

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: P574964

Luminaire Tested: **EPH-VN-04-730-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574964
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-730-U-SL2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

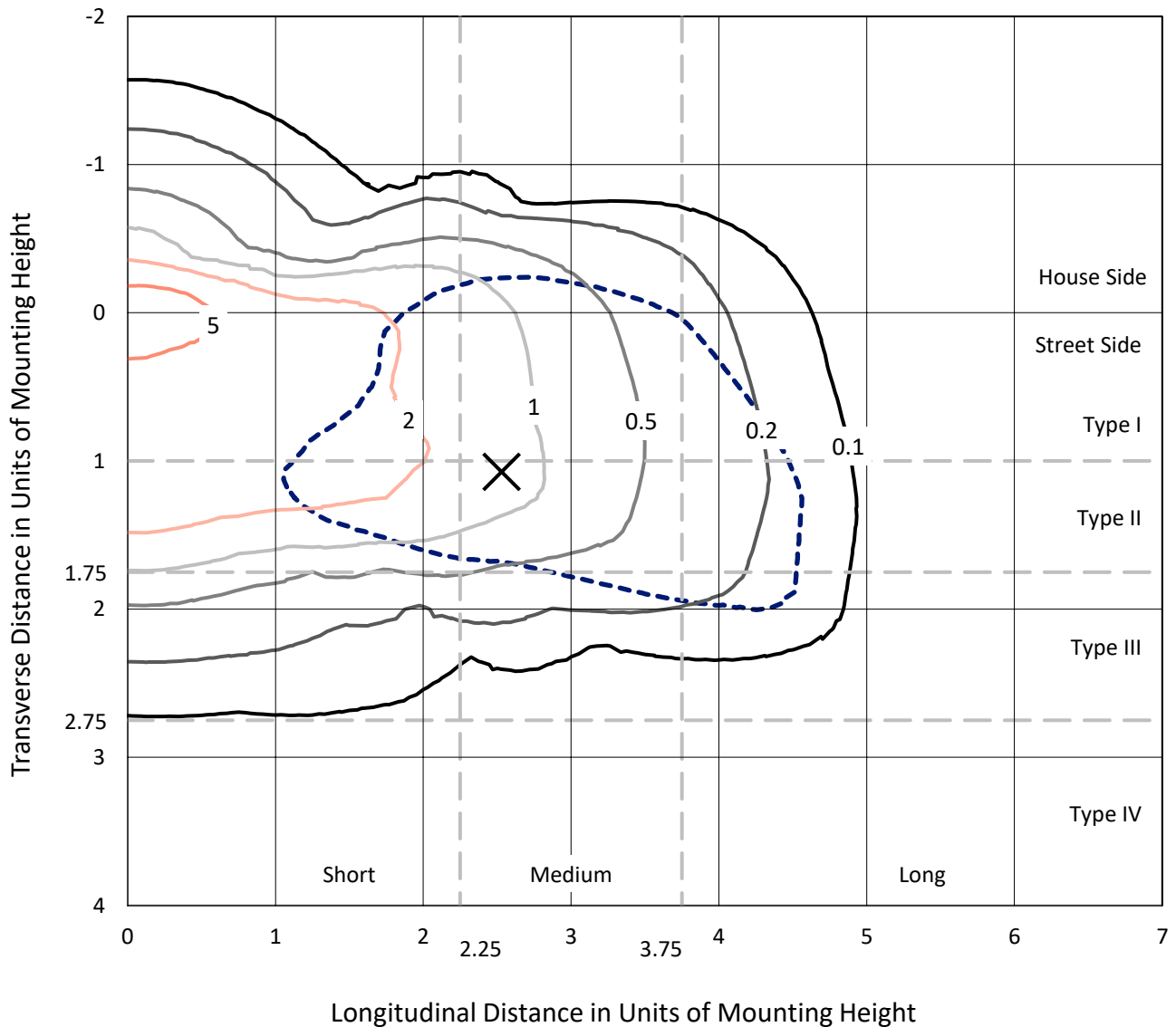
Lumens per Lamp: N/A
Luminaire Lumens: 31754.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 303.8
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

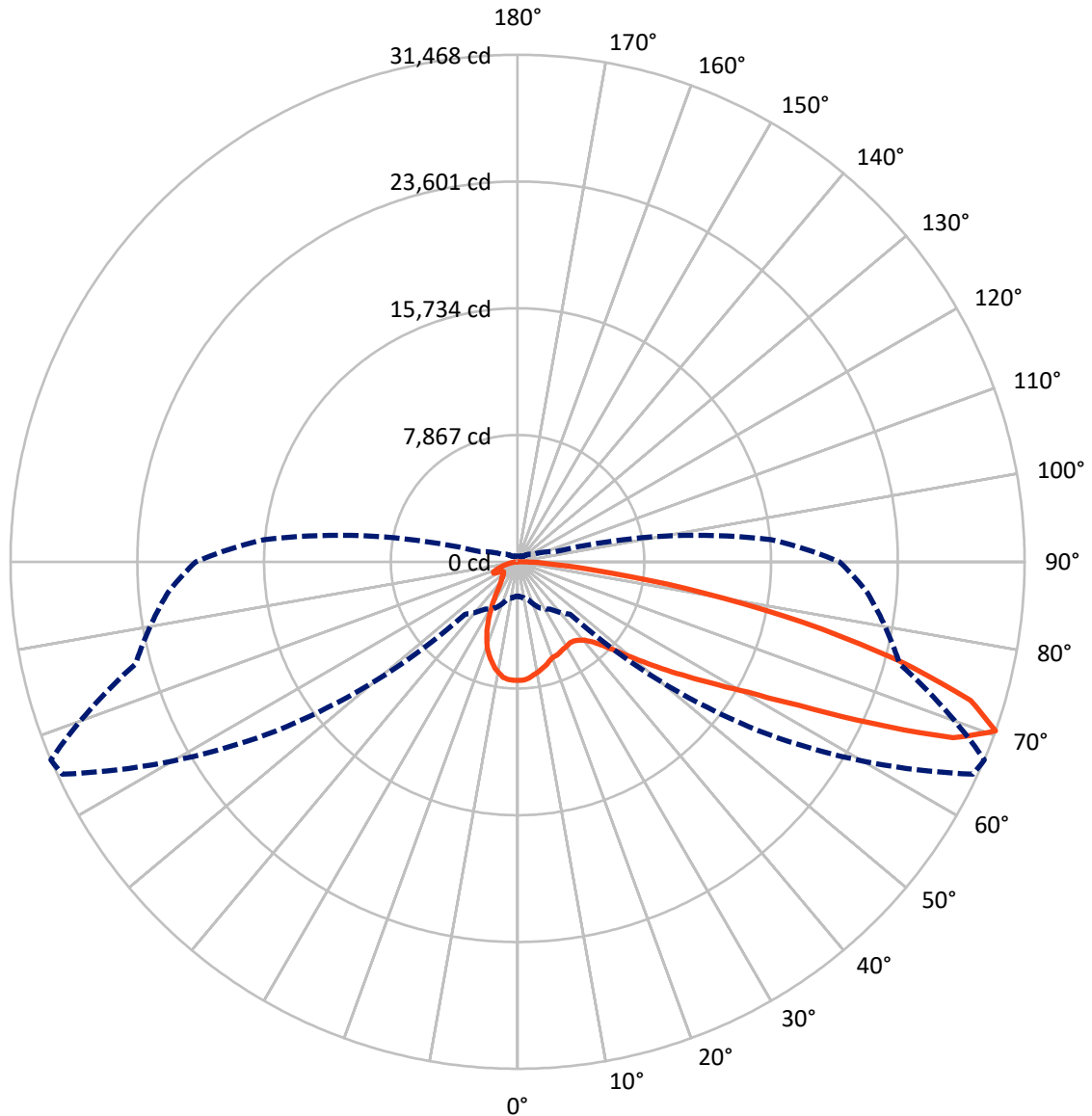
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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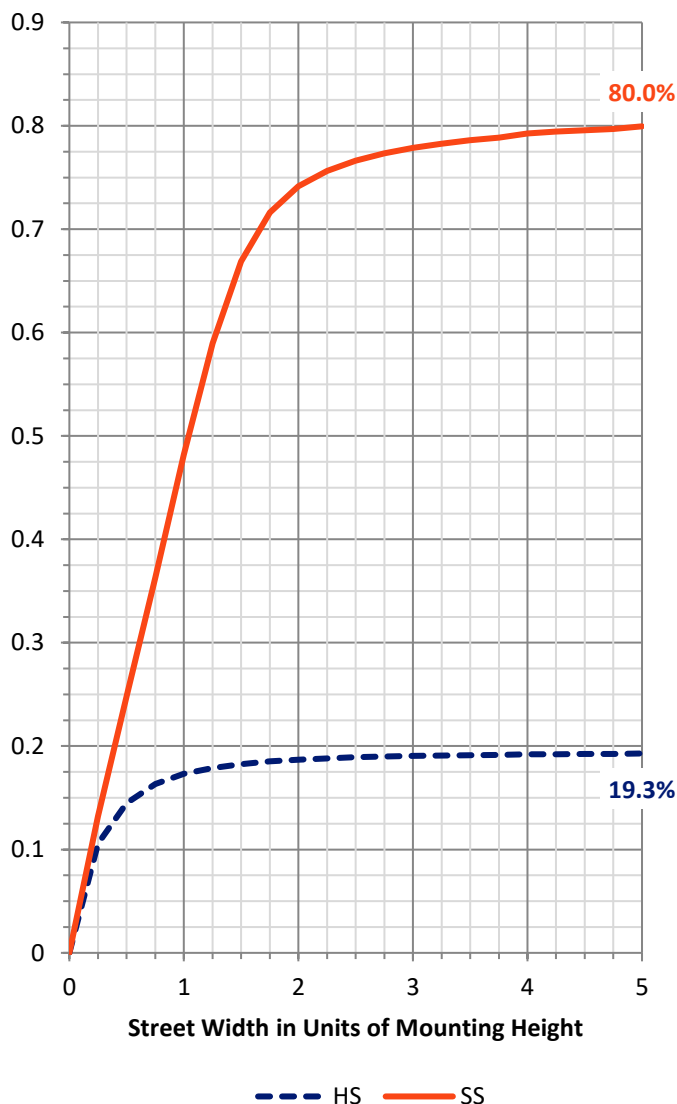
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6184.4	0.0	6184.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25569.8	0.0	25569.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	31754.2	0.0	31754.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.4	2.0
10°-20°	1536.1	4.8
20°-30°	2074.4	6.5
30°-40°	2775.7	8.7
40°-50°	4081.7	12.9
50°-60°	6362.3	20.0
60°-70°	7837.3	24.7
70°-80°	5537.7	17.4
80°-90°	907.7	2.9
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°	31754.2	100.0
0°-180°	31754.2	100.0

Coefficient of Utilization

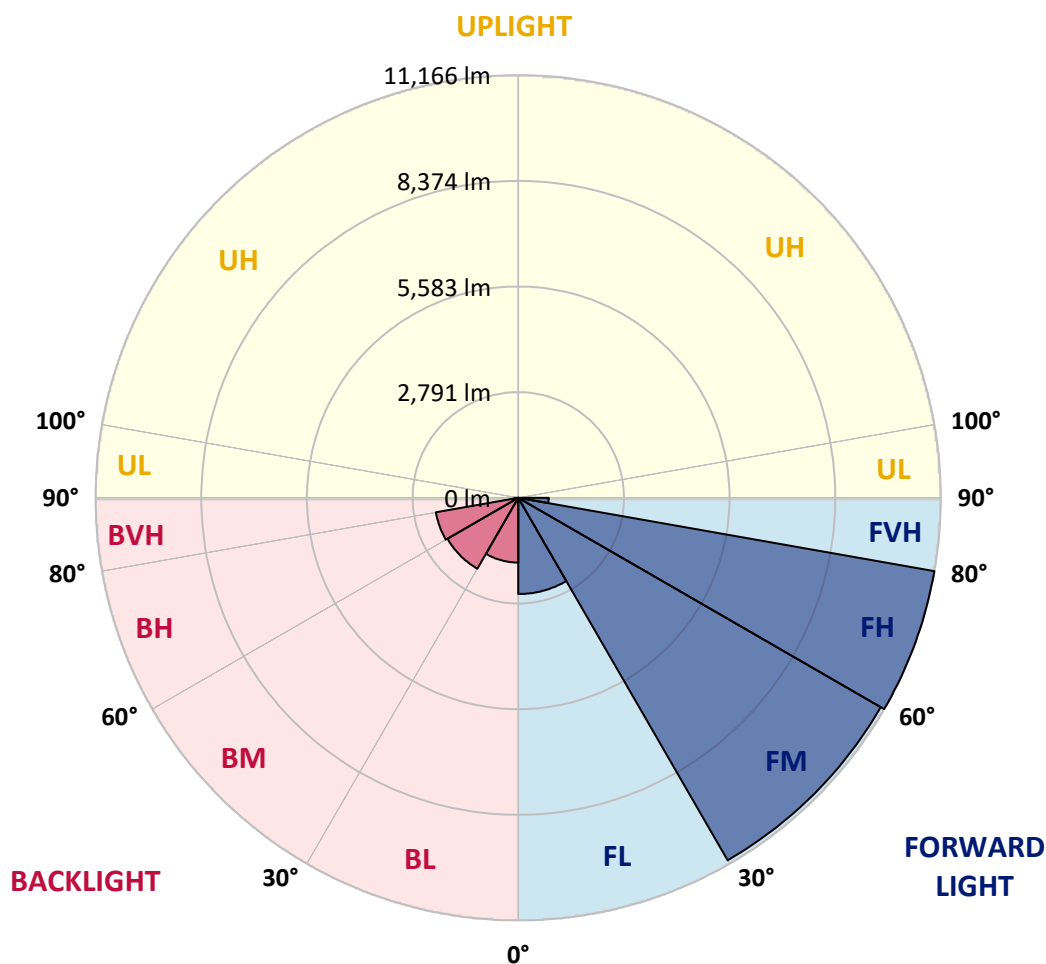


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.7	8.0			
FM (30°-60°)	11059.3	34.8			
FH (60°-80°)	11165.8	35.2			G4/12000
FVH (80°-90°)	803.0	2.5			G5
BL (0°-30°)	1710.2	5.4	B3/2500		
BM (30°-60°)	2160.4	6.8	B2/2500		
BH (60°-80°)	2209.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	104.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0
2.5°	6844.8	6922.1	6950.2	6992.4	7101.4	7182.3	7231.5	7287.7	7354.5	7410.8
5°	6366.7	6408.8	6475.6	6521.3	6658.4	6876.4	7024.1	7263.1	7256.1	7344.0
7.5°	5902.6	5944.8	5976.4	6067.8	6264.7	6461.6	6732.3	7119.0	7090.9	7294.8
10°	5614.3	5582.7	5593.2	5747.9	5902.6	6124.1	6465.1	6858.8	6960.8	7277.2
12.5°	5343.6	5308.5	5392.8	5491.3	5681.1	5881.5	6289.3	6644.4	6799.1	7213.9
15°	5174.9	5150.3	5255.7	5297.9	5522.9	5762.0	6050.3	6482.7	6651.4	7136.6
17.5°	5080.0	5101.1	5139.7	5231.1	5375.3	5579.2	5895.6	6373.7	6447.5	7041.6
20°	5097.5	5122.1	5125.7	5164.3	5262.8	5421.0	5744.4	6257.7	6306.9	7024.1
22.5°	5238.2	5203.0	5217.1	5192.5	5220.6	5343.6	5628.4	6103.0	6292.8	6876.4
25°	5449.1	5399.9	5392.8	5308.5	5255.7	5290.9	5607.3	6064.3	6187.4	6830.7
27.5°	5821.7	5747.9	5747.9	5621.4	5406.9	5350.7	5547.5	6001.0	6110.0	6788.5
30°	6180.3	6180.3	6183.8	6004.6	5765.5	5487.8	5572.1	5976.4	6046.7	6662.0
32.5°	6616.3	6605.7	6588.1	6500.2	6131.1	5716.3	5691.7	5944.8	5979.9	6619.8
35°	7041.6	7013.5	7150.6	7073.3	6697.1	6162.7	5814.7	5958.8	6036.2	6556.5
37.5°	7361.6	7379.1	7663.9	7713.1	7389.7	6669.0	6162.7	6099.5	6173.3	6647.9
40°	7776.4	7846.7	8113.9	8279.1	8082.2	7336.9	6714.7	6335.0	6387.7	6851.8
42.5°	8321.3	8381.1	8722.1	8936.5	8880.3	8187.7	7259.6	6827.2	6785.0	7192.8
45°	9042.0	9052.5	9397.1	9692.4	9808.4	9077.1	8124.4	7449.4	7414.3	7779.9
47.5°	9899.8	9889.2	10103.7	10420.1	10733.0	10138.8	9119.3	8395.1	8268.6	8620.1
50°	10729.4	10683.7	10733.0	11137.2	11738.4	11467.7	10328.7	9551.7	9425.2	9618.5
52.5°	11186.5	11242.7	11109.1	11643.5	12807.1	13039.2	11931.8	10933.3	10824.4	10919.3
55°	10866.5	10982.6	10894.7	11400.9	13274.7	14955.1	14005.9	12532.9	12392.3	12357.1
57.5°	9506.0	9717.0	9734.5	10536.1	13113.0	16438.7	16923.8	14420.8	14209.8	13851.2
60°	7298.3	7509.2	7670.9	8620.1	11727.9	17324.6	20305.8	17106.6	16410.6	15482.5
62.5°	5115.1	5259.3	5421.0	6004.6	9042.0	16804.3	23230.7	20889.4	19606.2	17201.6
65°	3726.5	3839.0	4004.2	4348.7	5554.6	13904.0	24587.7	25382.2	24165.9	19388.2
67.5°	2805.4	2875.7	3093.7	3645.6	3849.5	8588.5	23181.5	30128.2	29143.9	21817.5
70°	2123.4	2183.2	2387.1	3142.9	3596.4	4605.4	18287.9	31186.4	31467.6	24542.0
72.5°	1462.5	1529.3	1757.8	2619.1	3424.1	3652.7	11478.3	28331.8	29397.0	25663.5
75°	896.5	942.2	1075.8	1986.3	3399.5	3571.8	6317.4	23216.7	24345.1	23712.3
77.5°	632.8	629.3	653.9	1163.6	2946.0	3592.9	3895.2	17011.7	18108.6	17475.8
80°	460.5	464.1	488.7	696.1	2000.3	3652.7	3069.1	11393.9	11720.8	9112.3
82.5°	277.7	291.8	351.6	471.1	1202.3	3297.6	2837.0	6331.5	5923.7	2924.9
85°	147.7	147.7	207.4	298.8	639.8	2460.9	2731.6	3012.8	2524.2	907.0
87.5°	35.2	35.2	59.8	119.5	256.6	1177.7	1863.2	1198.8	959.7	305.9
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°
7351.0	0°	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0	7351.0
7445.9	2.5°	7431.9	7389.7	7442.4	7336.9	7252.6	7256.1	7126.0	7119.0	7101.4	7010.0
7477.6	5°	7516.2	7481.1	7421.3	7305.3	7119.0	6932.7	6820.2	6676.0	6616.3	6584.6
7502.2	7.5°	7597.1	7533.8	7361.6	7199.8	6911.6	6560.0	6356.1	6162.7	5916.7	5888.5
7572.5	10°	7618.2	7484.6	7263.1	6918.6	6535.4	6145.2	5681.1	5322.5	5132.7	4985.0
7604.1	12.5°	7586.5	7530.3	7104.9	6662.0	6081.9	5470.2	4928.8	4422.6	4071.0	3888.2
7554.9	15°	7583.0	7484.6	6929.1	6271.7	5530.0	4731.9	3962.0	3353.8	2984.7	2833.5
7544.4	17.5°	7586.5	7351.0	6721.7	5878.0	4879.6	3800.3	2953.1	2453.9	2249.9	2228.9
7572.5	20°	7516.2	7252.6	6503.8	5413.9	4064.0	2854.6	2144.5	1940.6	1940.6	1968.7
7512.7	22.5°	7453.0	7104.9	6159.2	4840.9	3234.3	2067.1	1743.7	1683.9	1750.7	1800.0
7509.2	25°	7365.1	6981.9	5807.7	4246.8	2460.9	1666.4	1515.2	1529.3	1592.5	1680.4
7428.3	27.5°	7238.5	6767.4	5389.3	3557.7	1831.6	1437.9	1399.2	1406.2	1473.0	1511.7
7319.4	30°	7094.4	6549.5	5002.6	2872.2	1451.9	1318.3	1314.8	1332.4	1342.9	1364.0
7287.7	32.5°	6911.6	6261.2	4591.3	2232.4	1307.8	1251.5	1237.5	1226.9	1237.5	1234.0
7189.3	35°	6781.5	6106.5	4173.0	1701.5	1226.9	1191.8	1181.2	1163.6	1149.6	1128.5
7189.3	37.5°	6746.3	5951.8	3733.5	1388.6	1163.6	1146.1	1110.9	1079.3	1061.7	1051.1
7344.0	40°	6725.2	5849.9	3304.6	1219.9	1110.9	1093.3	1051.1	1009.0	991.4	980.8
7576.0	42.5°	6799.1	5793.6	2868.7	1135.5	1065.2	1033.6	987.9	938.7	935.1	928.1
8001.4	45°	7059.2	5863.9	2464.4	1075.8	1019.5	966.8	907.0	882.4	878.9	871.9
8708.0	47.5°	7649.8	6039.7	2119.9	1037.1	970.3	924.6	861.3	826.2	822.6	819.1
9769.7	50°	8465.4	6581.1	1831.6	991.4	938.7	875.4	815.6	776.9	769.9	755.8
11182.9	52.5°	9745.1	7491.6	1659.3	966.8	882.4	829.7	766.4	724.2	706.6	692.6
12789.6	55°	11186.5	8620.1	1627.7	924.6	822.6	773.4	717.2	675.0	657.4	639.8
14297.7	57.5°	12828.2	10114.2	1852.7	896.5	780.5	717.2	653.9	615.2	601.2	583.6
15749.6	60°	14357.5	11604.8	2552.3	854.3	741.8	664.4	601.2	562.5	544.9	527.3
17535.5	62.5°	16125.8	13450.5	3737.0	854.3	706.6	608.2	544.9	516.8	506.2	488.7
19346.0	65°	18217.6	15359.4	4601.8	907.0	696.1	559.0	492.2	464.1	453.5	443.0
20801.5	67.5°	19810.1	16456.3	3958.5	1047.6	741.8	516.8	439.4	421.9	414.8	404.3
21778.8	70°	19978.8	15788.3	2387.1	1132.0	787.5	474.6	393.7	376.2	376.2	365.6
20731.2	72.5°	18463.6	14009.4	1606.6	1009.0	713.7	425.4	348.0	334.0	326.9	319.9
18136.7	75°	15450.8	11882.5	1269.1	805.1	548.4	351.6	302.3	288.3	277.7	274.2
12307.9	77.5°	10377.9	7723.7	938.7	629.3	404.3	284.8	253.1	239.1	228.5	225.0
4855.0	80°	3986.6	2942.5	604.7	457.0	284.8	225.0	200.4	186.3	179.3	168.7
1335.9	82.5°	1174.2	952.7	337.5	281.2	182.8	154.7	144.1	133.6	123.0	112.5
495.7	85°	485.1	435.9	207.4	147.7	112.5	91.4	84.4	73.8	63.3	56.2
203.9	87.5°	225.0	186.3	94.9	56.2	38.7	21.1	10.5	3.5	0.0	0.0
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



180°
7351.0
7041.6
6598.7
5839.3
4928.8
3839.0
2833.5
2246.4
1979.3
1821.1
1673.4
1504.7
1360.5
1223.4
1125.0
1044.1
984.4
938.7
878.9
819.1
755.8
692.6
632.8
576.5
527.3
485.1
439.4
397.3
358.6
316.4
267.2
214.4
161.7
109.0
49.2
0.0
0.0

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