

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: EPHEBUS

Report Number: P574727

Luminaire Tested: **EPH-VN-07-730-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-730-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

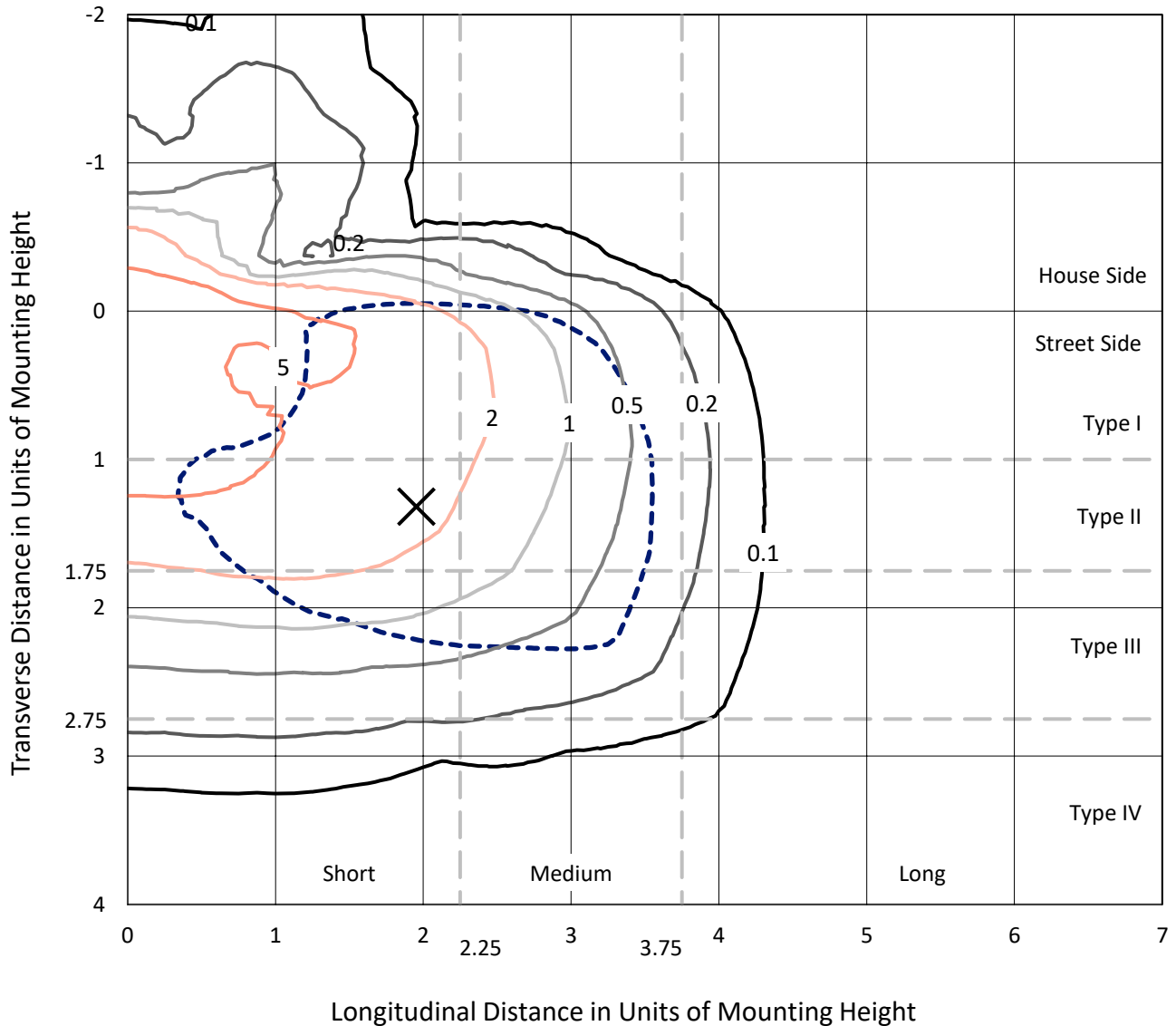
Lumens per Lamp: N/A
Luminaire Lumens: 50494.7 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

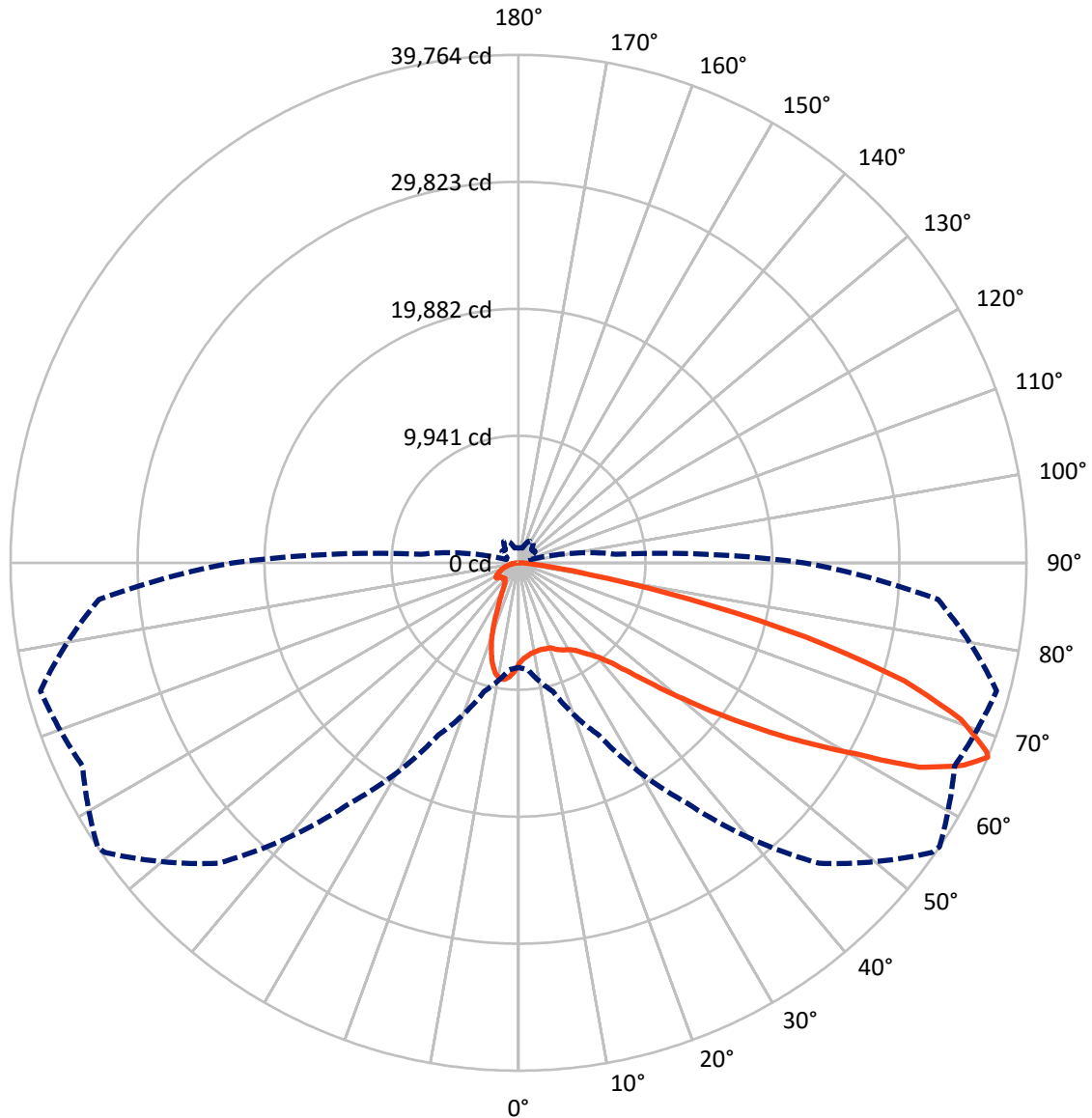
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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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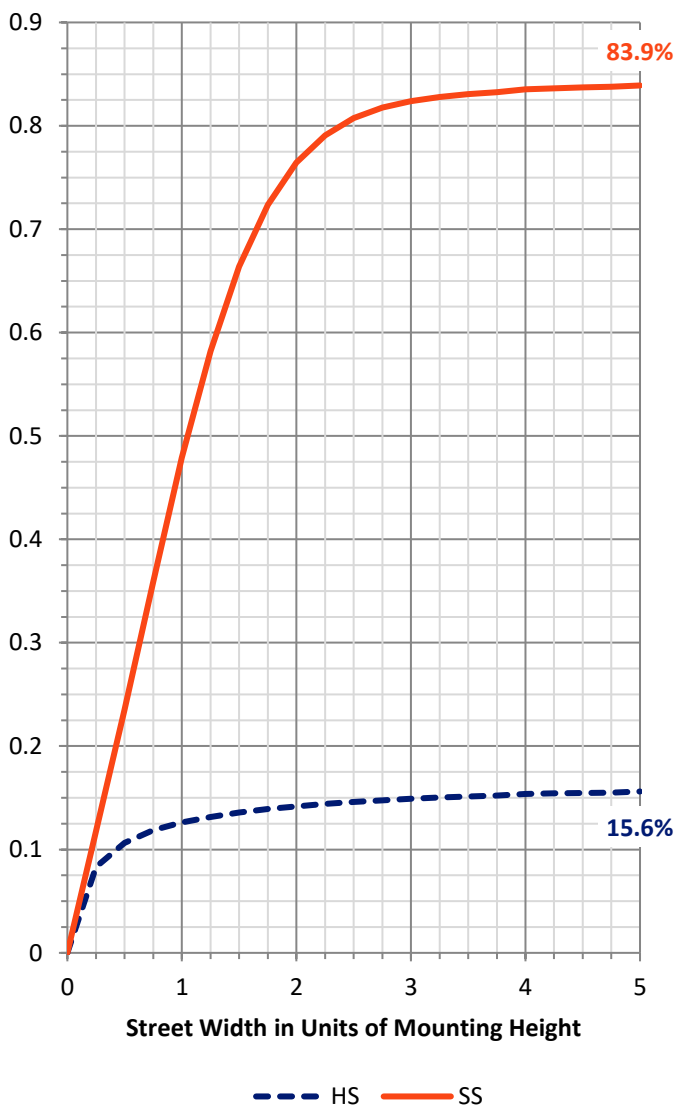
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7993.8	0.0	7993.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	42500.8	0.0	42500.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	50494.7	0.0	50494.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.9	1.5
10°-20°	2064.9	4.1
20°-30°	3238.4	6.4
30°-40°	4622.9	9.2
40°-50°	6977.3	13.8
50°-60°	11106.7	22.0
60°-70°	14199.0	28.1
70°-80°	6923.0	13.7
80°-90°	605.6	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°	50494.7	100.0
0°-180°	50494.7	100.0

Coefficient of Utilization

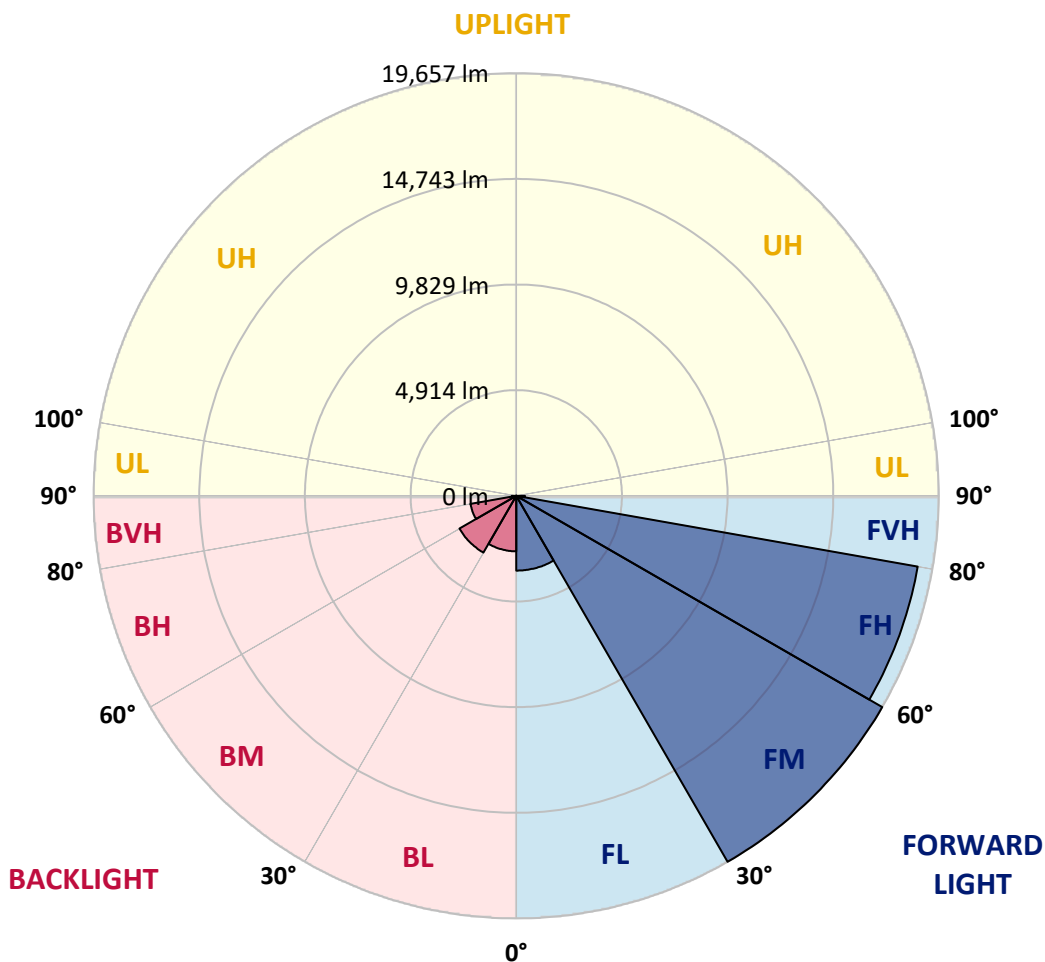


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3479.7	6.9			
FM (30°-60°)	19657.1	38.9			
FH (60°-80°)	18961.9	37.6			G5
FVH (80°-90°)	402.2	0.8			G3/500
BL (0°-30°)	2580.6	5.1	B4/5000		
BM (30°-60°)	3049.7	6.0	B3/5000		
BH (60°-80°)	2160.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	203.4	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°	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8
2.5°	7217.4	7187.8	7223.3	7187.8	7347.7	7442.4	7472.0	7513.4	7661.4	7803.5
5°	6915.4	6785.2	6927.3	6974.6	6986.5	7146.3	7312.1	7341.7	7418.7	7649.6
7.5°	6412.2	6560.2	6506.9	6649.0	6797.0	6956.9	7229.2	7152.3	7436.5	7655.5
10°	6305.6	6317.4	6376.6	6429.9	6560.2	6767.4	7146.3	7099.0	7389.1	7856.8
12.5°	6412.2	6412.2	6394.4	6353.0	6501.0	6702.3	7004.2	7027.9	7483.8	7916.0
15°	6785.2	6856.2	6666.8	6696.4	6637.2	6702.3	6968.7	7022.0	7519.4	7963.4
17.5°	7697.0	7673.3	7448.3	7134.5	6874.0	6832.5	7016.1	7075.3	7483.8	8099.6
20°	8585.1	8537.7	8147.0	7821.3	7306.2	7063.5	7093.1	7099.0	7543.0	8188.4
22.5°	9573.9	9698.2	9271.9	8608.8	7969.3	7365.4	7247.0	7341.7	7679.2	8235.8
25°	11125.1	10858.7	10491.6	9621.2	8591.0	7833.2	7501.6	7549.0	7809.5	8354.2
27.5°	12244.1	12137.5	11563.2	10858.7	9461.4	8200.2	7637.8	7726.6	8046.3	8348.3
30°	13321.7	13321.7	12972.4	11918.5	10379.1	8816.0	7927.9	7886.4	7933.8	8336.4
32.5°	14582.8	14411.1	13907.8	13209.2	11533.6	9378.5	8158.8	8170.6	8170.6	8555.5
35°	15245.9	15524.2	15186.7	14049.9	12415.8	10313.9	8715.3	8626.5	8561.4	8798.2
37.5°	16216.9	16382.7	16027.5	15358.4	13511.2	11071.8	9206.8	9135.7	8756.8	8987.7
40°	16803.1	16773.5	16761.6	16453.8	14961.7	11965.8	9929.1	9745.6	9236.4	9656.7
42.5°	17134.6	17075.4	17803.7	17614.2	16329.4	13280.2	10835.0	10734.3	10171.8	10846.8
45°	17507.7	17945.8	18543.8	19076.7	17922.1	15127.5	12368.4	12226.3	11723.1	12581.6
47.5°	17833.3	18372.1	19135.9	19704.3	19360.9	17134.6	14263.1	14298.6	13967.0	14849.2
50°	18378.0	18431.3	19467.4	20616.0	20882.5	18987.8	16809.0	16749.8	16601.8	17839.2
52.5°	18212.2	18372.1	19680.6	21148.9	21587.1	20947.6	19544.4	19722.0	19526.6	21083.8
55°	15512.4	15991.9	19550.3	21711.4	23256.7	23162.0	23061.3	22942.9	22931.1	24731.0
57.5°	14286.8	14677.5	17223.5	22333.1	25044.8	25743.4	26394.7	26525.0	26519.0	28692.0
60°	13481.5	13884.2	16282.1	21995.6	26566.4	29124.2	30373.4	30391.2	30355.7	32925.3
62.5°	11906.6	12297.4	14653.9	20148.3	26986.8	32244.4	35027.2	35258.1	33629.9	36572.5
65°	10012.0	10331.7	12409.9	17324.1	25867.8	34227.9	38526.3	38254.0	36388.9	38656.6
67°	8188.4	8401.5	10426.4	14872.9	22942.9	33274.6	39538.8	39763.8	37661.9	38745.4
67.5°	7667.4	7862.8	9775.2	14038.1	21829.8	32552.3	39574.3	39538.8	37685.6	38763.1
70°	5322.8	5405.6	6660.8	9656.7	16080.8	27501.9	36685.0	36767.9	36104.7	36661.3
72.5°	3528.8	3653.1	4452.4	6086.5	9479.1	20012.1	30663.6	31551.7	31131.3	30059.6
75°	2273.6	2344.6	2913.0	3623.5	4665.6	11397.4	22652.8	23244.9	22279.8	18591.2
77.5°	1273.0	1349.9	1758.5	2202.5	2273.6	4742.5	12723.7	13457.9	11403.4	7898.3
80°	793.4	894.0	1326.2	1308.5	1083.5	1740.7	5245.8	5618.8	4559.0	2717.6
82.5°	598.0	675.0	1024.3	917.7	609.8	775.6	1965.7	2107.8	1669.7	1048.0
85°	408.5	515.1	740.1	568.4	319.7	373.0	781.5	840.7	763.8	509.2
87.5°	148.0	219.1	384.8	284.2	142.1	112.5	254.6	284.2	272.4	230.9
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°
7856.8	0°	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8	7856.8
7927.9	2.5°	8040.4	8123.3	8164.7	8407.5	8508.1	8490.4	8514.0	8549.6	8585.1	8632.5
8028.5	5°	8105.5	8360.1	8496.3	8780.5	8969.9	8887.0	8993.6	8964.0	8922.6	8916.6
8212.1	7.5°	8318.7	8644.3	9052.8	9129.8	9212.7	9005.5	8827.8	8585.1	8525.9	8318.7
8366.0	10°	8697.6	8964.0	9461.4	9491.0	9123.9	8591.0	8194.3	7691.1	7685.1	7383.2
8602.8	12.5°	9058.7	9360.7	9763.3	9591.6	8715.3	7987.1	7341.7	6791.1	6560.2	6406.3
8744.9	15°	9283.7	9781.1	9994.2	9254.1	7998.9	7016.1	6181.3	5589.2	5352.4	5239.9
8922.6	17.5°	9491.0	10183.7	10089.0	8662.1	7116.7	6015.5	5020.8	4505.7	4440.6	4357.7
9206.8	20°	9775.2	10331.7	9751.5	7892.4	6116.1	4724.8	4091.2	3842.6	3901.8	3937.3
9236.4	22.5°	10041.6	10408.7	9325.2	7051.6	4831.3	3741.9	3428.1	3481.4	3570.2	3688.6
9307.4	25°	10160.0	10533.0	8750.9	5891.1	3676.8	3149.8	3078.8	3167.6	3315.6	3321.5
9408.1	27.5°	10237.0	10444.2	8058.1	4760.3	2907.1	2753.1	2859.7	2924.9	2942.6	3013.7
9621.2	30°	10373.2	10260.7	7181.9	3404.4	2439.3	2445.3	2581.4	2581.4	2581.4	2634.7
9834.4	32.5°	10610.0	10136.3	6157.6	2486.7	2101.9	2291.3	2255.8	2244.0	2220.3	2155.2
10106.7	35°	10758.0	9798.8	4860.9	1841.4	1888.7	2101.9	2090.0	1906.5	1598.6	1444.7
10799.4	37.5°	11065.9	9627.1	3576.1	1421.0	1764.4	2007.1	1942.0	1497.9	1160.5	1012.4
11658.0	40°	11729.0	9514.6	2474.9	1243.4	1681.5	1959.8	1734.8	1278.9	888.1	627.6
12984.2	42.5°	12540.1	9520.6	1681.5	1172.3	1687.4	2060.4	1669.7	1095.3	627.6	503.3
14754.5	45°	13629.6	9431.8	1154.5	1172.3	1794.0	2226.2	1711.1	994.7	609.8	639.4
16974.8	47.5°	14801.9	9508.7	858.5	1065.7	1811.7	2232.1	1563.1	976.9	586.2	740.1
19390.5	50°	16169.6	9585.7	710.5	982.8	1817.7	2161.1	1438.7	953.2	609.8	781.5
22161.4	52.5°	17578.7	9828.4	603.9	929.6	1888.7	2131.5	1438.7	988.8	609.8	680.9
25690.1	55°	19680.6	10450.1	870.4	1160.5	2149.2	2326.9	1770.3	1385.5	852.6	876.3
29070.9	57.5°	22001.5	11089.6	971.0	1219.7	2208.4	2095.9	1906.5	1527.6	900.0	905.9
31699.7	60°	23529.1	11113.2	965.1	1190.1	2066.3	1811.7	1865.0	1610.4	917.7	775.6
33327.9	62.5°	24138.9	10390.9	1006.5	1190.1	1924.2	1693.3	1912.4	1734.8	947.3	971.0
33789.7	65°	23446.2	8898.9	971.0	1065.7	1693.3	1515.7	1924.2	1758.5	1036.1	976.9
32960.8	67°	22362.7	7667.4	988.8	1012.4	1574.9	1438.7	2024.9	1847.3	1201.9	1172.3
32528.6	67.5°	22054.8	7341.7	982.8	982.8	1533.5	1415.1	2048.6	1847.3	1225.6	1213.8
28709.7	70°	19437.8	5950.4	1006.5	971.0	1355.9	1344.0	2178.8	1947.9	1409.1	1421.0
21089.7	72.5°	14796.0	4511.6	1000.6	971.0	1178.2	1284.8	2196.6	2013.1	1533.5	1421.0
11811.9	75°	8407.5	2699.9	882.2	846.7	929.6	1119.0	2054.5	1918.3	1492.0	1273.0
4718.8	77.5°	3475.5	1391.4	811.1	763.8	769.7	911.8	1711.1	1788.1	1421.0	1083.5
1574.9	80°	1296.6	834.8	651.3	609.8	592.1	669.0	1219.7	1426.9	1213.8	888.1
692.7	82.5°	675.0	521.0	444.1	444.1	402.6	426.3	657.2	947.3	917.7	609.8
278.3	85°	343.4	296.0	254.6	248.7	225.0	201.3	331.6	562.5	526.9	337.5
124.3	87.5°	183.5	165.8	106.6	100.7	82.9	53.3	59.2	112.5	183.5	148.0
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



<u>180°</u>
7856.8
8679.8
8969.9
8389.7
7371.3
6370.7
5216.2
4399.1
3895.9
3623.5
3380.7
3078.8
2693.9
2119.6
1515.7
1006.5
609.8
491.4
651.3
823.0
905.9
698.6
923.6
876.3
799.3
982.8
959.2
<i>1154.5</i>
1190.1
1314.4
1261.1
1136.8
1024.3
811.1
479.6
278.3
106.6
0.0

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