

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: P574746

Luminaire Tested: **EPH-VN-08-750-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574746
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

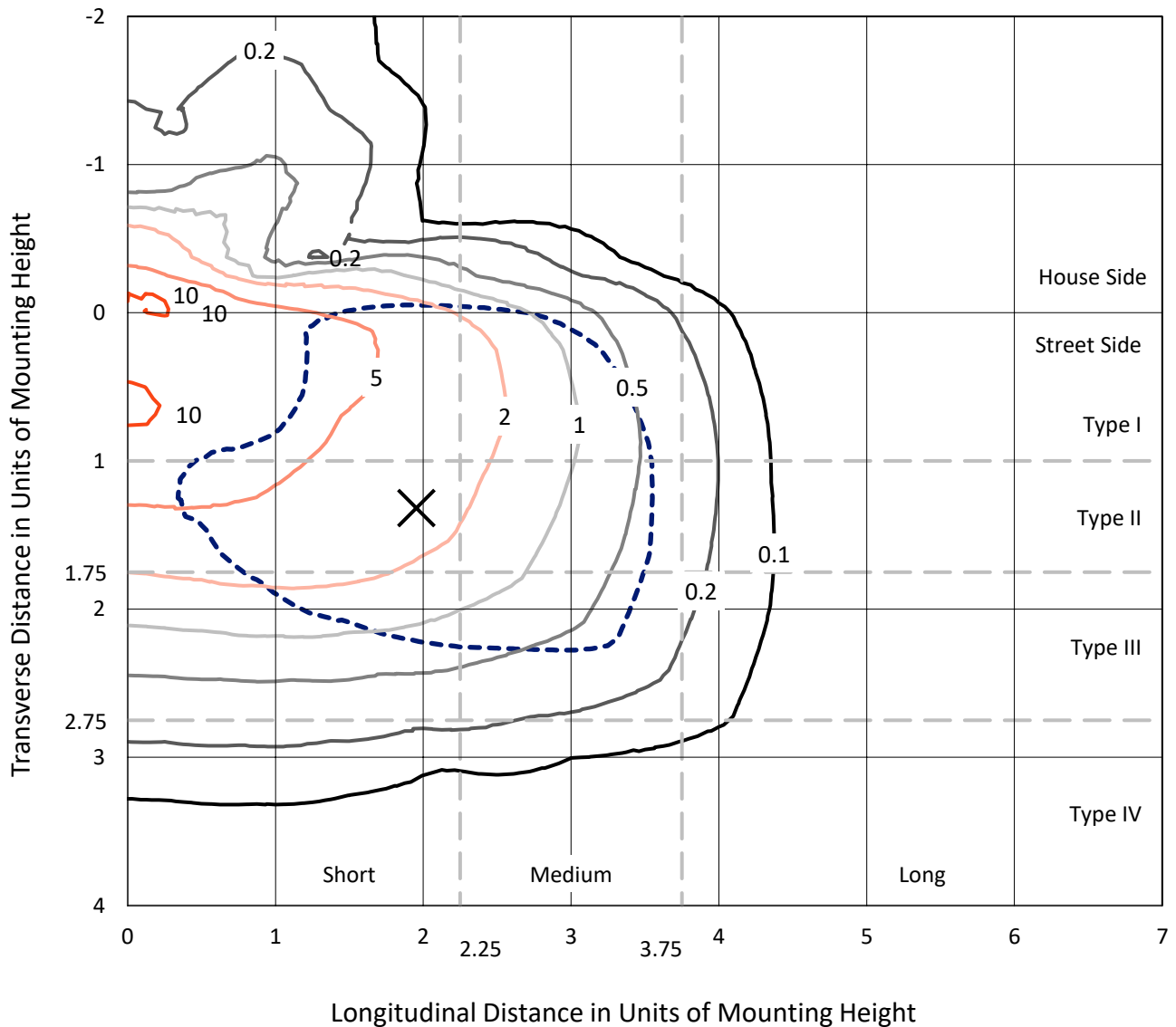
Lumens per Lamp: N/A
Luminaire Lumens: 56014.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

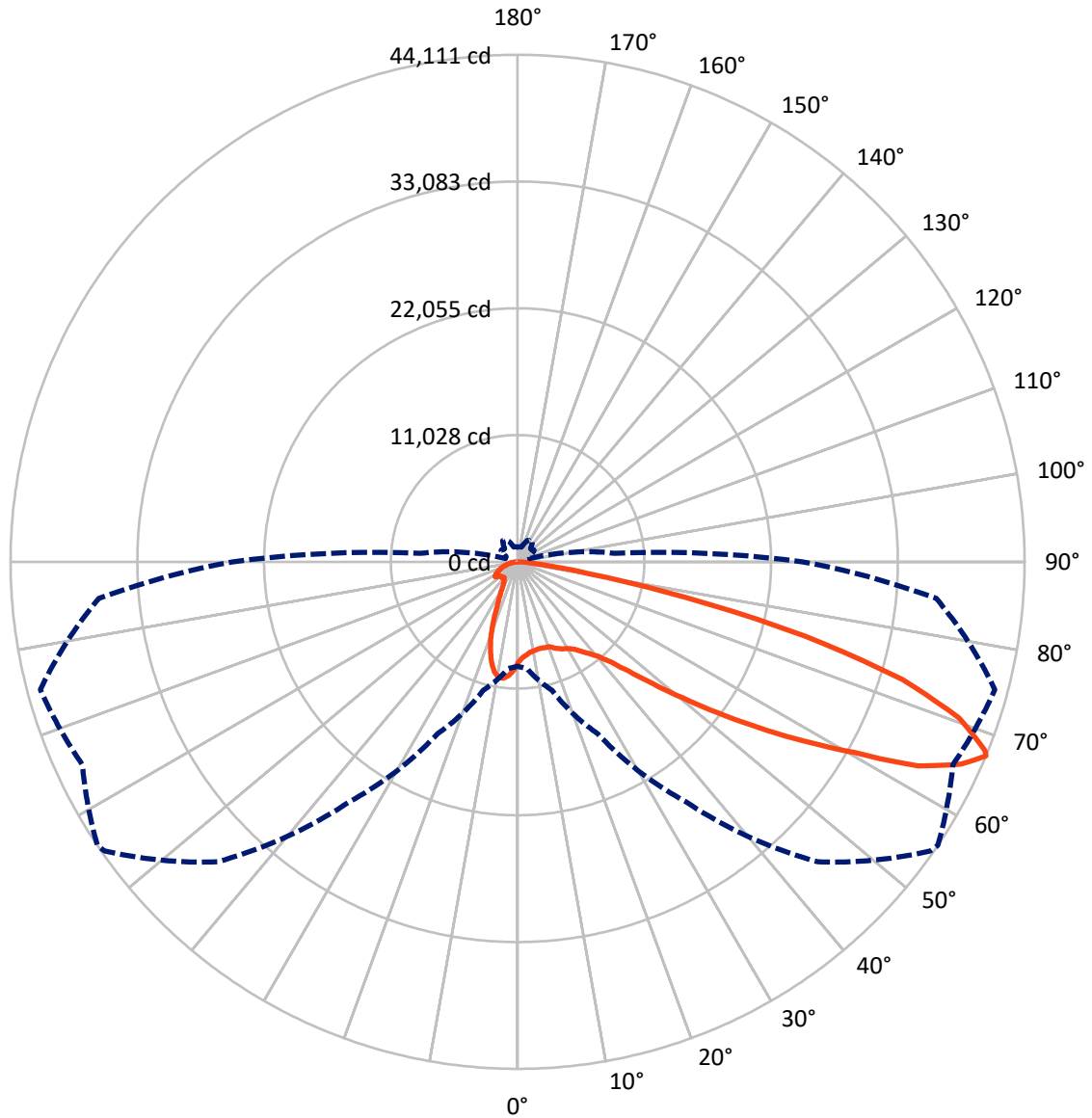
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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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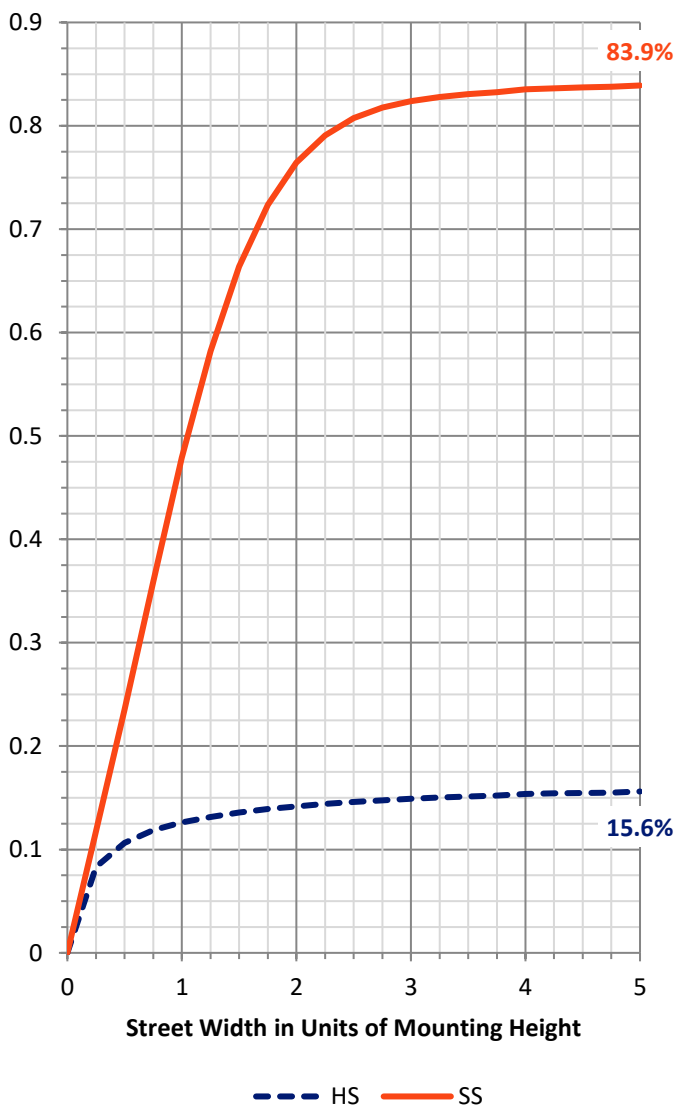
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8867.7	0.0	8867.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	47147.1	0.0	47147.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	56014.8	0.0	56014.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.7	1.5
10°-20°	2290.7	4.1
20°-30°	3592.5	6.4
30°-40°	5128.3	9.2
40°-50°	7740.1	13.8
50°-60°	12320.8	22.0
60°-70°	15751.2	28.1
70°-80°	7679.8	13.7
80°-90°	671.8	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°	56014.8	100.0
0°-180°	56014.8	100.0

Coefficient of Utilization

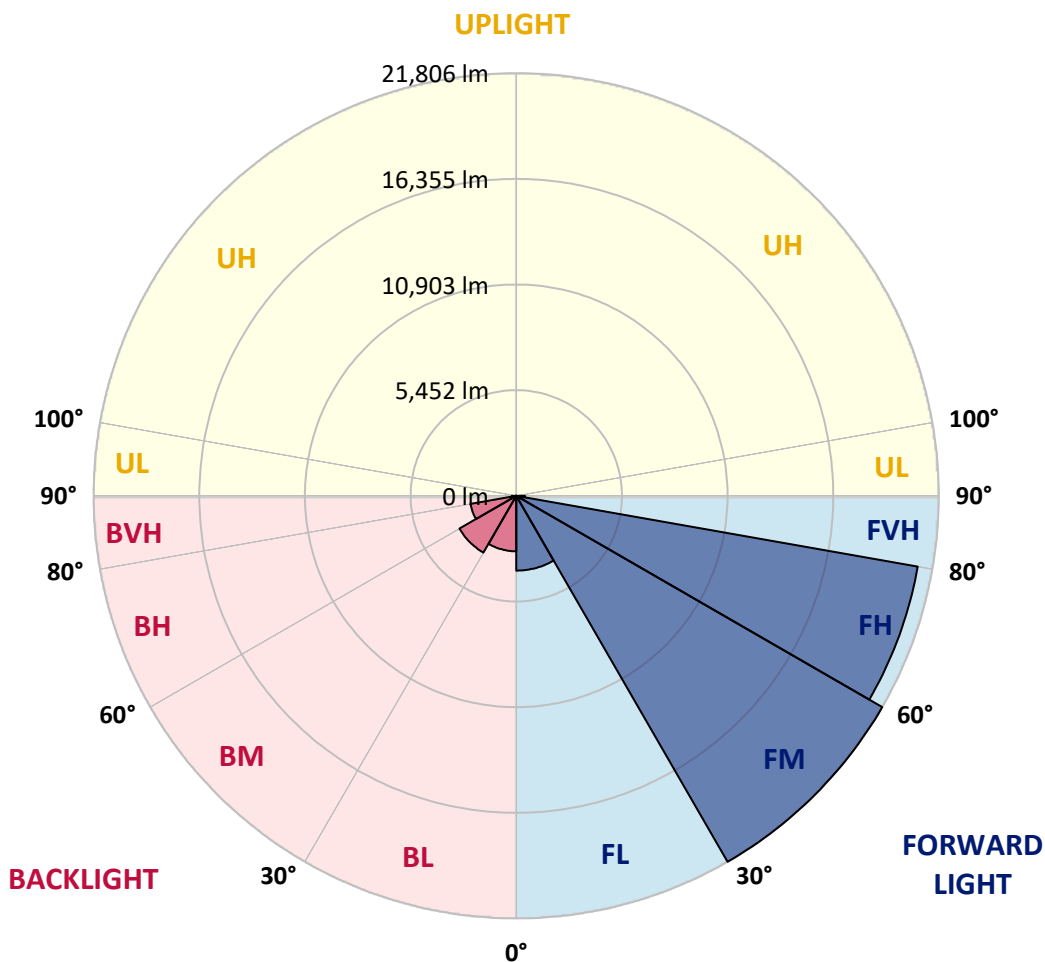


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3860.1	6.9			
FM (30°-60°)	21806.1	38.9			
FH (60°-80°)	21034.8	37.6			G5
FVH (80°-90°)	446.2	0.8			G3/500
BL (0°-30°)	2862.7	5.1	B4/5000		
BM (30°-60°)	3383.1	6.0	B3/5000		
BH (60°-80°)	2396.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	225.7	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°	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7
2.5°	8006.4	7973.6	8013.0	7973.6	8150.9	8256.0	8288.8	8334.8	8499.0	8656.6
5°	7671.4	7526.9	7684.6	7737.1	7750.3	7927.6	8111.5	8144.3	8229.7	8485.9
7.5°	7113.2	7277.4	7218.2	7375.9	7540.1	7717.4	8019.5	7934.2	8249.4	8492.4
10°	6994.9	7008.1	7073.7	7132.9	7277.4	7507.2	7927.6	7875.0	8196.9	8715.7
12.5°	7113.2	7113.2	7093.5	7047.5	7211.7	7435.0	7770.0	7796.2	8302.0	8781.4
15°	7526.9	7605.8	7395.6	7428.4	7362.7	7435.0	7730.5	7789.7	8341.4	8834.0
17.5°	8538.4	8512.1	8262.6	7914.5	7625.5	7579.5	7783.1	7848.8	8302.0	8985.0
20°	9523.6	9471.1	9037.6	8676.3	8104.9	7835.6	7868.5	7875.0	8367.6	9083.6
22.5°	10620.5	10758.4	10285.5	9549.9	8840.5	8170.6	8039.2	8144.3	8518.7	9136.1
25°	12341.3	12045.7	11638.5	10673.0	9530.2	8689.5	8321.7	8374.2	8663.2	9267.5
27.5°	13582.6	13464.4	12827.3	12045.7	10495.7	9096.7	8472.7	8571.3	8925.9	9260.9
30°	14778.0	14778.0	14390.5	13221.4	11513.7	9779.8	8794.6	8748.6	8801.1	9247.8
32.5°	16177.0	15986.5	15428.3	14653.2	12794.5	10403.7	9050.7	9063.9	9063.9	9490.8
35°	16912.6	17221.3	16846.9	15585.9	13773.1	11441.5	9668.1	9569.6	9497.3	9760.1
37.5°	17989.8	18173.7	17779.6	17037.4	14988.2	12282.2	10213.3	10134.4	9714.1	9970.2
40°	18640.0	18607.2	18594.0	18252.5	16597.4	13273.9	11014.6	10810.9	10246.1	10712.4
42.5°	19007.8	18942.1	19750.0	19539.8	18114.6	14732.0	12019.5	11907.8	11283.8	12032.6
45°	19421.6	19907.6	20571.0	21162.1	19881.4	16781.3	13720.6	13562.9	13004.7	13957.0
47.5°	19782.8	20380.5	21227.8	21858.3	21477.4	19007.8	15822.3	15861.7	15493.9	16472.6
50°	20387.1	20446.2	21595.6	22869.8	23165.4	21063.6	18646.6	18580.9	18416.7	19789.4
52.5°	20203.2	20380.5	21832.1	23460.9	23947.0	23237.6	21681.0	21878.0	21661.3	23388.7
55°	17208.2	17740.2	21687.6	24084.9	25799.1	25694.1	25582.4	25451.0	25437.9	27434.6
57.5°	15848.6	16282.1	19106.3	24774.5	27782.7	28557.7	29280.2	29424.7	29418.1	31828.6
60°	14955.4	15402.0	18062.0	24400.2	29470.7	32308.0	33693.9	33713.6	33674.2	36524.7
62.5°	13208.3	13641.8	16255.8	22350.9	29937.0	35769.4	38856.3	39112.5	37306.3	40570.6
65°	11106.5	11461.2	13766.5	19218.0	28695.6	37969.7	42738.0	42435.9	40367.0	42882.5
67°	9083.6	9320.0	11566.3	16498.8	25451.0	36912.2	43861.2	44110.8	41779.1	42981.1
67.5°	8505.6	8722.3	10843.8	15572.8	24216.3	36110.9	43900.6	43861.2	41805.4	43000.8
70°	5904.6	5996.6	7389.0	10712.4	17838.7	30508.4	40695.4	40787.3	40051.7	40669.1
72.5°	3914.5	4052.5	4939.1	6751.9	10515.4	22199.9	34015.7	35000.9	34534.6	33345.8
75°	2522.1	2600.9	3231.5	4019.6	5175.6	12643.4	25129.2	25786.0	24715.4	20623.6
77.5°	1412.1	1497.5	1950.7	2443.3	2522.1	5261.0	14114.7	14929.1	12650.0	8761.7
80°	880.1	991.8	1471.2	1451.5	1201.9	1931.0	5819.3	6233.0	5057.4	3014.7
82.5°	663.4	748.8	1136.3	1018.0	676.5	860.4	2180.6	2338.2	1852.2	1162.5
85°	453.2	571.4	821.0	630.5	354.7	413.8	867.0	932.7	847.3	564.8
87.5°	164.2	243.0	426.9	315.3	157.6	124.8	282.4	315.3	302.1	256.2
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°
8715.7	0°	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7
8794.6	2.5°	8919.4	9011.3	9057.3	9326.6	9438.2	9418.5	9444.8	9484.2	9523.6	9576.2
8906.2	5°	8991.6	9274.0	9425.1	9740.4	9950.5	9858.6	9976.8	9944.0	9898.0	9891.4
9109.8	7.5°	9228.1	9589.3	10042.5	10127.9	10219.8	9989.9	9792.9	9523.6	9457.9	9228.1
9280.6	10°	9648.4	9944.0	10495.7	10528.5	10121.3	9530.2	9090.1	8531.8	8525.3	8190.3
9543.3	12.5°	10049.1	10384.0	10830.6	10640.2	9668.1	8860.2	8144.3	7533.5	7277.4	7106.6
9701.0	15°	10298.6	10850.4	11086.8	10265.8	8873.4	7783.1	6857.0	6200.2	5937.5	5812.7
9898.0	17.5°	10528.5	11297.0	11191.9	9609.0	7894.7	6673.1	5569.7	4998.3	4926.0	4834.1
10213.3	20°	10843.8	11461.2	10817.5	8755.2	6784.8	5241.3	4538.5	4262.6	4328.3	4367.7
10246.1	22.5°	11139.3	11546.6	10344.6	7822.5	5359.5	4151.0	3802.9	3862.0	3960.5	4091.9
10324.9	25°	11270.7	11684.5	9707.5	6535.2	4078.7	3494.2	3415.4	3513.9	3678.1	3684.7
10436.6	27.5°	11356.1	11586.0	8939.1	5280.7	3224.9	3054.1	3172.3	3244.6	3264.3	3343.1
10673.0	30°	11507.2	11382.4	7967.0	3776.6	2706.0	2712.6	2863.7	2863.7	2863.7	2922.8
10909.5	32.5°	11769.9	11244.4	6830.7	2758.6	2331.6	2541.8	2502.4	2489.3	2463.0	2390.8
11211.6	35°	11934.1	10870.1	5392.3	2042.7	2095.2	2331.6	2318.5	2114.9	1773.4	1602.6
11980.0	37.5°	12275.6	10679.6	3967.1	1576.3	1957.3	2226.6	2154.3	1661.7	1287.3	1123.1
12932.4	40°	13011.2	10554.8	2745.4	1379.3	1865.3	2174.0	1924.4	1418.7	985.2	696.2
14403.6	42.5°	13911.0	10561.4	1865.3	1300.5	1871.9	2285.7	1852.2	1215.1	696.2	558.3
16367.5	45°	15119.6	10462.8	1280.8	1300.5	1990.1	2469.6	1898.2	1103.4	676.5	709.3
18830.5	47.5°	16420.0	10548.2	952.4	1182.2	2009.8	2476.1	1734.0	1083.7	650.2	821.0
21510.2	50°	17937.2	10633.6	788.2	1090.3	2016.4	2397.3	1596.0	1057.4	676.5	867.0
24584.1	52.5°	19500.4	10902.9	669.9	1031.2	2095.2	2364.5	1596.0	1096.9	676.5	755.3
28498.6	55°	21832.1	11592.5	965.5	1287.3	2384.2	2581.2	1963.8	1536.9	945.8	972.1
32248.9	57.5°	24406.7	12301.9	1077.2	1353.0	2449.9	2325.1	2114.9	1694.5	998.3	1004.9
35165.1	60°	26101.3	12328.2	1070.6	1320.2	2292.2	2009.8	2068.9	1786.5	1018.0	860.4
36971.3	62.5°	26777.8	11526.9	1116.6	1320.2	2134.6	1878.5	2121.5	1924.4	1050.9	1077.2
37483.6	65°	26009.3	9871.7	1077.2	1182.2	1878.5	1681.4	2134.6	1950.7	1149.4	1083.7
36564.1	67°	24807.4	8505.6	1096.9	1123.1	1747.1	1596.0	2246.3	2049.2	1333.3	1300.5
36084.6	67.5°	24465.8	8144.3	1090.3	1090.3	1701.1	1569.8	2272.5	2049.2	1359.6	1346.4
31848.3	70°	21562.8	6600.8	1116.6	1077.2	1504.1	1490.9	2417.0	2160.9	1563.2	1576.3
23395.3	72.5°	16413.5	5004.8	1110.0	1077.2	1307.0	1425.3	2436.7	2233.1	1701.1	1576.3
13103.2	75°	9326.6	2995.0	978.6	939.2	1031.2	1241.4	2279.1	2128.0	1655.1	1412.1
5234.7	77.5°	3855.4	1543.5	899.8	847.3	853.8	1011.5	1898.2	1983.5	1576.3	1201.9
1747.1	80°	1438.4	926.1	722.5	676.5	656.8	742.2	1353.0	1582.9	1346.4	985.2
768.5	82.5°	748.8	578.0	492.6	492.6	446.6	472.9	729.0	1050.9	1018.0	676.5
308.7	85°	380.9	328.4	282.4	275.9	249.6	223.3	367.8	624.0	584.6	374.4
137.9	87.5°	203.6	183.9	118.2	111.7	92.0	59.1	65.7	124.8	203.6	164.2
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>
8715.7
9628.7
9950.5
9306.9
8177.2
7067.2
5786.4
4880.0
4321.8
4019.6
3750.3
3415.4
2988.4
2351.3
1681.4
1116.6
676.5
545.1
722.5
913.0
1004.9
775.0
1024.6
972.1
886.7
1090.3
1064.0
<i>1280.8</i>
1320.2
1458.1
1399.0
1261.1
1136.3
899.8
532.0
308.7
118.2
0.0

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