

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: P574745

Luminaire Tested: **EPH-VN-07-750-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

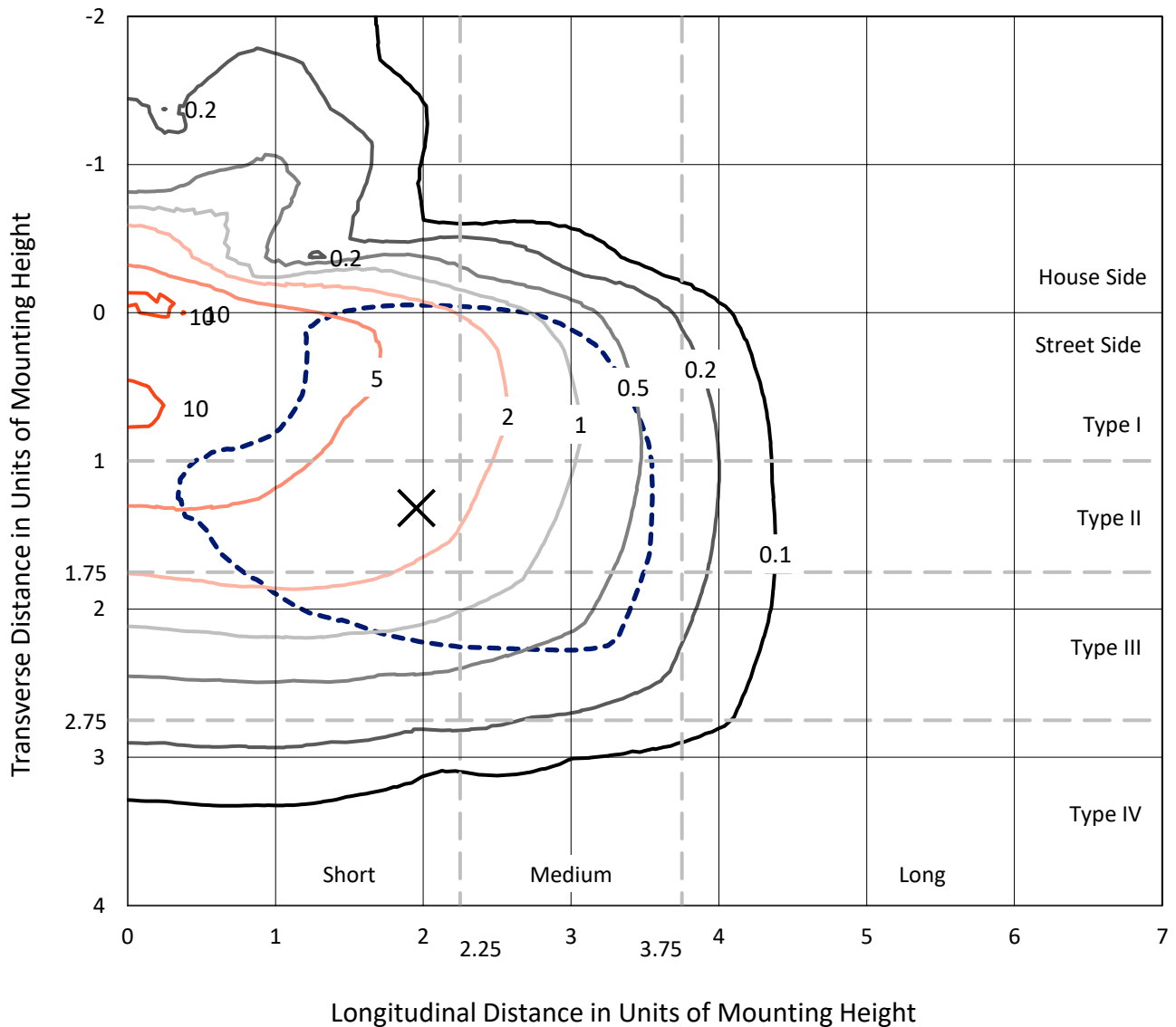
Lumens per Lamp: N/A
Luminaire Lumens: 56721.9 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

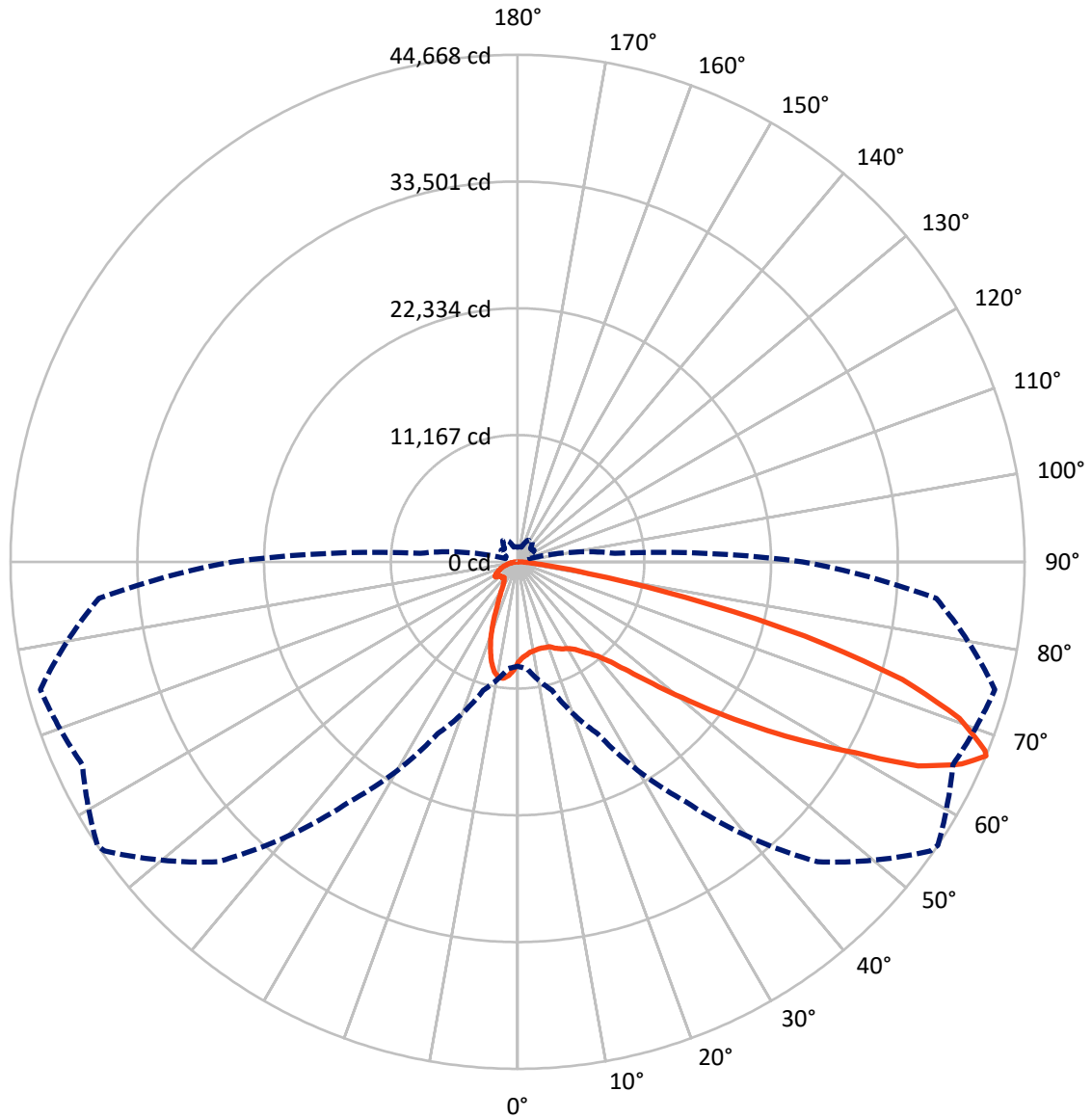
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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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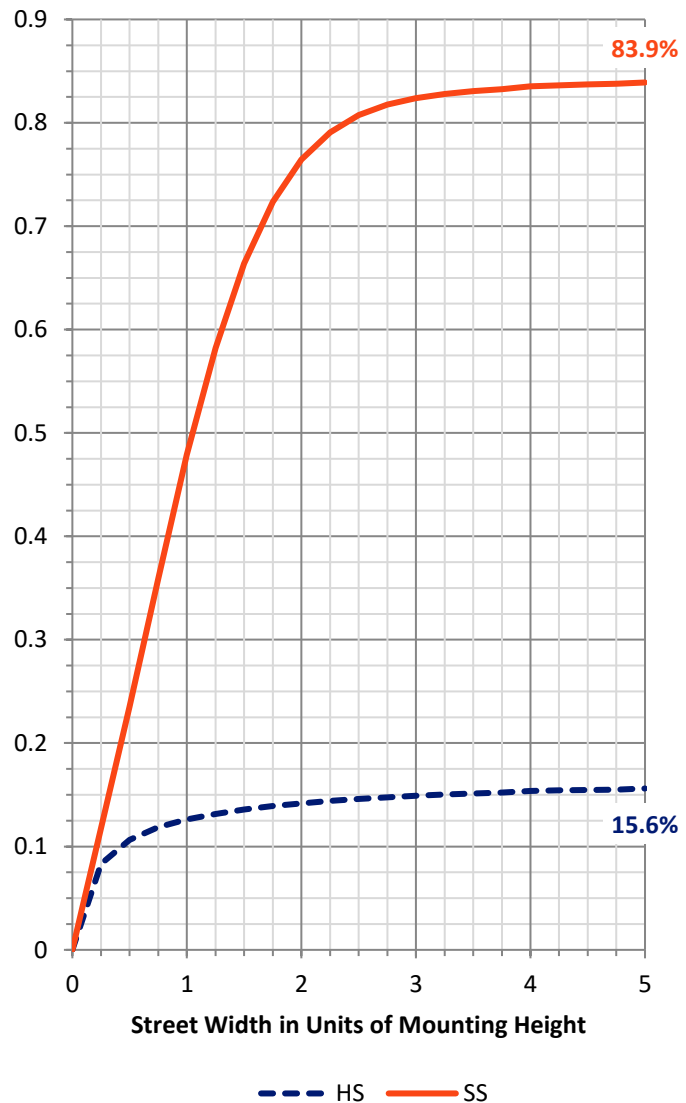
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8979.7	0.0	8979.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	47742.3	0.0	47742.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	56721.9	0.0	56721.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.3	1.5
10°-20°	2319.6	4.1
20°-30°	3637.8	6.4
30°-40°	5193.0	9.2
40°-50°	7837.8	13.8
50°-60°	12476.4	22.0
60°-70°	15950.1	28.1
70°-80°	7776.7	13.7
80°-90°	680.3	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°	56721.9	100.0
0°-180°	56721.9	100.0

Coefficient of Utilization



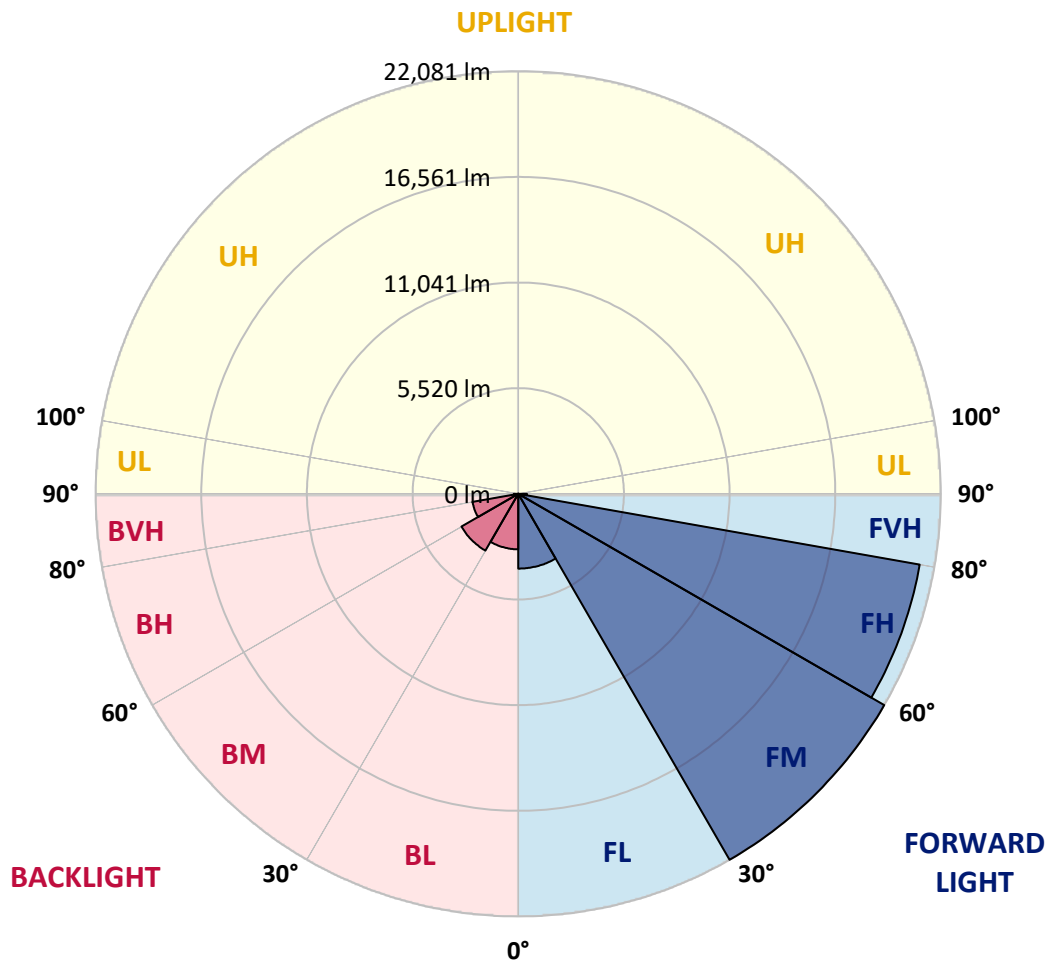
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3908.8	6.9			
FM (30°-60°)	22081.3	38.9			
FH (60°-80°)	21300.3	37.6			G5
FVH (80°-90°)	451.8	0.8			G3/500
BL (0°-30°)	2898.9	5.1	B4/5000		
BM (30°-60°)	3425.8	6.0	B3/5000		
BH (60°-80°)	2426.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	228.5	0.4			G3/500
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°	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8
2.5°	8107.5	8074.2	8114.1	8074.2	8253.8	8360.2	8393.5	8440.0	8606.3	8765.9
5°	7768.3	7622.0	7781.6	7834.8	7848.1	8027.7	8213.9	8247.2	8333.6	8593.0
7.5°	7203.0	7369.2	7309.4	7469.0	7635.3	7814.8	8120.8	8034.3	8353.6	8599.6
10°	7083.2	7096.5	7163.0	7222.9	7369.2	7602.0	8027.7	7974.5	8300.4	8825.8
12.5°	7203.0	7203.0	7183.0	7136.4	7302.7	7528.9	7868.0	7894.7	8406.8	8892.3
15°	7622.0	7701.8	7488.9	7522.2	7455.7	7528.9	7828.1	7888.0	8446.7	8945.5
17.5°	8646.2	8619.6	8366.9	8014.4	7721.7	7675.2	7881.3	7947.9	8406.8	9098.5
20°	9643.8	9590.6	9151.7	8785.9	8207.2	7934.6	7967.8	7974.5	8473.3	9198.2
22.5°	10754.6	10894.2	10415.4	9670.4	8952.1	8273.8	8140.7	8247.2	8626.3	9251.4
25°	12497.1	12197.8	11785.4	10807.8	9650.5	8799.2	8426.7	8479.9	8772.6	9384.5
27.5°	13754.1	13634.4	12989.3	12197.8	10628.2	9211.5	8579.7	8679.5	9038.6	9377.8
30°	14964.6	14964.6	14572.2	13388.3	11659.1	9903.2	8905.6	8859.0	8912.2	9364.5
32.5°	16381.2	16188.4	15623.0	14838.2	12956.0	10535.1	9165.0	9178.3	9178.3	9610.6
35°	17126.1	17438.7	17059.6	15782.7	13947.0	11585.9	9790.2	9690.4	9617.2	9883.3
37.5°	18216.9	18403.1	18004.1	17252.5	15177.4	12437.2	10342.2	10262.4	9836.7	10096.1
40°	18875.3	18842.1	18828.8	18482.9	16806.9	13441.5	11153.6	10947.4	10375.4	10847.7
42.5°	19247.8	19181.3	19999.3	19786.5	18343.3	14918.0	12171.2	12058.1	11426.3	12184.5
45°	19666.8	20159.0	20830.7	21429.3	20132.4	16993.1	13893.8	13734.2	13168.8	14133.2
47.5°	20032.6	20637.8	21495.8	22134.3	21748.5	19247.8	16022.1	16062.0	15689.5	16680.5
50°	20644.5	20704.3	21868.3	23158.5	23457.8	21329.5	18882.0	18815.5	18649.2	20039.2
52.5°	20458.3	20637.8	22107.7	23757.1	24249.3	23531.0	21954.7	22154.2	21934.8	23684.0
55°	17425.4	17964.2	21961.4	24389.0	26124.8	26018.4	25905.4	25772.3	25759.0	27780.9
57.5°	16048.7	16487.6	19347.5	25087.3	28133.4	28918.2	29649.8	29796.2	29789.5	32230.4
60°	15144.2	15596.4	18290.1	24708.2	29842.7	32715.9	34119.3	34139.2	34099.3	36985.8
62.5°	13375.0	13814.0	16461.0	22633.1	30314.9	36221.0	39346.9	39606.3	37777.3	41082.8
65°	11246.7	11605.9	13940.3	19460.6	29057.9	38449.0	43277.6	42971.6	40876.6	43423.9
67°	9198.2	9437.7	11712.3	16707.1	25772.3	37378.2	44414.9	44667.6	42306.6	43523.7
67.5°	8613.0	8832.4	10980.7	15769.3	24522.0	36566.8	44454.8	44414.9	42333.2	43543.6
70°	5979.2	6072.3	7482.3	10847.7	18063.9	30893.6	41209.1	41302.3	40557.4	41182.5
72.5°	3964.0	4103.6	5001.5	6837.2	10648.1	22480.1	34445.2	35442.8	34970.6	33766.8
75°	2554.0	2633.8	3272.3	4070.4	5240.9	12803.0	25446.4	26111.5	25027.4	20883.9
77.5°	1429.9	1516.4	1975.3	2474.1	2554.0	5327.4	14292.8	15117.6	12809.7	8872.3
80°	891.2	1004.3	1489.8	1469.9	1217.1	1955.4	5892.7	6311.7	5121.2	3052.8
82.5°	671.7	758.2	1150.6	1030.9	685.0	871.3	2208.1	2367.7	1875.6	1177.2
85°	458.9	578.6	831.4	638.5	359.2	419.0	877.9	944.4	858.0	572.0
87.5°	166.3	246.1	432.3	319.2	159.6	126.4	286.0	319.2	305.9	259.4
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°
8825.8	0°	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8	8825.8
8905.6	2.5°	9032.0	9125.1	9171.6	9444.3	9557.4	9537.4	9564.0	9603.9	9643.8	9697.1
9018.7	5°	9105.1	9391.1	9544.1	9863.3	10076.2	9983.0	10102.8	10069.5	10022.9	10016.3
9224.8	7.5°	9344.6	9710.4	10169.3	10255.7	10348.8	10116.1	9916.5	9643.8	9577.3	9344.6
9397.8	10°	9770.2	10069.5	10628.2	10661.4	10249.1	9650.5	9204.9	8639.6	8632.9	8293.7
9663.8	12.5°	10175.9	10515.1	10967.4	10774.5	9790.2	8972.1	8247.2	7628.6	7369.2	7196.3
9823.4	15°	10428.7	10987.3	11226.8	10395.4	8985.4	7881.3	6943.6	6278.5	6012.4	5886.1
10022.9	17.5°	10661.4	11439.6	11333.2	9730.3	7994.4	6757.3	5640.0	5061.4	4988.2	4895.1
10342.2	20°	10980.7	11605.9	10954.1	8865.7	6870.4	5307.4	4595.8	4316.5	4383.0	4422.9
10375.4	22.5°	11280.0	11692.3	10475.2	7921.3	5427.2	4203.4	3850.9	3910.7	4010.5	4143.5
10455.3	25°	11413.0	11832.0	9830.1	6617.7	4130.2	3538.3	3458.5	3558.2	3724.5	3731.2
10568.3	27.5°	11499.5	11732.2	9051.9	5347.3	3265.6	3092.7	3212.4	3285.6	3305.5	3385.3
10807.8	30°	11652.4	11526.1	8067.6	3824.3	2740.2	2746.8	2899.8	2899.8	2899.8	2959.7
11047.2	32.5°	11918.5	11386.4	6917.0	2793.4	2361.1	2573.9	2534.0	2520.7	2494.1	2420.9
11353.1	35°	12084.7	11007.3	5460.4	2068.4	2121.6	2361.1	2347.8	2141.6	1795.8	1622.8
12131.3	37.5°	12430.6	10814.4	4017.2	1596.2	1982.0	2254.7	2181.5	1682.7	1303.6	1137.3
13095.7	40°	13175.5	10688.0	2780.1	1396.7	1888.9	2201.5	1948.7	1436.6	997.6	705.0
14585.5	42.5°	14086.7	10694.7	1888.9	1316.9	1895.5	2314.5	1875.6	1230.4	705.0	565.3
16574.1	45°	15310.4	10594.9	1296.9	1316.9	2015.2	2500.7	1922.1	1117.4	685.0	718.3
19068.2	47.5°	16627.3	10681.4	964.4	1197.2	2035.2	2507.4	1755.8	1097.4	658.4	831.4
21781.8	50°	18163.7	10767.9	798.1	1104.1	2041.8	2427.6	1616.2	1070.8	685.0	877.9
24894.4	52.5°	19746.6	11040.5	678.4	1044.2	2121.6	2394.3	1616.2	1110.7	685.0	764.9
28858.4	55°	22107.7	11738.9	977.7	1303.6	2414.3	2613.8	1988.6	1556.3	957.7	984.3
32656.1	57.5°	24714.8	12457.2	1090.8	1370.1	2480.8	2354.4	2141.6	1715.9	1010.9	1017.6
35609.1	60°	26430.8	12483.8	1084.1	1336.8	2321.2	2035.2	2095.0	1809.1	1030.9	871.3
37438.1	62.5°	27115.8	11672.4	1130.7	1336.8	2161.6	1902.2	2148.2	1948.7	1064.1	1090.8
37956.8	65°	26337.7	9996.3	1090.8	1197.2	1902.2	1702.6	2161.6	1975.3	1163.9	1097.4
37025.7	67°	25120.6	8613.0	1110.7	1137.3	1769.1	1616.2	2274.6	2075.1	1350.1	1316.9
36540.2	67.5°	24774.7	8247.2	1104.1	1104.1	1722.6	1589.6	2301.2	2075.1	1376.7	1363.4
32250.3	70°	21835.0	6684.2	1130.7	1090.8	1523.1	1509.8	2447.5	2188.2	1582.9	1596.2
23690.6	72.5°	16620.7	5068.0	1124.0	1090.8	1323.5	1443.3	2467.5	2261.3	1722.6	1596.2
13268.6	75°	9444.3	3032.8	991.0	951.1	1044.2	1257.0	2307.9	2154.9	1676.0	1429.9
5300.8	77.5°	3904.1	1563.0	911.2	858.0	864.6	1024.2	1922.1	2008.6	1596.2	1217.1
1769.1	80°	1456.6	937.8	731.6	685.0	665.1	751.6	1370.1	1602.9	1363.4	997.6
778.2	82.5°	758.2	585.3	498.8	498.8	452.3	478.9	738.3	1064.1	1030.9	685.0
312.6	85°	385.8	332.5	286.0	279.3	252.7	226.1	372.5	631.8	591.9	379.1
139.7	87.5°	206.2	186.2	119.7	113.1	93.1	59.9	66.5	126.4	206.2	166.3
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>
8825.8
9750.3
10076.2
9424.4
8280.4
7156.4
5859.5
4941.6
4376.3
4070.4
3797.7
3458.5
3026.2
2381.0
1702.6
1130.7
685.0
552.0
731.6
924.5
1017.6
784.8
1037.5
984.3
897.9
1104.1
1077.5
1296.9
1336.8
1476.5
1416.6
1277.0
1150.6
911.2
538.7
312.6
119.7
0.0

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