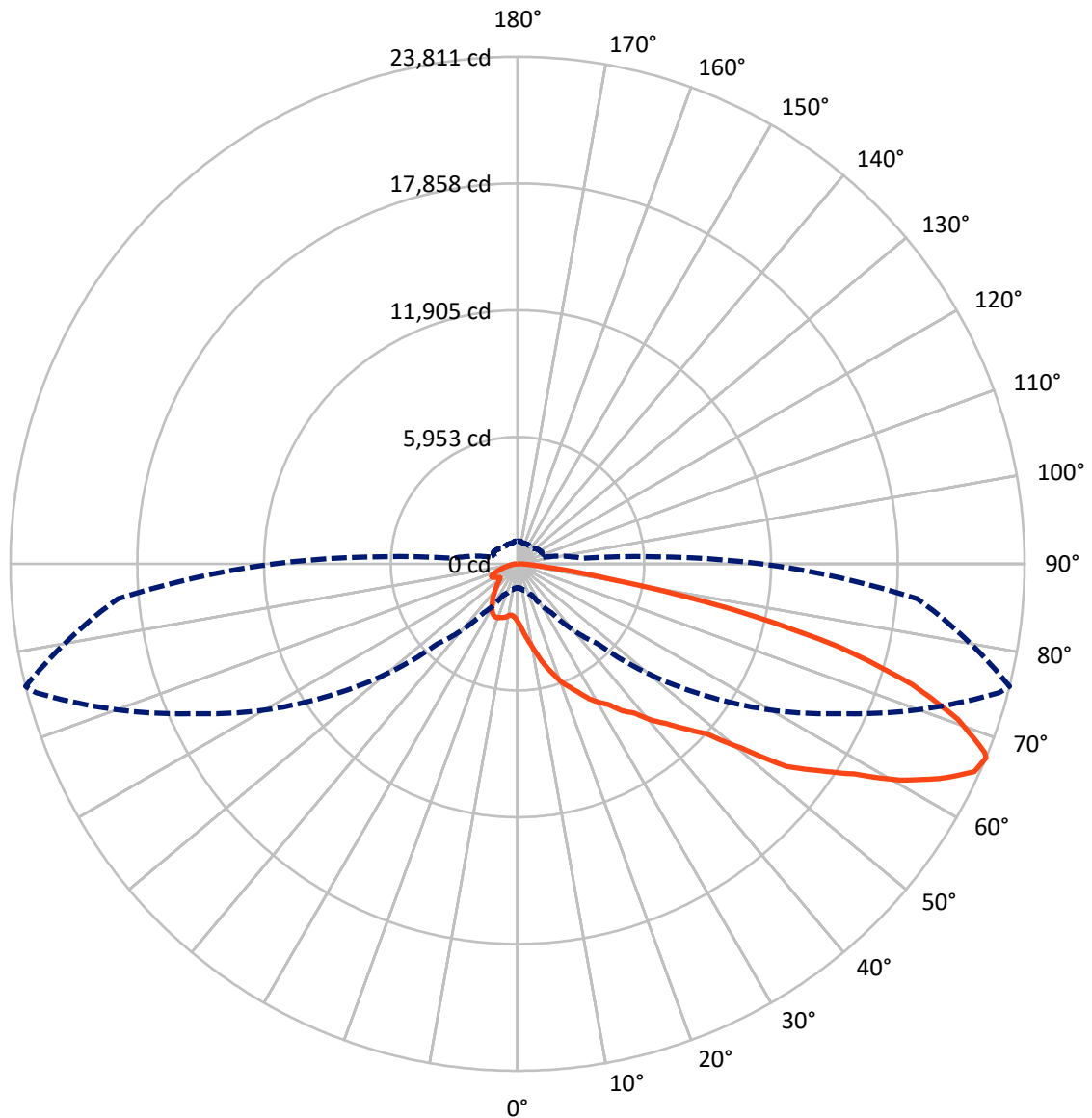
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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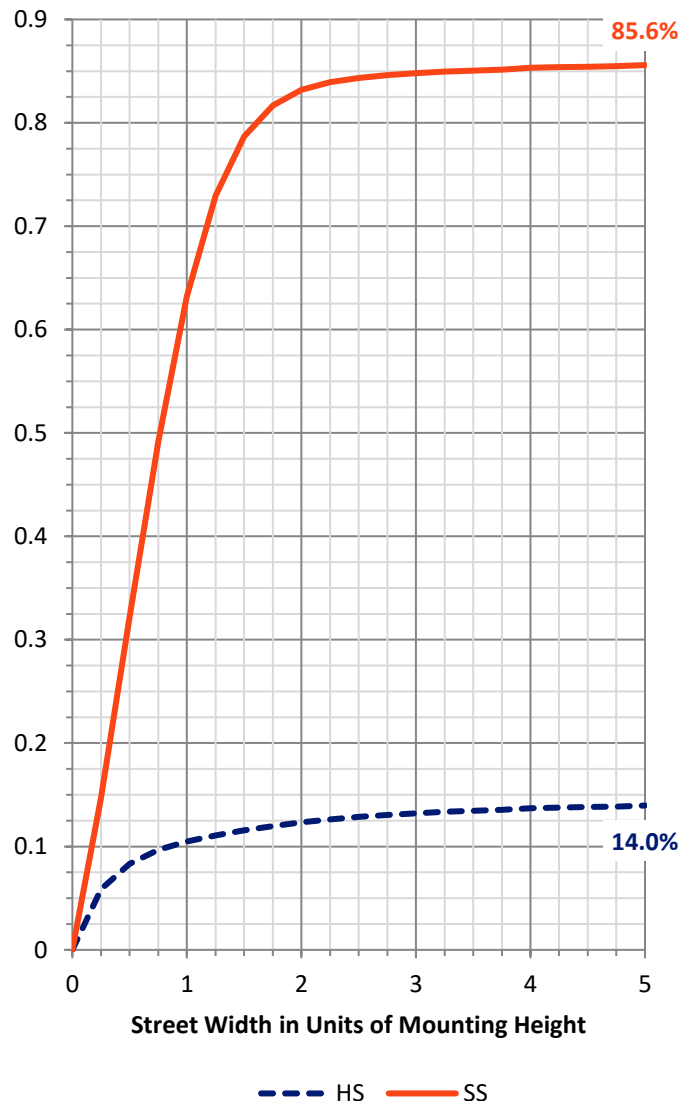
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3806.0	0.0	3806.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22947.3	0.0	22947.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	26753.3	0.0	26753.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	1.2
10°-20°	1189.4	4.4
20°-30°	2211.3	8.3
30°-40°	3505.4	13.1
40°-50°	4848.3	18.1
50°-60°	5963.7	22.3
60°-70°	5549.5	20.7
70°-80°	2784.7	10.4
80°-90°	384.0	1.4
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°	26753.3	100.0
0°-180°	26753.3	100.0

Coefficient of Utilization



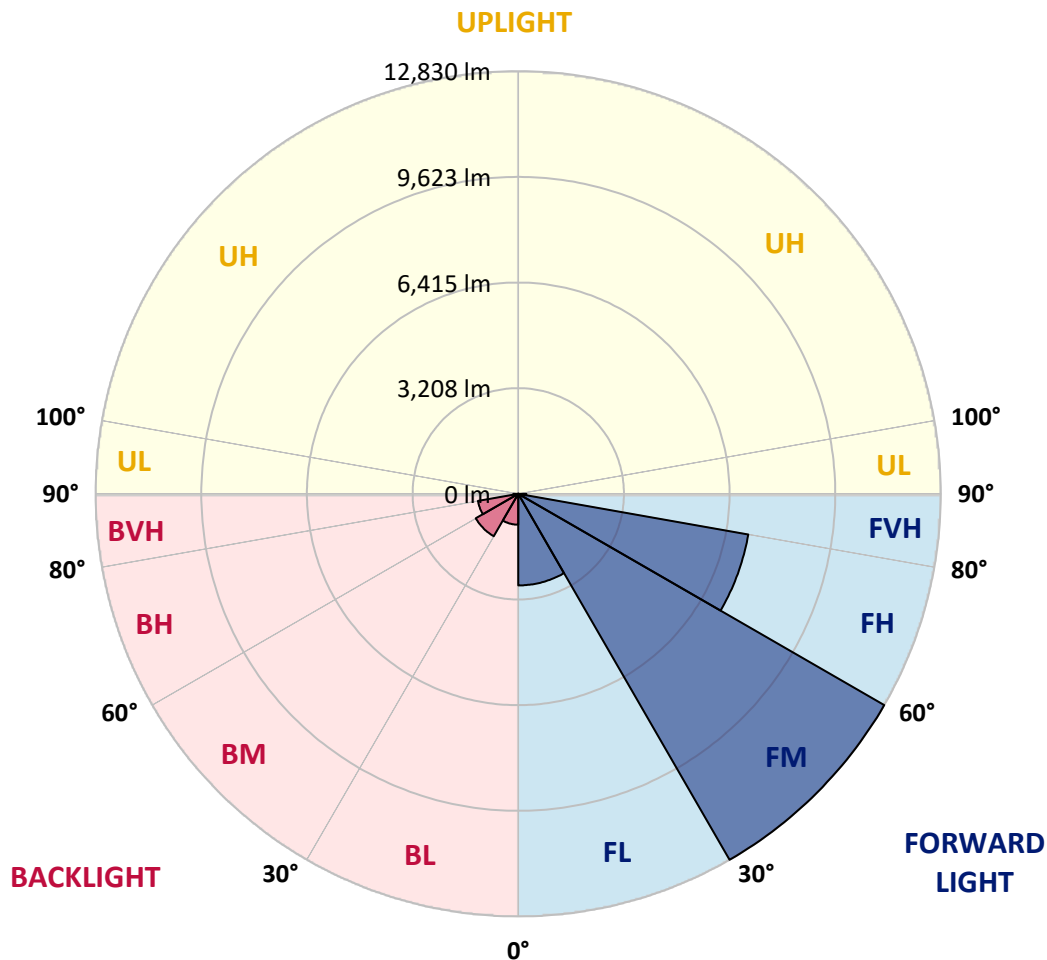
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2780.6	10.4			
FM (30°-60°)	12830.0	48.0			
FH (60°-80°)	7092.1	26.5			G3/7500
FVH (80°-90°)	244.6	0.9			G3/500
BL (0°-30°)	937.3	3.5	B2/1000		
BM (30°-60°)	1487.3	5.6	B2/2500		
BH (60°-80°)	1242.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	139.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8
2.5°	3798.8	3753.0	3707.3	3609.7	3576.2	3484.7	3317.1	3131.1	2978.6	2957.3
5°	4713.4	4646.3	4631.1	4576.2	4402.4	4225.6	3951.2	3652.4	3280.5	3307.9
7.5°	5399.4	5359.7	5277.4	5225.6	5121.9	4887.2	4603.6	4207.3	3734.7	3643.3
10°	5917.7	5862.8	5859.7	5814.0	5759.1	5518.3	5301.8	4768.3	4161.6	4036.6
12.5°	6179.9	6170.7	6332.3	6332.3	6311.0	6210.3	5838.4	5350.6	4567.1	4524.4
15°	6463.4	6387.2	6527.4	6634.1	6689.0	6740.8	6432.9	5917.7	5085.3	5003.0
17.5°	6463.4	6457.3	6597.5	6774.4	7060.9	7128.0	6960.3	6439.0	5515.2	5454.2
20°	6353.6	6442.0	6539.6	6777.4	7088.4	7359.7	7408.5	6972.5	5990.8	5942.1
22.5°	6865.8	6780.5	6881.1	6972.5	7213.4	7625.0	7759.1	7442.0	6490.8	6304.9
25°	7725.6	7667.7	7594.5	7460.3	7560.9	7740.8	7945.1	7789.6	6917.7	6710.3
27.5°	8564.0	8567.0	8408.5	8115.8	7899.4	7935.9	8176.8	8094.5	7277.4	7185.9
30°	9756.1	9682.9	9506.1	9109.7	8685.9	8338.4	8298.7	8378.0	7734.7	7557.9
32.5°	10649.3	10664.6	10414.6	9844.5	9265.2	8981.7	8634.1	8667.6	8024.4	7893.3
35°	11371.9	11353.6	11176.8	10704.2	10018.3	9676.8	9207.3	9015.2	8698.1	8490.8
37.5°	12152.4	12003.0	11716.4	11182.9	10743.9	10271.3	9814.0	9381.1	9146.3	8896.3
40°	12466.4	12466.4	12082.3	11838.4	11317.0	10960.3	10664.6	9862.8	9692.0	9643.3
42.5°	12243.9	12381.1	12222.5	11945.1	11731.7	11280.4	11201.2	10362.8	10365.8	10268.3
45°	12222.5	12033.5	11902.4	11972.5	11871.9	11847.5	12048.7	11054.8	11073.1	11060.9
47.5°	11609.7	11524.3	11719.5	11835.3	11917.6	12295.7	12875.0	11881.1	12012.1	11920.7
50°	11000.0	10984.7	11106.7	11527.4	11884.1	12506.0	13661.5	13155.4	13585.3	13579.2
52.5°	9329.2	9490.8	9969.5	10859.7	11740.8	12792.6	14256.0	14783.5	15603.6	15826.2
55°	7731.7	7646.3	8353.6	9646.3	11115.8	12905.4	14920.7	15762.1	16969.4	17131.0
57.5°	6015.2	6173.8	6731.7	7972.5	9823.1	12347.5	15408.5	16728.6	18512.1	18637.1
60°	4487.8	4509.1	5121.9	6121.9	8103.6	11088.4	15567.0	17719.4	20280.4	20637.1
62.5°	2823.2	2951.2	3417.7	4402.4	6100.6	9326.2	14856.7	18320.1	22134.1	22228.6
65°	1521.3	1603.7	1954.3	2573.2	4262.2	7054.9	12972.5	17960.3	23006.0	23567.0
67°	1125.0	1140.2	1301.8	1643.3	2850.6	5311.0	10817.0	16658.5	23402.3	23810.9
67.5°	1054.9	1076.2	1204.3	1475.6	2527.4	4890.2	10253.0	16195.1	23225.5	23664.5
70°	902.4	908.5	939.0	1015.2	1417.7	2942.1	6981.7	13271.3	21527.4	21948.1
72.5°	801.8	807.9	820.1	835.4	960.4	1701.2	4246.9	10213.4	18710.3	19381.0
75°	704.3	725.6	731.7	719.5	817.1	1106.7	2259.1	7506.1	15262.1	15588.4
77.5°	597.6	606.7	618.9	631.1	728.7	826.2	1085.4	5067.1	10475.6	10277.4
80°	503.0	506.1	515.2	524.4	631.1	631.1	615.9	2737.8	4576.2	4375.0
82.5°	359.8	381.1	402.4	426.8	524.4	423.8	402.4	1219.5	1448.2	1378.0
85°	140.2	170.7	265.2	292.7	332.3	228.7	268.3	527.4	603.7	597.6
87.5°	24.4	27.4	73.2	112.8	122.0	79.3	128.0	189.0	225.6	243.9
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°
2737.8	0°	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8	2737.8
2850.6	2.5°	2762.2	2667.7	2554.9	2442.1	2368.9	2253.0	2243.9	2173.8	2164.6	2140.2
2942.1	5°	2783.5	2670.7	2442.1	2262.2	2179.9	2112.8	2128.0	2097.6	2088.4	2073.2
3146.3	7.5°	2951.2	2728.6	2387.2	2231.7	2170.7	2140.2	2140.2	2103.7	2076.2	2094.5
3396.3	10°	3061.0	2756.1	2429.9	2274.4	2225.6	2158.5	2182.9	2137.2	2152.4	2115.8
3686.0	12.5°	3237.8	2911.6	2518.3	2338.4	2259.1	2198.2	2222.6	2170.7	2158.5	2161.6
3996.9	15°	3475.6	3015.2	2557.9	2375.0	2320.1	2243.9	2225.6	2179.9	2134.1	2118.9
4338.4	17.5°	3698.2	3143.3	2585.4	2396.3	2307.9	2222.6	2201.2	2143.3	2128.0	2082.3
4725.6	20°	3963.4	3295.7	2621.9	2414.6	2262.2	2176.8	2121.9	2064.0	2012.2	1984.7
5076.2	22.5°	4140.2	3375.0	2640.2	2378.0	2195.1	2115.8	2000.0	1960.4	1887.2	1856.7
5414.6	25°	4429.9	3472.5	2594.5	2277.4	2076.2	1948.2	1844.5	1789.6	1737.8	1698.2
5646.3	27.5°	4503.0	3545.7	2487.8	2106.7	1887.2	1753.0	1664.6	1597.6	1564.0	1503.0
5978.6	30°	4716.4	3472.5	2329.3	1899.4	1707.3	1570.1	1481.7	1432.9	1353.7	1338.4
6243.9	32.5°	4853.6	3493.9	2128.0	1698.2	1500.0	1378.0	1320.1	1271.3	1250.0	1176.8
6649.4	35°	5082.3	3420.7	1923.8	1512.2	1329.3	1234.8	1186.0	1170.7	1100.6	1067.1
6996.9	37.5°	5228.6	3378.0	1719.5	1301.8	1143.3	1103.7	1118.9	1054.9	969.5	905.5
7442.0	40°	5484.7	3362.8	1487.8	1128.0	1015.2	1006.1	1054.9	932.9	777.4	722.6
7975.6	42.5°	5853.6	3259.1	1307.9	972.6	914.6	954.3	963.4	777.4	689.0	643.3
8692.0	45°	6207.3	3280.5	1131.1	804.9	795.7	853.7	832.3	658.5	606.7	573.2
9518.3	47.5°	6887.2	3387.2	957.3	670.7	716.5	771.3	646.3	588.4	539.6	515.2
11015.2	50°	7939.0	3490.8	804.9	612.8	676.8	698.2	554.9	533.5	530.5	481.7
12256.1	52.5°	8570.1	3451.2	777.4	686.0	725.6	698.2	603.7	588.4	564.0	542.7
13530.4	55°	9573.1	3567.1	835.4	801.8	823.2	670.7	676.8	670.7	652.4	597.6
15009.1	57.5°	10371.9	3643.3	911.6	896.3	884.1	698.2	707.3	710.4	698.2	673.8
16557.9	60°	11469.5	3795.7	990.8	993.9	996.9	759.1	774.4	792.7	789.6	780.5
18118.8	62.5°	12143.2	3725.6	1079.3	1128.0	1112.8	884.1	881.1	893.3	893.3	908.5
18814.0	65°	12042.6	3466.5	1125.0	1246.9	1167.7	975.6	975.6	981.7	984.8	1015.2
18841.4	67°	11439.0	3003.0	1100.6	1265.2	1167.7	1012.2	1012.2	1018.3	996.9	1076.2
18628.0	67.5°	11158.5	2865.8	1079.3	1250.0	1158.5	1009.1	1009.1	1012.2	993.9	1070.1
17131.0	70°	9704.2	2128.0	929.9	1106.7	1073.2	981.7	981.7	963.4	948.2	1048.8
14780.4	72.5°	8283.5	1545.7	746.9	942.1	969.5	945.1	951.2	905.5	862.8	932.9
11493.9	75°	6344.5	1137.2	582.3	725.6	820.1	884.1	923.8	807.9	753.0	771.3
6216.4	77.5°	3539.6	740.9	460.4	536.6	625.0	823.2	887.2	728.7	615.9	594.5
2100.6	80°	1201.2	432.9	338.4	399.4	429.9	728.7	829.3	591.5	484.8	463.4
710.4	82.5°	454.3	265.2	231.7	274.4	274.4	576.2	676.8	454.3	365.9	472.6
265.2	85°	207.3	158.5	152.4	158.5	158.5	353.7	478.7	295.7	329.3	283.5
97.6	87.5°	82.3	76.2	70.1	67.1	54.9	61.0	164.6	79.3	149.4	39.6
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>
2737.8
2152.4
2048.8
2112.8
2115.8
2152.4
2137.2
2045.7
1996.9
1832.3
1686.0
1490.8
1304.9
1158.5
1036.6
884.1
692.1
621.9
591.5
518.3
478.7
518.3
612.8
695.1
786.6
917.7
1018.3
1051.8
1045.7
1027.4
914.6
737.8
594.5
448.2
481.7
250.0
36.6
0.0

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