

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: P574728

Luminaire Tested: **EPH-VN-08-730-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

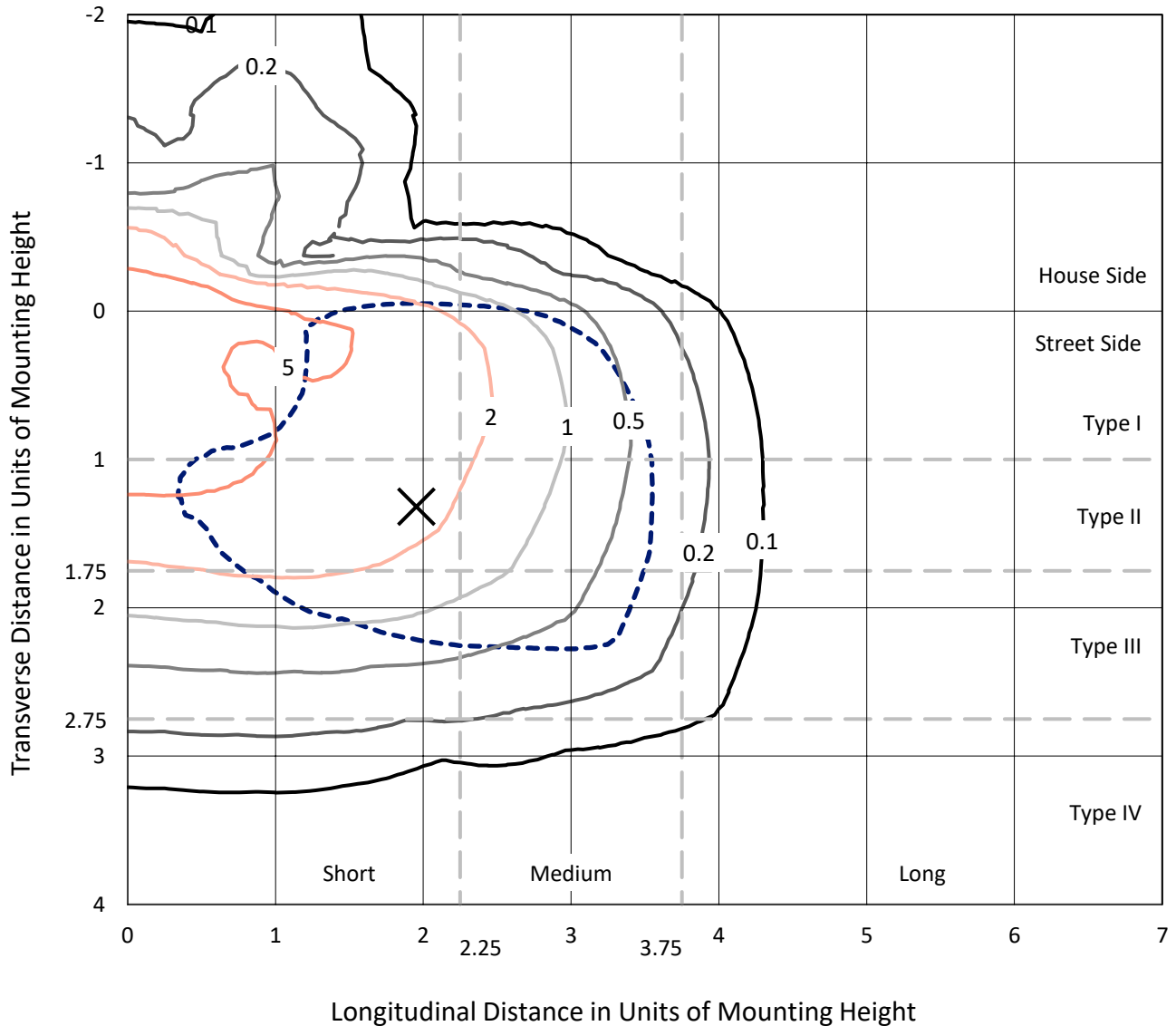
Lumens per Lamp: N/A
Luminaire Lumens: 49865.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

REPORT NUMBER: P574728
 CATALOG NUMBER: EPH-VN-08-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

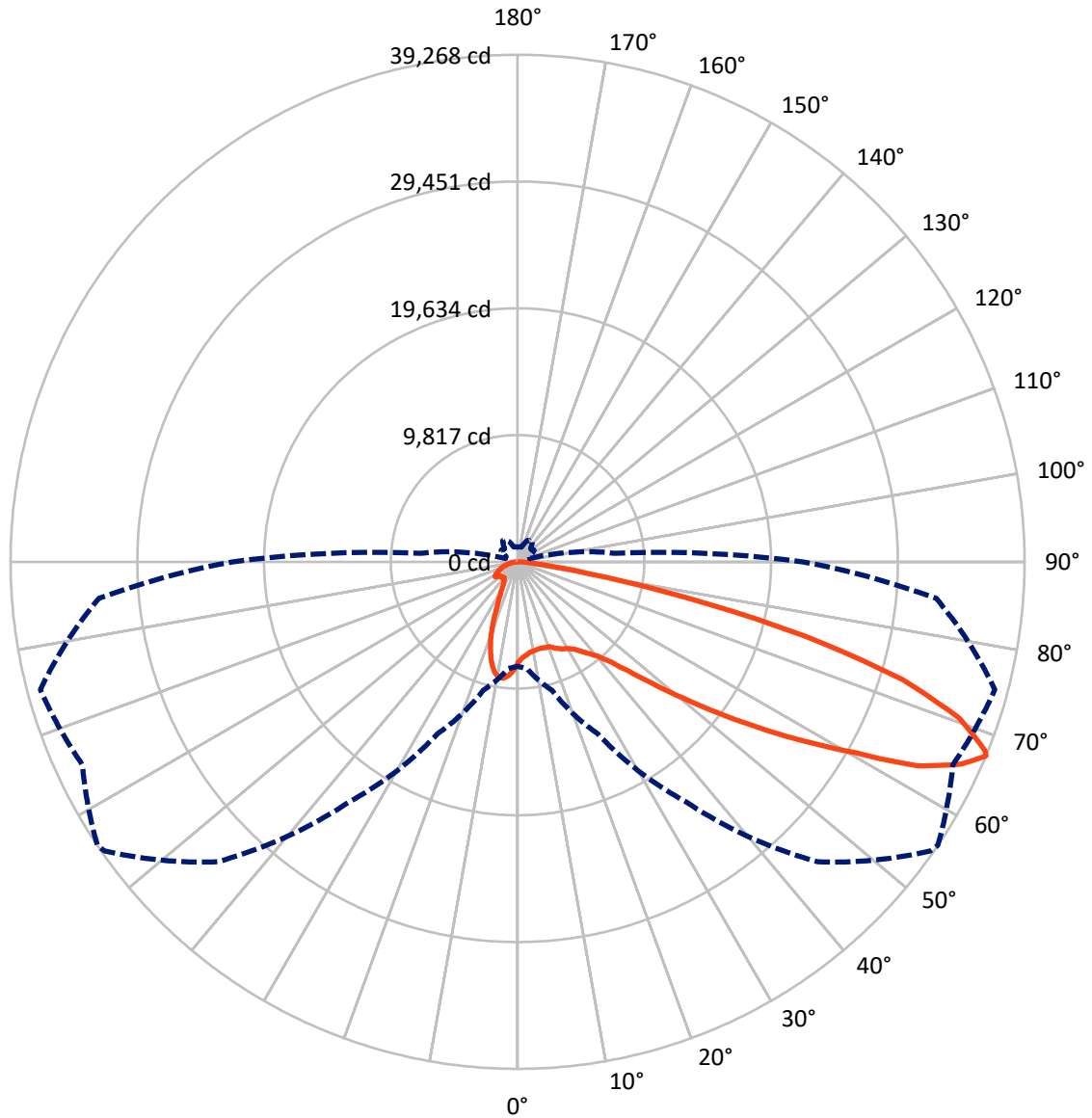
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

REPORT NUMBER: P574728
CATALOG NUMBER: EPH-VN-08-730-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P574728
 CATALOG NUMBER: EPH-VN-08-730-U-T3R

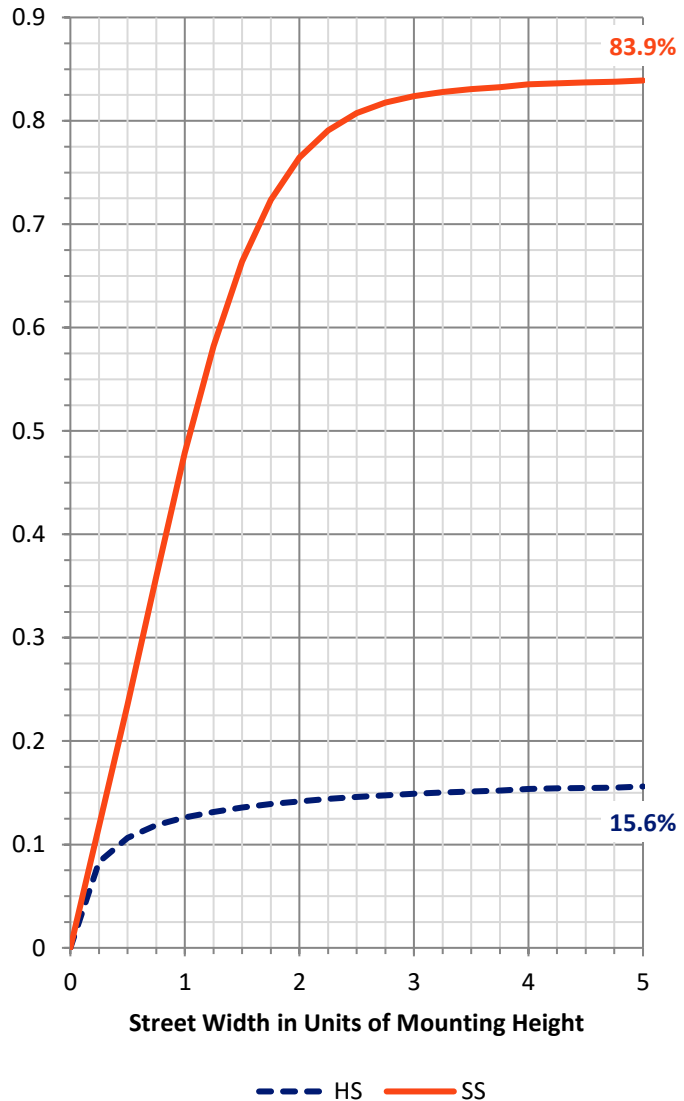
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7894.2	0.0	7894.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	41971.0	0.0	41971.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	49865.1	0.0	49865.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.5	1.5
10°-20°	2039.2	4.1
20°-30°	3198.1	6.4
30°-40°	4565.3	9.2
40°-50°	6890.3	13.8
50°-60°	10968.2	22.0
60°-70°	14022.0	28.1
70°-80°	6836.6	13.7
80°-90°	598.1	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°	49865.1	100.0
0°-180°	49865.1	100.0

Coefficient of Utilization

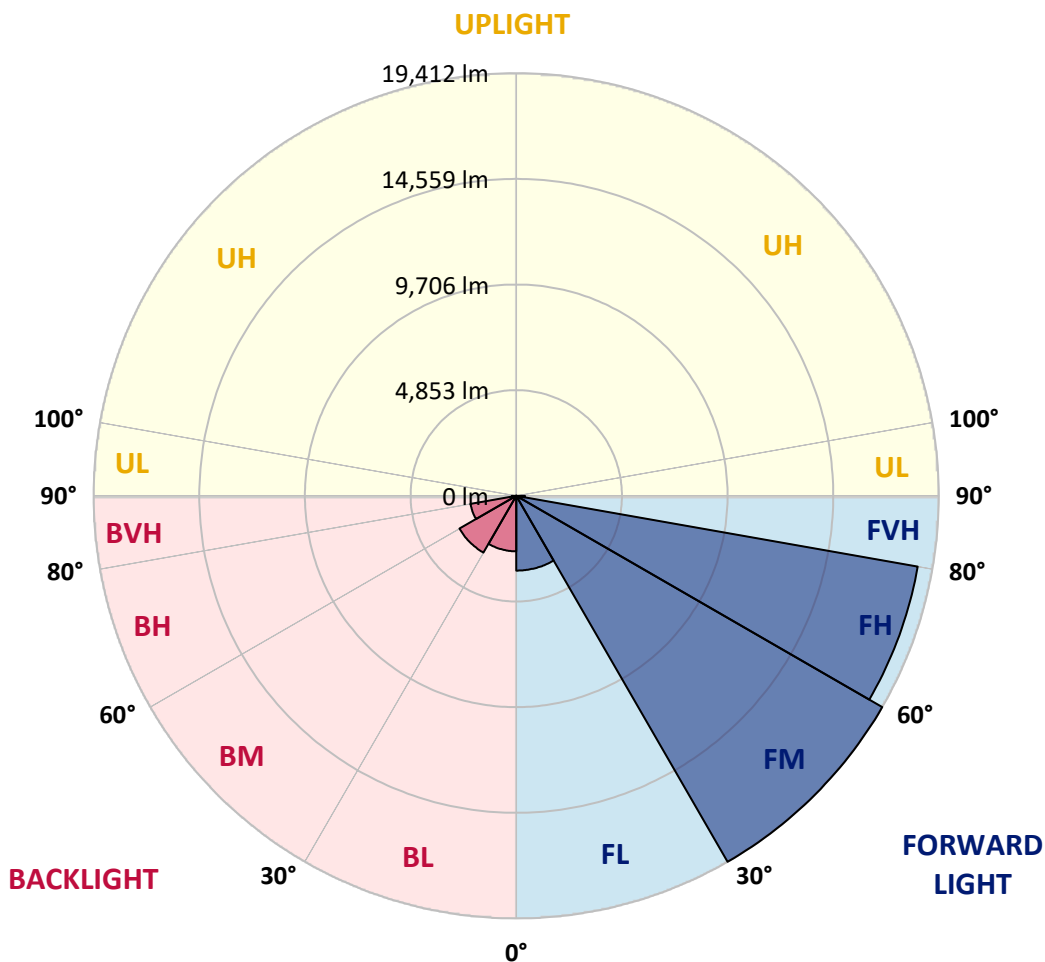


REPORT NUMBER: P574728
 CATALOG NUMBER: EPH-VN-08-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3436.3	6.9			
FM (30°-60°)	19412.1	38.9			
FH (60°-80°)	18725.5	37.6			G5
FVH (80°-90°)	397.2	0.8			G3/500
BL (0°-30°)	2548.4	5.1	B4/5000		
BM (30°-60°)	3011.7	6.0	B3/5000		
BH (60°-80°)	2133.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	200.9	0.4			G2/225
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





REPORT NUMBER: P574728
 CATALOG NUMBER: EPH-VN-08-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9
2.5°	7127.4	7098.2	7133.3	7098.2	7256.0	7349.6	7378.8	7419.8	7565.9	7706.3
5°	6829.2	6700.6	6840.9	6887.7	6899.4	7057.3	7221.0	7250.2	7326.2	7554.2
7.5°	6332.2	6478.4	6425.8	6566.1	6712.3	6870.1	7139.1	7063.1	7343.7	7560.1
10°	6227.0	6238.7	6297.1	6349.8	6478.4	6683.0	7057.3	7010.5	7297.0	7758.9
12.5°	6332.2	6332.2	6314.7	6273.8	6419.9	6618.7	6916.9	6940.3	7390.5	7817.4
15°	6700.6	6770.8	6583.6	6612.9	6554.4	6618.7	6881.8	6934.5	7425.6	7864.1
17.5°	7601.0	7577.6	7355.4	7045.6	6788.3	6747.4	6928.6	6987.1	7390.5	7998.6
20°	8478.1	8431.3	8045.4	7723.8	7215.1	6975.4	7004.6	7010.5	7449.0	8086.3
22.5°	9454.5	9577.3	9156.3	8501.4	7870.0	7273.6	7156.6	7250.2	7583.5	8133.1
25°	10986.4	10723.3	10360.8	9501.3	8483.9	7735.5	7408.1	7454.8	7712.1	8250.0
27.5°	12091.5	11986.2	11419.1	10723.3	9343.4	8098.0	7542.5	7630.2	7946.0	8244.2
30°	13155.6	13155.6	12810.6	11769.9	10249.7	8706.1	7829.0	7788.1	7834.9	8232.5
32.5°	14401.0	14231.4	13734.4	13044.5	11389.8	9261.5	8057.1	8068.8	8068.8	8448.8
35°	15055.9	15330.7	14997.4	13874.8	12261.0	10185.4	8606.7	8519.0	8454.7	8688.5
37.5°	16014.8	16178.5	15827.7	15166.9	13342.7	10933.8	9092.0	9021.8	8647.6	8875.6
40°	16593.6	16564.4	16552.7	16248.6	14775.2	11816.7	9805.3	9624.1	9121.2	9536.4
42.5°	16921.0	16862.6	17581.7	17394.6	16125.8	13114.7	10699.9	10600.5	10045.0	10711.6
45°	17289.4	17722.1	18312.6	18838.8	17698.7	14938.9	12214.2	12073.9	11576.9	12424.7
47.5°	17611.0	18143.0	18897.3	19458.6	19119.5	16921.0	14085.3	14120.3	13792.9	14664.1
50°	18148.9	18201.5	19224.7	20359.0	20622.1	18751.1	16599.4	16541.0	16394.8	17616.8
52.5°	17985.2	18143.0	19435.2	20885.3	21317.9	20686.5	19300.7	19476.1	19283.2	20820.9
55°	15319.0	15792.6	19306.6	21440.7	22966.8	22873.2	22773.8	22656.9	22645.2	24422.6
57.5°	14108.7	14494.6	17008.7	22054.6	24732.5	25422.5	26065.6	26194.3	26188.4	28334.2
60°	13313.5	13711.1	16079.1	21721.4	26235.2	28761.1	29994.8	30012.3	29977.2	32514.8
62.5°	11758.2	12144.1	14471.2	19897.1	26650.3	31842.4	34590.5	34818.5	33210.6	36116.5
65°	9887.2	10202.9	12255.2	17108.1	25545.3	33801.1	38046.0	37777.0	35935.3	38174.6
67°	8086.3	8296.8	10296.5	14687.5	22656.9	32859.8	39045.8	39268.0	37192.4	38262.3
67.5°	7571.8	7764.7	9653.3	13863.1	21557.6	32146.4	39080.9	39045.8	37215.7	38279.9
70°	5256.4	5338.3	6577.8	9536.4	15880.3	27159.0	36227.6	36309.5	35654.6	36204.2
72.5°	3484.8	3607.6	4396.9	6010.6	9360.9	19762.6	30281.3	31158.3	30743.2	29684.9
75°	2245.2	2315.4	2876.7	3578.3	4607.4	11255.3	22370.4	22955.1	22002.0	18359.4
77.5°	1257.1	1333.1	1736.5	2175.1	2245.2	4683.4	12565.1	13290.1	11261.2	7799.8
80°	783.5	882.9	1309.7	1292.2	1070.0	1719.0	5180.4	5548.7	4502.1	2683.7
82.5°	590.5	666.6	1011.5	906.3	602.2	765.9	1941.2	2081.5	1648.8	1034.9
85°	403.4	508.7	730.9	561.3	315.7	368.4	771.8	830.3	754.3	502.8
87.5°	146.2	216.3	380.1	280.7	140.3	111.1	251.4	280.7	269.0	228.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574728

CATALOG NUMBER: EPH-VN-08-730-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7758.9	0°	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9	7758.9
7829.0	2.5°	7940.1	8022.0	8062.9	8302.6	8402.0	8384.5	8407.9	8443.0	8478.1	8524.8
7928.4	5°	8004.5	8255.9	8390.4	8671.0	8858.1	8776.2	8881.5	8852.3	8811.3	8805.5
8109.7	7.5°	8214.9	8536.5	8940.0	9016.0	9097.8	8893.2	8717.8	8478.1	8419.6	8214.9
8261.7	10°	8589.1	8852.3	9343.4	9372.6	9010.1	8483.9	8092.2	7595.2	7589.3	7291.1
8495.6	12.5°	8945.8	9244.0	9641.6	9472.0	8606.7	7887.5	7250.2	6706.4	6478.4	6326.4
8635.9	15°	9168.0	9659.1	9869.6	9138.8	7899.2	6928.6	6104.2	5519.5	5285.6	5174.5
8811.3	17.5°	9372.6	10056.7	9963.2	8554.1	7028.0	5940.5	4958.2	4449.5	4385.2	4303.3
9092.0	20°	9653.3	10202.9	9629.9	7794.0	6039.9	4665.9	4040.2	3794.7	3853.1	3888.2
9121.2	22.5°	9916.4	10278.9	9208.9	6963.7	4771.1	3695.3	3385.4	3438.0	3525.7	3642.6
9191.4	25°	10033.3	10401.7	8641.8	5817.7	3630.9	3110.6	3040.4	3128.1	3274.3	3280.1
9290.8	27.5°	10109.4	10314.0	7957.7	4700.9	2870.8	2718.8	2824.1	2888.4	2905.9	2976.1
9501.3	30°	10243.8	10132.7	7092.3	3362.0	2408.9	2414.8	2549.3	2549.3	2549.3	2601.9
9711.8	32.5°	10477.7	10010.0	6080.8	2455.7	2075.7	2262.8	2227.7	2216.0	2192.6	2128.3
9980.7	35°	10623.9	9676.7	4800.3	1818.4	1865.2	2075.7	2064.0	1882.7	1578.7	1426.7
10664.8	37.5°	10927.9	9507.1	3531.5	1403.3	1742.4	1982.1	1917.8	1479.3	1146.0	999.8
11512.6	40°	11582.8	9396.0	2444.0	1227.9	1660.5	1935.3	1713.2	1262.9	877.0	619.8
12822.3	42.5°	12383.8	9401.9	1660.5	1157.7	1666.4	2034.7	1648.8	1081.7	619.8	497.0
14570.6	45°	13459.6	9314.2	1140.2	1157.7	1771.6	2198.4	1689.8	982.3	602.2	631.5
16763.2	47.5°	14617.3	9390.2	847.8	1052.4	1789.2	2204.3	1543.6	964.7	578.8	730.9
19148.7	50°	15968.0	9466.2	701.6	970.6	1795.0	2134.1	1420.8	941.4	602.2	771.8
21885.1	52.5°	17359.5	9705.9	596.4	918.0	1865.2	2104.9	1420.8	976.4	602.2	672.4
25369.8	55°	19435.2	10319.8	859.5	1146.0	2122.4	2297.8	1748.2	1368.2	842.0	865.3
28708.4	57.5°	21727.2	10951.3	958.9	1204.5	2180.9	2069.8	1882.7	1508.5	888.7	894.6
31304.5	60°	23235.7	10974.7	953.1	1175.2	2040.6	1789.2	1841.8	1590.4	906.3	765.9
32912.4	62.5°	23838.0	10261.4	994.0	1175.2	1900.3	1672.2	1888.6	1713.2	935.5	958.9
33368.5	65°	23153.9	8787.9	958.9	1052.4	1672.2	1496.8	1900.3	1736.5	1023.2	964.7
32549.9	67°	22083.9	7571.8	976.4	999.8	1555.3	1420.8	1999.7	1824.2	1186.9	1157.7
32123.1	67.5°	21779.8	7250.2	970.6	970.6	1514.4	1397.4	2023.0	1824.2	1210.3	1198.6
28351.8	70°	19195.5	5876.2	994.0	958.9	1338.9	1327.3	2151.7	1923.6	1391.6	1403.3
20826.8	72.5°	14611.5	4455.4	988.1	958.9	1163.5	1268.8	2169.2	1988.0	1514.4	1403.3
11664.6	75°	8302.6	2666.2	871.2	836.1	918.0	1105.1	2028.9	1894.4	1473.4	1257.1
4660.0	77.5°	3432.2	1374.0	801.0	754.3	760.1	900.4	1689.8	1765.8	1403.3	1070.0
1555.3	80°	1280.5	824.4	643.2	602.2	584.7	660.7	1204.5	1409.1	1198.6	877.0
684.1	82.5°	666.6	514.5	438.5	438.5	397.6	421.0	649.0	935.5	906.3	602.2
274.8	85°	339.1	292.3	251.4	245.6	222.2	198.8	327.4	555.5	520.4	333.3
122.8	87.5°	181.3	163.7	105.2	99.4	81.9	52.6	58.5	111.1	181.3	146.2
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>
7758.9
8571.6
8858.1
8285.1
7279.4
6291.3
5151.1
4344.3
3847.3
3578.3
3338.6
3040.4
2660.4
2093.2
1496.8
994.0
602.2
485.3
643.2
812.7
894.6
689.9
912.1
865.3
789.3
970.6
947.2
1140.2
1175.2
1298.0
1245.4
1122.6
1011.5
801.0
473.6
274.8
105.2
0.0

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