

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: P574652

Luminaire Tested: **EPH-VN-06-735-U-T2R**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574652  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-T2R  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

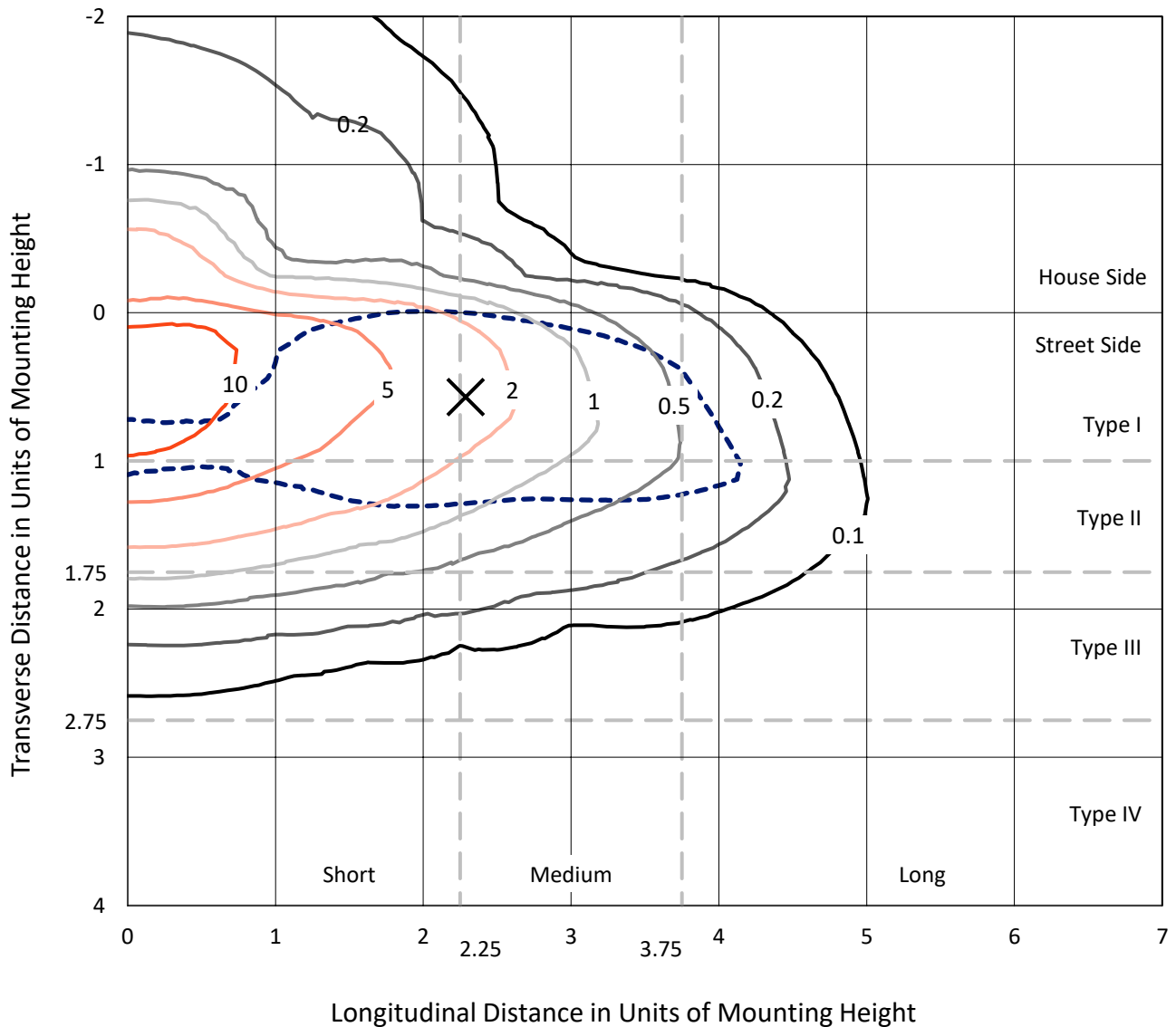
Lumens per Lamp: N/A  
Luminaire Lumens: 52481.4 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

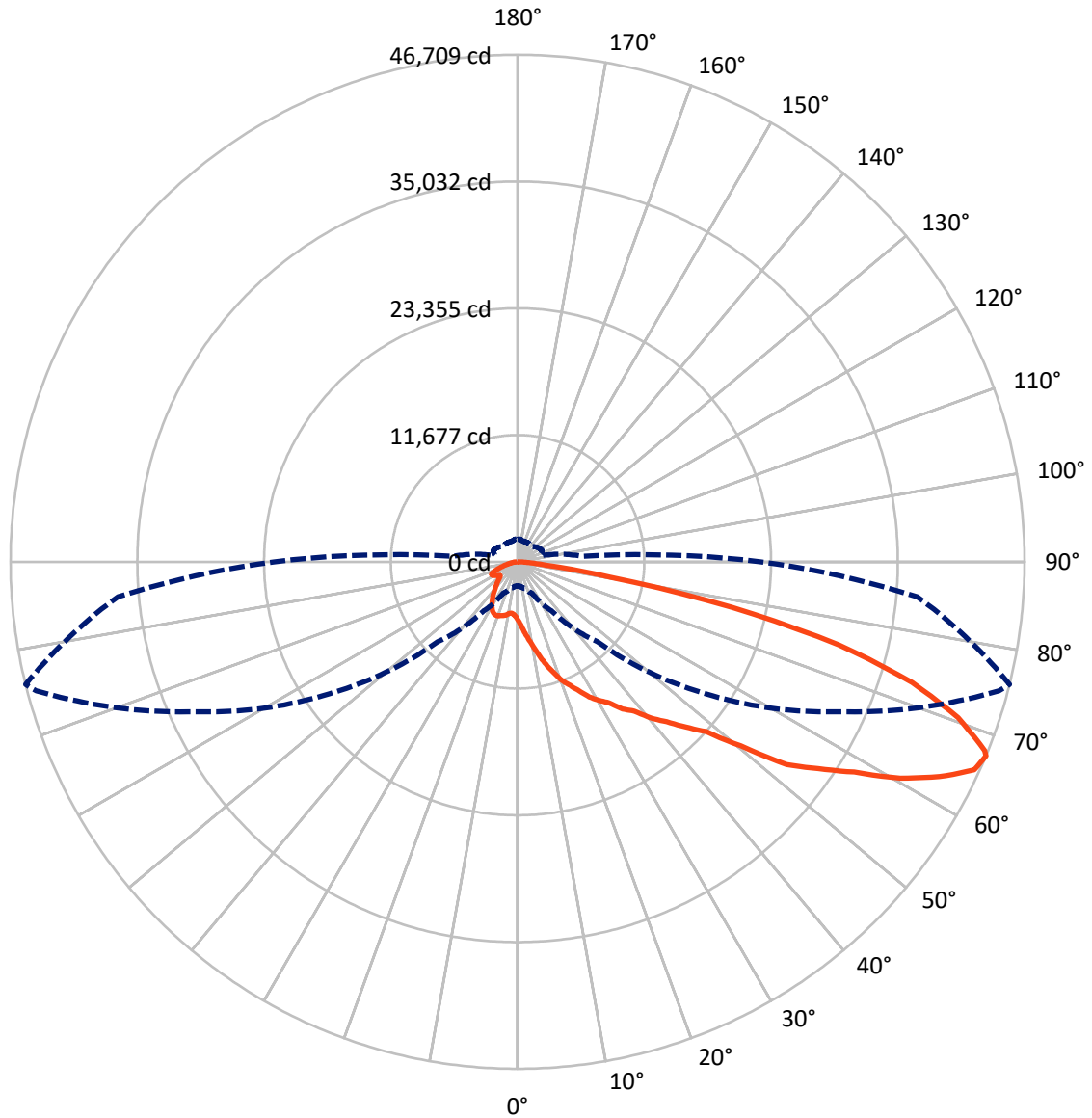
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 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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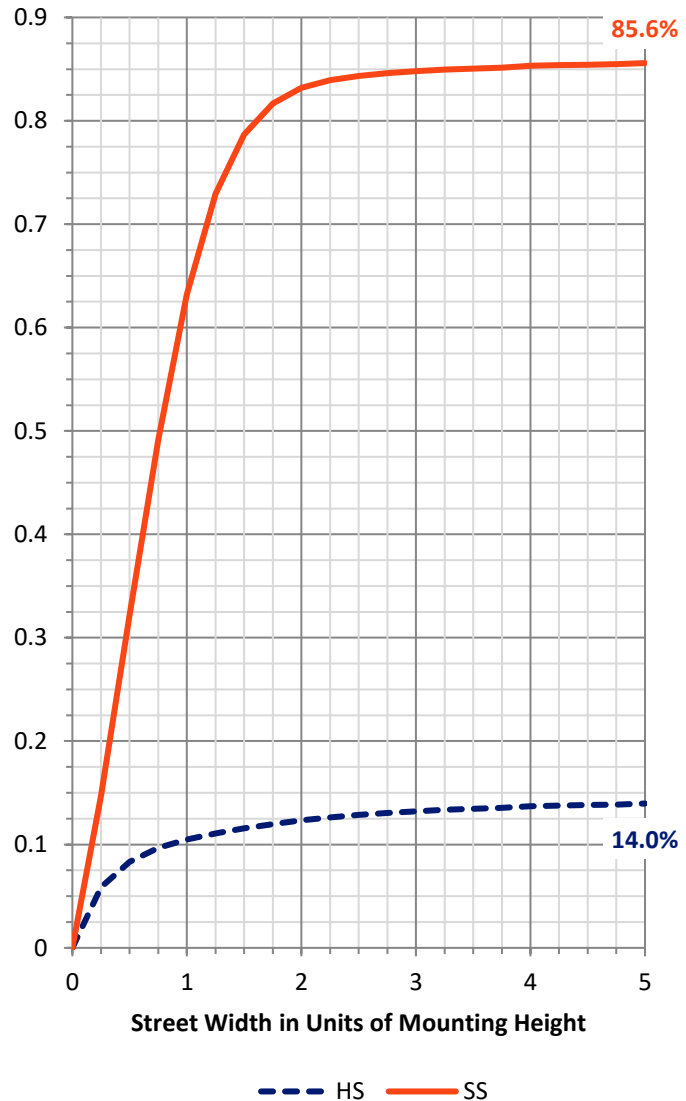
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7466.1	0.0	7466.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	45015.2	0.0	45015.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	52481.4	0.0	52481.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.1	1.2
10°-20°	2333.2	4.4
20°-30°	4337.8	8.3
30°-40°	6876.4	13.1
40°-50°	9510.7	18.1
50°-60°	11698.8	22.3
60°-70°	10886.3	20.7
70°-80°	5462.7	10.4
80°-90°	753.2	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°	52481.4	100.0
0°-180°	52481.4	100.0

**Coefficient of Utilization**

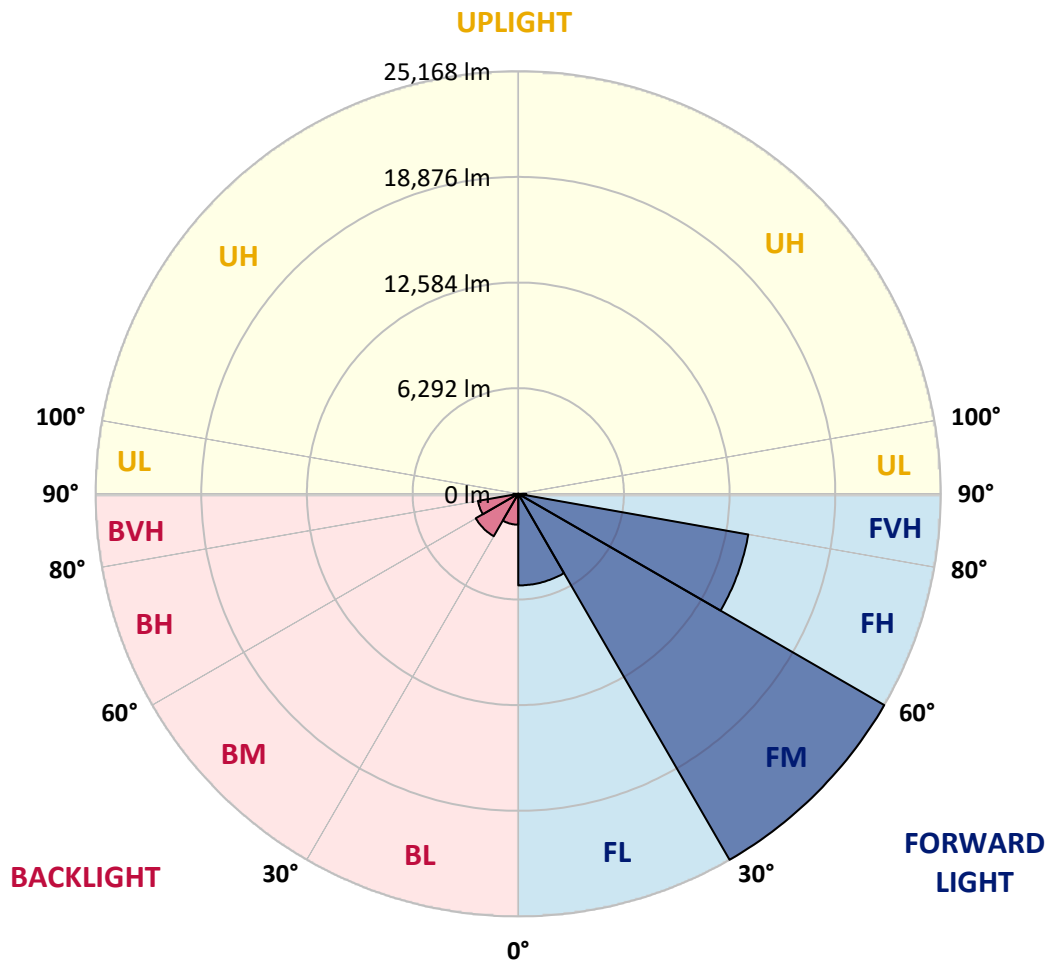


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5454.6	10.4			
FM (30°-60°)	25168.4	48.0			
FH (60°-80°)	13912.4	26.5			G5
FVH (80°-90°)	479.9	0.9			G3/500
BL (0°-30°)	1838.6	3.5	B3/2500		
BM (30°-60°)	2917.6	5.6	B3/5000		
BH (60°-80°)	2436.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	273.3	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°	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7
2.5°	7451.9	7362.2	7272.5	7081.1	7015.4	6835.9	6507.0	6142.2	5843.1	5801.3
5°	9246.2	9114.6	9084.7	8977.0	8636.1	8289.2	7751.0	7164.9	6435.2	6489.1
7.5°	10591.8	10514.1	10352.6	10250.9	10047.6	9587.1	9030.9	8253.4	7326.4	7146.9
10°	11608.5	11500.9	11494.9	11405.2	11297.5	10825.1	10400.4	9353.8	8163.7	7918.4
12.5°	12122.9	12104.9	12421.9	12421.9	12380.0	12182.7	11453.0	10496.1	8959.1	8875.4
15°	12679.1	12529.6	12804.7	13014.0	13121.7	13223.3	12619.3	11608.5	9975.8	9814.3
17.5°	12679.1	12667.1	12942.2	13289.1	13851.3	13982.9	13653.9	12631.2	10819.1	10699.5
20°	12463.8	12637.2	12828.6	13295.1	13905.1	14437.4	14533.1	13677.9	11752.1	11656.4
22.5°	13468.5	13301.1	13498.4	13677.9	14150.3	14957.7	15220.9	14598.9	12732.9	12368.1
25°	15155.1	15041.5	14897.9	14634.8	14832.1	15185.0	15585.7	15280.7	13570.2	13163.5
27.5°	16799.8	16805.8	16494.8	15920.6	15496.0	15567.8	16040.2	15878.8	14275.9	14096.5
30°	19138.2	18994.7	18647.8	17870.3	17039.0	16357.2	16279.5	16435.0	15173.0	14826.1
32.5°	20890.6	20920.5	20430.1	19311.7	18175.3	17619.1	16937.3	17003.1	15741.2	15484.0
35°	22308.0	22272.1	21925.2	20998.2	19652.6	18982.7	18061.7	17684.9	17062.9	16656.2
37.5°	23839.1	23546.0	22983.8	21937.2	21076.0	20149.0	19251.9	18402.6	17942.1	17451.7
40°	24455.1	24455.1	23701.5	23223.0	22200.3	21500.6	20920.5	19347.6	19012.6	18916.9
42.5°	24018.5	24287.6	23976.6	23432.4	23013.7	22128.6	21973.1	20328.4	20334.4	20143.0
45°	23976.6	23605.8	23348.6	23486.2	23288.8	23241.0	23635.7	21686.0	21721.9	21698.0
47.5°	22774.5	22607.0	22989.8	23217.1	23378.5	24120.2	25256.5	23306.8	23563.9	23384.5
50°	21578.4	21548.5	21787.7	22613.0	23312.8	24532.8	26799.5	25806.7	26650.0	26638.0
52.5°	18300.9	18617.9	19556.9	21303.2	23031.7	25095.0	27965.7	29000.4	30609.2	31045.8
55°	15167.0	14999.6	16387.1	18922.9	21805.6	25316.3	29269.5	30920.2	33288.6	33605.5
57.5°	11799.9	12110.9	13205.4	15639.5	19269.8	24221.8	30226.4	32816.1	36314.8	36560.0
60°	8803.6	8845.5	10047.6	12009.2	15896.7	21751.8	30537.4	34759.8	39783.6	40483.3
62.5°	5538.1	5789.3	6704.4	8636.1	11967.4	18295.0	29143.9	35938.0	43419.9	43605.3
65°	2984.4	3145.8	3833.6	5047.7	8361.0	13839.3	25447.9	35232.3	45130.3	46230.8
67°	2206.9	2236.8	2553.8	3223.6	5592.0	10418.4	21219.5	32678.5	45907.8	46709.2
67.5°	2069.3	2111.2	2362.4	2894.7	4958.0	9593.0	20113.1	31769.5	45561.0	46422.2
70°	1770.3	1782.2	1842.1	1991.6	2781.0	5771.4	13695.8	26034.0	42229.7	43055.0
72.5°	1572.9	1584.9	1608.8	1638.7	1883.9	3337.2	8331.1	20035.3	36703.5	38019.3
75°	1381.5	1423.4	1435.4	1411.4	1602.8	2171.0	4431.7	14724.5	29939.4	30579.3
77.5°	1172.2	1190.2	1214.1	1238.0	1429.4	1620.8	2129.1	9939.9	20549.7	20160.9
80°	986.8	992.8	1010.7	1028.7	1238.0	1238.0	1208.1	5370.7	8977.0	8582.3
82.5°	705.7	747.6	789.5	837.3	1028.7	831.3	789.5	2392.3	2840.8	2703.3
85°	275.1	334.9	520.3	574.1	651.9	448.6	526.3	1034.7	1184.2	1172.2
87.5°	47.8	53.8	143.5	221.3	239.2	155.5	251.2	370.8	442.6	478.5
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°
5370.7	0°	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7	5370.7
5592.0	2.5°	5418.5	5233.1	5011.8	4790.5	4647.0	4419.7	4401.8	4264.2	4246.3	4198.4
5771.4	5°	5460.4	5239.1	4790.5	4437.7	4276.2	4144.6	4174.5	4114.7	4096.8	4066.9
6172.1	7.5°	5789.3	5352.7	4682.9	4377.9	4258.3	4198.4	4198.4	4126.7	4072.9	4108.7
6662.5	10°	6004.6	5406.6	4766.6	4461.6	4365.9	4234.3	4282.2	4192.5	4222.4	4150.6
7230.7	12.5°	6351.5	5711.6	4940.1	4587.2	4431.7	4312.1	4359.9	4258.3	4234.3	4240.3
7840.7	15°	6818.0	5914.9	5017.8	4659.0	4551.3	4401.8	4365.9	4276.2	4186.5	4156.6
8510.5	17.5°	7254.6	6166.1	5071.6	4700.8	4527.4	4359.9	4318.1	4204.4	4174.5	4084.8
9270.1	20°	7774.9	6465.1	5143.4	4736.7	4437.7	4270.2	4162.6	4048.9	3947.3	3893.4
9957.9	22.5°	8121.8	6620.6	5179.3	4664.9	4306.1	4150.6	3923.3	3845.6	3702.1	3642.2
10621.7	25°	8690.0	6812.0	5089.6	4467.6	4072.9	3821.7	3618.3	3510.7	3409.0	3331.2
11076.3	27.5°	8833.5	6955.6	4880.2	4132.7	3702.1	3438.9	3265.5	3133.9	3068.1	2948.5
11728.1	30°	9252.1	6812.0	4569.3	3726.0	3349.2	3080.1	2906.6	2810.9	2655.4	2625.5
12248.5	32.5°	9521.3	6853.9	4174.5	3331.2	2942.5	2703.3	2589.6	2494.0	2452.1	2308.5
13043.9	35°	9969.8	6710.3	3773.8	2966.4	2607.6	2422.2	2326.5	2296.6	2159.0	2093.2
13725.7	37.5°	10256.9	6626.6	3373.1	2553.8	2242.8	2165.0	2194.9	2069.3	1901.9	1776.3
14598.9	40°	10759.3	6596.7	2918.6	2212.9	1991.6	1973.6	2069.3	1830.1	1525.1	1417.4
15645.5	42.5°	11482.9	6393.4	2565.7	1907.8	1794.2	1872.0	1889.9	1525.1	1351.6	1261.9
17051.0	45°	12176.7	6435.2	2218.8	1578.9	1561.0	1674.6	1632.7	1291.8	1190.2	1124.4
18671.7	47.5°	13510.4	6644.6	1877.9	1315.8	1405.5	1513.1	1267.9	1154.3	1058.6	1010.7
21608.3	50°	15573.7	6847.9	1578.9	1202.1	1327.7	1369.6	1088.5	1046.6	1040.6	945.0
24042.4	52.5°	16811.7	6770.1	1525.1	1345.7	1423.4	1369.6	1184.2	1154.3	1106.4	1064.6
26542.3	55°	18779.4	6997.4	1638.7	1572.9	1614.8	1315.8	1327.7	1315.8	1279.9	1172.2
29443.0	57.5°	20346.3	7146.9	1788.2	1758.3	1734.4	1369.6	1387.5	1393.5	1369.6	1321.7
32481.2	60°	22499.4	7446.0	1943.7	1949.7	1955.7	1489.2	1519.1	1555.0	1549.0	1531.1
35543.3	62.5°	23821.1	7308.4	2117.2	2212.9	2183.0	1734.4	1728.4	1752.3	1752.3	1782.2
36906.9	65°	23623.8	6800.1	2206.9	2446.1	2290.6	1913.8	1913.8	1925.8	1931.8	1991.6
36960.7	67°	22439.6	5891.0	2159.0	2482.0	2290.6	1985.6	1985.6	1997.6	1955.7	2111.2
36542.1	67.5°	21889.4	5621.9	2117.2	2452.1	2272.7	1979.6	1979.6	1985.6	1949.7	2099.2
33605.5	70°	19036.6	4174.5	1824.1	2171.0	2105.2	1925.8	1925.8	1889.9	1860.0	2057.4
28994.4	72.5°	16249.6	3032.2	1465.3	1848.0	1901.9	1854.0	1866.0	1776.3	1692.5	1830.1
22547.2	75°	12445.8	2230.8	1142.3	1423.4	1608.8	1734.4	1812.2	1584.9	1477.2	1513.1
12194.6	77.5°	6943.6	1453.3	903.1	1052.6	1226.0	1614.8	1740.4	1429.4	1208.1	1166.2
4120.7	80°	2356.4	849.3	663.9	783.5	843.3	1429.4	1626.7	1160.3	950.9	909.1
1393.5	82.5°	891.1	520.3	454.5	538.3	538.3	1130.4	1327.7	891.1	717.7	927.0
520.3	85°	406.7	311.0	299.0	311.0	311.0	693.8	939.0	580.1	645.9	556.2
191.4	87.5°	161.5	149.5	137.6	131.6	107.7	119.6	323.0	155.5	293.1	77.7
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°  
5370.7  
4222.4  
4019.0  
4144.6  
4150.6  
4222.4  
4192.5  
4013.0  
3917.4  
3594.4  
3307.3  
2924.6  
2559.7  
2272.7  
2033.4  
1734.4  
1357.6  
1220.1  
1160.3  
1016.7  
939.0  
1016.7  
1202.1  
1363.6  
1543.0  
1800.2  
1997.6  
2063.3  
2051.4  
2015.5  
1794.2  
1447.3  
1166.2  
879.2  
945.0  
490.4  
71.8  
0.0

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