

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: P574814

Luminaire Tested: **EPH-VN-08-735-U-T4W**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574814
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-735-U-T4W
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

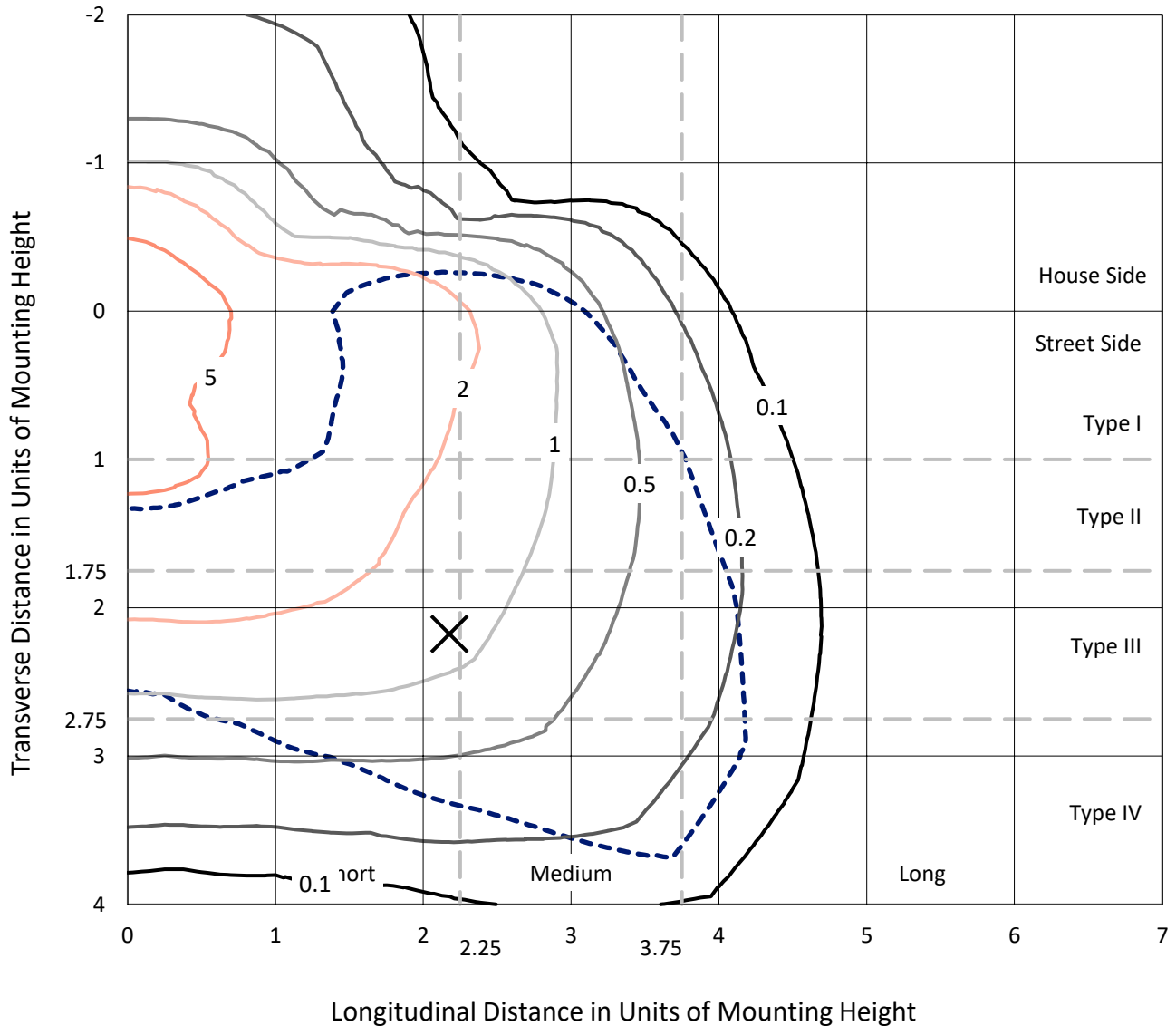
Lumens per Lamp: N/A
Luminaire Lumens: 55576.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

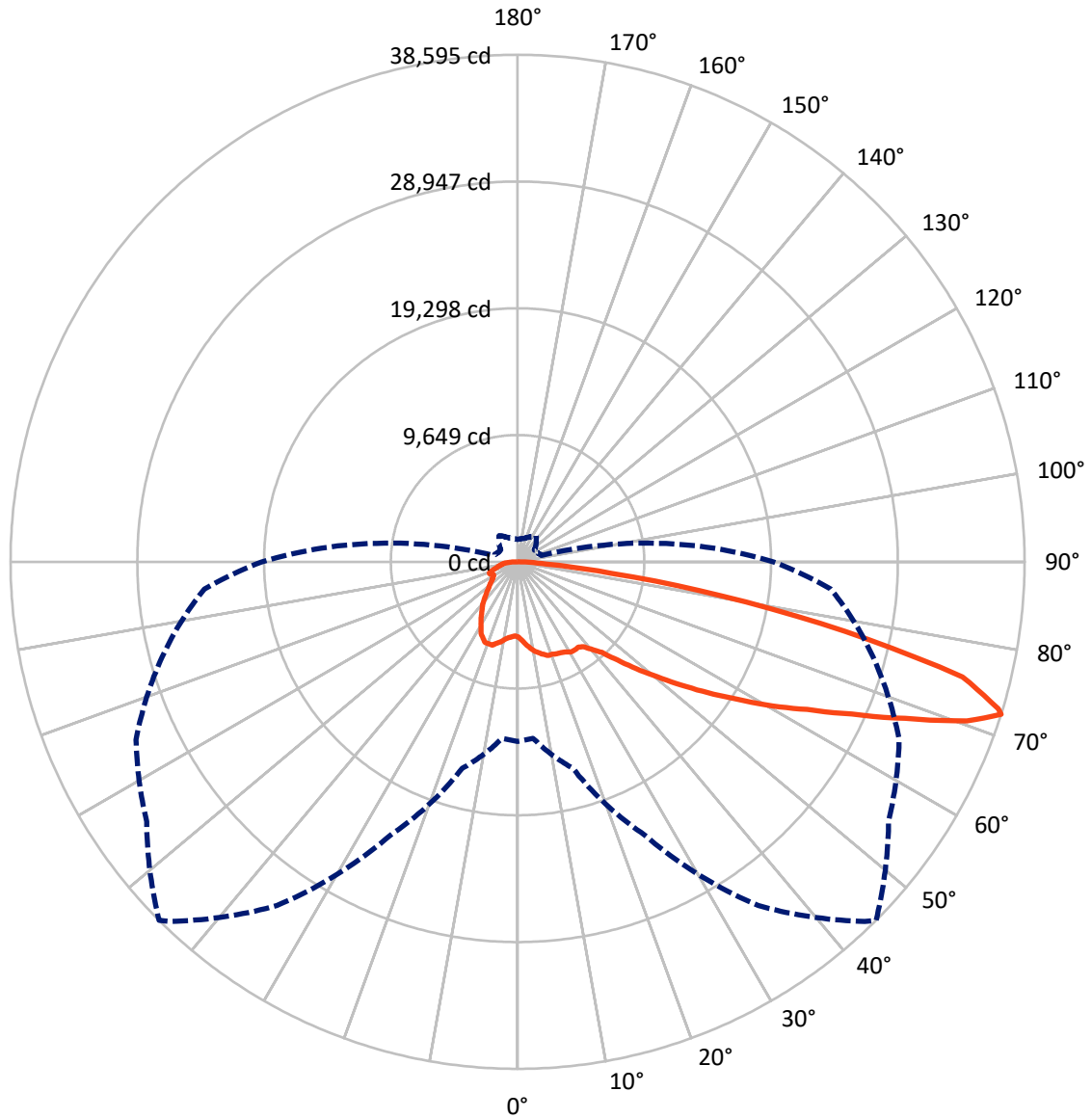
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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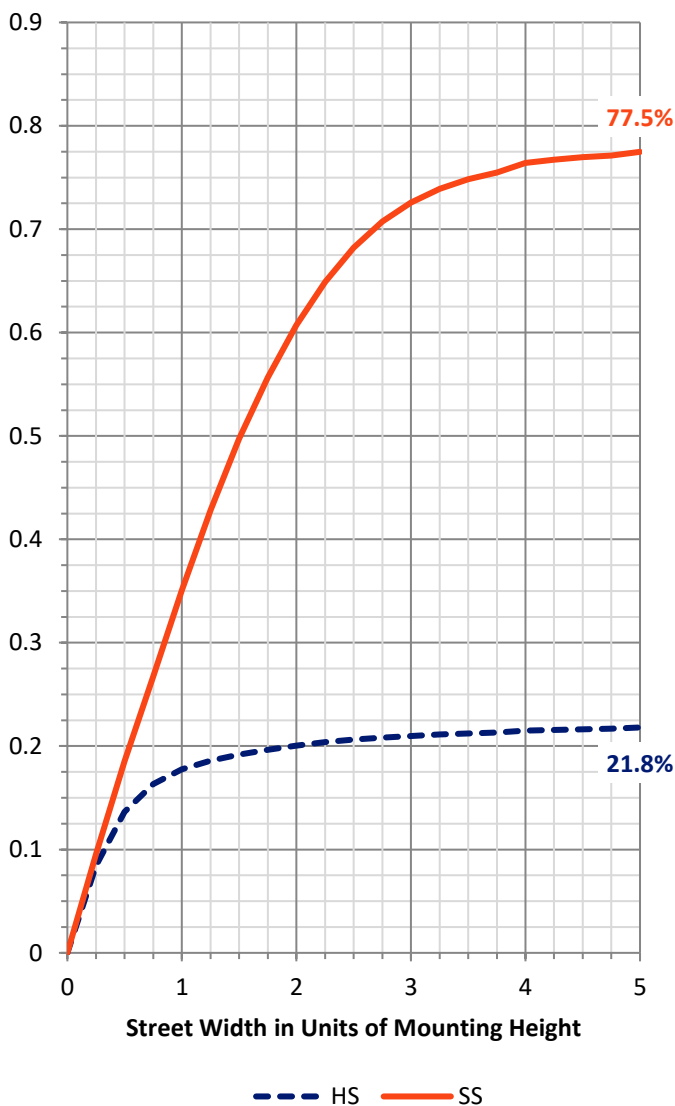
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12371.7	0.0	12371.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	43204.9	0.0	43204.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	55576.6	0.0	55576.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.7	1.1
10°-20°	1948.5	3.5
20°-30°	3290.5	5.9
30°-40°	4553.5	8.2
40°-50°	6513.4	11.7
50°-60°	10505.4	18.9
60°-70°	15494.0	27.9
70°-80°	11251.3	20.2
80°-90°	1434.3	2.6
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°	55576.6	100.0
0°-180°	55576.6	100.0

Coefficient of Utilization

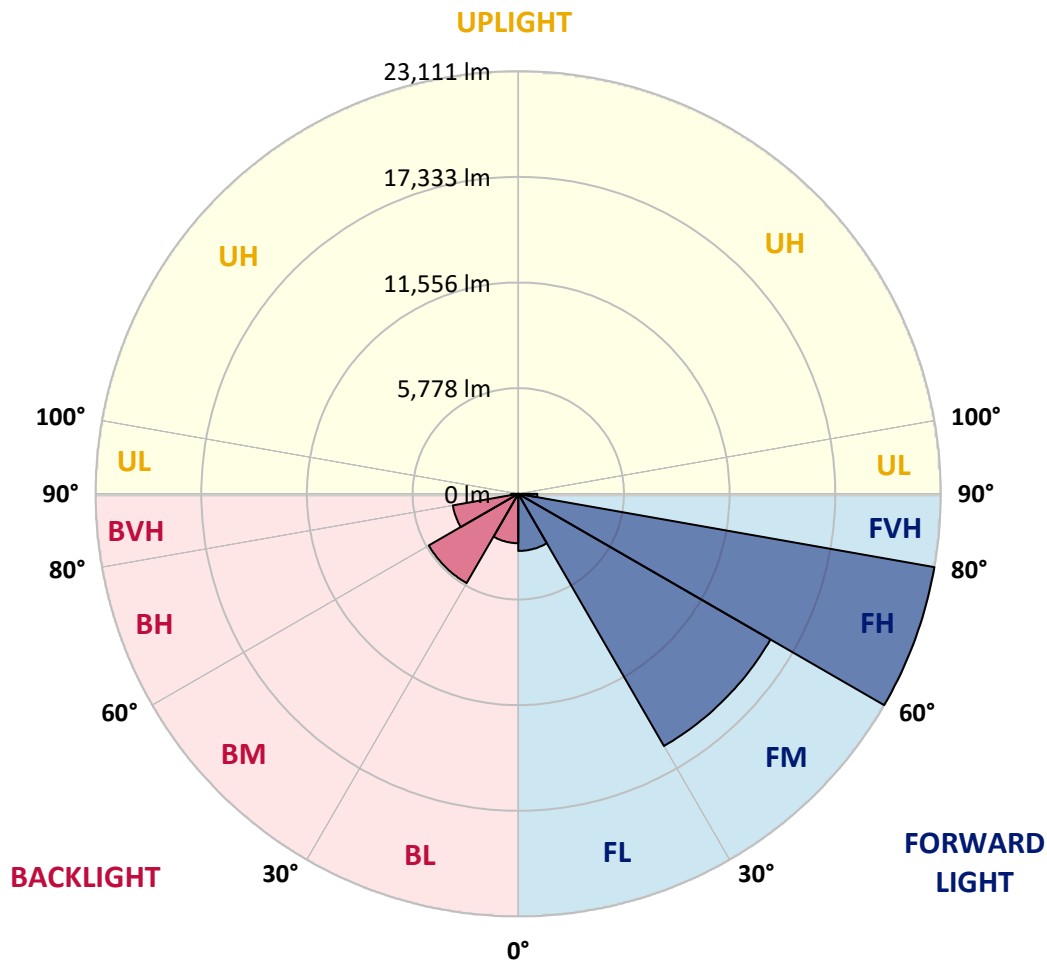


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3123.4	5.6			
FM (30°-60°)	15926.3	28.7			
FH (60°-80°)	23111.2	41.6			G5
FVH (80°-90°)	1043.9	1.9			G5
BL (0°-30°)	2701.3	4.9	B4/5000		
BM (30°-60°)	5646.1	10.2	B4/8500		
BH (60°-80°)	3634.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	390.3	0.7			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4
2.5°	6029.0	6065.0	6029.0	6023.0	5963.1	5921.2	5957.1	5903.2	5843.2	5819.3
5°	6580.4	6586.4	6520.5	6526.5	6400.6	6268.8	6292.7	6130.9	5957.1	5891.2
7.5°	7143.7	7077.8	6981.9	6952.0	6754.2	6610.4	6592.4	6448.5	6178.9	6029.0
10°	7509.3	7533.3	7377.5	7245.6	7077.8	6904.0	6898.0	6628.3	6472.5	6250.8
12.5°	7832.9	7838.9	7707.1	7497.3	7287.6	7071.8	7101.8	6981.9	6718.2	6508.5
15°	8084.7	8048.7	7904.9	7713.1	7491.3	7323.5	7305.6	7203.7	6981.9	6808.1
17.5°	8156.6	8138.6	7994.8	7791.0	7575.2	7449.4	7497.3	7329.5	7239.6	7083.8
20°	8018.7	7976.8	7952.8	7725.1	7569.3	7557.3	7515.3	7551.3	7401.4	7257.6
22.5°	7767.0	7749.0	7737.1	7557.3	7485.3	7539.3	7611.2	7665.1	7641.2	7503.3
25°	7509.3	7593.2	7515.3	7431.4	7533.3	7671.1	7653.2	7827.0	7827.0	7785.0
27.5°	7689.1	7635.2	7575.2	7533.3	7569.3	7785.0	7773.0	7982.8	8060.7	7982.8
30°	8138.6	8084.7	7910.9	7725.1	7677.1	7910.9	7970.8	8156.6	8192.5	8000.8
32.5°	8983.6	8953.7	8678.0	8132.6	7838.9	7970.8	8000.8	8210.5	8180.5	8060.7
35°	10236.2	10134.3	9750.7	8827.8	8180.5	8048.7	7970.8	8138.6	8252.5	8192.5
37.5°	11608.6	11494.7	11021.3	9852.6	8797.8	8258.5	8198.5	8336.4	8468.2	8438.2
40°	12921.1	12921.1	12495.6	11135.1	9714.8	8767.9	8779.9	8624.0	8743.9	8690.0
42.5°	14215.6	14167.6	13993.8	12639.4	10697.6	9618.9	9427.1	9037.6	9253.3	9235.3
45°	15528.1	15492.1	15444.2	14041.8	12106.0	10769.6	10667.7	9966.5	10164.3	10080.4
47.5°	16576.8	16618.8	16618.8	15606.0	13610.3	12303.8	12154.0	11045.2	11422.8	11464.8
50°	17469.8	17487.8	17469.8	17098.2	15288.3	14059.8	13754.1	12627.4	13005.0	13334.6
52.5°	18704.4	18728.4	18644.5	18500.6	17565.7	15905.6	15564.0	14311.5	15084.6	15432.2
55°	20226.6	20046.8	19891.0	19998.9	19753.2	17937.3	17583.7	16049.5	17212.1	17673.6
57.5°	20508.3	20664.1	21059.7	21916.7	22270.3	19915.0	19711.2	18183.0	19615.3	20016.9
60°	21503.1	21245.4	22216.3	24074.2	24469.7	22492.0	22282.2	20520.3	22006.6	22426.1
62.5°	22156.4	22144.4	23582.7	25788.2	26687.2	25164.9	24739.4	23558.8	24589.6	24997.1
65°	21964.6	22138.4	24691.5	26795.0	28539.0	28203.4	27957.7	26171.8	27532.2	27496.2
67.5°	20214.6	20706.1	23990.3	27520.2	31295.8	31907.1	31829.2	29845.5	29923.4	29162.3
70°	17787.4	17619.6	21023.7	26765.1	32674.2	36300.0	36282.1	32578.4	32074.9	29527.9
72°	13664.2	13478.4	16277.2	22983.4	31949.1	38056.0	38595.4	34472.2	32051.0	28011.6
72.5°	12405.7	12243.9	15030.6	21635.0	31146.0	38511.5	38259.8	34544.1	31799.3	27298.5
75°	5711.4	5525.6	7509.3	13244.7	24295.9	34124.6	34981.6	32326.6	27771.9	21730.9
77.5°	1702.0	1648.1	2415.2	5345.8	14119.7	25140.9	25470.6	24391.8	19387.6	11902.2
80°	946.9	952.9	1246.6	2001.7	6208.8	14533.2	15719.8	15066.6	9511.0	3931.5
82.5°	527.4	557.4	779.1	1186.6	2852.7	6670.3	7179.7	6922.0	3440.0	1845.9
85°	275.7	287.7	407.5	635.3	1618.1	2109.6	2169.5	2325.3	1785.9	1258.5
87.5°	107.9	107.9	149.8	263.7	599.3	653.2	587.3	713.2	1024.8	815.1
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°
5723.4	0°	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4	5723.4
5765.3	2.5°	5813.3	5765.3	5759.3	5681.4	5705.4	5639.5	5645.5	5633.5	5639.5	5627.5
5783.3	5°	5783.3	5747.4	5645.5	5711.4	5651.5	5735.4	5801.3	5777.3	5795.3	5789.3
5879.2	7.5°	5825.3	5777.3	5765.3	5729.4	5783.3	5819.3	5873.2	6023.0	6011.1	6029.0
6059.0	10°	5951.1	5897.2	5861.2	5915.2	5885.2	5999.1	6059.0	6136.9	6274.7	6280.7
6316.7	12.5°	6196.8	6160.9	6089.0	6100.9	6202.8	6238.8	6274.7	6322.7	6412.6	6394.6
6490.5	15°	6478.5	6400.6	6358.7	6346.7	6370.6	6412.6	6406.6	6454.5	6502.5	6544.4
6778.2	17.5°	6682.3	6580.4	6592.4	6652.3	6646.3	6634.3	6556.4	6532.5	6556.4	6580.4
7035.9	20°	6892.0	6904.0	6814.1	6760.2	6736.2	6616.4	6556.4	6484.5	6412.6	6448.5
7251.6	22.5°	7155.7	7101.8	6969.9	6808.1	6688.3	6616.4	6430.6	6304.7	6304.7	6340.7
7575.2	25°	7455.4	7341.5	7113.8	6820.1	6670.3	6364.6	6232.8	6214.8	6166.9	6220.8
7743.1	27.5°	7689.1	7587.2	7275.6	6778.2	6364.6	6118.9	6041.0	6017.0	6095.0	6100.9
7797.0	30°	7785.0	7755.0	7299.6	6670.3	6053.0	5657.5	5609.5	5717.4	5801.3	5927.2
7976.8	32.5°	7910.9	7922.8	7335.5	6418.6	5645.5	5249.9	5178.0	5309.9	5549.6	5651.5
8114.6	35°	8120.6	8180.5	7305.6	6106.9	5214.0	4836.4	4824.4	4860.4	5094.1	5273.9
8276.4	37.5°	8486.2	8474.2	7299.6	5735.4	4872.4	4476.8	4380.9	4392.9	4548.7	4698.6
8719.9	40°	8977.6	8929.7	7281.6	5249.9	4428.9	4171.2	4009.4	3949.4	3937.4	3895.5
9277.3	42.5°	9648.8	9553.0	7275.6	4758.5	4027.3	3751.7	3637.8	3482.0	3368.1	3152.4
10260.1	45°	10583.8	10416.0	7119.8	4297.0	3631.8	3404.1	3230.3	3116.4	2870.7	2601.0
11506.7	47.5°	12028.1	11482.7	7125.8	3787.6	3248.2	3062.5	2942.6	2744.8	2481.1	2265.4
13718.1	50°	14155.6	12909.1	6922.0	3386.1	2936.6	2810.8	2684.9	2457.2	2205.5	2055.6
16121.4	52.5°	16900.5	15036.6	6916.0	3026.5	2690.9	2601.0	2463.2	2259.4	2073.6	1977.7
19052.0	55°	20172.7	17853.4	7131.8	2732.8	2439.2	2391.2	2331.3	2163.5	1983.7	1899.8
22318.2	57.5°	23522.8	20604.2	7479.4	2523.1	2223.4	2259.4	2217.4	2085.6	1941.8	1845.9
25332.7	60°	26501.4	22785.7	6778.2	2271.4	2031.7	2109.6	2169.5	2055.6	1977.7	1971.7
28616.9	62.5°	28748.8	23720.6	5154.0	2079.6	1929.8	2073.6	2235.4	2307.3	2271.4	2319.3
30756.5	65°	29569.8	23157.2	3547.9	1977.7	1851.9	2157.5	2517.1	2493.1	2283.4	2193.5
31709.4	67.5°	28419.2	20873.9	2631.0	1857.9	1797.9	2331.3	2678.9	2379.3	2061.6	2049.6
28976.5	70°	24439.8	17691.6	2145.5	1732.0	1708.0	2235.4	2607.0	2205.5	1941.8	1863.8
23936.3	72°	19471.5	13778.1	1881.8	1642.1	1564.2	1995.7	2439.2	2067.6	1839.9	1744.0
22360.2	72.5°	17775.5	12771.2	1845.9	1600.2	1534.2	1941.8	2355.3	2025.7	1815.9	1732.0
13394.5	75°	9750.7	6538.4	1624.1	1468.3	1294.5	1678.1	2181.5	1899.8	1714.0	1594.2
4968.3	77.5°	3625.8	2535.1	1402.4	1300.5	1120.7	1450.3	1983.7	1803.9	1558.2	1408.4
1654.1	80°	1390.4	1336.5	1144.7	1096.7	940.9	1270.5	1827.9	1618.1	1324.5	1174.6
905.0	82.5°	845.0	779.1	869.0	857.0	719.2	1156.7	1720.0	1516.2	1174.6	952.9
485.4	85°	461.5	461.5	605.3	581.3	503.4	922.9	1300.5	1006.8	743.1	611.3
239.7	87.5°	203.8	239.7	323.6	305.6	275.7	521.4	635.3	533.4	371.6	251.7
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°
5723.4
5597.5
5795.3
6065.0
6208.8
6460.5
6526.5
6568.4
6502.5
6322.7
6244.8
6196.8
5933.1
5729.4
5375.8
4680.6
3907.5
3164.3
2601.0
2241.4
2073.6
1941.8
1893.8
1833.9
1929.8
2325.3
2241.4
2013.7
1827.9
1702.0
1666.1
1582.2
1378.4
1126.7
922.9
623.3
269.7
0.0

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