

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: P574723

Luminaire Tested: **EPH-VN-03-730-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574723
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-730-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

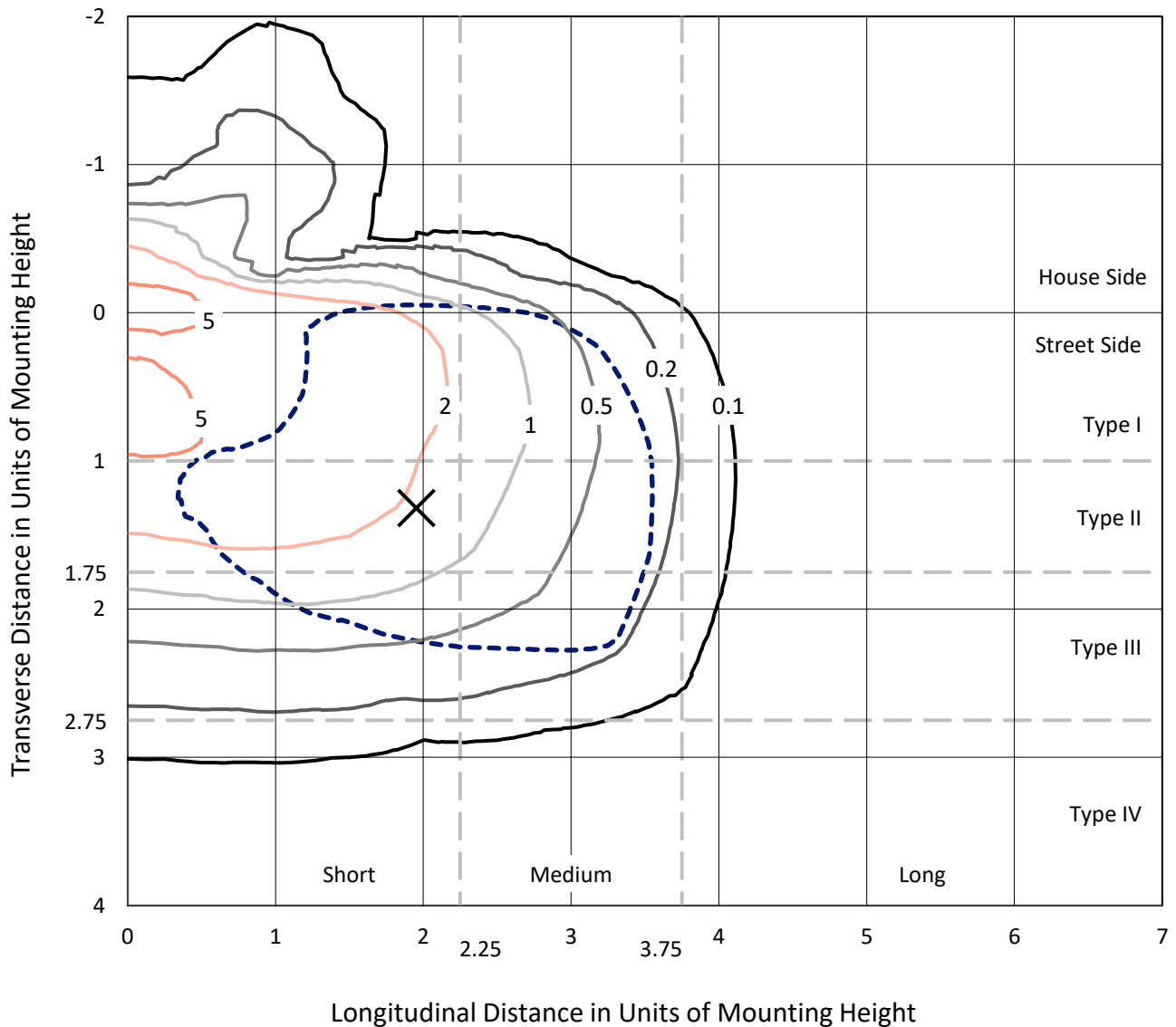
Lumens per Lamp: N/A
Luminaire Lumens: 24127.1 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

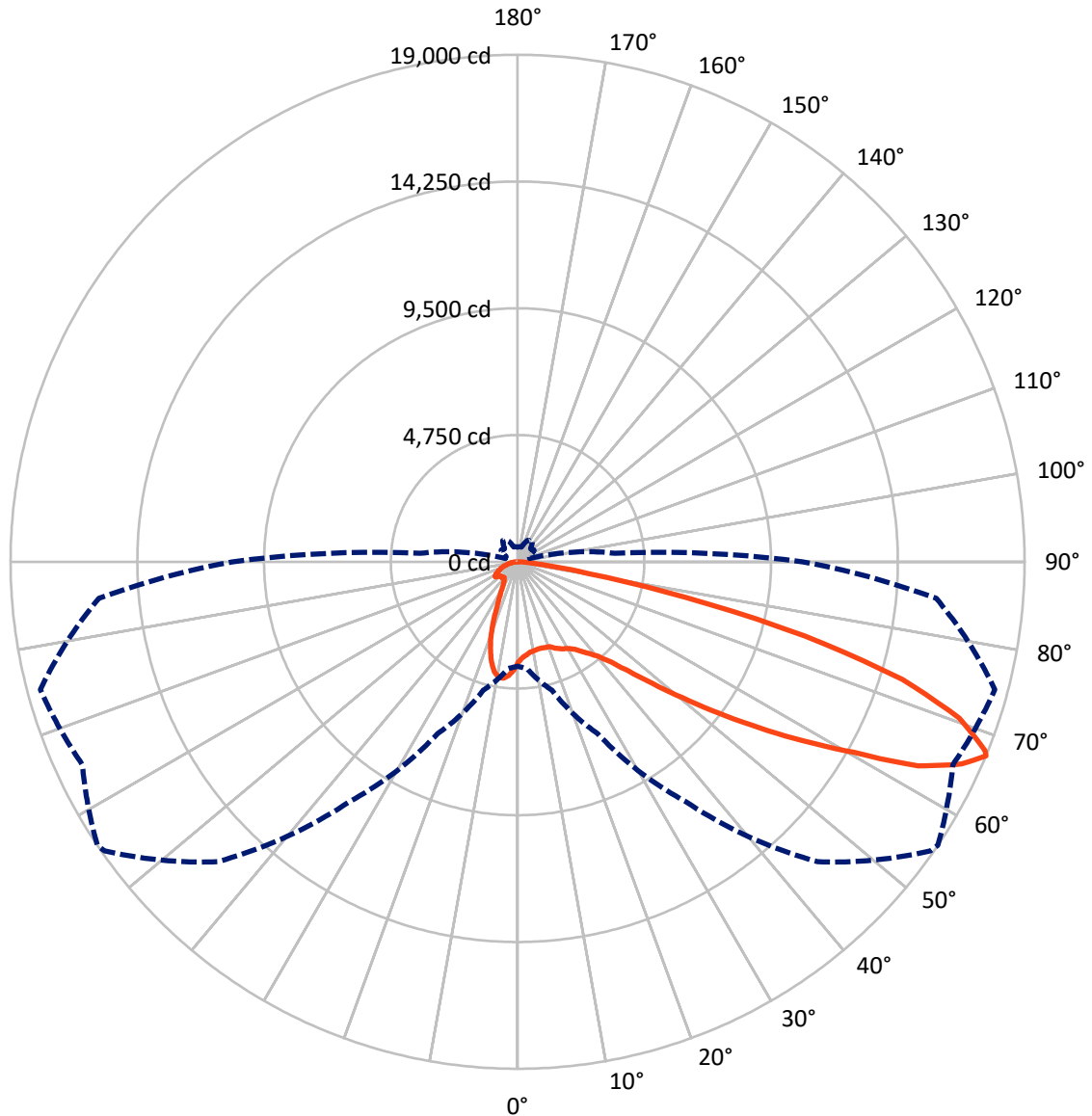
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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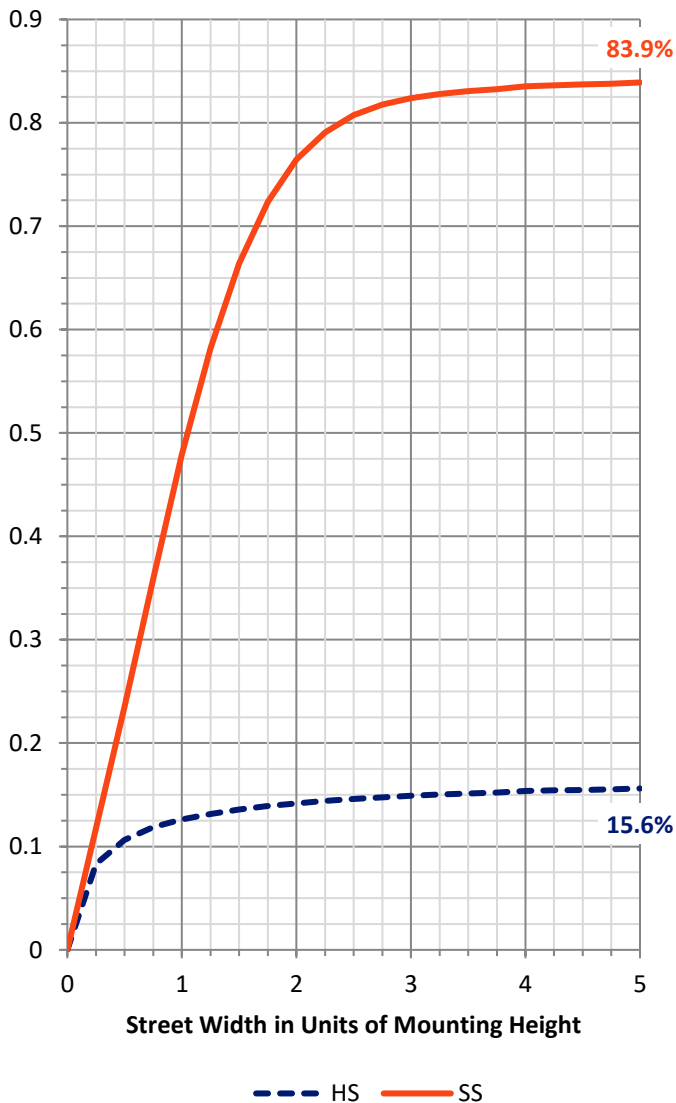
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3819.6	0.0	3819.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	20307.5	0.0	20307.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	24127.1	0.0	24127.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.7	1.5
10°-20°	986.7	4.1
20°-30°	1547.4	6.4
30°-40°	2208.9	9.2
40°-50°	3333.9	13.8
50°-60°	5306.9	22.0
60°-70°	6784.5	28.1
70°-80°	3307.9	13.7
80°-90°	289.4	1.2
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°	24127.1	100.0
0°-180°	24127.1	100.0

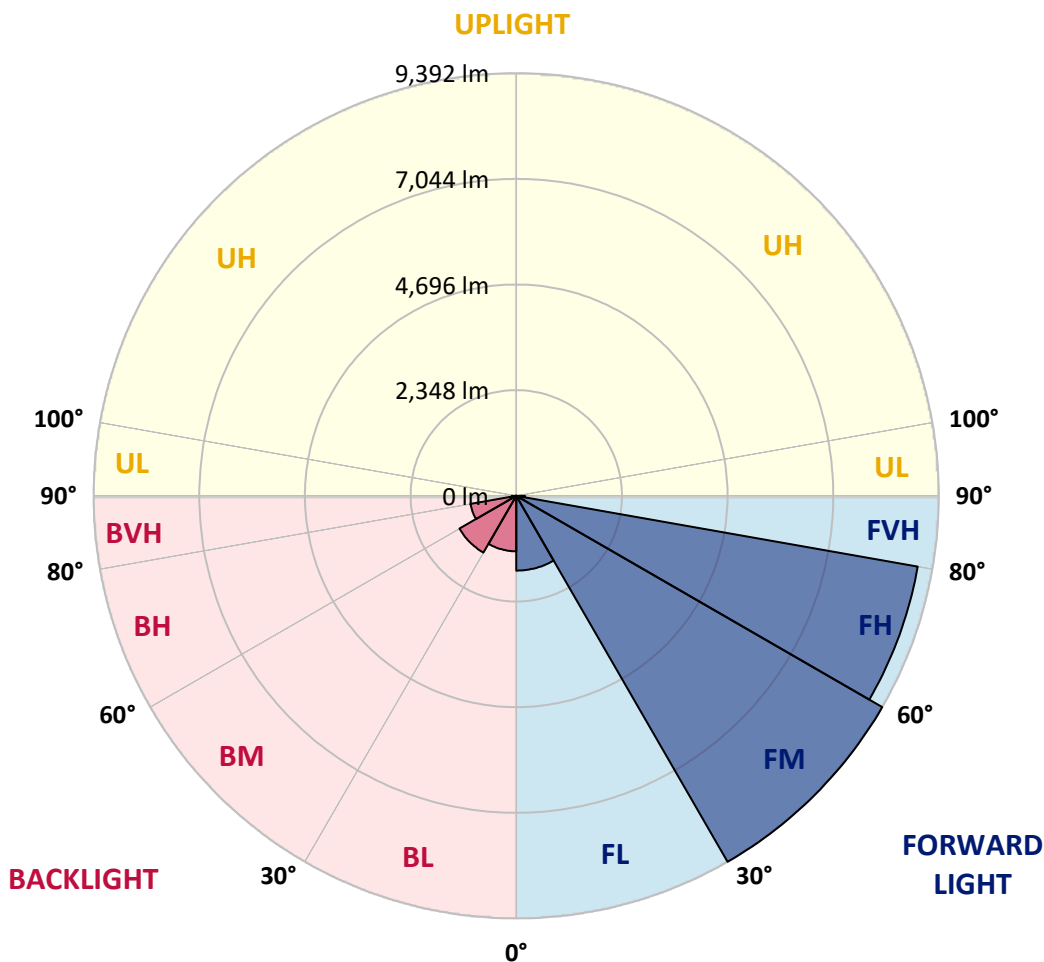


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.6	6.9			
FM (30°-60°)	9392.5	38.9			
FH (60°-80°)	9060.3	37.6			G4/12000
FVH (80°-90°)	192.2	0.8			G2/225
BL (0°-30°)	1233.1	5.1	B3/2500		
BM (30°-60°)	1457.2	6.0	B2/2500		
BH (60°-80°)	1032.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	97.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1
2.5°	3448.6	3434.4	3451.4	3434.4	3510.8	3556.1	3570.2	3590.0	3660.8	3728.7
5°	3304.3	3242.1	3310.0	3332.6	3338.2	3414.6	3493.8	3508.0	3544.8	3655.1
7.5°	3063.8	3134.6	3109.1	3177.0	3247.7	3324.1	3454.2	3417.5	3553.3	3657.9
10°	3012.9	3018.6	3046.9	3072.3	3134.6	3233.6	3414.6	3392.0	3530.6	3754.1
12.5°	3063.8	3063.8	3055.3	3035.5	3106.3	3202.5	3346.7	3358.1	3575.9	3782.4
15°	3242.1	3276.0	3185.5	3199.6	3171.3	3202.5	3329.8	3355.2	3592.9	3805.0
17.5°	3677.7	3666.4	3558.9	3409.0	3284.5	3264.7	3352.4	3380.7	3575.9	3870.1
20°	4102.1	4079.5	3892.7	3737.1	3491.0	3375.0	3389.2	3392.0	3604.2	3912.5
22.5°	4574.5	4633.9	4430.3	4113.4	3807.9	3519.3	3462.7	3508.0	3669.2	3935.2
25°	5315.7	5188.4	5013.0	4597.2	4104.9	3742.8	3584.4	3607.0	3731.5	3991.8
27.5°	5850.4	5799.5	5525.1	5188.4	4520.8	3918.2	3649.4	3691.9	3844.6	3988.9
30°	6365.3	6365.3	6198.4	5694.8	4959.3	4212.4	3788.1	3768.3	3790.9	3983.3
32.5°	6967.9	6885.8	6645.4	6311.6	5510.9	4481.2	3898.4	3904.1	3904.1	4087.9
35°	7284.7	7417.7	7256.4	6713.3	5932.5	4928.2	4164.3	4121.9	4090.8	4203.9
37.5°	7748.7	7827.9	7658.2	7338.5	6455.8	5290.3	4399.1	4365.2	4184.1	4294.5
40°	8028.8	8014.6	8009.0	7861.9	7148.9	5717.5	4744.3	4656.6	4413.3	4614.1
42.5°	8187.2	8158.9	8506.9	8416.3	7802.4	6345.5	5177.1	5129.0	4860.3	5182.8
45°	8365.4	8574.8	8860.5	9115.1	8563.5	7228.2	5909.8	5841.9	5601.5	6011.7
47.5°	8521.0	8778.5	9143.4	9415.0	9250.9	8187.2	6815.1	6832.1	6673.7	7095.2
50°	8781.3	8806.7	9301.8	9850.7	9978.0	9072.7	8031.6	8003.3	7932.6	8523.8
52.5°	8702.1	8778.5	9403.7	10105.3	10314.6	10009.1	9338.6	9423.5	9330.1	10074.2
55°	7412.0	7641.2	9341.4	10374.0	11112.4	11067.1	11019.0	10962.5	10956.8	11816.8
57.5°	6826.4	7013.1	8229.6	10671.1	11966.8	12300.6	12611.8	12674.0	12671.2	13709.4
60°	6441.7	6634.1	7779.8	10509.8	12693.8	13916.0	14512.9	14521.4	14504.4	15732.2
62.5°	5689.2	5875.9	7001.8	9627.2	12894.7	15406.9	16736.5	16846.8	16068.9	17474.9
65°	4783.9	4936.6	5929.6	8277.7	12360.0	16354.6	18408.5	18278.3	17387.2	18470.7
67°	3912.5	4014.4	4981.9	7106.5	10962.5	15899.1	18892.2	18999.7	17995.4	18513.1
67.5°	3663.6	3756.9	4670.7	6707.6	10430.6	15554.0	18909.2	18892.2	18006.7	18521.6
70°	2543.3	2582.9	3182.7	4614.1	7683.6	13140.8	17528.6	17568.2	17251.4	17517.3
72.5°	1686.1	1745.5	2127.4	2908.2	4529.3	9562.1	14651.5	15075.9	14875.0	14363.0
75°	1086.3	1120.3	1391.9	1731.4	2229.3	5445.9	10823.8	11106.7	10645.6	8883.1
77.5°	608.2	645.0	840.2	1052.4	1086.3	2266.0	6079.6	6430.4	5448.7	3773.9
80°	379.1	427.2	633.7	625.2	517.7	831.7	2506.5	2684.7	2178.3	1298.5
82.5°	285.7	322.5	489.4	438.5	291.4	370.6	939.2	1007.1	797.8	500.7
85°	195.2	246.1	353.6	271.6	152.8	178.2	373.4	401.7	364.9	243.3
87.5°	70.7	104.7	183.9	135.8	67.9	53.8	121.6	135.8	130.1	110.3
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°
3754.1	0°	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1	3754.1
3788.1	2.5°	3841.8	3881.4	3901.2	4017.2	4065.3	4056.8	4068.1	4085.1	4102.1	4124.7
3836.2	5°	3872.9	3994.6	4059.6	4195.4	4286.0	4246.4	4297.3	4283.1	4263.3	4260.5
3923.9	7.5°	3974.8	4130.4	4325.6	4362.4	4402.0	4302.9	4218.1	4102.1	4073.8	3974.8
3997.4	10°	4155.8	4283.1	4520.8	4534.9	4359.5	4104.9	3915.4	3674.9	3672.1	3527.8
4110.6	12.5°	4328.4	4472.7	4665.1	4583.0	4164.3	3816.4	3508.0	3244.9	3134.6	3061.0
4178.5	15°	4435.9	4673.5	4775.4	4421.8	3822.0	3352.4	2953.5	2670.6	2557.4	2503.7
4263.3	17.5°	4534.9	4865.9	4820.7	4138.9	3400.5	2874.3	2399.0	2152.9	2121.8	2082.2
4399.1	20°	4670.7	4936.6	4659.4	3771.1	2922.4	2257.6	1954.9	1836.0	1864.3	1881.3
4413.3	22.5°	4798.0	4973.4	4455.7	3369.4	2308.5	1787.9	1638.0	1663.5	1705.9	1762.5
4447.2	25°	4854.6	5032.8	4181.3	2814.9	1756.8	1505.0	1471.1	1513.5	1584.3	1587.1
4495.3	27.5°	4891.4	4990.4	3850.3	2274.5	1389.1	1315.5	1366.4	1397.5	1406.0	1440.0
4597.2	30°	4956.4	4902.7	3431.6	1626.7	1165.6	1168.4	1233.5	1233.5	1233.5	1258.9
4699.0	32.5°	5069.6	4843.3	2942.2	1188.2	1004.3	1094.8	1077.9	1072.2	1060.9	1029.8
4829.1	35°	5140.3	4682.0	2322.6	879.8	902.5	1004.3	998.6	910.9	763.8	690.3
5160.1	37.5°	5287.4	4600.0	1708.7	679.0	843.0	959.0	927.9	715.7	554.5	483.8
5570.3	40°	5604.3	4546.2	1182.5	594.1	803.4	936.4	828.9	611.1	424.4	299.9
6204.0	42.5°	5991.9	4549.1	803.4	560.1	806.3	984.5	797.8	523.4	299.9	240.5
7049.9	45°	6512.4	4506.6	551.7	560.1	857.2	1063.7	817.6	475.3	291.4	305.5
8110.8	47.5°	7072.6	4543.4	410.2	509.2	865.7	1066.5	746.9	466.8	280.1	353.6
9265.1	50°	7726.1	4580.2	339.5	469.6	868.5	1032.6	687.5	455.5	291.4	373.4
10589.0	52.5°	8399.4	4696.2	288.6	444.2	902.5	1018.4	687.5	472.4	291.4	325.3
12275.1	55°	9403.7	4993.2	415.9	554.5	1026.9	1111.8	845.9	662.0	407.4	418.7
13890.5	57.5°	10512.7	5298.8	464.0	582.8	1055.2	1001.5	910.9	729.9	430.0	432.8
15146.6	60°	11242.5	5310.1	461.1	568.6	987.3	865.7	891.1	769.5	438.5	370.6
15924.6	62.5°	11533.9	4964.9	480.9	568.6	919.4	809.1	913.8	828.9	452.6	464.0
16145.2	65°	11202.9	4252.0	464.0	509.2	809.1	724.2	919.4	840.2	495.1	466.8
15749.2	67°	10685.2	3663.6	472.4	483.8	752.5	687.5	967.5	882.7	574.3	560.1
15542.7	67.5°	10538.1	3508.0	469.6	469.6	732.7	676.1	978.8	882.7	585.6	579.9
13717.9	70°	9287.7	2843.2	480.9	464.0	647.8	642.2	1041.1	930.7	673.3	679.0
10077.0	72.5°	7069.7	2155.7	478.1	464.0	563.0	613.9	1049.6	961.9	732.7	679.0
5643.9	75°	4017.2	1290.0	421.5	404.6	444.2	534.7	981.7	916.6	712.9	608.2
2254.7	77.5°	1660.6	664.8	387.6	364.9	367.8	435.7	817.6	854.4	679.0	517.7
752.5	80°	619.6	398.9	311.2	291.4	282.9	319.7	582.8	681.8	579.9	424.4
331.0	82.5°	322.5	249.0	212.2	212.2	192.4	203.7	314.0	452.6	438.5	291.4
133.0	85°	164.1	141.5	121.6	118.8	107.5	96.2	158.4	268.8	251.8	161.3
59.4	87.5°	87.7	79.2	50.9	48.1	39.6	25.5	28.3	53.8	87.7	70.7
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>
3754.1
4147.3
4286.0
4008.7
3522.1
3044.0
2492.4
2102.0
1861.5
1731.4
1615.4
1471.1
1287.2
1012.8
724.2
480.9
291.4
234.8
311.2
393.2
432.8
333.8
441.3
418.7
381.9
469.6
458.3
551.7
568.6
628.0
602.6
543.2
489.4
387.6
229.2
133.0
50.9
0.0

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