

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: P574769

Luminaire Tested: **EPH-VN-03-735-U-T4FT**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574769
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-T4FT
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

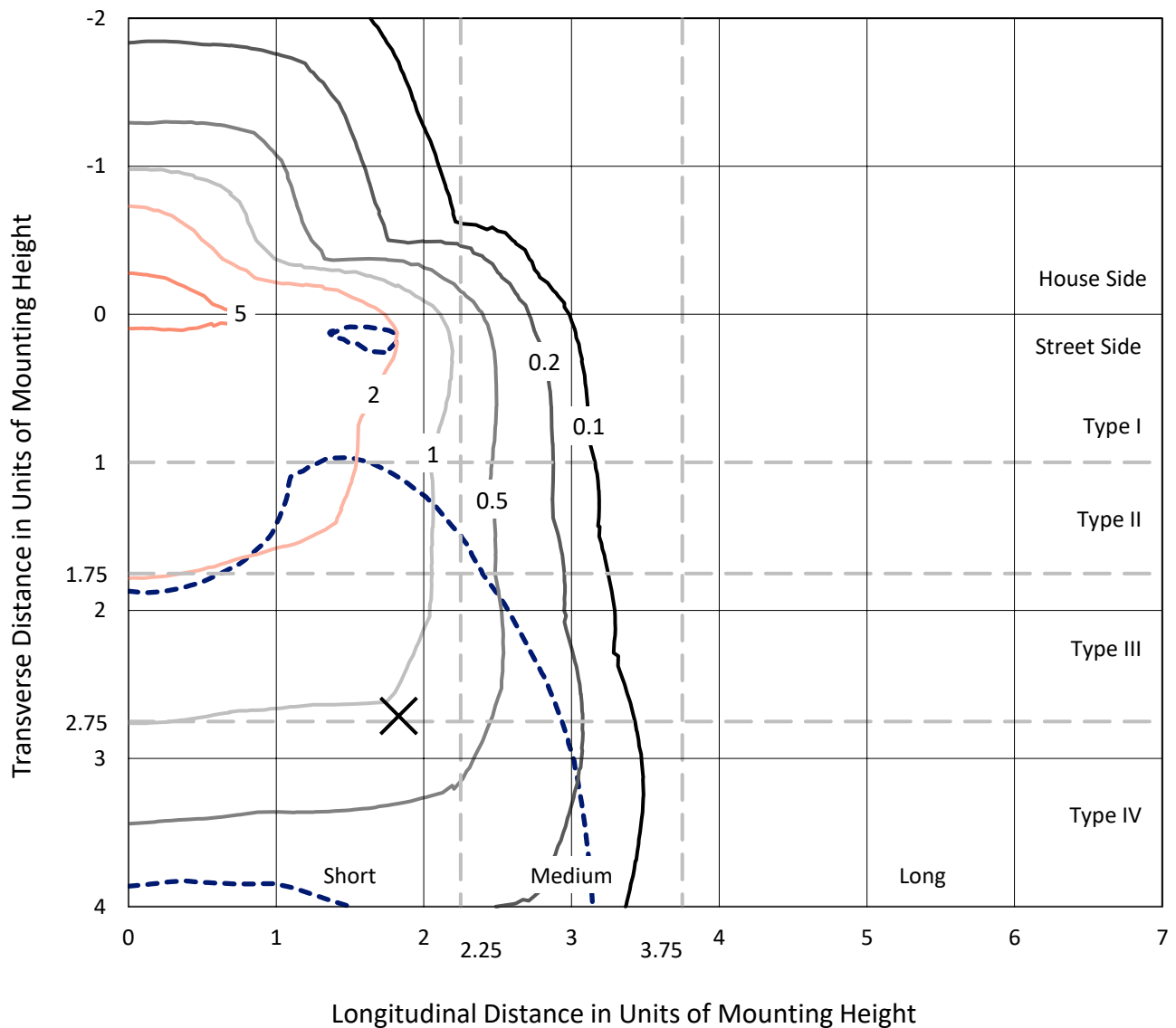
Lumens per Lamp: N/A
Luminaire Lumens: 27255.4 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

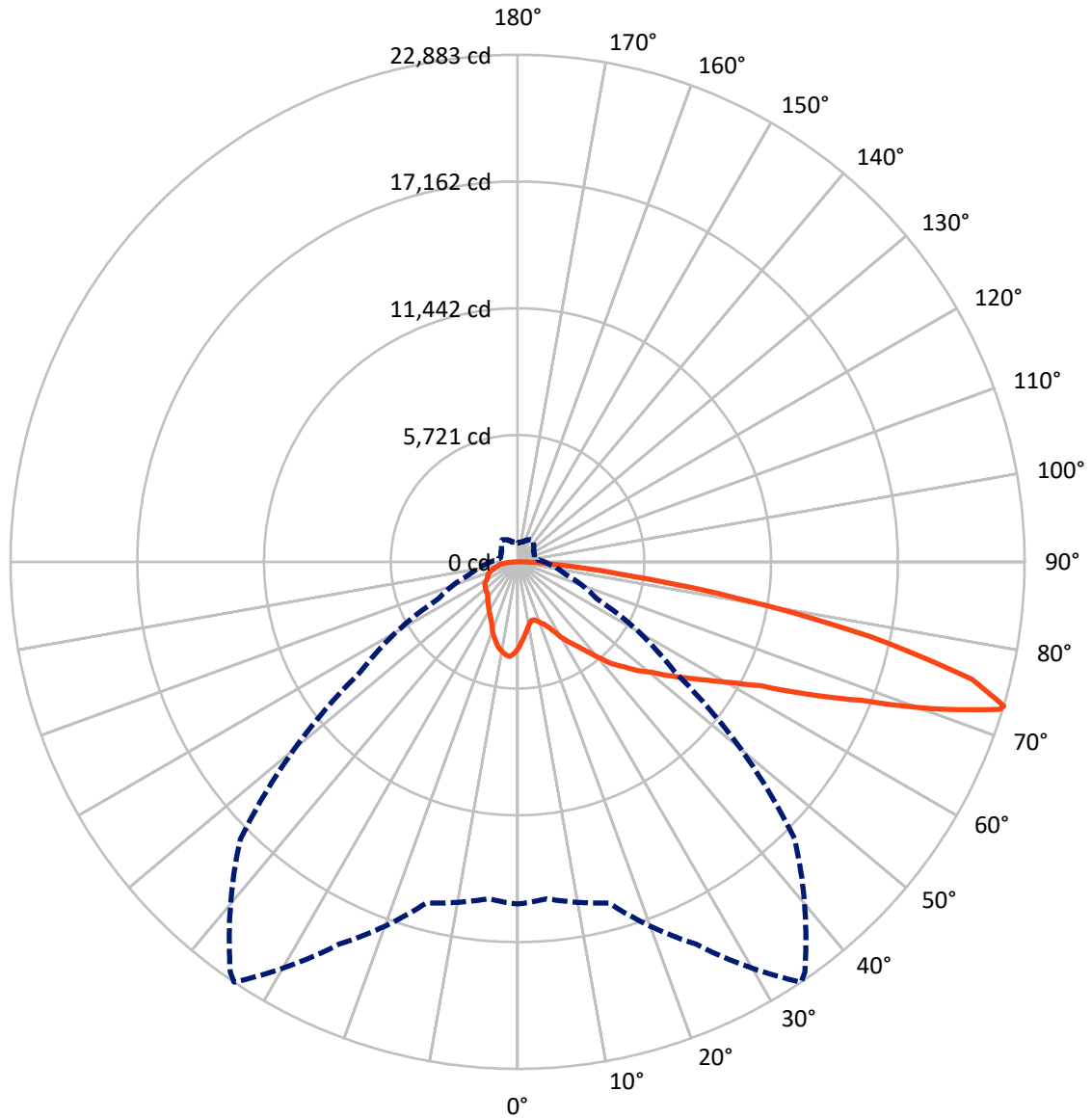
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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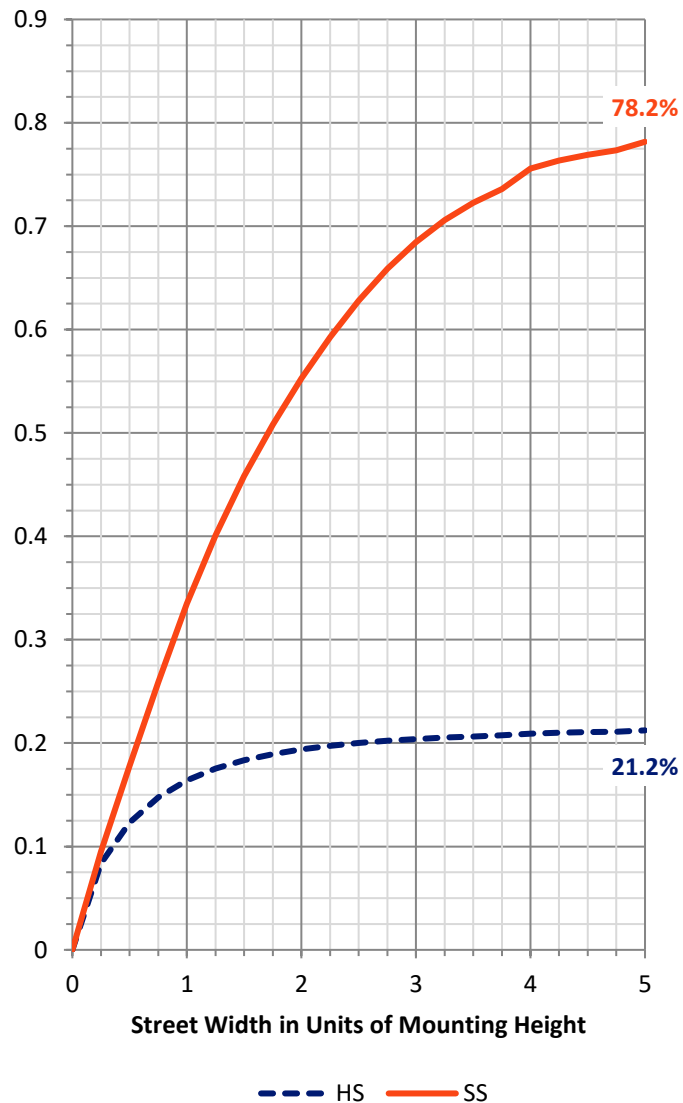
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5887.5	0.0	5887.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21367.9	0.0	21367.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	27255.4	0.0	27255.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.6	1.3
10°-20°	1009.3	3.7
20°-30°	1661.1	6.1
30°-40°	2484.2	9.1
40°-50°	3682.8	13.5
50°-60°	5307.2	19.5
60°-70°	6772.7	24.8
70°-80°	5270.3	19.3
80°-90°	707.0	2.6
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°	27255.4	100.0
0°-180°	27255.4	100.0

Coefficient of Utilization



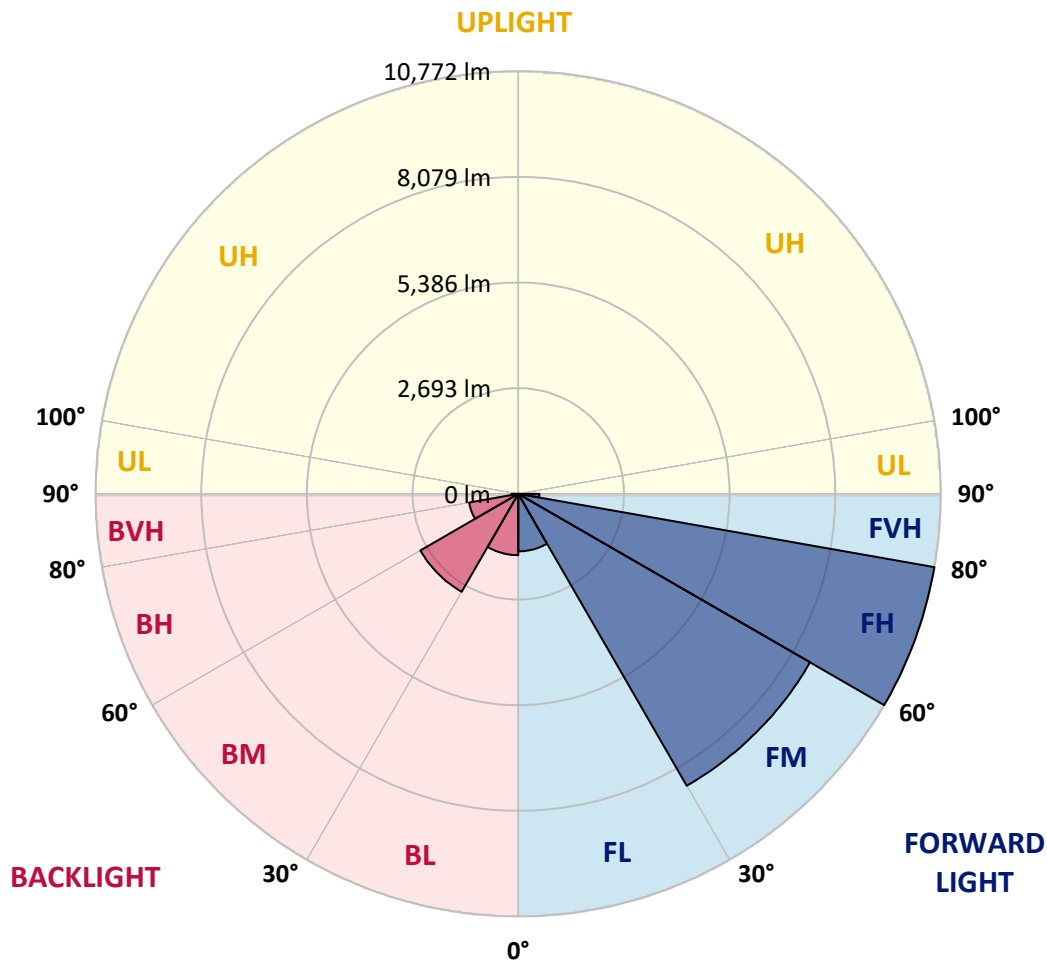
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.8	5.4			
FM (30°-60°)	8591.1	31.5			
FH (60°-80°)	10771.8	39.5			G4/12000
FVH (80°-90°)	538.2	2.0			G4/750
BL (0°-30°)	1564.3	5.7	B3/2500		
BM (30°-60°)	2883.1	10.6	B3/5000		
BH (60°-80°)	1271.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	168.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5
2.5°	3501.2	3512.7	3550.2	3558.8	3599.2	3576.1	3625.1	3711.5	3760.5	3832.6
5°	3224.5	3175.6	3198.6	3287.9	3334.0	3345.6	3397.4	3544.4	3636.6	3743.2
7.5°	2898.9	2890.3	2936.4	2994.0	3086.2	3094.9	3210.1	3339.8	3530.0	3766.3
10°	2677.0	2714.5	2740.4	2800.9	2864.3	2864.3	3011.3	3236.1	3452.2	3679.8
12.5°	2665.5	2642.5	2648.2	2679.9	2726.0	2783.7	2922.0	3123.7	3397.4	3662.5
15°	2703.0	2711.6	2659.7	2700.1	2717.4	2737.5	2890.3	3117.9	3362.9	3723.1
17.5°	2901.8	2852.8	2772.1	2734.7	2795.2	2795.2	2898.9	3077.6	3368.6	3754.8
20°	3057.4	3057.4	2924.9	2884.5	2927.7	2919.1	2991.1	3123.7	3397.4	3818.2
22.5°	3319.6	3357.1	3138.1	3054.5	3051.6	3074.7	3138.1	3250.5	3478.1	3907.5
25°	3697.1	3705.8	3452.2	3365.7	3273.5	3311.0	3322.5	3434.9	3550.2	4011.2
27.5°	4117.8	4112.1	3878.7	3662.5	3602.0	3610.7	3547.3	3622.2	3656.8	4042.9
30°	4584.7	4532.8	4357.0	4051.6	4002.6	3947.8	3809.5	3806.6	3878.7	4221.6
32.5°	4890.1	4823.8	4702.8	4483.8	4348.4	4354.1	4135.1	4132.3	4068.9	4417.5
35°	5189.8	5089.0	5057.3	4832.5	4697.1	4711.5	4535.7	4512.6	4397.4	4714.3
37.5°	5550.0	5460.7	5509.7	5339.7	5172.5	5103.4	5022.7	4993.9	4844.0	5132.2
40°	5947.7	5918.9	5887.2	5803.6	5702.7	5708.5	5622.1	5593.2	5371.4	5636.5
42.5°	6483.7	6374.2	6209.9	6264.7	6316.5	6371.3	6342.5	6267.5	6037.0	6149.4
45°	6982.2	6838.1	6535.5	6552.8	6766.1	6809.3	7158.0	7149.3	6685.4	6800.6
47.5°	7319.3	7253.1	7071.5	7051.3	7356.8	7353.9	7982.1	7982.1	7368.3	7449.0
50°	7820.7	7647.8	7570.0	7670.9	7826.5	7933.1	8823.5	8878.3	8039.7	8126.2
52.5°	8408.6	8192.5	7996.5	8255.9	8532.5	8601.7	9656.3	9633.3	8555.6	8912.9
55°	8895.6	8786.1	8650.6	8800.5	9252.9	9339.4	10492.0	10278.8	9071.4	9564.1
57.5°	9463.3	9529.5	9558.4	9520.9	10059.8	10195.2	11445.8	10834.9	9515.1	10002.1
60°	10319.1	10359.4	10396.9	10486.2	11056.8	11247.0	12200.8	11532.3	9794.7	10255.7
62.5°	11621.6	11466.0	11549.6	11857.9	12316.1	12532.2	13313.1	12022.1	10007.9	10408.4
65°	13111.4	12901.0	12814.6	13212.3	14399.5	14226.6	14702.1	12388.1	9699.6	9837.9
67.5°	14621.4	14644.4	14422.5	15220.8	16676.0	16676.0	15993.0	12563.9	8863.9	7973.5
70°	15820.1	15892.2	16013.2	17560.6	19865.9	20214.6	17592.3	11843.5	7160.8	5308.0
72.5°	15802.8	15586.7	16206.3	19056.2	22764.9	22473.8	17926.6	9365.3	4469.4	2599.2
73°	15448.4	15266.9	15944.0	19041.8	22883.0	22609.2	17681.7	8633.4	3942.1	2253.4
75°	12615.8	12287.3	13439.9	17246.5	21171.3	21381.7	15021.9	5630.7	2161.2	1388.9
77.5°	5751.7	5895.8	7397.1	11569.7	16315.8	16563.6	9875.3	2435.0	1184.3	974.0
80°	1847.1	1939.3	2878.7	5751.7	10226.9	10673.5	4564.5	1106.5	844.3	746.3
82.5°	706.0	703.1	1207.4	2391.8	4846.9	5132.2	1668.5	674.3	628.2	550.4
85°	247.8	259.3	455.3	945.2	1907.6	1997.0	579.2	374.6	435.1	368.8
87.5°	86.4	89.3	161.4	342.9	657.0	694.5	161.4	149.8	216.1	213.2
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°
3907.5	0°	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5	3907.5
3919.0	2.5°	3947.8	3973.8	3982.4	4086.1	4086.1	4086.1	4126.5	4126.5	4115.0	4086.1
3904.6	5°	3965.1	4011.2	4100.6	4189.9	4212.9	4233.1	4287.9	4241.8	4259.0	4230.2
3956.5	7.5°	4014.1	4077.5	4244.6	4299.4	4261.9	4305.2	4247.5	4215.8	4184.1	4195.6
3968.0	10°	4097.7	4178.4	4256.2	4357.0	4285.0	4241.8	4123.6	4094.8	3993.9	3959.4
4017.0	12.5°	4201.4	4299.4	4431.9	4394.5	4256.2	4132.3	4005.5	3884.4	3823.9	3737.5
4100.6	15°	4305.2	4417.5	4437.7	4374.3	4201.4	4045.8	3815.3	3645.3	3584.7	3506.9
4221.6	17.5°	4417.5	4524.2	4489.6	4325.3	4091.9	3855.6	3593.4	3426.3	3299.5	3250.5
4357.0	20°	4584.7	4636.5	4581.8	4244.6	3959.4	3648.1	3394.6	3204.4	3077.6	3057.4
4486.7	22.5°	4714.3	4797.9	4553.0	4126.5	3766.3	3377.3	3086.2	3014.2	2976.7	2945.0
4633.7	25°	4881.5	4878.6	4501.1	4017.0	3434.9	3054.5	2878.7	2873.0	2855.7	2844.2
4844.0	27.5°	5040.0	4973.7	4440.6	3746.1	3092.0	2809.6	2714.5	2777.9	2803.8	2786.5
5135.1	30°	5290.7	5181.2	4354.1	3458.0	2789.4	2561.8	2579.1	2665.5	2708.7	2734.7
5388.6	32.5°	5555.8	5388.6	4175.5	3158.3	2521.4	2406.2	2446.5	2535.8	2587.7	2616.5
5806.5	35°	5939.0	5550.0	3993.9	2766.4	2328.4	2311.1	2334.1	2383.1	2458.0	2478.2
6377.0	37.5°	6411.6	5795.0	3749.0	2452.3	2178.5	2198.7	2221.7	2239.0	2241.9	2279.4
6924.5	40°	6884.2	6002.4	3391.7	2152.6	2022.9	2132.4	2120.9	2089.2	2063.2	2028.7
7535.5	42.5°	7299.2	6184.0	2994.0	1899.0	1884.6	2063.2	2025.8	1945.1	1884.6	1858.6
8229.9	45°	7766.0	6440.4	2593.5	1740.5	1778.0	1979.7	1968.2	1844.2	1766.4	1674.2
8976.3	47.5°	8371.1	6708.4	2210.2	1576.2	1677.1	1948.0	1953.7	1795.3	1682.9	1559.0
9953.1	50°	9146.3	7094.6	1919.2	1507.1	1616.6	1901.9	1910.5	1729.0	1582.0	1455.2
11097.1	52.5°	9889.7	7489.3	1677.1	1400.5	1576.2	1847.1	1867.3	1668.5	1498.4	1340.0
11647.5	55°	10264.4	7345.3	1469.6	1322.7	1484.0	1757.8	1832.7	1625.2	1371.7	1262.2
11970.3	57.5°	10347.9	6990.8	1305.4	1242.0	1406.2	1662.7	1775.1	1495.6	1314.0	1221.8
11996.2	60°	10074.2	6371.3	1175.7	1155.5	1308.3	1564.7	1642.5	1426.4	1256.4	1181.5
11149.0	62.5°	9399.9	5728.7	1086.4	1115.2	1224.7	1458.1	1559.0	1377.4	1201.6	1149.8
9454.6	65°	7708.4	4711.5	1014.3	1037.4	1138.2	1354.4	1507.1	1322.7	1152.7	1103.7
6630.6	67.5°	5339.7	3247.6	956.7	999.9	1069.1	1279.4	1455.2	1262.2	1089.3	1072.0
3625.1	70°	2734.7	1731.9	881.8	916.4	994.2	1184.3	1363.0	1198.8	1023.0	1020.1
1662.7	72.5°	1386.1	1014.3	795.3	847.2	901.9	1060.4	1247.7	1115.2	939.4	907.7
1478.3	73°	1198.8	939.4	780.9	827.0	878.9	1025.9	1213.2	1095.0	927.9	881.8
1040.3	75°	873.1	740.6	700.2	746.3	786.7	925.0	1097.9	1002.8	853.0	804.0
766.5	77.5°	654.1	570.6	582.1	634.0	668.5	798.2	976.9	907.7	772.3	706.0
573.4	80°	481.2	435.1	481.2	530.2	556.2	703.1	890.4	786.7	651.2	576.3
406.3	82.5°	342.9	317.0	371.7	403.4	415.0	582.1	801.1	628.2	492.8	394.8
233.4	85°	196.0	193.1	250.7	247.8	256.5	340.0	527.3	417.8	317.0	242.1
118.1	87.5°	86.4	95.1	126.8	100.9	106.6	161.4	224.8	155.6	129.7	72.0
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>
3907.5
4155.3
4256.2
4155.3
3991.1
3760.5
3547.3
3250.5
3025.7
2904.7
2898.9
2809.6
2700.1
2648.2
2486.8
2265.0
2020.0
1815.4
1662.7
1541.7
1443.7
1348.6
1259.3
1210.3
1164.2
1112.3
1100.8
1048.9
991.3
861.6
838.6
763.6
688.7
561.9
363.1
236.3
54.8
0.0

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