

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: P574664

Luminaire Tested: **EPH-VN-06-750-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574664
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-750-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

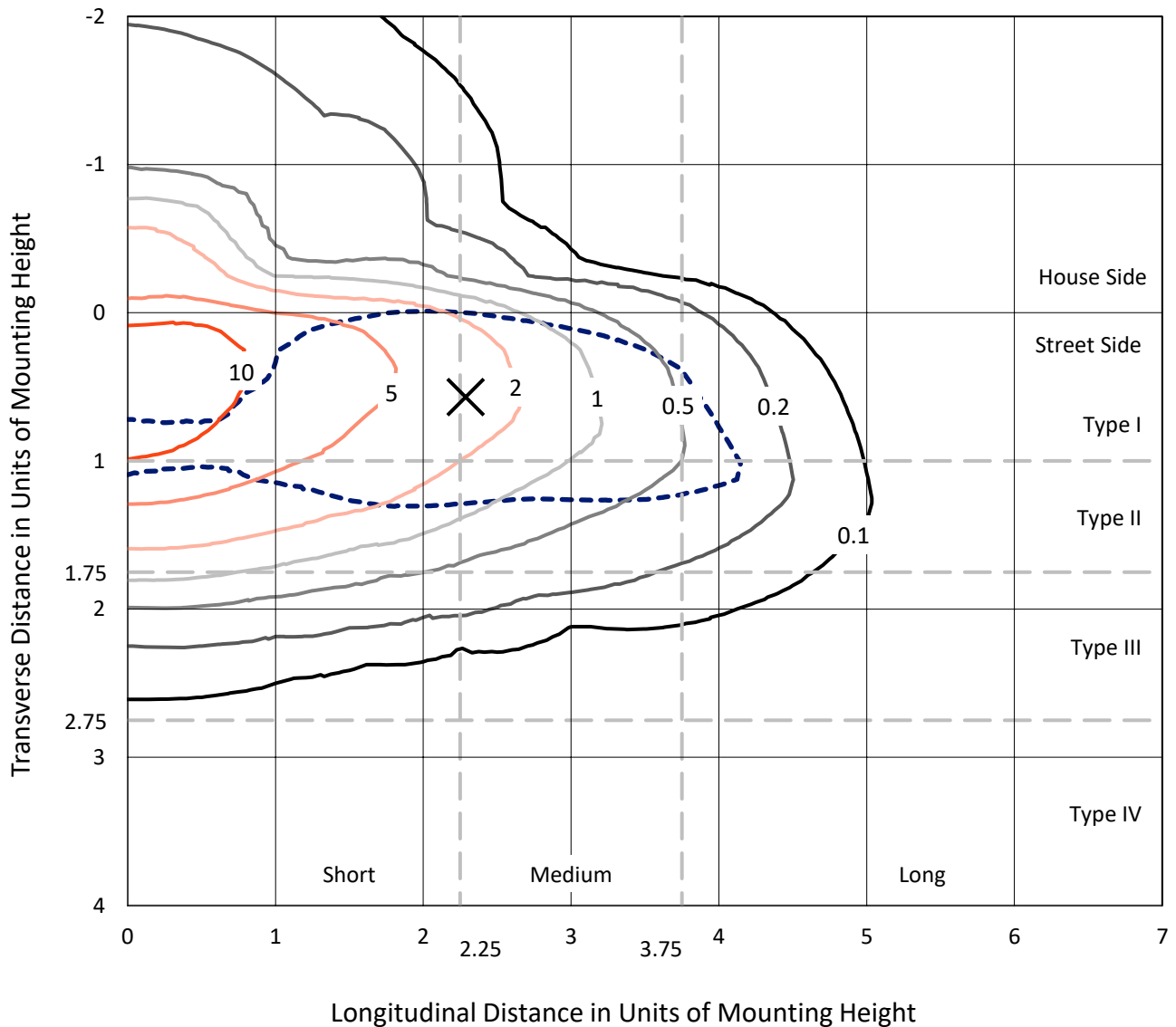
Lumens per Lamp: N/A
Luminaire Lumens: 54428.9 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

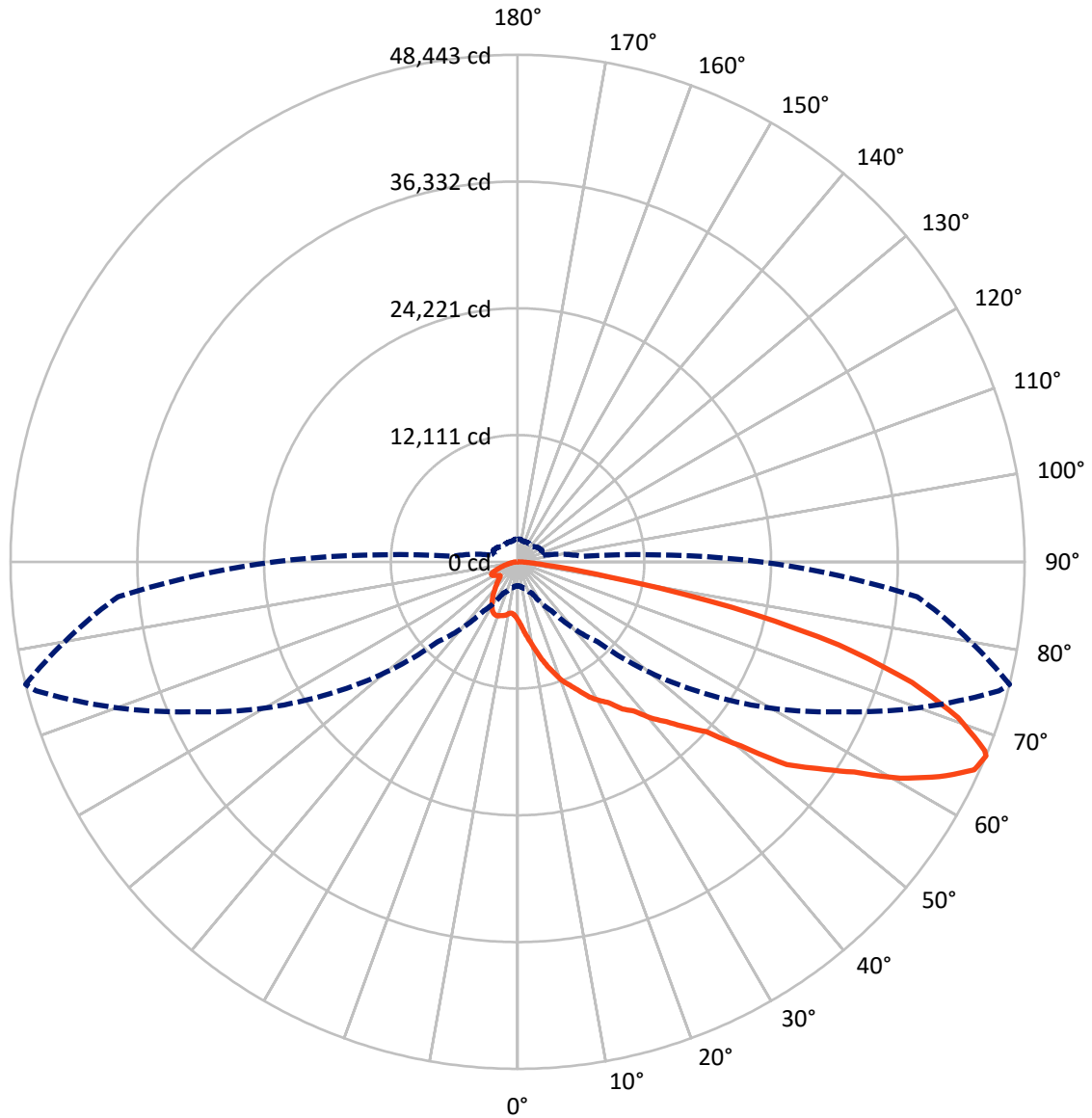
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 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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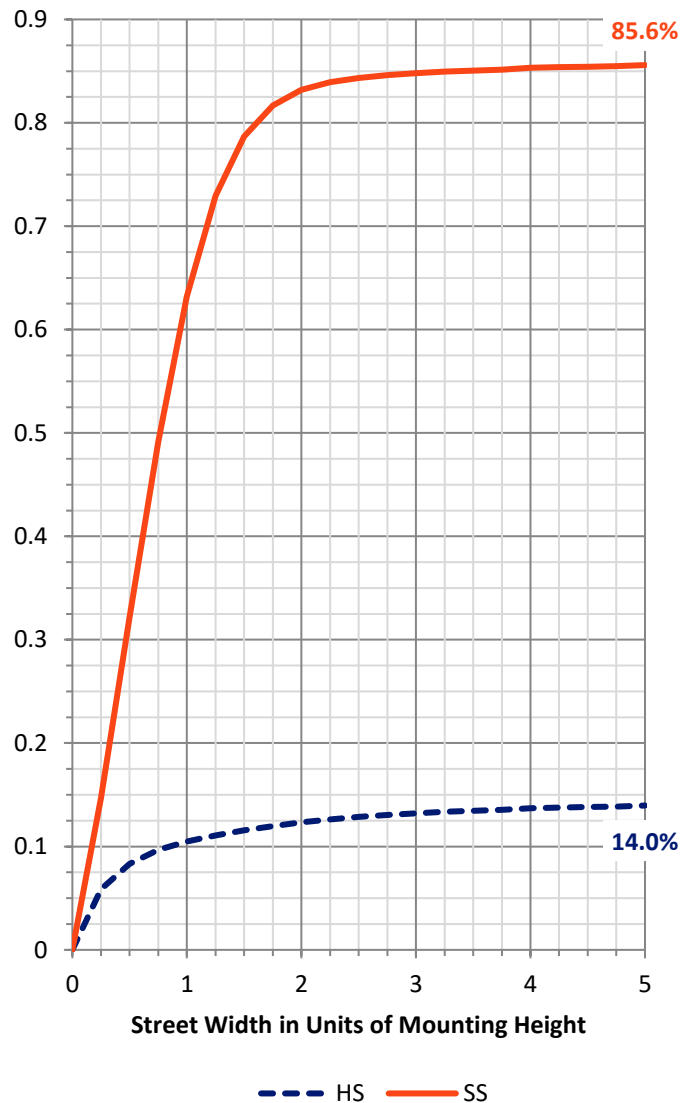
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7743.2	0.0	7743.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	46685.7	0.0	46685.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	54428.9	0.0	54428.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.2	1.2
10°-20°	2419.8	4.4
20°-30°	4498.8	8.3
30°-40°	7131.6	13.1
40°-50°	9863.7	18.1
50°-60°	12132.9	22.3
60°-70°	11290.3	20.7
70°-80°	5665.4	10.4
80°-90°	781.2	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°	54428.9	100.0
0°-180°	54428.9	100.0

Coefficient of Utilization

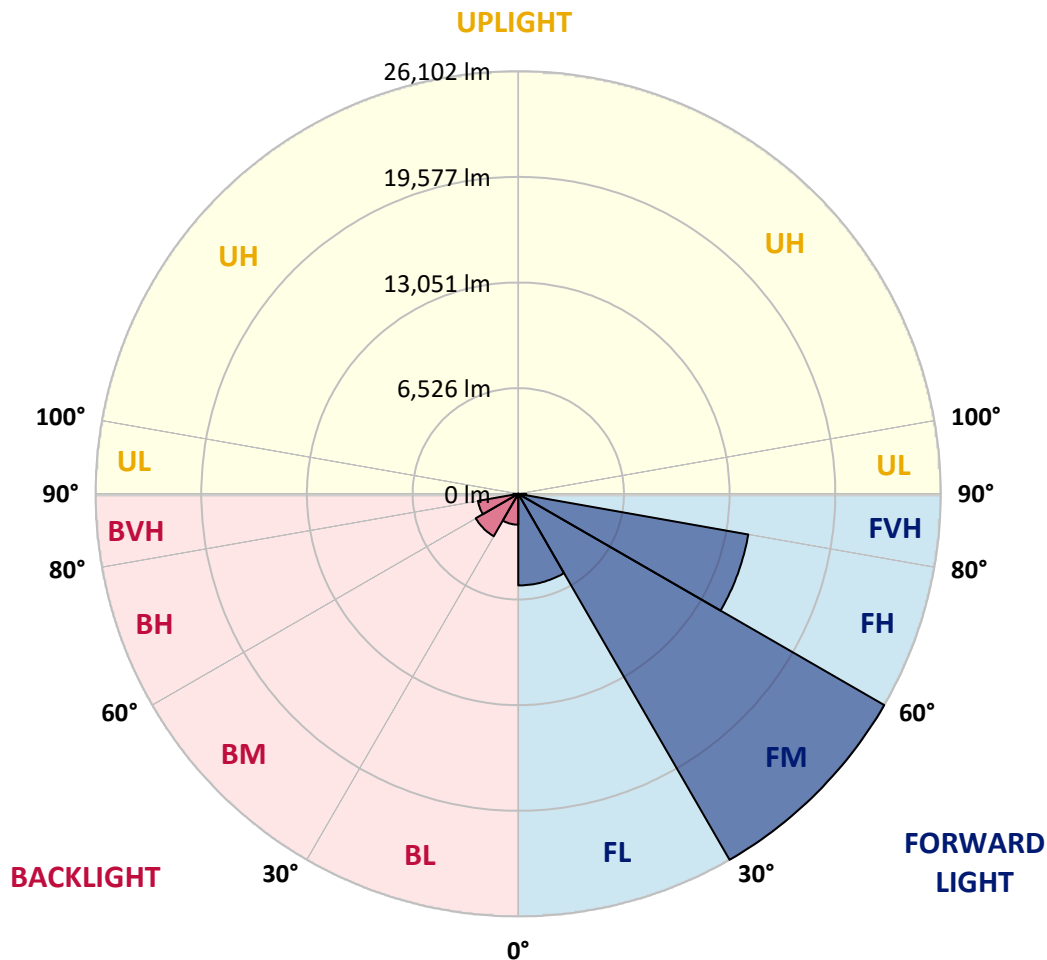


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5657.0	10.4			
FM (30°-60°)	26102.3	48.0			
FH (60°-80°)	14428.6	26.5			G5
FVH (80°-90°)	497.7	0.9			G3/500
BL (0°-30°)	1906.8	3.5	B3/2500		
BM (30°-60°)	3025.9	5.6	B3/5000		
BH (60°-80°)	2527.0	4.6	B4/5000		G4/5000
BVH (80°-90°)	283.5	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0
2.5°	7728.5	7635.4	7542.4	7343.9	7275.7	7089.6	6748.5	6370.1	6060.0	6016.6
5°	9589.3	9452.8	9421.8	9310.1	8956.6	8596.8	8038.6	7430.8	6674.0	6729.9
7.5°	10984.9	10904.2	10736.8	10631.3	10420.4	9942.8	9366.0	8559.6	7598.2	7412.1
10°	12039.3	11927.7	11921.5	11828.4	11716.8	11226.8	10786.4	9700.9	8466.6	8212.3
12.5°	12572.7	12554.1	12882.9	12882.9	12839.4	12634.8	11878.0	10885.6	9291.5	9204.7
15°	13149.6	12994.5	13279.8	13496.9	13608.6	13714.0	13087.6	12039.3	10346.0	10178.5
17.5°	13149.6	13137.2	13422.5	13782.2	14365.3	14501.8	14160.6	13100.0	11220.6	11096.5
20°	12926.3	13106.2	13304.6	13788.4	14421.1	14973.2	15072.4	14185.4	12188.2	12088.9
22.5°	13968.3	13794.7	13999.3	14185.4	14675.4	15512.8	15785.7	15140.6	13205.4	12827.0
25°	15717.5	15599.6	15450.8	15177.8	15382.5	15748.5	16164.1	15847.7	14073.8	13652.0
27.5°	17423.2	17429.4	17106.9	16511.4	16071.0	16145.4	16635.5	16468.0	14805.7	14619.6
30°	19848.4	19699.6	19339.8	18533.5	17671.3	16964.2	16883.6	17044.8	15736.1	15376.3
32.5°	21665.8	21696.8	21188.2	20028.3	18849.8	18273.0	17565.9	17634.1	16325.3	16058.6
35°	23135.8	23098.6	22738.8	21777.4	20381.8	19687.2	18731.9	18341.2	17696.1	17274.3
37.5°	24723.7	24419.8	23836.7	22751.3	21858.1	20896.7	19966.3	19085.5	18607.9	18099.3
40°	25362.6	25362.6	24581.0	24084.8	23024.2	22298.5	21696.8	20065.5	19718.2	19618.9
42.5°	24909.8	25188.9	24866.3	24301.9	23867.7	22949.7	22788.5	21082.7	21088.9	20890.5
45°	24866.3	24481.8	24215.1	24357.7	24153.0	24103.4	24512.8	22490.7	22528.0	22503.1
47.5°	23619.6	23445.9	23842.9	24078.6	24246.1	25015.2	26193.7	24171.7	24438.4	24252.3
50°	22379.1	22348.1	22596.2	23452.1	24177.9	25443.2	27794.0	26764.4	27638.9	27626.5
52.5°	18980.1	19308.8	20282.6	22093.8	23886.3	26026.2	29003.5	30076.6	31745.1	32197.9
55°	15729.9	15556.2	16995.2	19625.1	22614.8	26255.7	30355.7	32067.6	34523.8	34852.6
57.5°	12237.8	12560.3	13695.4	16219.9	19984.9	25120.7	31348.1	34033.8	37662.4	37916.7
60°	9130.3	9173.7	10420.4	12454.9	16486.6	22559.0	31670.6	36049.7	41259.9	41985.6
62.5°	5743.6	6004.1	6953.1	8956.6	12411.5	18973.8	30225.4	37271.6	45031.1	45223.4
65°	3095.1	3262.6	3975.9	5235.0	8671.3	14352.9	26392.2	36539.7	46805.1	47946.3
67°	2288.8	2319.8	2648.5	3343.2	5799.5	10805.0	22006.9	33891.2	47611.4	48442.6
67.5°	2146.1	2189.5	2450.0	3002.1	5142.0	9949.0	20859.4	32948.4	47251.6	48144.8
70°	1836.0	1848.4	1910.4	2065.5	2884.2	5985.5	14204.0	27000.1	43796.8	44652.7
72.5°	1631.3	1643.7	1668.5	1699.5	1953.8	3461.1	8640.3	20778.8	38065.5	39430.1
75°	1432.8	1476.2	1488.6	1463.8	1662.3	2251.6	4596.1	15270.9	31050.4	31714.1
77.5°	1215.7	1234.3	1259.1	1283.9	1482.4	1680.9	2208.1	10308.8	21312.2	20909.1
80°	1023.4	1029.6	1048.2	1066.9	1283.9	1283.9	1252.9	5570.0	9310.1	8900.8
82.5°	731.9	775.3	818.7	868.4	1066.9	862.2	818.7	2481.1	2946.2	2803.6
85°	285.3	347.3	539.6	595.5	676.1	465.2	545.8	1073.1	1228.1	1215.7
87.5°	49.6	55.8	148.9	229.5	248.1	161.3	260.5	384.6	459.0	496.2
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°
5570.0	0°	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0	5570.0
5799.5	2.5°	5619.6	5427.3	5197.8	4968.3	4819.4	4583.7	4565.1	4422.5	4403.9	4354.2
5985.5	5°	5663.0	5433.5	4968.3	4602.4	4434.9	4298.4	4329.4	4267.4	4248.8	4217.8
6401.1	7.5°	6004.1	5551.4	4856.7	4540.3	4416.3	4354.2	4354.2	4279.8	4224.0	4261.2
6909.7	10°	6227.4	5607.2	4943.5	4627.2	4527.9	4391.5	4441.1	4348.0	4379.1	4304.6
7499.0	12.5°	6587.2	5923.5	5123.4	4757.4	4596.1	4472.1	4521.7	4416.3	4391.5	4397.7
8131.6	15°	7071.0	6134.4	5204.0	4831.8	4720.2	4565.1	4527.9	4434.9	4341.8	4310.8
8826.3	17.5°	7523.8	6394.9	5259.8	4875.3	4695.4	4521.7	4478.3	4360.4	4329.4	4236.4
9614.1	20°	8063.4	6705.0	5334.3	4912.5	4602.4	4428.7	4317.0	4199.2	4093.7	4037.9
10327.4	22.5°	8423.2	6866.3	5371.5	4838.1	4465.9	4304.6	4068.9	3988.3	3839.4	3777.4
11015.9	25°	9012.4	7064.8	5278.4	4633.4	4224.0	3963.5	3752.6	3640.9	3535.5	3454.9
11487.3	27.5°	9161.3	7213.7	5061.3	4286.0	3839.4	3566.5	3386.6	3250.2	3181.9	3057.9
12163.4	30°	9595.5	7064.8	4738.8	3864.2	3473.5	3194.4	3014.5	2915.2	2754.0	2723.0
12703.0	32.5°	9874.6	7108.2	4329.4	3454.9	3051.7	2803.6	2685.7	2586.5	2543.1	2394.2
13527.9	35°	10339.8	6959.4	3913.9	3076.5	2704.3	2512.1	2412.8	2381.8	2239.1	2170.9
14235.0	37.5°	10637.5	6872.5	3498.3	2648.5	2326.0	2245.4	2276.4	2146.1	1972.4	1842.2
15140.6	40°	11158.5	6841.5	3026.9	2295.0	2065.5	2046.9	2146.1	1898.0	1581.7	1470.0
16226.1	42.5°	11909.1	6630.6	2660.9	1978.6	1860.8	1941.4	1960.0	1581.7	1401.8	1308.8
17683.7	45°	12628.6	6674.0	2301.2	1637.5	1618.9	1736.7	1693.3	1339.8	1234.3	1166.1
19364.6	47.5°	14011.7	6891.1	1947.6	1364.6	1457.6	1569.3	1315.0	1197.1	1097.9	1048.2
22410.1	50°	16151.7	7102.0	1637.5	1246.7	1377.0	1420.4	1128.9	1085.5	1079.3	980.0
24934.6	52.5°	17435.6	7021.4	1581.7	1395.6	1476.2	1420.4	1228.1	1197.1	1147.5	1104.1
27527.3	55°	19476.3	7257.1	1699.5	1631.3	1674.7	1364.6	1377.0	1364.6	1327.4	1215.7
30535.6	57.5°	21101.4	7412.1	1854.6	1823.6	1798.8	1420.4	1439.0	1445.2	1420.4	1370.8
33686.5	60°	23334.3	7722.3	2015.9	2022.1	2028.3	1544.5	1575.5	1612.7	1606.5	1587.9
36862.2	62.5°	24705.1	7579.6	2195.7	2295.0	2264.0	1798.8	1792.6	1817.4	1817.4	1848.4
38276.4	65°	24500.4	7052.4	2288.8	2536.9	2375.6	1984.8	1984.8	1997.2	2003.4	2065.5
38332.3	67°	23272.3	6109.6	2239.1	2574.1	2375.6	2059.3	2059.3	2071.7	2028.3	2189.5
37898.1	67.5°	22701.6	5830.5	2195.7	2543.1	2357.0	2053.1	2053.1	2059.3	2022.1	2177.1
34852.6	70°	19743.0	4329.4	1891.8	2251.6	2183.3	1997.2	1997.2	1960.0	1929.0	2133.7
30070.4	72.5°	16852.5	3144.7	1519.6	1916.6	1972.4	1922.8	1935.2	1842.2	1755.3	1898.0
23383.9	75°	12907.7	2313.6	1184.7	1476.2	1668.5	1798.8	1879.4	1643.7	1532.0	1569.3
12647.2	77.5°	7201.3	1507.2	936.6	1091.7	1271.5	1674.7	1805.0	1482.4	1252.9	1209.5
4273.6	80°	2443.8	880.8	688.5	812.5	874.6	1482.4	1687.1	1203.3	986.2	942.8
1445.2	82.5°	924.2	539.6	471.4	558.2	558.2	1172.3	1377.0	924.2	744.3	961.4
539.6	85°	421.8	322.5	310.1	322.5	322.5	719.5	973.8	601.7	669.9	576.8
198.5	87.5°	167.5	155.1	142.7	136.5	111.6	124.1	334.9	161.3	303.9	80.6
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°
5570.0
4379.1
4168.2
4298.4
4304.6
4379.1
4348.0
4162.0
4062.7
3727.8
3430.1
3033.1
2654.7
2357.0
2108.9
1798.8
1408.0
1265.3
1203.3
1054.4
973.8
1054.4
1246.7
1414.2
1600.3
1867.0
2071.7
2139.9
2127.5
2090.3
1860.8
1501.0
1209.5
911.8
980.0
508.6
74.4
0.0

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