

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: P574620

Luminaire Tested: **EPH-VN-08-740-U-T2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574620
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-T2
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

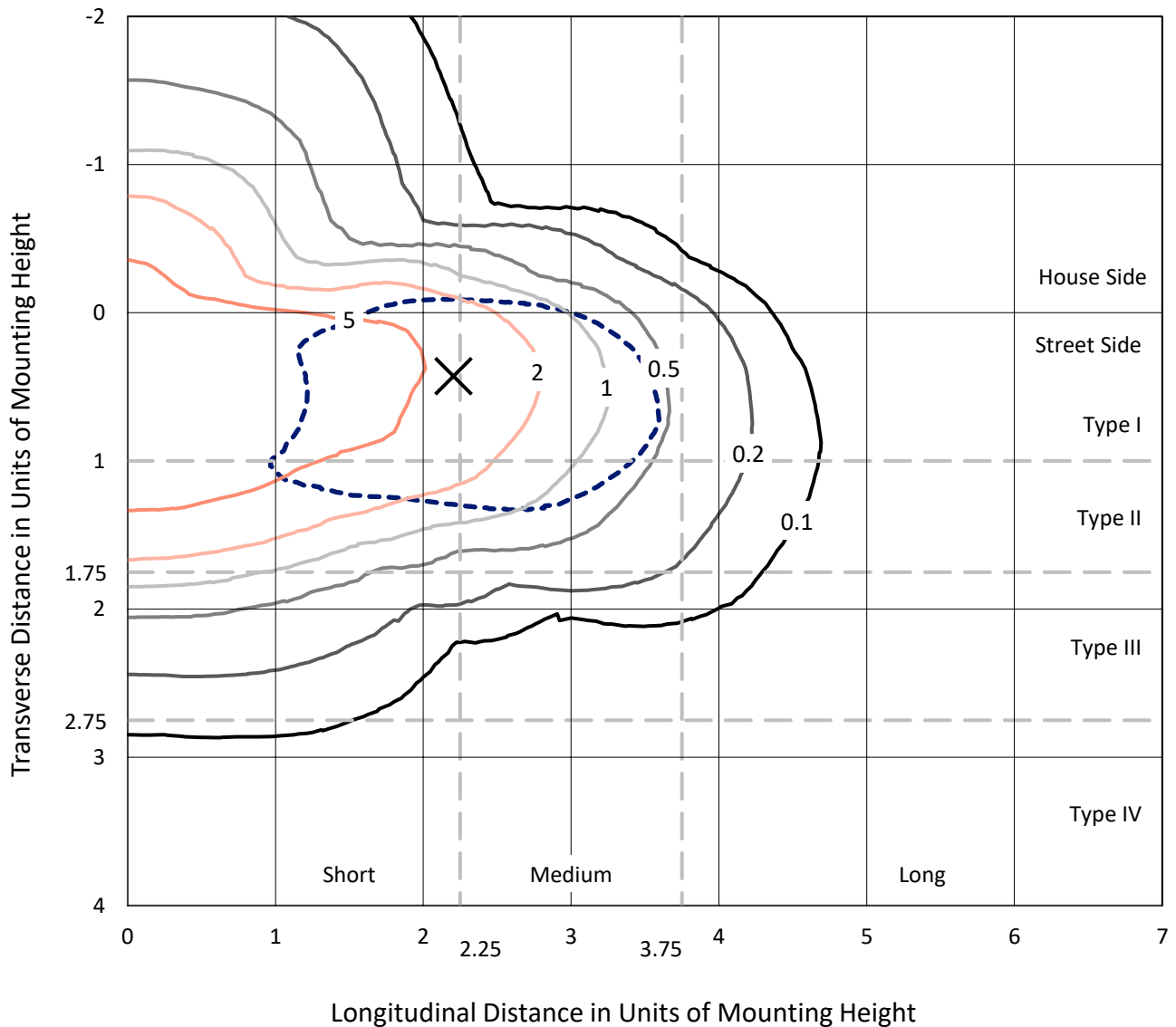
Lumens per Lamp: N/A
Luminaire Lumens: 55680.4 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P574620
 CATALOG NUMBER: EPH-VN-08-740-U-T2

Iso-Footcandle Lines of Horizontal Illumination

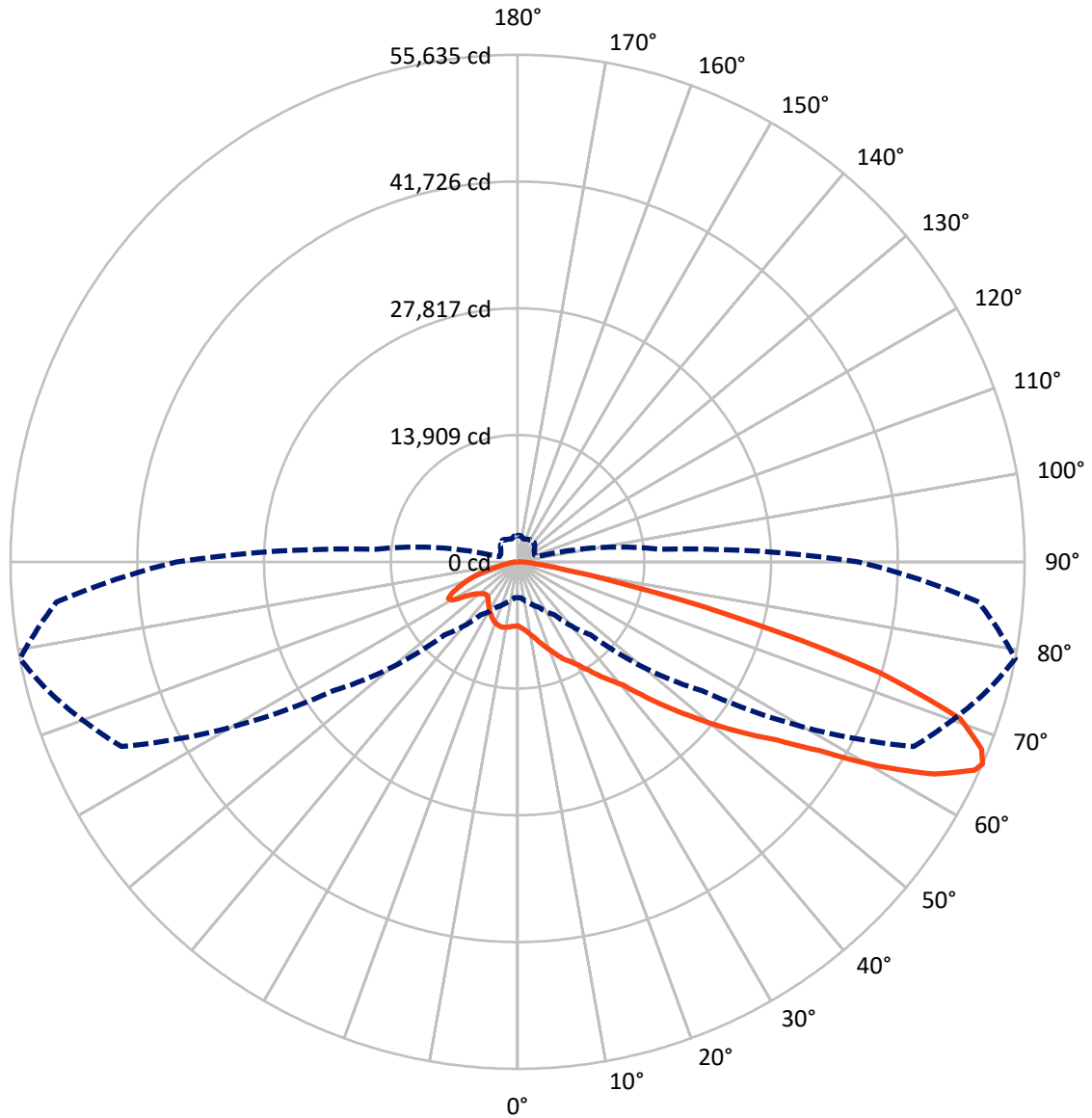
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

REPORT NUMBER: P574620
CATALOG NUMBER: EPH-VN-08-740-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P574620
 CATALOG NUMBER: EPH-VN-08-740-U-T2

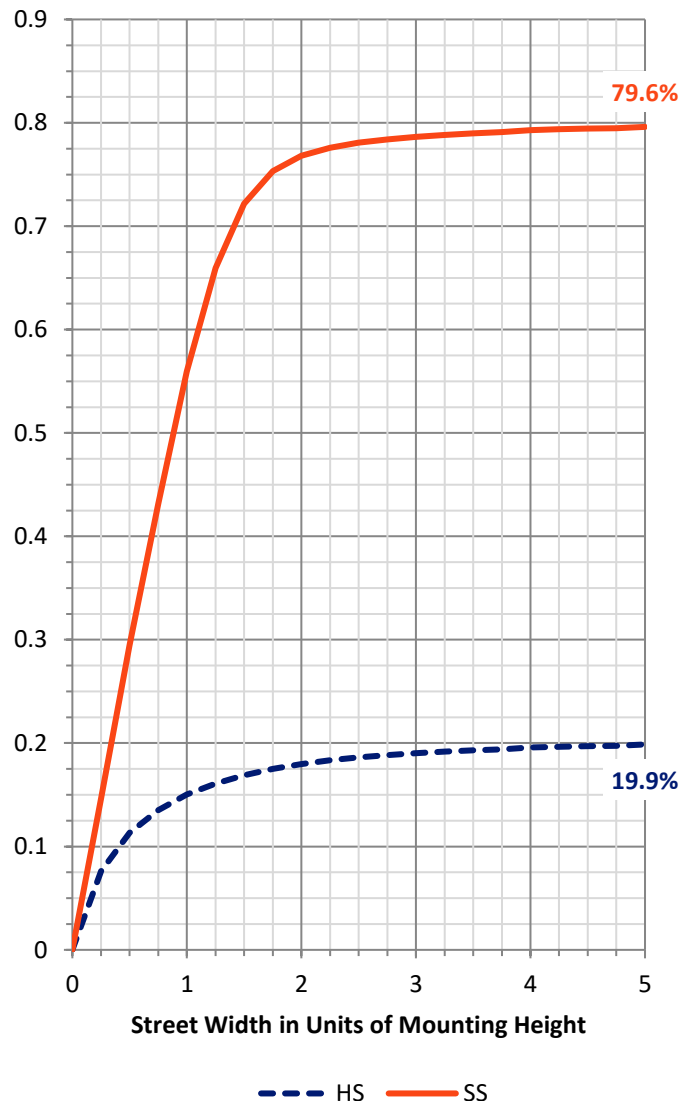
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11243.9	0.0	11243.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	44436.5	0.0	44436.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	55680.4	0.0	55680.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.3	1.2
10°-20°	2134.8	3.8
20°-30°	3664.5	6.6
30°-40°	5660.9	10.2
40°-50°	9067.4	16.3
50°-60°	13538.3	24.3
60°-70°	13910.6	25.0
70°-80°	6166.4	11.1
80°-90°	846.1	1.5
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°	55680.4	100.0
0°-180°	55680.4	100.0

Coefficient of Utilization

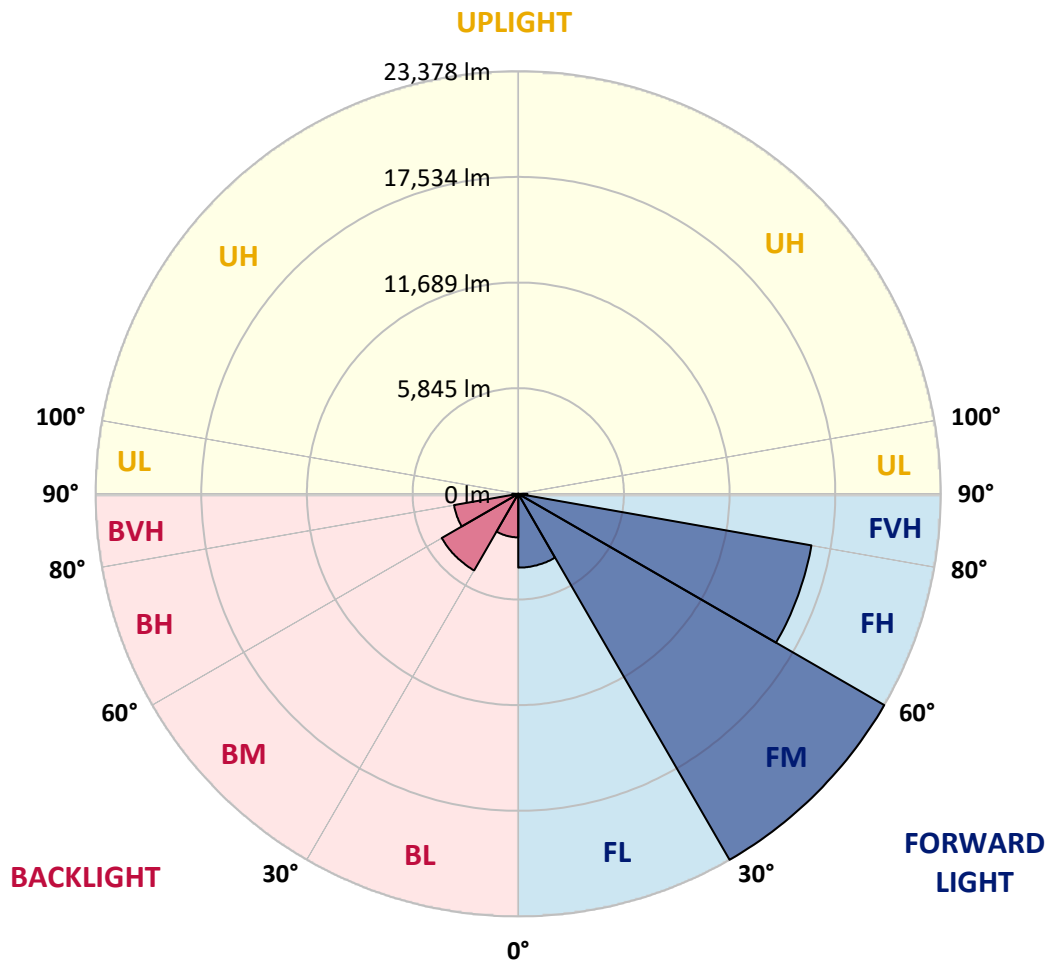


REPORT NUMBER: P574620
 CATALOG NUMBER: EPH-VN-08-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4081.7	7.3			
FM (30°-60°)	23378.3	42.0			
FH (60°-80°)	16469.0	29.6			G5
FVH (80°-90°)	507.5	0.9			G4/750
BL (0°-30°)	2409.0	4.3	B3/2500		
BM (30°-60°)	4888.3	8.8	B3/5000		
BH (60°-80°)	3607.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	338.6	0.6			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 II Short





REPORT NUMBER: P574620
 CATALOG NUMBER: EPH-VN-08-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9
2.5°	7478.0	7484.1	7484.1	7459.6	7465.7	7484.1	7416.7	7269.7	7269.7	7245.2
5°	7937.3	7906.7	7863.8	7869.9	7845.4	7845.4	7771.9	7631.1	7508.6	7459.6
7.5°	7998.6	8029.2	8023.0	8096.5	8133.3	8133.3	8170.0	8053.7	7869.9	7753.6
10°	8121.0	8041.4	8035.3	8206.8	8261.9	8390.5	8537.5	8476.3	8323.1	8157.8
12.5°	8194.5	8243.5	8243.5	8329.3	8457.9	8647.7	8905.0	9021.3	8782.5	8611.0
15°	8304.8	8237.4	8433.4	8506.9	8751.9	8886.6	9254.1	9554.2	9394.9	9186.7
17.5°	8353.8	8310.9	8421.1	8555.9	8972.3	9174.4	9621.5	10038.0	9903.3	9768.5
20°	8604.9	8598.7	8647.7	8758.0	9058.1	9456.2	10013.5	10589.2	10638.2	10393.2
22.5°	9217.3	9137.7	9137.7	9094.8	9223.4	9633.8	10387.1	11183.3	11403.8	11115.9
25°	9780.8	9891.0	9823.6	9627.7	9578.7	9793.0	10656.6	11814.1	12108.1	11838.6
27.5°	10503.5	10540.2	10656.6	10393.2	10056.4	10123.7	10950.5	12169.3	12775.6	12414.3
30°	11544.6	11477.2	11452.8	11158.8	10717.8	10625.9	11287.4	12689.9	13651.4	13143.1
32.5°	12248.9	12414.3	12408.2	12004.0	11471.1	11269.0	11703.9	13179.8	14588.5	14116.9
35°	13645.3	13816.8	13682.1	13088.0	12463.3	12059.1	12304.1	13816.8	15660.3	15292.8
37.5°	15427.5	15831.7	15543.9	14447.6	13565.7	13124.7	13137.0	14508.9	16756.5	16456.4
40°	16658.5	17203.6	16805.5	15776.6	14839.6	14423.1	14257.8	15329.5	18067.2	17748.7
42.5°	18183.5	18636.7	18428.5	17411.9	16315.6	15960.4	15629.6	16701.4	20069.9	19922.9
45°	19849.4	20063.7	19996.4	19353.3	18134.5	18012.1	17283.2	18508.1	22427.8	22489.0
47.5°	21398.9	21515.2	21643.9	21178.4	20419.0	20523.1	19187.9	20443.5	24718.3	25122.6
50°	21797.0	22195.1	22495.2	22807.5	22972.9	23677.2	21288.6	22819.8	27351.9	28135.8
52.5°	21392.8	21362.1	22274.7	23254.6	24908.2	26384.2	24148.8	25771.7	29679.2	31228.6
55°	19555.4	19494.2	20964.0	22262.4	25490.0	27890.8	28233.8	29703.7	32490.3	34505.2
57.5°	16340.1	15960.4	17565.0	19696.3	24228.4	28056.2	32337.2	35540.3	36814.2	39110.8
60°	10981.2	10821.9	12359.2	14900.8	19671.8	25710.5	34793.1	42846.8	42908.0	45492.5
62.5°	6761.4	6792.0	7778.1	9682.8	13773.9	20382.2	33733.6	48683.4	48695.6	51286.3
65°	4421.9	4440.2	5236.4	6289.8	8604.9	13822.9	27896.9	49142.7	52719.4	55126.3
66°	3938.0	3944.2	4630.1	5487.5	7128.9	11311.9	24638.7	47948.4	53625.8	55634.6
67.5°	3319.5	3399.1	3950.3	4611.7	5561.0	8127.2	19549.3	44494.2	53160.4	54924.2
70°	2596.8	2639.6	3074.5	3748.2	4170.8	4703.6	11618.1	36269.1	48658.9	51519.0
72.5°	2082.3	2119.1	2449.8	3043.9	3386.8	3099.0	6326.6	26316.8	38437.1	41487.1
75°	1757.7	1763.8	1923.1	2394.7	2786.6	2327.3	3368.5	16891.3	24663.2	26084.1
77.5°	1420.9	1445.4	1555.6	1825.1	2241.6	1831.2	2008.8	9462.3	12383.7	12487.8
80°	1157.5	1169.8	1237.1	1329.0	1708.7	1353.5	1359.6	4617.8	5309.9	5187.4
82.5°	912.5	924.8	1004.4	986.0	1255.5	967.7	845.2	2223.2	2443.7	2394.7
85°	514.5	514.5	790.1	790.1	796.2	612.4	514.5	1047.3	1292.3	1206.5
87.5°	165.4	171.5	238.9	251.1	398.1	275.6	251.1	392.0	612.4	539.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574620

CATALOG NUMBER: EPH-VN-08-740-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7030.9	0°	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9	7030.9
7202.4	2.5°	7177.9	7079.9	7037.0	6896.1	6859.4	6767.5	6724.7	6669.5	6651.2	6571.6
7331.0	5°	7233.0	7202.4	7030.9	6853.3	6718.5	6657.3	6565.4	6442.9	6430.7	6320.4
7625.0	7.5°	7465.7	7361.6	7061.5	6871.7	6602.2	6449.1	6247.0	6185.7	6106.1	6069.3
7986.3	10°	7827.1	7563.7	7116.6	6638.9	6308.2	6124.5	5977.5	5934.6	5940.7	5916.2
8347.6	12.5°	8084.3	7833.2	7024.8	6442.9	6014.2	5836.6	5824.4	5867.2	5934.6	5904.0
8770.2	15°	8451.8	7980.2	6957.4	6118.3	5775.4	5726.4	5720.3	5848.9	5842.7	5842.7
9339.8	17.5°	8794.7	8127.2	6712.4	5836.6	5524.3	5561.0	5603.9	5597.8	5659.0	5683.5
9811.4	20°	9229.6	8298.7	6369.4	5554.9	5334.4	5322.2	5316.0	5322.2	5383.4	5420.2
10344.2	22.5°	9609.3	8335.4	6081.6	5285.4	5107.8	5058.8	4979.2	5058.8	5028.2	5040.4
11066.9	25°	9940.0	8341.5	5671.3	5083.3	4881.2	4771.0	4709.7	4703.6	4648.5	4642.3
11477.2	27.5°	10215.6	8133.3	5309.9	4801.6	4611.7	4507.6	4501.5	4434.1	4293.3	4201.4
11961.1	30°	10430.0	7974.1	5058.8	4556.6	4372.9	4354.5	4299.4	4146.3	3962.5	3846.2
12855.3	32.5°	10809.7	7655.6	4715.8	4305.5	4213.6	4189.1	4060.5	3925.8	3754.3	3644.1
13614.7	35°	11091.4	7361.6	4489.2	4091.1	4048.3	3999.3	3889.0	3742.0	3693.1	3668.6
14429.2	37.5°	11409.9	7030.9	4213.6	3907.4	3950.3	3858.4	3729.8	3662.4	3833.9	3791.0
15703.1	40°	11918.2	6798.2	3944.2	3797.2	3840.0	3735.9	3570.6	3546.1	3760.4	3607.3
17338.4	42.5°	12849.1	6792.0	3778.8	3631.8	3662.4	3582.8	3435.8	3423.6	3509.3	3325.6
19383.9	45°	14006.7	7006.4	3656.3	3509.3	3484.8	3472.6	3423.6	3368.5	3295.0	3056.1
21662.2	47.5°	15390.8	7355.5	3631.8	3325.6	3356.2	3460.3	3399.1	3258.2	3068.4	2915.2
24197.8	50°	17068.9	8078.2	3570.6	3190.8	3246.0	3411.3	3362.3	3166.3	2994.9	2896.9
26518.9	52.5°	18924.6	8990.7	3490.9	2982.6	3105.1	3368.5	3393.0	3209.2	2958.1	2872.4
29660.8	55°	21111.0	10338.1	3399.1	2756.0	2939.7	3325.6	3393.0	3086.7	2909.1	2909.1
34456.2	57.5°	25428.8	12763.4	3209.2	2547.8	2792.8	3246.0	3295.0	3092.9	2915.2	2915.2
41897.5	60°	31761.5	16548.3	2847.9	2388.5	2651.9	3135.7	3221.5	3001.0	2847.9	2884.6
48021.9	62.5°	36716.2	17699.7	2541.7	2235.4	2511.0	2933.6	3123.5	2903.0	2768.3	2903.0
50826.9	65°	37775.7	16536.1	2229.3	2070.1	2315.0	2737.6	2982.6	2762.1	2651.9	2915.2
50790.2	66°	37396.0	15629.6	2119.1	2021.1	2229.3	2639.6	2896.9	2713.1	2590.6	2903.0
49638.8	67.5°	35705.6	14270.0	1996.6	1917.0	2112.9	2498.8	2798.9	2645.8	2492.7	2866.2
45449.7	70°	32031.0	12101.9	1788.3	1733.2	1947.6	2266.1	2572.3	2474.3	2339.5	2639.6
35748.5	72.5°	24669.3	9670.5	1567.9	1574.0	1757.7	2027.2	2345.7	2278.3	2161.9	2315.0
21901.1	75°	15023.3	6179.6	1365.8	1378.0	1531.1	1800.6	2131.3	2082.3	1941.5	2027.2
10123.7	77.5°	6657.3	3062.2	1151.4	1175.9	1298.4	1586.2	1855.7	1776.1	1629.1	1647.5
4115.6	80°	2584.5	1451.5	937.0	967.7	1047.3	1267.8	1537.2	1463.7	1335.1	1310.6
1892.5	82.5°	1243.3	808.4	722.7	734.9	765.6	1010.5	1322.9	1231.0	1059.5	949.3
888.0	85°	624.7	502.2	508.3	465.5	508.3	685.9	894.2	747.2	618.6	551.2
318.5	87.5°	251.1	251.1	251.1	214.4	226.6	324.6	416.5	281.7	257.2	153.1
0.0	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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180°
7030.9
6645.0
6308.2
6149.0
5879.5
5946.9
5836.6
5726.4
5389.5
5077.2
4642.3
4213.6
3846.2
3625.7
3686.9
3809.4
3570.6
3270.5
2994.9
2884.6
2878.5
2860.1
2896.9
2890.7
2878.5
2915.2
2927.5
2909.1
2811.1
2541.7
2253.8
1996.6
1635.2
1298.4
949.3
563.5
153.1
0.0

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