

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: P574744

Luminaire Tested: **EPH-VN-06-750-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

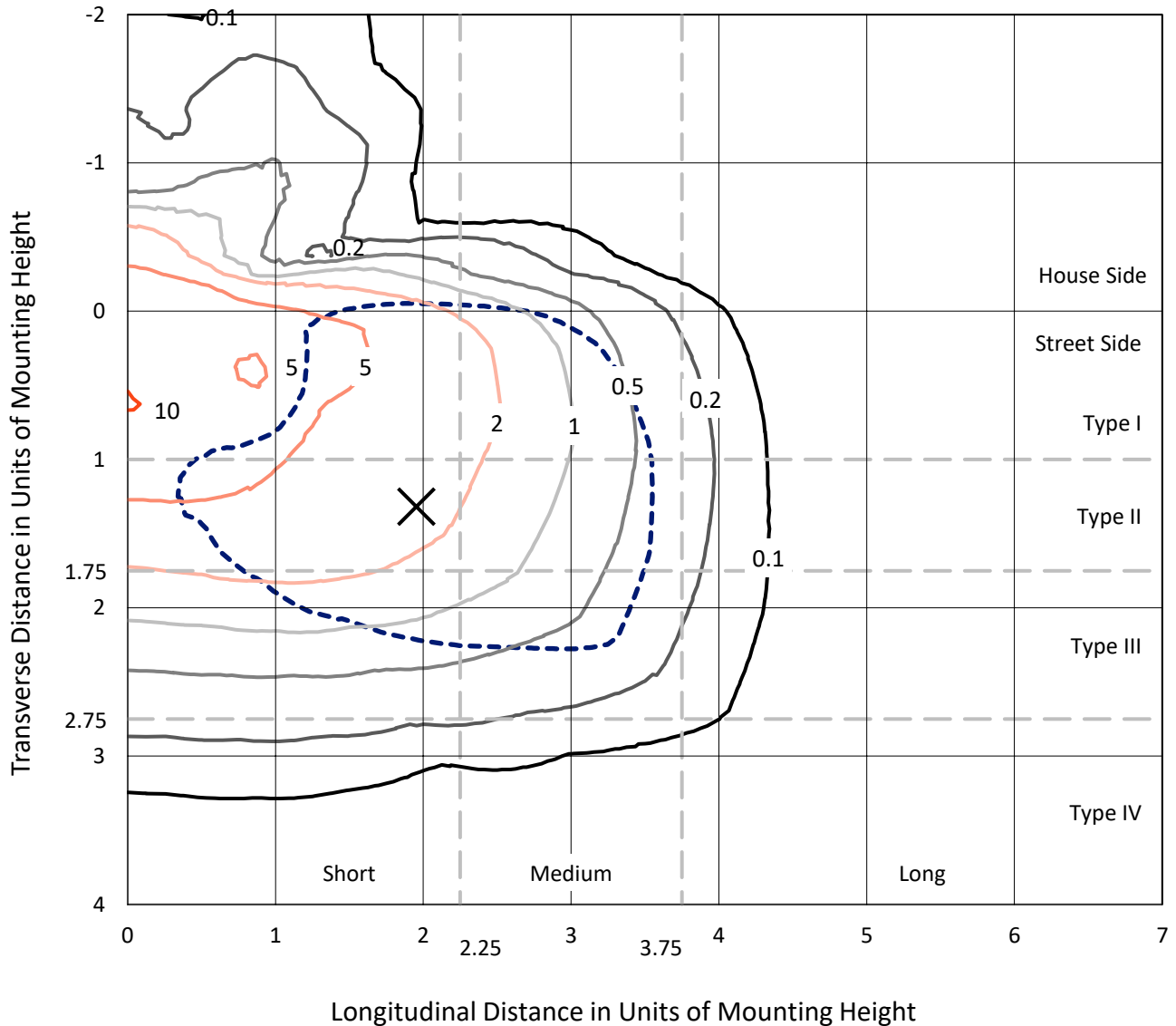
Lumens per Lamp: N/A
Luminaire Lumens: 53166.5 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

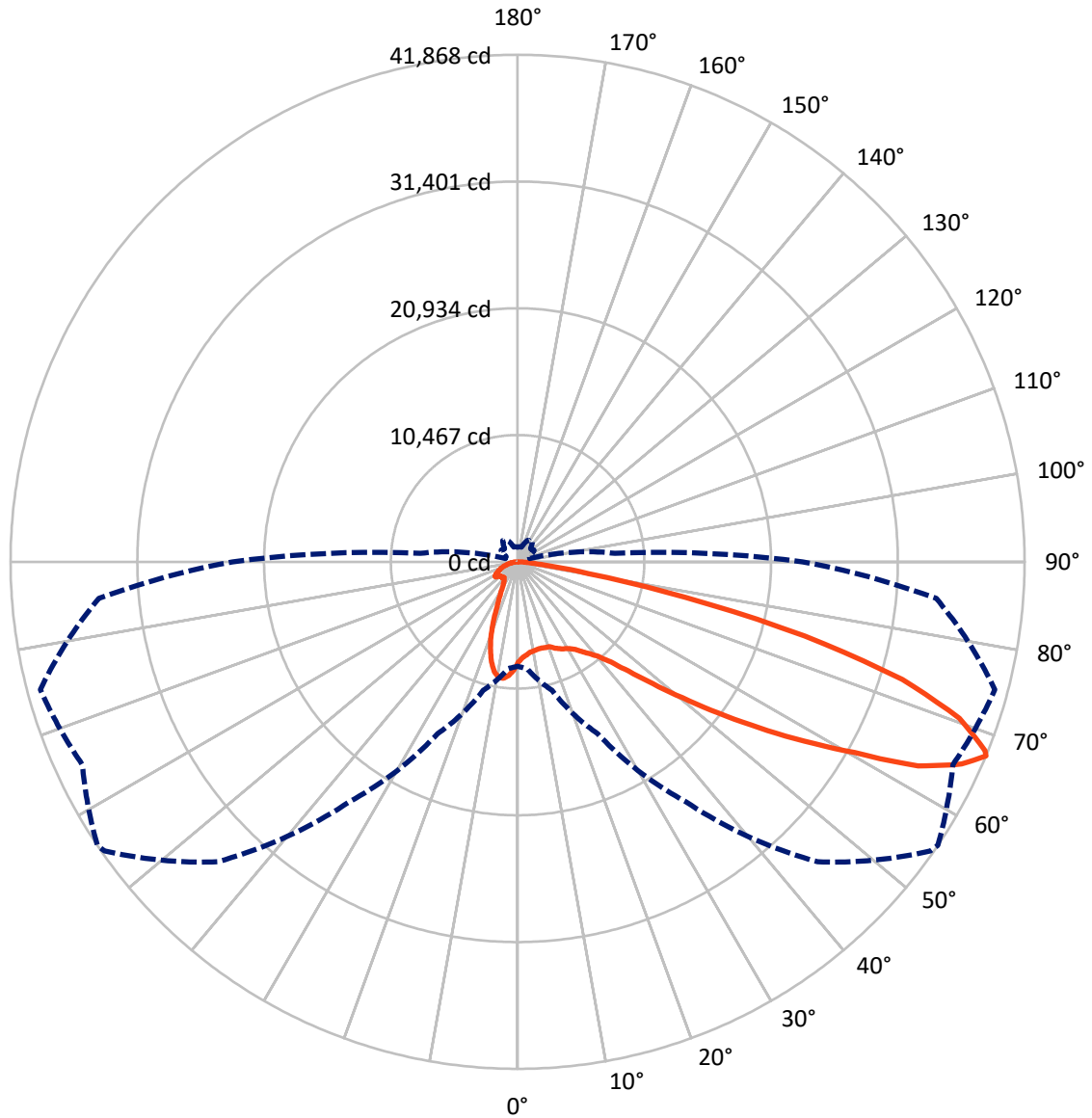
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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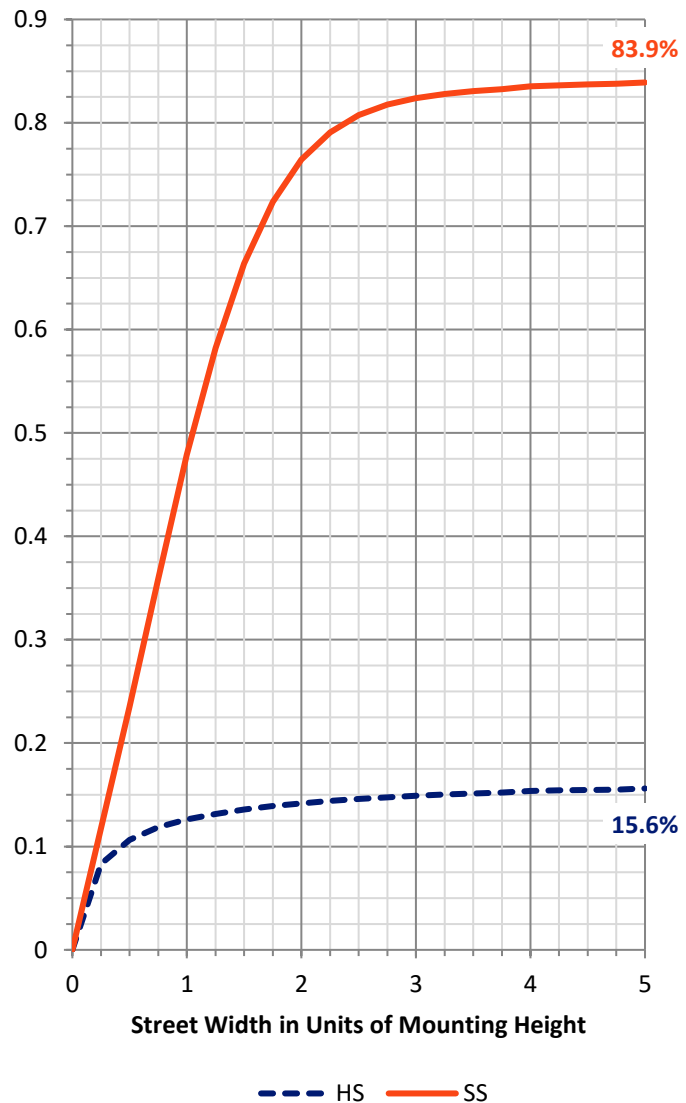
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8416.8	0.0	8416.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	44749.7	0.0	44749.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	53166.5	0.0	53166.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.0	1.5
10°-20°	2174.2	4.1
20°-30°	3409.8	6.4
30°-40°	4867.5	9.2
40°-50°	7346.5	13.8
50°-60°	11694.3	22.0
60°-70°	14950.3	28.1
70°-80°	7289.3	13.7
80°-90°	637.7	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°	53166.5	100.0
0°-180°	53166.5	100.0

Coefficient of Utilization

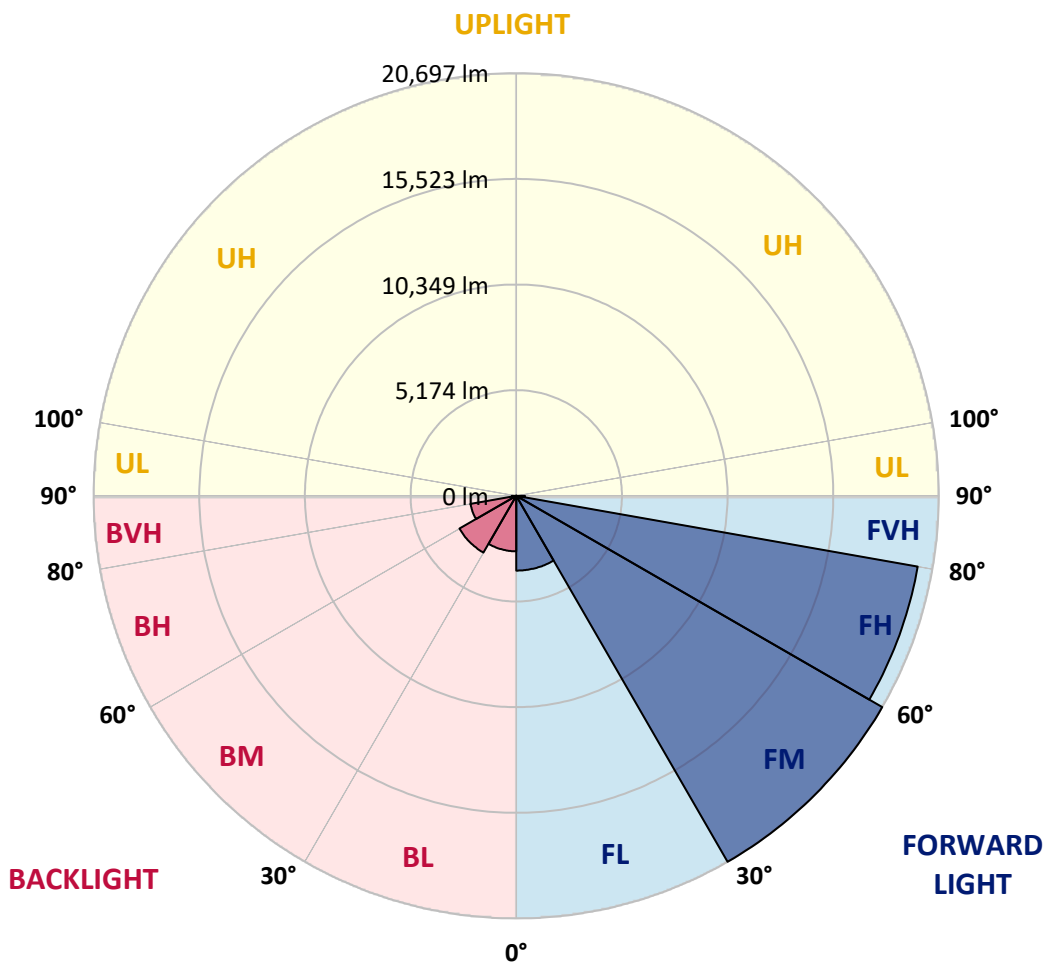


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3663.8	6.9			
FM (30°-60°)	20697.3	38.9			
FH (60°-80°)	19965.2	37.6			G5
FVH (80°-90°)	423.5	0.8			G3/500
BL (0°-30°)	2717.2	5.1	B4/5000		
BM (30°-60°)	3211.1	6.0	B3/5000		
BH (60°-80°)	2274.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	214.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6
2.5°	7599.3	7568.1	7605.5	7568.1	7736.4	7836.2	7867.4	7911.0	8066.8	8216.5
5°	7281.4	7144.2	7293.8	7343.7	7356.2	7524.5	7699.0	7730.2	7811.2	8054.4
7.5°	6751.5	6907.3	6851.2	7000.8	7156.7	7325.0	7611.8	7530.7	7830.0	8060.6
10°	6639.2	6651.7	6714.1	6770.2	6907.3	7125.5	7524.5	7474.6	7780.1	8272.6
12.5°	6751.5	6751.5	6732.8	6689.1	6845.0	7056.9	7374.9	7399.8	7879.8	8334.9
15°	7144.2	7219.0	7019.5	7050.7	6988.4	7056.9	7337.5	7393.6	7917.2	8384.8
17.5°	8104.2	8079.3	7842.4	7512.0	7237.7	7194.1	7387.3	7449.7	7879.8	8528.2
20°	9039.4	8989.5	8578.0	8235.2	7692.8	7437.2	7468.4	7474.6	7942.2	8621.7
22.5°	10080.4	10211.4	9762.5	9064.3	8391.0	7755.1	7630.5	7730.2	8085.5	8671.5
25°	11713.8	11433.2	11046.7	10130.3	9045.6	8247.6	7898.5	7948.4	8222.7	8796.2
27.5°	12892.0	12779.8	12175.1	11433.2	9962.0	8634.1	8041.9	8135.4	8472.1	8790.0
30°	14026.6	14026.6	13658.8	12549.1	10928.3	9282.5	8347.4	8303.7	8353.6	8777.5
32.5°	15354.4	15173.6	14643.8	13908.1	12143.9	9874.7	8590.5	8603.0	8603.0	9008.2
35°	16052.6	16345.6	15990.3	14793.4	13072.8	10859.7	9176.5	9083.0	9014.4	9263.8
37.5°	17075.0	17249.6	16875.5	16171.1	14226.1	11657.6	9693.9	9619.1	9220.1	9463.3
40°	17692.2	17661.0	17648.6	17324.4	15753.4	12599.0	10454.5	10261.2	9725.1	10167.7
42.5°	18041.3	17979.0	18745.7	18546.3	17193.5	13982.9	11408.3	11302.3	10710.1	11420.8
45°	18434.0	18895.4	19525.0	20086.1	18870.4	15928.0	13022.9	12873.3	12343.4	13247.3
47.5°	18776.9	19344.2	20148.4	20746.9	20385.3	18041.3	15017.8	15055.2	14706.1	15635.0
50°	19350.5	19406.6	20497.5	21706.9	21987.4	19992.6	17698.4	17636.1	17480.2	18783.2
52.5°	19175.9	19344.2	20721.9	22268.0	22729.3	22056.0	20578.6	20765.6	20559.9	22199.4
55°	16333.2	16838.1	20584.8	22860.2	24487.3	24387.6	24281.6	24156.9	24144.4	26039.6
57.5°	15042.7	15454.2	18134.8	23514.8	26370.0	27105.6	27791.3	27928.5	27922.3	30210.1
60°	14194.9	14618.8	17143.6	23159.4	27972.1	30665.2	31980.6	31999.3	31961.9	34667.5
62.5°	12536.6	12948.1	15429.2	21214.4	28414.7	33950.6	36880.6	37123.7	35409.3	38507.6
65°	10541.8	10878.4	13066.5	18240.8	27236.5	36039.0	40564.9	40278.1	38314.4	40702.0
67°	8621.7	8846.1	10978.1	15659.9	24156.9	35035.3	41630.9	41867.8	39654.7	40795.5
67.5°	8073.1	8278.8	10292.4	14780.9	22984.9	34274.7	41668.3	41630.9	39679.6	40814.2
70°	5604.4	5691.7	7013.3	10167.7	16931.6	28957.1	38626.1	38713.4	38015.2	38601.2
72.5°	3715.5	3846.4	4688.0	6408.6	9980.7	21071.0	32286.1	33221.2	32778.6	31650.2
75°	2393.9	2468.7	3067.1	3815.2	4912.4	12000.5	23851.4	24474.8	23458.7	19574.9
77.5°	1340.3	1421.4	1851.5	2319.1	2393.9	4993.5	13396.9	14170.0	12006.8	8316.2
80°	835.4	941.3	1396.4	1377.7	1140.8	1832.8	5523.4	5916.1	4800.2	2861.4
82.5°	629.6	710.7	1078.5	966.3	642.1	816.7	2069.7	2219.3	1758.0	1103.4
85°	430.1	542.4	779.3	598.5	336.6	392.7	822.9	885.2	804.2	536.1
87.5°	155.9	230.7	405.2	299.2	149.6	118.4	268.1	299.2	286.8	243.1
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°
8272.6	0°	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6	8272.6
8347.4	2.5°	8465.8	8553.1	8596.7	8852.3	8958.3	8939.6	8964.5	9001.9	9039.4	9089.2
8453.4	5°	8534.4	8802.5	8945.8	9245.1	9444.6	9357.3	9469.5	9438.3	9394.7	9388.5
8646.6	7.5°	8758.8	9101.7	9531.8	9612.9	9700.2	9482.0	9294.9	9039.4	8977.0	8758.8
8808.7	10°	9157.8	9438.3	9962.0	9993.2	9606.7	9045.6	8627.9	8098.0	8091.8	7773.8
9058.1	12.5°	9538.1	9856.0	10279.9	10099.1	9176.5	8409.7	7730.2	7150.4	6907.3	6745.2
9207.7	15°	9775.0	10298.6	10523.1	9743.8	8422.2	7387.3	6508.3	5884.9	5635.6	5517.1
9394.7	17.5°	9993.2	10722.5	10622.8	9120.4	7493.3	6333.8	5286.5	4744.1	4675.5	4588.3
9693.9	20°	10292.4	10878.4	10267.5	8310.0	6439.8	4974.8	4307.7	4045.9	4108.2	4145.6
9725.1	22.5°	10572.9	10959.4	9818.6	7424.7	5087.0	3939.9	3609.5	3665.6	3759.1	3883.8
9799.9	25°	10697.6	11090.4	9213.9	6202.9	3871.3	3316.5	3241.7	3335.2	3491.1	3497.3
9905.9	27.5°	10778.7	10996.8	8484.5	5012.2	3060.9	2898.8	3011.0	3079.6	3098.3	3173.1
10130.3	30°	10922.0	10803.6	7561.9	3584.6	2568.4	2574.7	2718.0	2718.0	2718.0	2774.1
10354.7	32.5°	11171.4	10672.7	6483.4	2618.3	2213.1	2412.6	2375.2	2362.7	2337.8	2269.2
10641.5	35°	11327.2	10317.3	5118.1	1938.8	1988.7	2213.1	2200.6	2007.4	1683.2	1521.1
11370.9	37.5°	11651.4	10136.5	3765.4	1496.2	1857.7	2113.3	2044.8	1577.2	1221.9	1066.0
12274.8	40°	12349.6	10018.1	2605.8	1309.1	1770.5	2063.5	1826.6	1346.6	935.1	660.8
13671.2	42.5°	13203.7	10024.3	1770.5	1234.3	1776.7	2169.4	1758.0	1153.3	660.8	529.9
15535.2	45°	14350.8	9930.8	1215.6	1234.3	1888.9	2344.0	1801.6	1047.3	642.1	673.3
17873.0	47.5°	15585.1	10011.9	903.9	1122.1	1907.6	2350.2	1645.8	1028.6	617.2	779.3
20416.5	50°	17025.2	10092.9	748.1	1034.9	1913.8	2275.4	1514.9	1003.7	642.1	822.9
23334.0	52.5°	18508.9	10348.5	635.9	978.7	1988.7	2244.3	1514.9	1041.1	642.1	716.9
27049.5	55°	20721.9	11003.1	916.4	1221.9	2263.0	2450.0	1864.0	1458.8	897.7	922.6
30609.1	57.5°	23165.7	11676.4	1022.4	1284.2	2325.3	2206.8	2007.4	1608.4	947.6	953.8
33377.0	60°	24774.1	11701.3	1016.1	1253.0	2175.7	1907.6	1963.7	1695.7	966.3	816.7
35091.4	62.5°	25416.2	10940.7	1059.8	1253.0	2026.1	1782.9	2013.6	1826.6	997.4	1022.4
35577.6	65°	24686.8	9369.8	1022.4	1122.1	1782.9	1595.9	2026.1	1851.5	1091.0	1028.6
34704.9	67°	23546.0	8073.1	1041.1	1066.0	1658.3	1514.9	2132.0	1945.0	1265.5	1234.3
34249.8	67.5°	23221.8	7730.2	1034.9	1034.9	1614.6	1489.9	2157.0	1945.0	1290.4	1278.0
30228.8	70°	20466.3	6265.2	1059.8	1022.4	1427.6	1415.1	2294.1	2051.0	1483.7	1496.2
22205.6	72.5°	15578.9	4750.3	1053.6	1022.4	1240.6	1352.8	2312.8	2119.6	1614.6	1496.2
12436.9	75°	8852.3	2842.7	928.9	891.5	978.7	1178.2	2163.2	2019.8	1571.0	1340.3
4968.5	77.5°	3659.4	1465.0	854.1	804.2	810.4	960.0	1801.6	1882.7	1496.2	1140.8
1658.3	80°	1365.3	879.0	685.7	642.1	623.4	704.4	1284.2	1502.4	1278.0	935.1
729.4	82.5°	710.7	548.6	467.6	467.6	423.9	448.9	692.0	997.4	966.3	642.1
293.0	85°	361.6	311.7	268.1	261.8	236.9	212.0	349.1	592.2	554.8	355.3
130.9	87.5°	193.3	174.6	112.2	106.0	87.3	56.1	62.3	118.4	193.3	155.9
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>
8272.6
9139.1
9444.6
8833.6
7761.4
6707.8
5492.2
4631.9
4102.0
3815.2
3559.6
3241.7
2836.5
2231.8
1595.9
1059.8
642.1
517.4
685.7
866.5
953.8
735.6
972.5
922.6
841.6
1034.9
1009.9
<i>1215.6</i>
1253.0
1384.0
1327.8
1196.9
1078.5
854.1
505.0
293.0
112.2
0.0

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