

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: P574740

Luminaire Tested: **EPH-VN-08-740-U-T3R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574740
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-740-U-T3R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

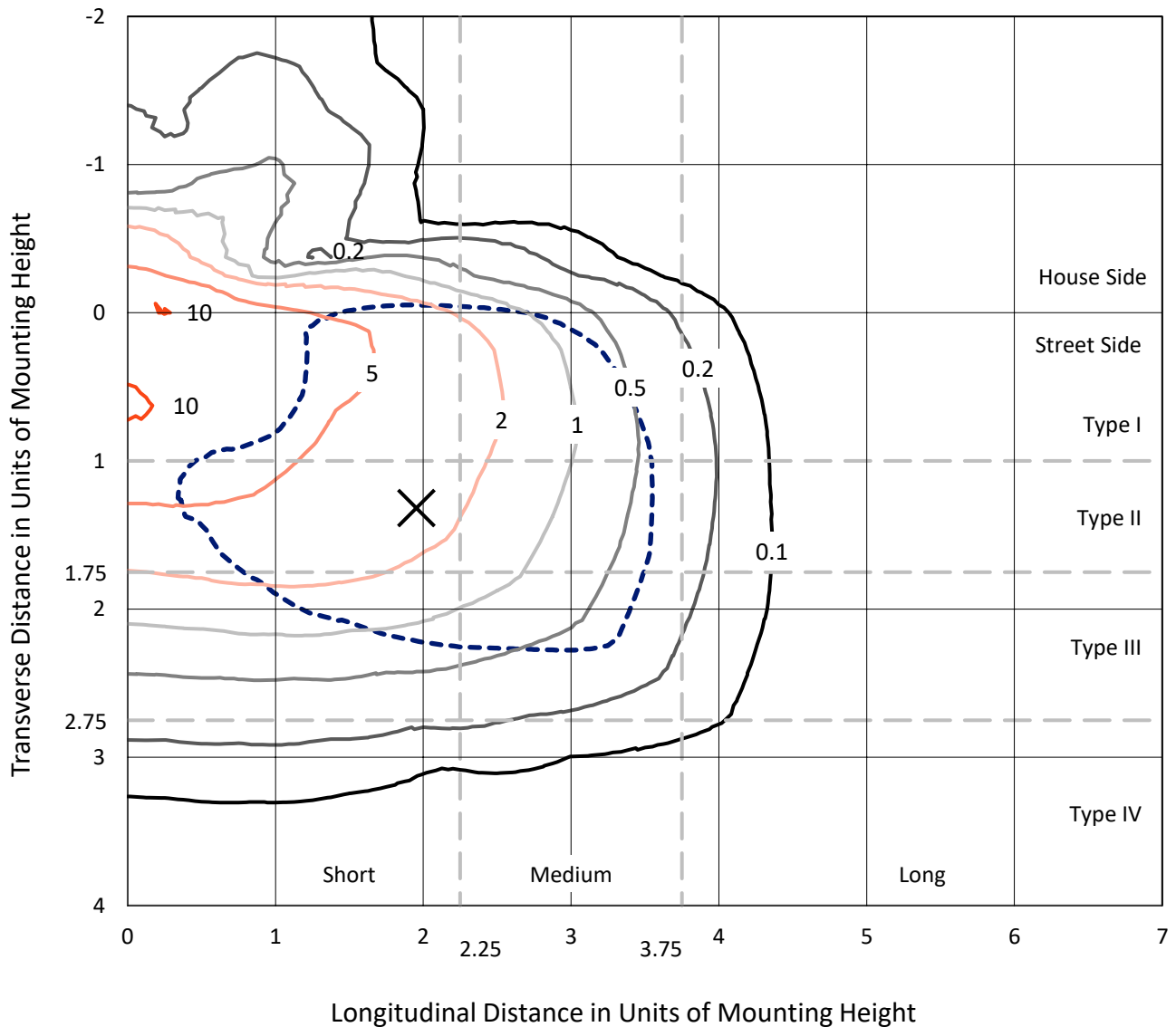
Lumens per Lamp: N/A
Luminaire Lumens: 54760.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

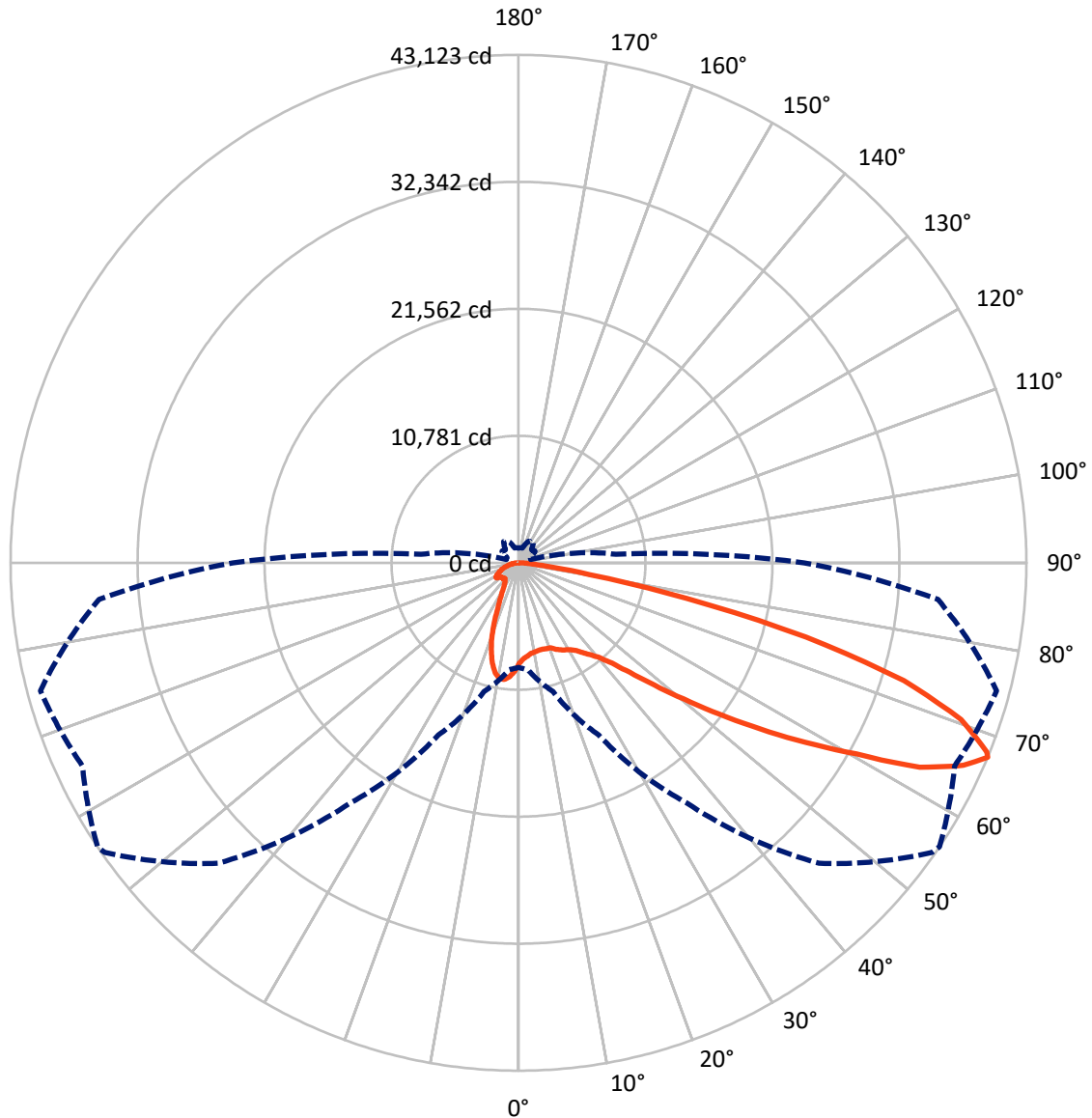
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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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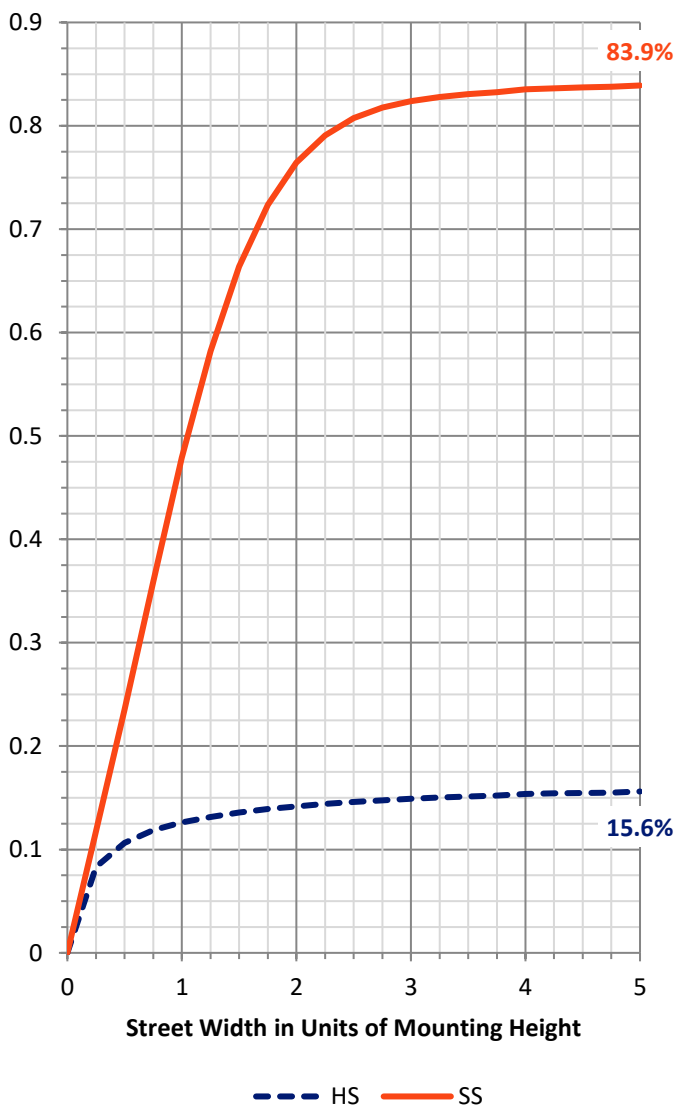
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8669.2	0.0	8669.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	46091.6	0.0	46091.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	54760.8	0.0	54760.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.9	1.5
10°-20°	2239.4	4.1
20°-30°	3512.0	6.4
30°-40°	5013.5	9.2
40°-50°	7566.8	13.8
50°-60°	12045.0	22.0
60°-70°	15398.6	28.1
70°-80°	7507.8	13.7
80°-90°	656.8	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°	54760.8	100.0
0°-180°	54760.8	100.0

Coefficient of Utilization

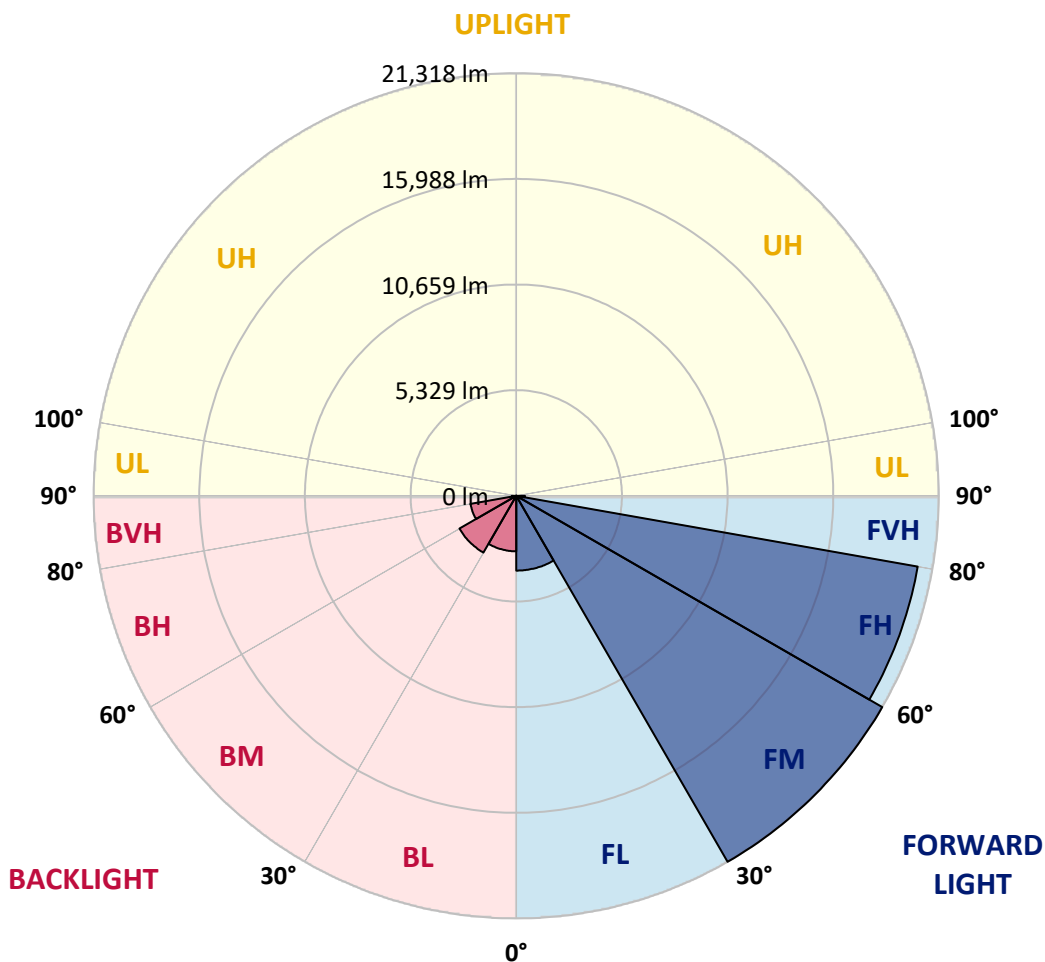


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3773.6	6.9			
FM (30°-60°)	21317.9	38.9			
FH (60°-80°)	20563.9	37.6			G5
FVH (80°-90°)	436.2	0.8			G3/500
BL (0°-30°)	2798.6	5.1	B4/5000		
BM (30°-60°)	3307.4	6.0	B3/5000		
BH (60°-80°)	2342.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	220.6	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°	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6
2.5°	7827.2	7795.1	7833.6	7795.1	7968.4	8071.2	8103.3	8148.2	8308.7	8462.8
5°	7499.7	7358.4	7512.5	7563.9	7576.7	7750.1	7929.9	7962.0	8045.5	8295.9
7.5°	6953.9	7114.4	7056.6	7210.7	7371.3	7544.6	7840.0	7756.5	8064.7	8302.3
10°	6838.3	6851.2	6915.4	6973.2	7114.4	7339.2	7750.1	7698.7	8013.4	8520.6
12.5°	6953.9	6953.9	6934.6	6889.7	7050.2	7268.5	7596.0	7621.7	8116.1	8584.8
15°	7358.4	7435.5	7230.0	7262.1	7197.9	7268.5	7557.5	7615.3	8154.6	8636.2
17.5°	8347.3	8321.6	8077.6	7737.3	7454.7	7409.8	7608.8	7673.1	8116.1	8783.9
20°	9310.4	9259.0	8835.3	8482.1	7923.5	7660.2	7692.3	7698.7	8180.3	8880.2
22.5°	10382.7	10517.5	10055.2	9336.1	8642.6	7987.7	7859.3	7962.0	8328.0	8931.6
25°	12065.0	11776.1	11378.0	10434.1	9316.8	8494.9	8135.4	8186.7	8469.3	9060.0
27.5°	13278.6	13163.0	12540.2	11776.1	10260.7	8893.0	8283.1	8379.4	8726.1	9053.6
30°	14447.2	14447.2	14068.3	12925.4	11256.0	9560.8	8597.7	8552.7	8604.1	9040.7
32.5°	15814.8	15628.6	15082.9	14325.2	12508.0	10170.8	8848.1	8860.9	8860.9	9278.3
35°	16534.0	16835.8	16469.8	15237.0	13464.8	11185.3	9451.7	9355.4	9284.7	9541.6
37.5°	17587.0	17766.8	17381.6	16656.0	14652.7	12007.2	9984.6	9907.6	9496.6	9747.0
40°	18222.7	18190.6	18177.8	17843.9	16225.8	12976.8	10768.0	10568.9	10016.7	10472.6
42.5°	18582.3	18518.1	19307.9	19102.4	17709.0	14402.2	11750.4	11641.2	11031.2	11763.2
45°	18986.8	19462.0	20110.5	20688.4	19436.3	16405.6	13413.4	13259.3	12713.5	13644.6
47.5°	19340.0	19924.3	20752.6	21369.0	20996.6	18582.3	15468.1	15506.6	15147.1	16103.8
50°	19930.7	19988.5	21112.1	22357.8	22646.8	20592.0	18229.1	18164.9	18004.4	19346.4
52.5°	19750.9	19924.3	21343.3	22935.7	23410.9	22717.4	21195.6	21388.2	21176.4	22865.1
55°	16822.9	17343.0	21202.0	23545.7	25221.6	25118.8	25009.7	24881.3	24868.4	26820.4
57.5°	15493.8	15917.6	18678.6	24219.9	27160.7	27918.4	28624.7	28765.9	28759.5	31116.0
60°	14620.5	15057.2	17657.7	23853.9	28810.9	31584.7	32939.6	32958.8	32920.3	35707.0
62.5°	12912.6	13336.4	15891.9	21850.6	29266.8	34968.6	37986.5	38236.9	36471.1	39662.3
65°	10857.9	11204.6	13458.4	18787.8	28053.2	37119.6	41781.2	41485.9	39463.3	41922.5
67°	8880.2	9111.4	11307.3	16129.5	24881.3	36085.8	42879.2	43123.2	40843.8	42018.8
67.5°	8315.2	8527.0	10601.0	15224.1	23674.1	35302.5	42917.8	42879.2	40869.5	42038.1
70°	5772.5	5862.3	7223.6	10472.6	17439.4	29825.4	39784.3	39874.2	39155.1	39758.6
72.5°	3826.9	3961.7	4828.6	6600.8	10280.0	21702.9	33254.2	34217.3	33761.5	32599.3
75°	2465.7	2542.7	3159.1	3929.6	5059.7	12360.4	24566.6	25208.7	24162.1	20161.8
77.5°	1380.5	1464.0	1907.0	2388.6	2465.7	5143.2	13798.7	14594.9	12366.8	8565.6
80°	860.4	969.6	1438.3	1419.0	1175.0	1887.8	5689.0	6093.5	4944.1	2947.2
82.5°	648.5	732.0	1110.8	995.3	661.4	841.1	2131.8	2285.9	1810.7	1136.5
85°	443.0	558.6	802.6	616.4	346.7	404.5	847.6	911.8	828.3	552.2
87.5°	160.5	237.6	417.4	308.2	154.1	122.0	276.1	308.2	295.4	250.4
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°
8520.6	0°	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6	8520.6
8597.7	2.5°	8719.7	8809.6	8854.5	9117.8	9226.9	9207.7	9233.4	9271.9	9310.4	9361.8
8706.8	5°	8790.3	9066.4	9214.1	9522.3	9727.8	9637.9	9753.5	9721.3	9676.4	9670.0
8905.9	7.5°	9021.5	9374.6	9817.7	9901.1	9991.0	9766.3	9573.7	9310.4	9246.2	9021.5
9072.8	10°	9432.4	9721.3	10260.7	10292.8	9894.7	9316.8	8886.6	8340.8	8334.4	8006.9
9329.7	12.5°	9824.1	10151.6	10588.2	10402.0	9451.7	8661.9	7962.0	7364.9	7114.4	6947.5
9483.8	15°	10068.1	10607.4	10838.6	10036.0	8674.7	7608.8	6703.5	6061.4	5804.6	5682.6
9676.4	17.5°	10292.8	11044.1	10941.3	9393.9	7718.0	6523.7	5445.0	4886.4	4815.7	4725.8
9984.6	20°	10601.0	11204.6	10575.3	8559.2	6632.9	5123.9	4436.9	4167.2	4231.4	4269.9
10016.7	22.5°	10890.0	11288.1	10113.0	7647.4	5239.5	4058.1	3717.7	3775.5	3871.8	4000.3
10093.8	25°	11018.4	11422.9	9490.2	6388.9	3987.4	3416.0	3338.9	3435.2	3595.7	3602.2
10202.9	27.5°	11101.9	11326.6	8738.9	5162.5	3152.7	2985.8	3101.3	3172.0	3191.2	3268.3
10434.1	30°	11249.5	11127.5	7788.6	3692.1	2645.4	2651.9	2799.5	2799.5	2799.5	2857.3
10665.2	32.5°	11506.4	10992.7	6677.8	2696.8	2279.4	2484.9	2446.4	2433.5	2407.9	2337.2
10960.6	35°	11666.9	10626.7	5271.6	1996.9	2048.3	2279.4	2266.6	2067.6	1733.7	1566.7
11711.8	37.5°	12000.8	10440.5	3878.3	1541.0	1913.4	2176.7	2106.1	1624.5	1258.5	1098.0
12642.9	40°	12719.9	10318.5	2684.0	1348.4	1823.6	2125.3	1881.3	1386.9	963.1	680.6
14081.2	42.5°	13599.6	10324.9	1823.6	1271.4	1830.0	2234.5	1810.7	1187.9	680.6	545.8
16001.1	45°	14781.1	10228.6	1252.1	1271.4	1945.6	2414.3	1855.7	1078.7	661.4	693.5
18408.9	47.5°	16052.4	10312.1	931.0	1155.8	1964.8	2420.7	1695.1	1059.5	635.7	802.6
21028.7	50°	17535.7	10395.5	770.5	1065.9	1971.2	2343.7	1560.3	1033.8	661.4	847.6
24033.7	52.5°	19063.9	10658.8	654.9	1008.1	2048.3	2311.5	1560.3	1072.3	661.4	738.4
27860.6	55°	21343.3	11333.0	943.9	1258.5	2330.8	2523.4	1919.9	1502.5	924.6	950.3
31527.0	57.5°	23860.3	12026.5	1053.0	1322.7	2395.0	2273.0	2067.6	1656.6	976.0	982.4
34377.9	60°	25516.9	12052.2	1046.6	1290.6	2240.9	1964.8	2022.6	1746.5	995.3	841.1
36143.6	62.5°	26178.3	11268.8	1091.6	1290.6	2086.8	1836.4	2074.0	1881.3	1027.4	1053.0
36644.5	65°	25427.0	9650.7	1053.0	1155.8	1836.4	1643.8	2086.8	1907.0	1123.7	1059.5
35745.5	67°	24252.0	8315.2	1072.3	1098.0	1708.0	1560.3	2196.0	2003.3	1303.5	1271.4
35276.8	67.5°	23918.1	7962.0	1065.9	1065.9	1663.0	1534.6	2221.7	2003.3	1329.1	1316.3
31135.3	70°	21080.0	6453.1	1091.6	1053.0	1470.4	1457.6	2362.9	2112.5	1528.2	1541.0
22871.5	72.5°	16046.0	4892.8	1085.1	1053.0	1277.8	1393.4	2382.2	2183.1	1663.0	1541.0
12809.8	75°	9117.8	2928.0	956.7	918.2	1008.1	1213.6	2228.1	2080.4	1618.1	1380.5
5117.5	77.5°	3769.1	1508.9	879.7	828.3	834.7	988.8	1855.7	1939.1	1541.0	1175.0
1708.0	80°	1406.2	905.4	706.3	661.4	642.1	725.6	1322.7	1547.5	1316.3	963.1
751.3	82.5°	732.0	565.0	481.6	481.6	436.6	462.3	712.7	1027.4	995.3	661.4
301.8	85°	372.4	321.0	276.1	269.7	244.0	218.3	359.6	610.0	571.5	366.0
134.8	87.5°	199.1	179.8	115.6	109.2	89.9	57.8	64.2	122.0	199.1	160.5
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>
8520.6
9413.1
9727.8
9098.5
7994.1
6909.0
5656.9
4770.8
4225.0
3929.6
3666.4
3338.9
2921.5
2298.7
1643.8
1091.6
661.4
532.9
706.3
892.5
982.4
757.7
1001.7
950.3
866.8
1065.9
1040.2
<i>1252.1</i>
1290.6
1425.5
1367.7
1232.8
1110.8
879.7
520.1
301.8
115.6
0.0

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