

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: P574772

Luminaire Tested: **EPH-VN-06-735-U-T4FT**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574772  
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-T4FT  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

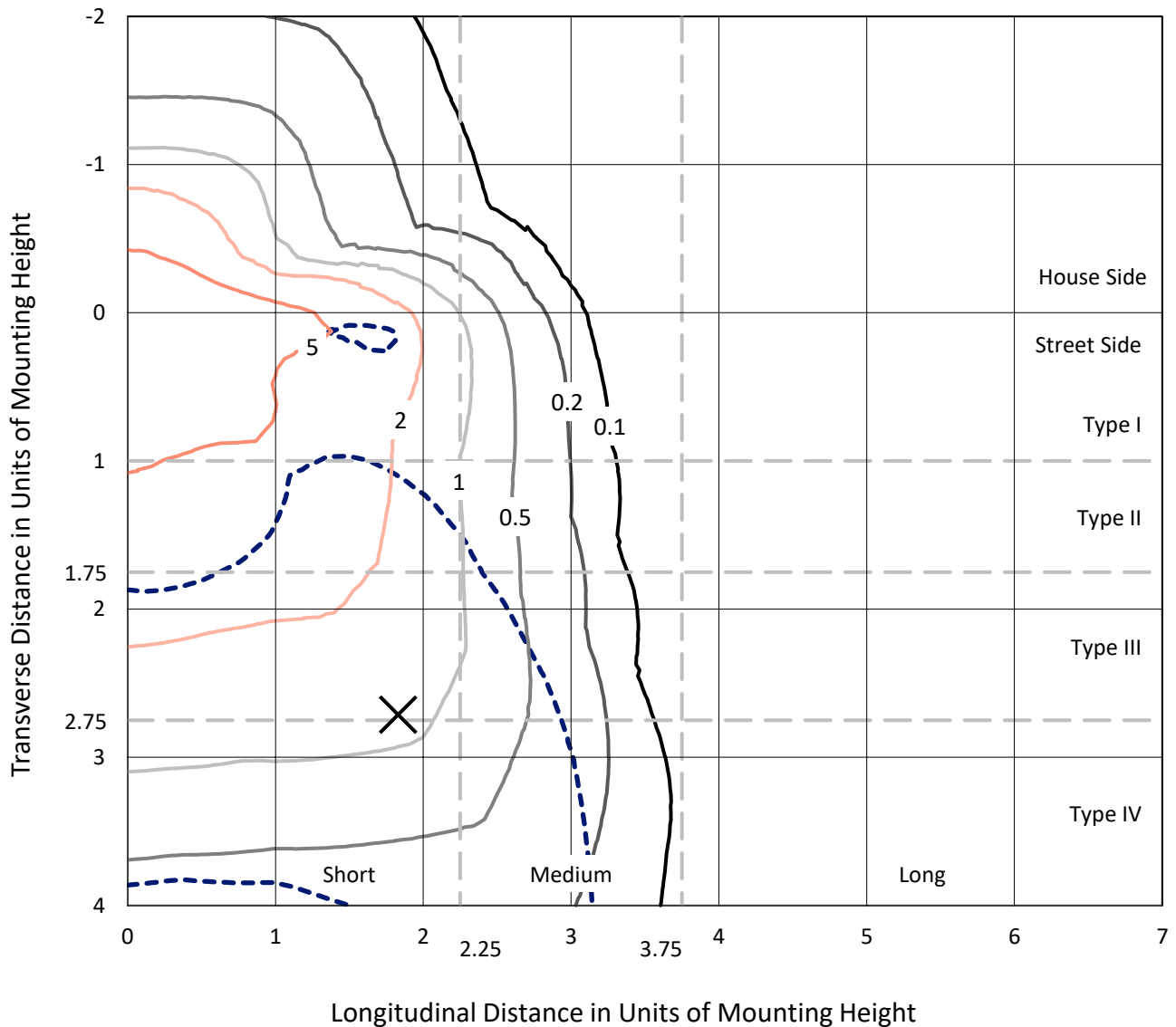
Lumens per Lamp: N/A  
Luminaire Lumens: 53466.2 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

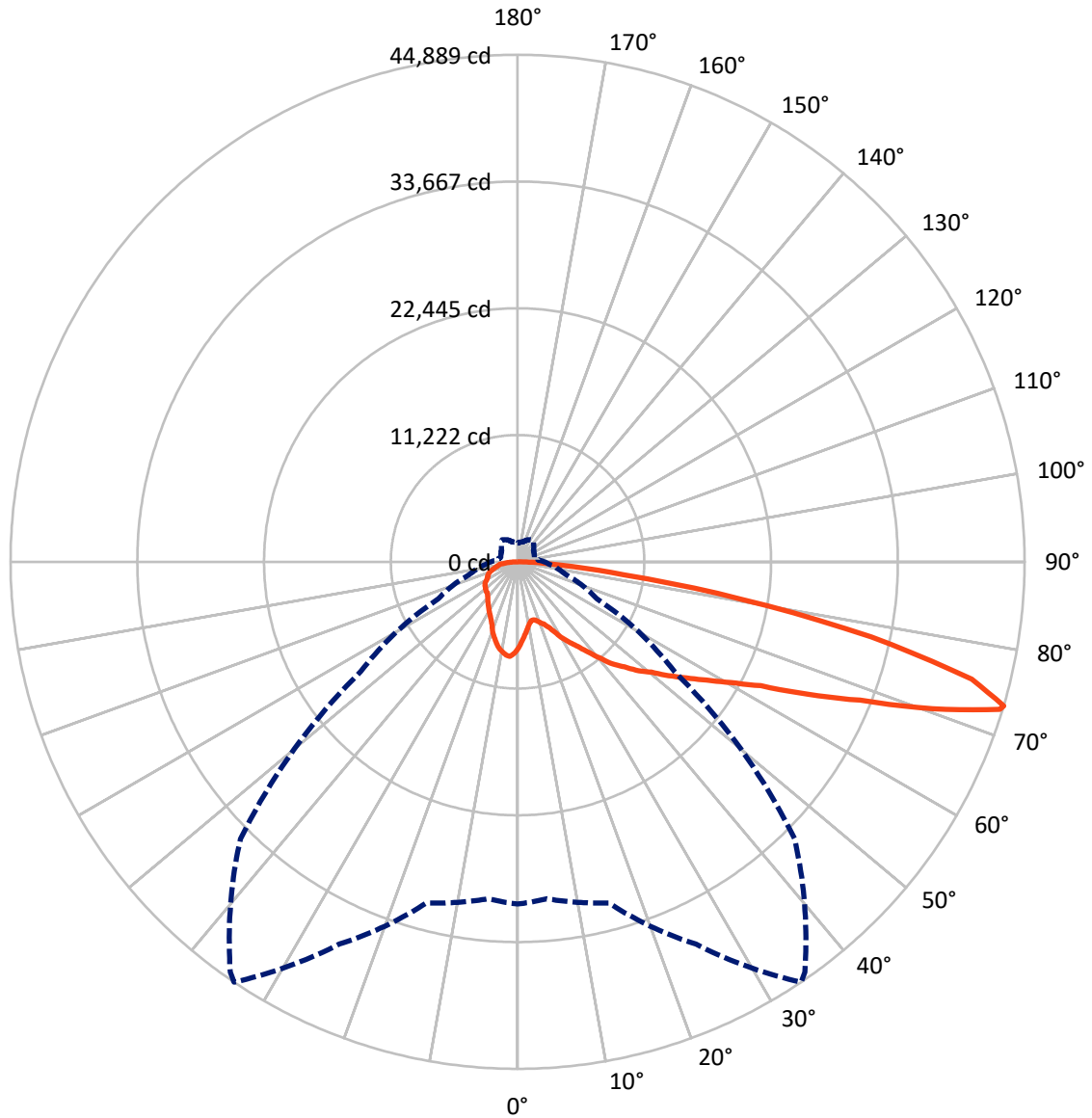
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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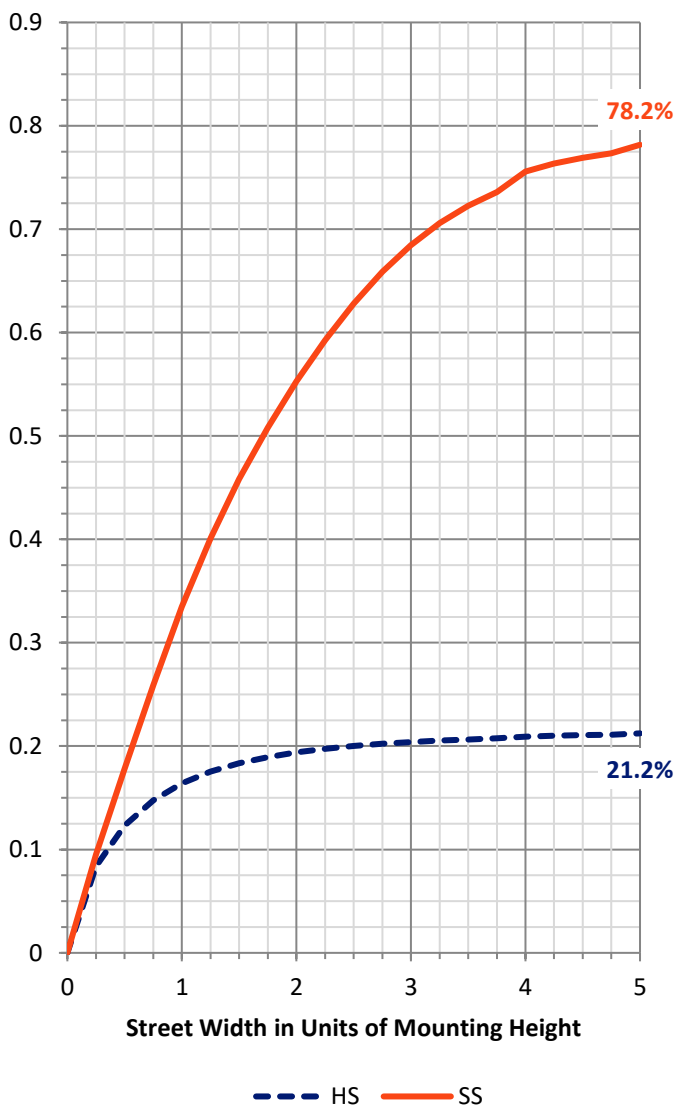
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11549.4	0.0	11549.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	41916.9	0.0	41916.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	53466.2	0.0	53466.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.5	1.3
10°-20°	1979.9	3.7
20°-30°	3258.6	6.1
30°-40°	4873.2	9.1
40°-50°	7224.4	13.5
50°-60°	10411.1	19.5
60°-70°	13285.9	24.8
70°-80°	10338.7	19.3
80°-90°	1387.0	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°	53466.2	100.0
0°-180°	53466.2	100.0

**Coefficient of Utilization**

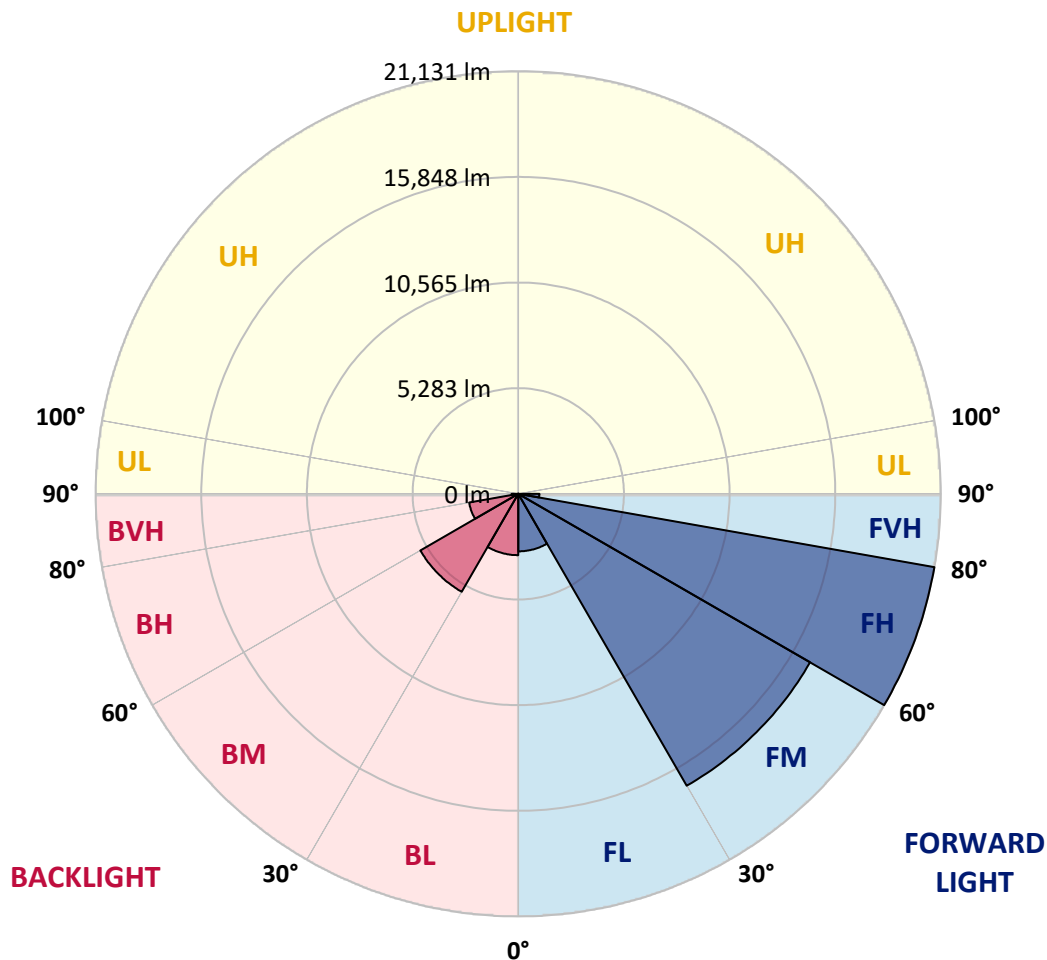


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2877.4	5.4			
FM (30°-60°)	16852.9	31.5			
FH (60°-80°)	21130.8	39.5			G5
FVH (80°-90°)	1055.7	2.0			G5
BL (0°-30°)	3068.6	5.7	B4/5000		
BM (30°-60°)	5655.8	10.6	B4/8500		
BH (60°-80°)	2493.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	331.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2
2.5°	6868.2	6890.8	6964.3	6981.2	7060.4	7015.1	7111.2	7280.8	7376.9	7518.2
5°	6325.5	6229.4	6274.6	6449.9	6540.3	6562.9	6664.7	6953.0	7133.9	7343.0
7.5°	5686.7	5669.8	5760.2	5873.3	6054.2	6071.1	6297.2	6551.6	6924.7	7388.2
10°	5251.5	5325.0	5375.8	5494.5	5618.9	5618.9	5907.2	6348.1	6772.1	7218.7
12.5°	5228.9	5183.6	5194.9	5257.1	5347.6	5460.6	5732.0	6127.7	6664.7	7184.7
15°	5302.3	5319.3	5217.6	5296.7	5330.6	5370.2	5669.8	6116.4	6596.8	7303.4
17.5°	5692.4	5596.3	5438.0	5364.5	5483.2	5483.2	5686.7	6037.2	6608.1	7365.6
20°	5997.6	5997.6	5737.6	5658.5	5743.3	5726.3	5867.6	6127.7	6664.7	7490.0
22.5°	6512.0	6585.5	6155.9	5992.0	5986.3	6031.6	6155.9	6376.4	6823.0	7665.2
25°	7252.6	7269.5	6772.1	6602.5	6421.6	6495.1	6517.7	6738.2	6964.3	7868.7
27.5°	8077.9	8066.6	7608.7	7184.7	7066.0	7083.0	6958.6	7105.6	7173.4	7930.9
30°	8993.6	8891.9	8547.1	7947.9	7851.8	7744.4	7473.0	7467.4	7608.7	8281.4
32.5°	9592.8	9462.8	9225.4	8795.8	8530.1	8541.4	8111.8	8106.1	7981.8	8665.8
35°	10180.7	9982.9	9920.7	9479.8	9214.1	9242.4	8897.5	8852.3	8626.2	9248.0
37.5°	10887.3	10712.1	10808.2	10474.7	10146.8	10011.1	9852.9	9796.3	9502.4	10067.7
40°	11667.4	11610.9	11548.7	11384.8	11186.9	11198.2	11028.7	10972.1	10536.9	11056.9
42.5°	12718.8	12504.0	12181.8	12289.2	12391.0	12498.4	12441.9	12294.9	11842.7	12063.1
45°	13696.8	13414.1	12820.6	12854.5	13272.8	13357.6	14041.6	14024.6	13114.5	13340.7
47.5°	14358.2	14228.1	13872.0	13832.4	14431.6	14426.0	15658.3	15658.3	14454.3	14612.5
50°	15341.8	15002.6	14850.0	15047.8	15353.1	15562.2	17308.9	17416.3	15771.4	15941.0
52.5°	16494.9	16071.0	15686.6	16195.3	16738.0	16873.7	18942.6	18897.4	16783.2	17484.2
55°	17450.3	17235.4	16969.8	17263.7	18151.2	18320.8	20581.9	20163.6	17795.1	18761.7
57.5°	18563.9	18693.9	18750.4	18676.9	19734.0	19999.7	22453.0	21254.6	18665.6	19620.9
60°	20242.7	20321.9	20395.4	20570.6	21689.9	22063.0	23934.0	22622.6	19213.9	20118.4
62.5°	22797.8	22492.6	22656.5	23261.4	24160.1	24584.1	26116.0	23583.6	19632.2	20418.0
65°	25720.3	25307.7	25138.1	25918.2	28247.1	27908.0	28840.7	24301.5	19027.4	19298.7
67.5°	28682.4	28727.6	28292.4	29858.2	32712.9	32712.9	31373.1	24646.3	17388.1	15641.4
70°	31034.0	31175.3	31412.7	34448.3	38970.5	39654.5	34510.5	23233.1	14047.3	10412.5
72.5°	31000.1	30576.1	31791.5	37382.1	44657.3	44086.3	35166.2	18371.7	8767.5	5098.8
73°	30304.8	29948.6	31277.0	37353.8	44889.0	44352.0	34685.7	16935.8	7733.1	4420.5
75°	24748.0	24103.6	26364.7	33832.1	41531.3	41943.9	29468.1	11045.6	4239.6	2724.7
77.5°	11283.0	11565.7	14510.8	22696.1	32006.3	32492.4	19372.2	4776.6	2323.3	1910.7
80°	3623.5	3804.3	5647.2	11283.0	20061.9	20938.0	8954.1	2170.7	1656.3	1464.1
82.5°	1384.9	1379.3	2368.5	4691.8	9508.0	10067.7	3273.0	1322.8	1232.3	1079.7
85°	486.1	508.8	893.1	1854.1	3742.2	3917.4	1136.2	734.9	853.6	723.6
87.5°	169.6	175.2	316.6	672.7	1288.8	1362.3	316.6	293.9	424.0	418.3
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°
7665.2	0°	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2	7665.2
7687.8	2.5°	7744.4	7795.2	7812.2	8015.7	8015.7	8015.7	8094.8	8094.8	8072.2	8015.7
7659.6	5°	7778.3	7868.7	8044.0	8219.2	8264.4	8304.0	8411.4	8320.9	8354.9	8298.3
7761.3	7.5°	7874.4	7998.7	8326.6	8434.0	8360.5	8445.3	8332.3	8270.1	8207.9	8230.5
7783.9	10°	8038.3	8196.6	8349.2	8547.1	8405.7	8320.9	8089.2	8032.7	7834.8	7767.0
7880.0	12.5°	8241.8	8434.0	8694.0	8620.5	8349.2	8106.1	7857.4	7620.0	7501.3	7331.7
8044.0	15°	8445.3	8665.8	8705.3	8581.0	8241.8	7936.6	7484.3	7150.8	7032.1	6879.5
8281.4	17.5°	8665.8	8874.9	8807.1	8484.9	8027.0	7563.5	7049.1	6721.2	6472.5	6376.4
8547.1	20°	8993.6	9095.4	8988.0	8326.6	7767.0	7156.5	6659.0	6285.9	6037.2	5997.6
8801.4	22.5°	9248.0	9411.9	8931.5	8094.8	7388.2	6625.1	6054.2	5912.8	5839.4	5777.2
9089.7	25°	9575.9	9570.2	8829.7	7880.0	6738.2	5992.0	5647.2	5635.9	5601.9	5579.3
9502.4	27.5°	9886.8	9756.8	8711.0	7348.7	6065.5	5511.5	5325.0	5449.3	5500.2	5466.3
10073.3	30°	10378.6	10163.8	8541.4	6783.4	5471.9	5025.4	5059.3	5228.9	5313.7	5364.5
10570.8	32.5°	10898.6	10570.8	8190.9	6195.5	4946.2	4720.1	4799.2	4974.5	5076.2	5132.8
11390.4	35°	11650.5	10887.3	7834.8	5426.7	4567.5	4533.6	4578.8	4674.9	4821.9	4861.4
12509.7	37.5°	12577.5	11367.8	7354.3	4810.5	4273.5	4313.1	4358.3	4392.2	4397.9	4471.4
13583.7	40°	13504.6	11774.8	6653.4	4222.7	3968.3	4183.1	4160.5	4098.3	4047.4	3979.6
14782.1	42.5°	14318.6	12131.0	5873.3	3725.2	3696.9	4047.4	3973.9	3815.7	3696.9	3646.1
16144.5	45°	15234.3	12634.1	5087.5	3414.3	3487.8	3883.5	3860.9	3617.8	3465.2	3284.3
17608.5	47.5°	16421.4	13159.8	4335.7	3092.1	3289.9	3821.3	3832.6	3521.7	3301.2	3058.2
19524.8	50°	17942.0	13917.2	3764.8	2956.4	3171.2	3730.9	3747.8	3391.7	3103.4	2854.7
21769.0	52.5°	19400.5	14691.7	3289.9	2747.3	3092.1	3623.5	3663.0	3273.0	2939.5	2628.6
22848.7	55°	20135.3	14409.0	2882.9	2594.6	2911.2	3448.2	3595.2	3188.2	2690.7	2475.9
23481.8	57.5°	20299.3	13713.7	2560.7	2436.4	2758.6	3261.7	3482.1	2933.8	2577.7	2396.8
23532.7	60°	19762.3	12498.4	2306.4	2266.8	2566.4	3069.5	3222.1	2798.1	2464.6	2317.7
21870.8	62.5°	18439.5	11237.8	2131.1	2187.6	2402.4	2860.3	3058.2	2702.0	2357.2	2255.5
18546.9	65°	15121.3	9242.4	1989.8	2035.0	2232.9	2656.8	2956.4	2594.6	2261.1	2165.0
13007.1	67.5°	10474.7	6370.7	1876.7	1961.5	2097.2	2509.9	2854.7	2475.9	2136.8	2102.8
7111.2	70°	5364.5	3397.3	1729.8	1797.6	1950.2	2323.3	2673.8	2351.6	2006.8	2001.1
3261.7	72.5°	2719.0	1989.8	1560.2	1661.9	1769.3	2080.2	2447.7	2187.6	1842.8	1780.6
2899.9	73°	2351.6	1842.8	1531.9	1622.4	1724.1	2012.4	2379.8	2148.1	1820.2	1729.8
2040.7	75°	1712.8	1452.8	1373.6	1464.1	1543.2	1814.6	2153.7	1967.2	1673.2	1577.1
1503.6	77.5°	1283.2	1119.3	1141.9	1243.6	1311.5	1565.8	1916.3	1780.6	1515.0	1384.9
1124.9	80°	944.0	853.6	944.0	1040.1	1091.0	1379.3	1746.7	1543.2	1277.5	1130.6
797.0	82.5°	672.7	621.8	729.2	791.4	814.0	1141.9	1571.5	1232.3	966.6	774.4
457.9	85°	384.4	378.7	491.8	486.1	503.1	667.0	1034.5	819.7	621.8	474.8
231.8	87.5°	169.6	186.5	248.7	197.8	209.2	316.6	440.9	305.3	254.4	141.3
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°  
7665.2  
8151.4  
8349.2  
8151.4  
7829.2  
7376.9  
6958.6  
6376.4  
5935.5  
5698.0  
5686.7  
5511.5  
5296.7  
5194.9  
4878.4  
4443.1  
3962.6  
3561.3  
3261.7  
3024.3  
2832.1  
2645.5  
2470.3  
2374.2  
2283.7  
2182.0  
2159.4  
2057.6  
1944.6  
1690.2  
*1645.0*  
1498.0  
1351.0  
1102.3  
712.3  
463.5  
107.4  
0.0

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