

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: P574648

Luminaire Tested: **EPH-VN-08-730-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574648
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

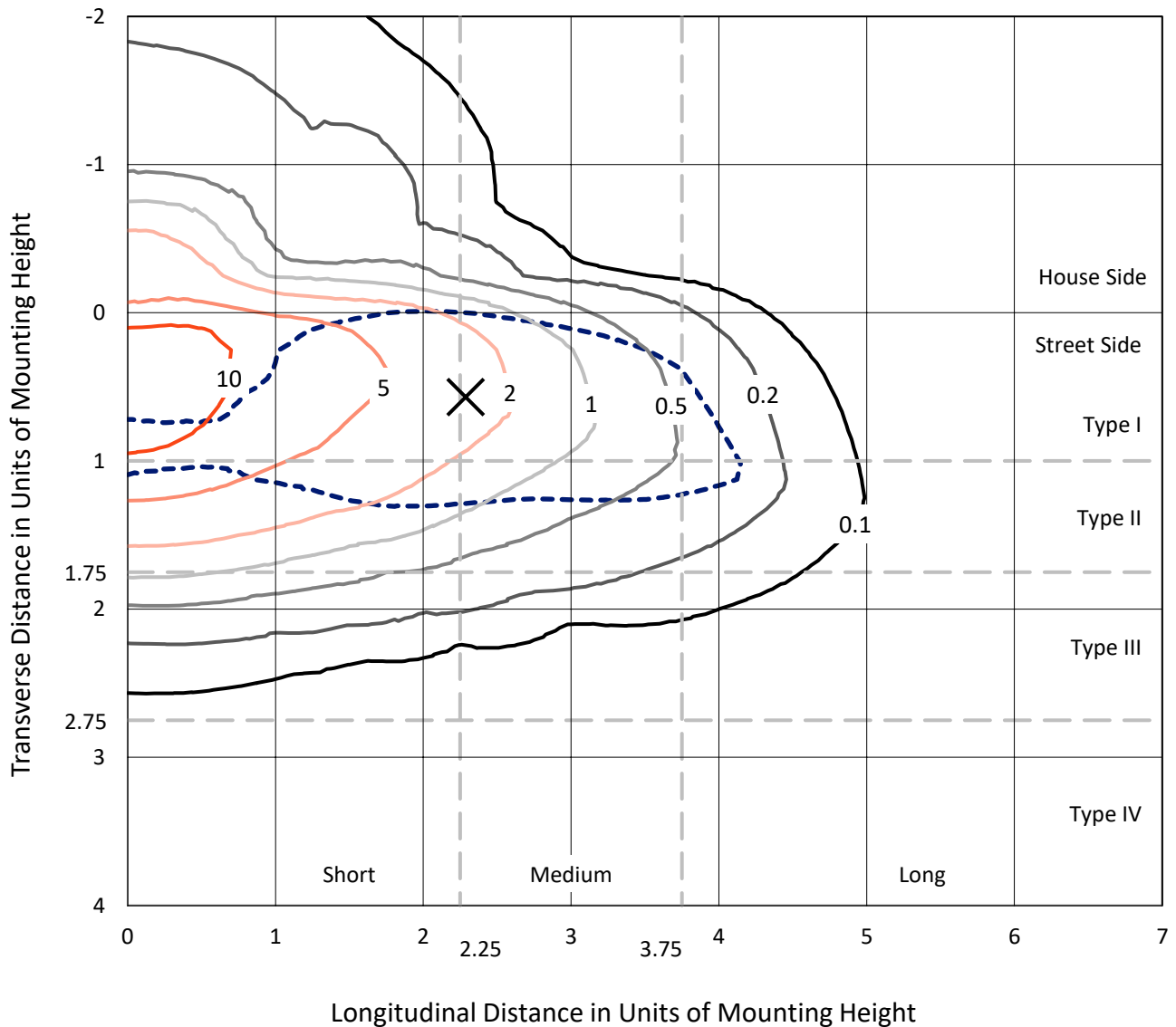
Lumens per Lamp: N/A
Luminaire Lumens: 51049.1 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

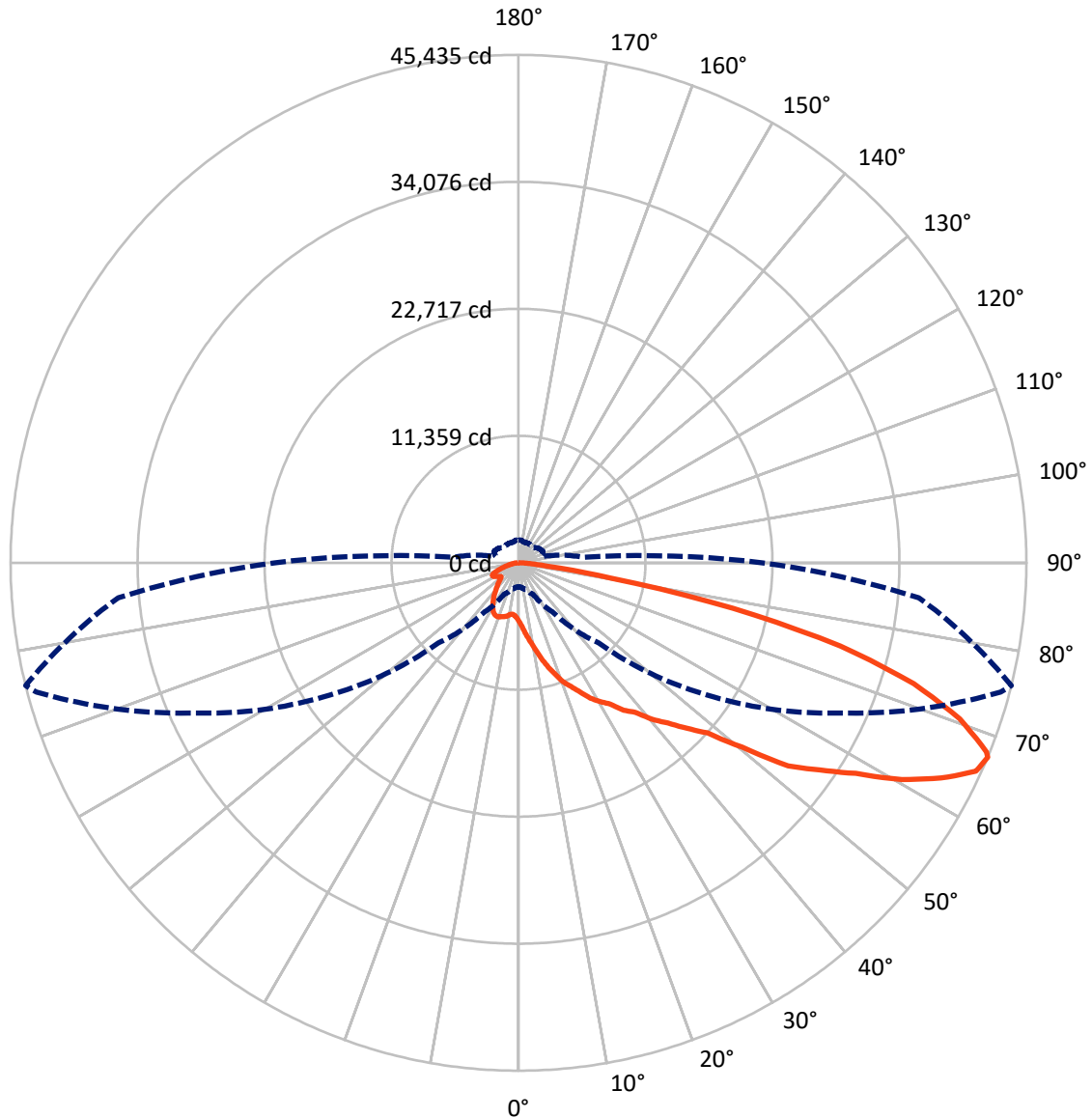
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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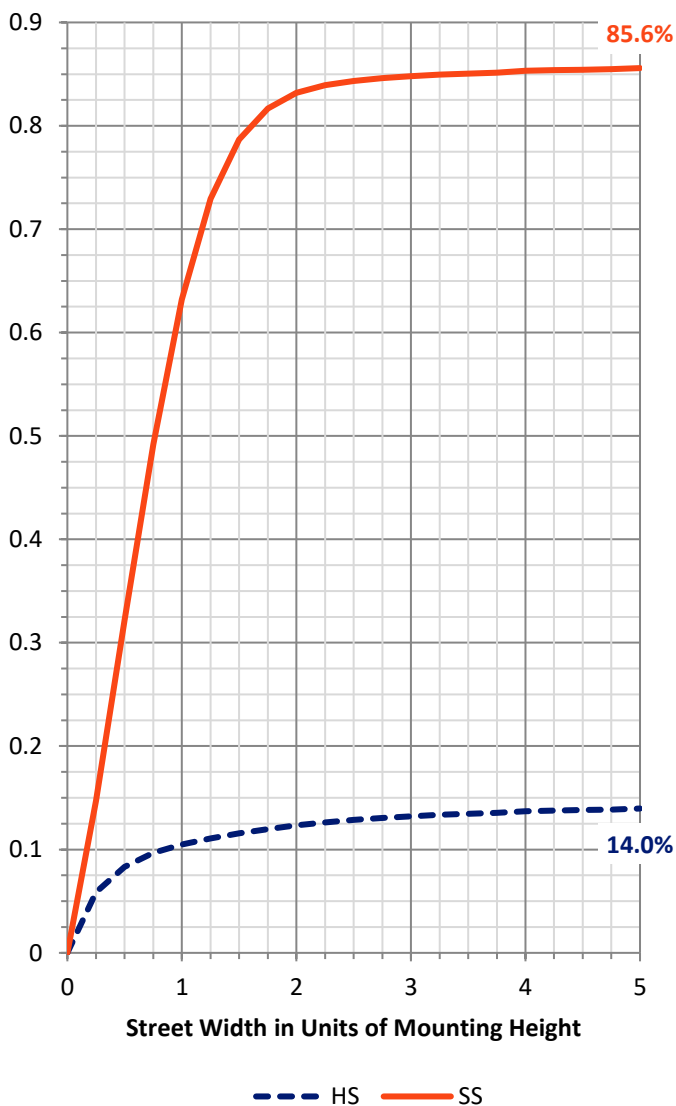
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7262.4	0.0	7262.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	43786.7	0.0	43786.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	51049.1	0.0	51049.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.1	1.2
10°-20°	2269.6	4.4
20°-30°	4219.5	8.3
30°-40°	6688.8	13.1
40°-50°	9251.2	18.1
50°-60°	11379.5	22.3
60°-70°	10589.2	20.7
70°-80°	5313.6	10.4
80°-90°	732.7	1.4
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°	51049.1	100.0
0°-180°	51049.1	100.0

Coefficient of Utilization

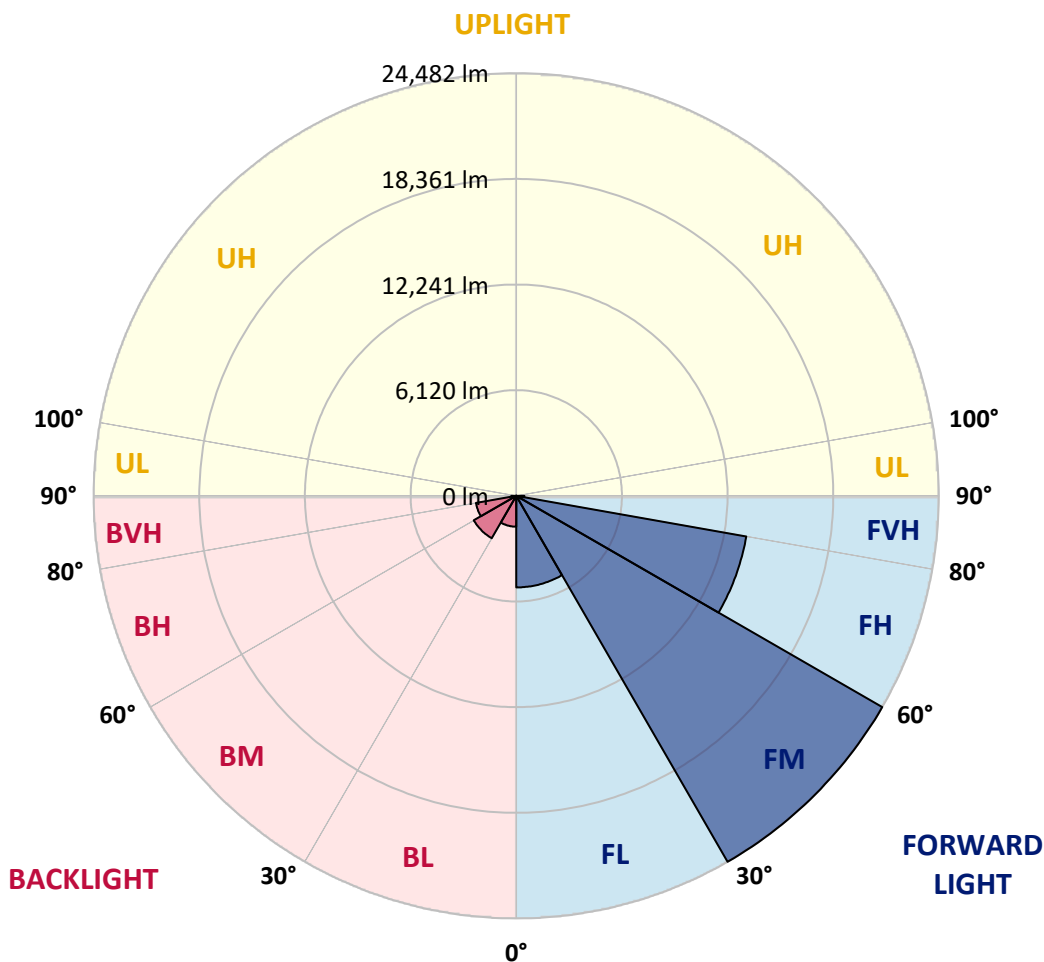


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5305.7	10.4			
FM (30°-60°)	24481.5	48.0			
FH (60°-80°)	13532.7	26.5			G5
FVH (80°-90°)	466.8	0.9			G3/500
BL (0°-30°)	1788.4	3.5	B3/2500		
BM (30°-60°)	2838.0	5.6	B3/5000		
BH (60°-80°)	2370.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	265.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1
2.5°	7248.6	7161.3	7074.1	6887.9	6823.9	6649.4	6329.4	5974.6	5683.7	5643.0
5°	8993.8	8865.8	8836.8	8732.0	8400.4	8063.0	7539.5	6969.3	6259.6	6312.0
7.5°	10302.8	10227.1	10070.1	9971.2	9773.4	9325.4	8784.4	8028.1	7126.4	6951.9
10°	11291.7	11187.0	11181.2	11093.9	10989.2	10529.6	10116.6	9098.5	7940.9	7702.3
12.5°	11792.0	11774.6	12082.9	12082.9	12042.2	11850.2	11140.5	10209.7	8714.6	8633.1
15°	12333.1	12187.6	12455.2	12658.8	12763.5	12862.4	12274.9	11291.7	9703.6	9546.5
17.5°	12333.1	12321.4	12589.0	12926.4	13473.3	13601.3	13281.3	12286.5	10523.8	10407.5
20°	12123.6	12292.3	12478.5	12932.3	13525.6	14043.4	14136.5	13304.6	11431.3	11338.3
22.5°	13101.0	12938.1	13130.1	13304.6	13764.2	14549.5	14805.5	14200.5	12385.4	12030.5
25°	14741.5	14631.0	14491.3	14235.4	14427.3	14770.6	15160.4	14863.7	13199.9	12804.3
27.5°	16341.3	16347.1	16044.6	15486.1	15073.1	15142.9	15602.5	15445.4	13886.3	13711.8
30°	18615.9	18476.3	18138.9	17382.6	16574.0	15910.8	15835.2	15986.4	14758.9	14421.5
32.5°	20320.5	20349.5	19872.5	18784.6	17679.3	17138.3	16475.1	16539.1	15311.6	15061.5
35°	21699.2	21664.3	21326.9	20425.2	19116.2	18464.7	17568.8	17202.3	16597.3	16201.7
37.5°	23188.5	22903.4	22356.6	21338.5	20500.8	19599.1	18726.5	17900.4	17452.4	16975.4
40°	23787.7	23787.7	23054.7	22589.3	21594.5	20913.8	20349.5	18819.5	18493.8	18400.7
42.5°	23363.0	23624.8	23322.3	22792.9	22385.7	21524.7	21373.4	19773.6	19779.4	19593.3
45°	23322.3	22961.6	22711.4	22845.2	22653.3	22606.7	22990.7	21094.2	21129.1	21105.8
47.5°	22153.0	21990.1	22362.4	22583.5	22740.5	23461.9	24567.2	22670.7	22920.9	22746.3
50°	20989.5	20960.4	21193.1	21995.9	22676.5	23863.3	26068.1	25102.4	25922.7	25911.1
52.5°	17801.5	18109.8	19023.2	20721.9	22403.1	24410.1	27202.5	28209.0	29773.9	30198.5
55°	14753.1	14590.2	15939.9	18406.5	21210.5	24625.4	28470.7	30076.4	32380.1	32688.4
57.5°	11477.9	11780.4	12845.0	15212.7	18743.9	23560.8	29401.5	31920.5	35323.7	35562.3
60°	8563.3	8604.1	9773.4	11681.5	15462.9	21158.2	29704.0	33811.2	38697.9	39378.5
62.5°	5387.0	5631.3	6521.4	8400.4	11640.8	17795.7	28348.6	34957.2	42234.9	42415.2
65°	2902.9	3060.0	3729.0	4910.0	8132.8	13461.6	24753.4	34270.8	43898.7	44969.1
67°	2146.6	2175.7	2484.1	3135.6	5439.3	10134.0	20640.4	31786.7	44655.0	45434.5
67.5°	2012.8	2053.6	2297.9	2815.7	4822.7	9331.2	19564.2	30902.4	44317.6	45155.3
70°	1722.0	1733.6	1791.8	1937.2	2705.1	5613.9	13322.0	25323.5	41077.2	41880.0
72.5°	1530.0	1541.6	1564.9	1594.0	1832.5	3246.2	8103.7	19488.6	35701.9	36981.7
75°	1343.8	1384.6	1396.2	1372.9	1559.1	2111.7	4310.8	14322.6	29122.3	29744.8
77.5°	1140.2	1157.7	1180.9	1204.2	1390.4	1576.5	2071.0	9668.7	19988.9	19610.7
80°	959.9	965.7	983.2	1000.6	1204.2	1204.2	1175.1	5224.1	8732.0	8348.1
82.5°	686.5	727.2	767.9	814.4	1000.6	808.6	767.9	2327.0	2763.3	2629.5
85°	267.6	325.8	506.1	558.5	634.1	436.3	511.9	1006.4	1151.9	1140.2
87.5°	46.5	52.4	139.6	215.2	232.7	151.3	244.3	360.7	430.5	465.4
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°
5224.1	0°	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1	5224.1
5439.3	2.5°	5270.6	5090.3	4875.0	4659.8	4520.2	4299.1	4281.7	4147.9	4130.4	4083.9
5613.9	5°	5311.4	5096.1	4659.8	4316.6	4159.5	4031.5	4060.6	4002.4	3985.0	3955.9
6003.6	7.5°	5631.3	5206.6	4555.1	4258.4	4142.0	4083.9	4083.9	4014.1	3961.7	3996.6
6480.7	10°	5840.7	5259.0	4636.5	4339.8	4246.8	4118.8	4165.3	4078.1	4107.1	4037.3
7033.3	12.5°	6178.2	5555.7	4805.2	4462.0	4310.8	4194.4	4240.9	4142.0	4118.8	4124.6
7626.7	15°	6631.9	5753.5	4880.9	4531.8	4427.1	4281.7	4246.8	4159.5	4072.2	4043.1
8278.3	17.5°	7056.6	5997.8	4933.2	4572.5	4403.8	4240.9	4200.2	4089.7	4060.6	3973.3
9017.1	20°	7562.7	6288.7	5003.0	4607.4	4316.6	4153.7	4049.0	3938.4	3839.5	3787.2
9686.1	22.5°	7900.1	6439.9	5037.9	4537.6	4188.6	4037.3	3816.3	3740.6	3601.0	3542.8
10331.8	25°	8452.8	6626.1	4950.7	4345.7	3961.7	3717.4	3519.6	3414.9	3316.0	3240.3
10774.0	27.5°	8592.4	6765.7	4747.1	4019.9	3601.0	3345.1	3176.3	3048.4	2984.4	2868.0
11408.1	30°	8999.6	6626.1	4444.6	3624.3	3257.8	2996.0	2827.3	2734.2	2583.0	2553.9
11914.2	32.5°	9261.4	6666.8	4060.6	3240.3	2862.2	2629.5	2519.0	2425.9	2385.2	2245.5
12687.9	35°	9697.7	6527.2	3670.8	2885.5	2536.4	2356.1	2263.0	2233.9	2100.1	2036.1
13351.1	37.5°	9977.0	6445.8	3281.1	2484.1	2181.6	2105.9	2135.0	2012.8	1850.0	1727.8
14200.5	40°	10465.6	6416.7	2838.9	2152.5	1937.2	1919.8	2012.8	1780.1	1483.5	1378.7
15218.5	42.5°	11169.6	6218.9	2495.7	1855.8	1745.2	1820.9	1838.3	1483.5	1314.8	1227.5
16585.6	45°	11844.4	6259.6	2158.3	1535.8	1518.4	1628.9	1588.2	1256.6	1157.7	1093.7
18162.2	47.5°	13141.7	6463.2	1826.7	1279.8	1367.1	1471.8	1233.3	1122.8	1029.7	983.2
21018.6	50°	15148.7	6661.0	1535.8	1169.3	1291.5	1332.2	1058.8	1018.1	1012.2	919.2
23386.3	52.5°	16352.9	6585.4	1483.5	1308.9	1384.6	1332.2	1151.9	1122.8	1076.2	1035.5
25818.0	55°	18266.9	6806.5	1594.0	1530.0	1570.7	1279.8	1291.5	1279.8	1244.9	1140.2
28639.4	57.5°	19791.1	6951.9	1739.4	1710.3	1687.1	1332.2	1349.7	1355.5	1332.2	1285.7
31594.7	60°	21885.4	7242.8	1890.7	1896.5	1902.3	1448.6	1477.6	1512.5	1506.7	1489.3
34573.3	62.5°	23171.0	7109.0	2059.4	2152.5	2123.4	1687.1	1681.3	1704.5	1704.5	1733.6
35899.7	65°	22979.0	6614.5	2146.6	2379.3	2228.1	1861.6	1861.6	1873.2	1879.0	1937.2
35952.0	67°	21827.2	5730.2	2100.1	2414.3	2228.1	1931.4	1931.4	1943.0	1902.3	2053.6
35544.8	67.5°	21292.0	5468.4	2059.4	2385.2	2210.6	1925.6	1925.6	1931.4	1896.5	2041.9
32688.4	70°	18517.0	4060.6	1774.3	2111.7	2047.8	1873.2	1873.2	1838.3	1809.2	2001.2
28203.1	72.5°	15806.1	2949.5	1425.3	1797.6	1850.0	1803.4	1815.1	1727.8	1646.3	1780.1
21931.9	75°	12106.2	2169.9	1111.1	1384.6	1564.9	1687.1	1762.7	1541.6	1436.9	1471.8
11861.8	77.5°	6754.1	1413.6	878.4	1023.9	1192.6	1570.7	1692.9	1390.4	1175.1	1134.4
4008.2	80°	2292.1	826.1	645.7	762.1	820.3	1390.4	1582.4	1128.6	925.0	884.3
1355.5	82.5°	866.8	506.1	442.1	523.6	523.6	1099.5	1291.5	866.8	698.1	901.7
506.1	85°	395.6	302.5	290.9	302.5	302.5	674.8	913.3	564.3	628.3	541.0
186.2	87.5°	157.1	145.4	133.8	128.0	104.7	116.3	314.1	151.3	285.1	75.6
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°
5224.1
4107.1
3909.3
4031.5
4037.3
4107.1
4078.1
3903.5
3810.4
3496.3
3217.1
2844.7
2489.9
2210.6
1977.9
1687.1
1320.6
1186.8
1128.6
989.0
913.3
989.0
1169.3
1326.4
1500.9
1751.1
1943.0
2007.0
1995.4
1960.5
1745.2
1407.8
1134.4
855.2
919.2
477.0
69.8
0.0

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