

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: P574774

Luminaire Tested: **EPH-VN-08-735-U-T4FT**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574774  
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-T4FT  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

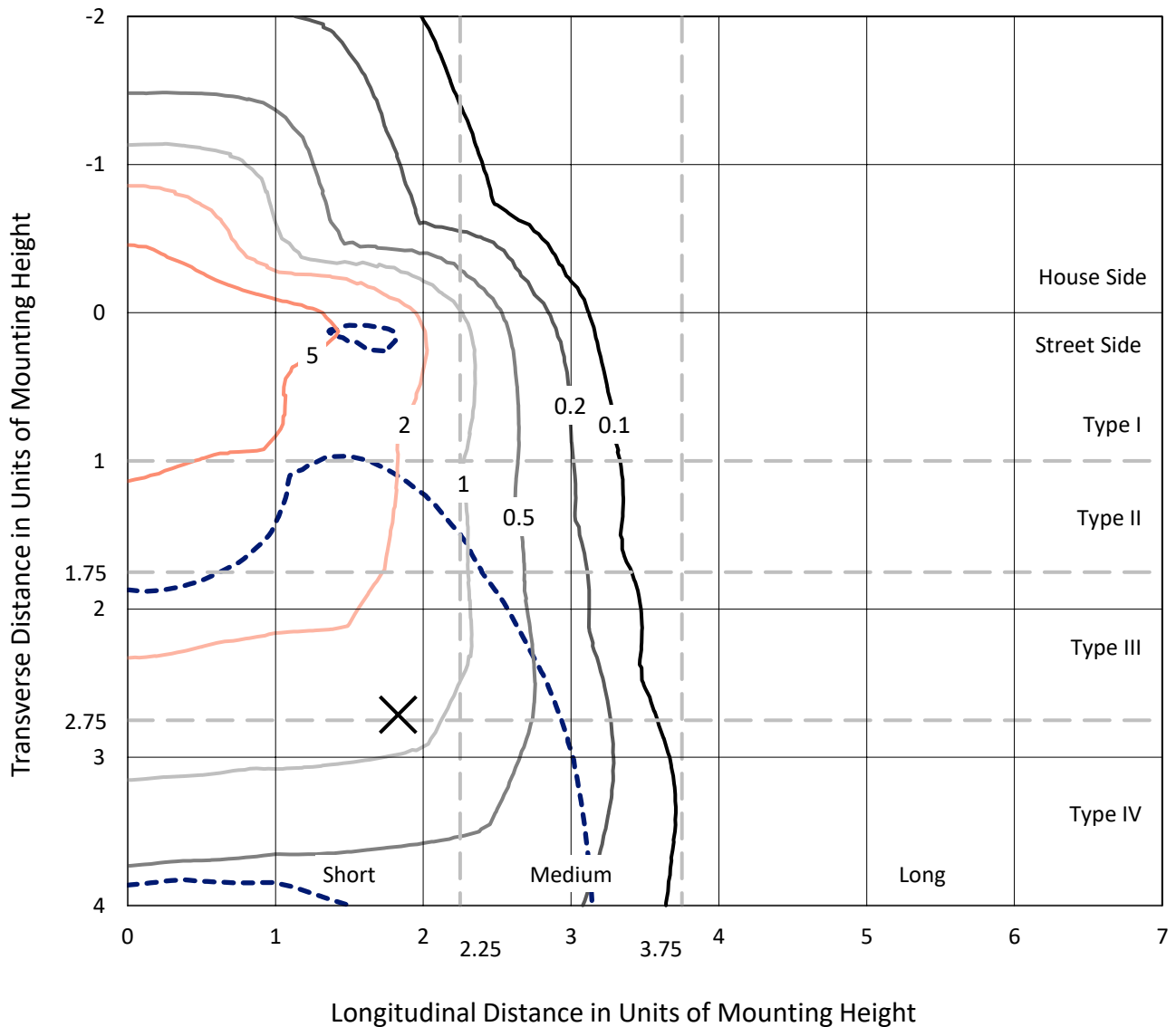
Lumens per Lamp: N/A  
Luminaire Lumens: 56330.5 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P574774  
 CATALOG NUMBER: EPH-VN-08-735-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

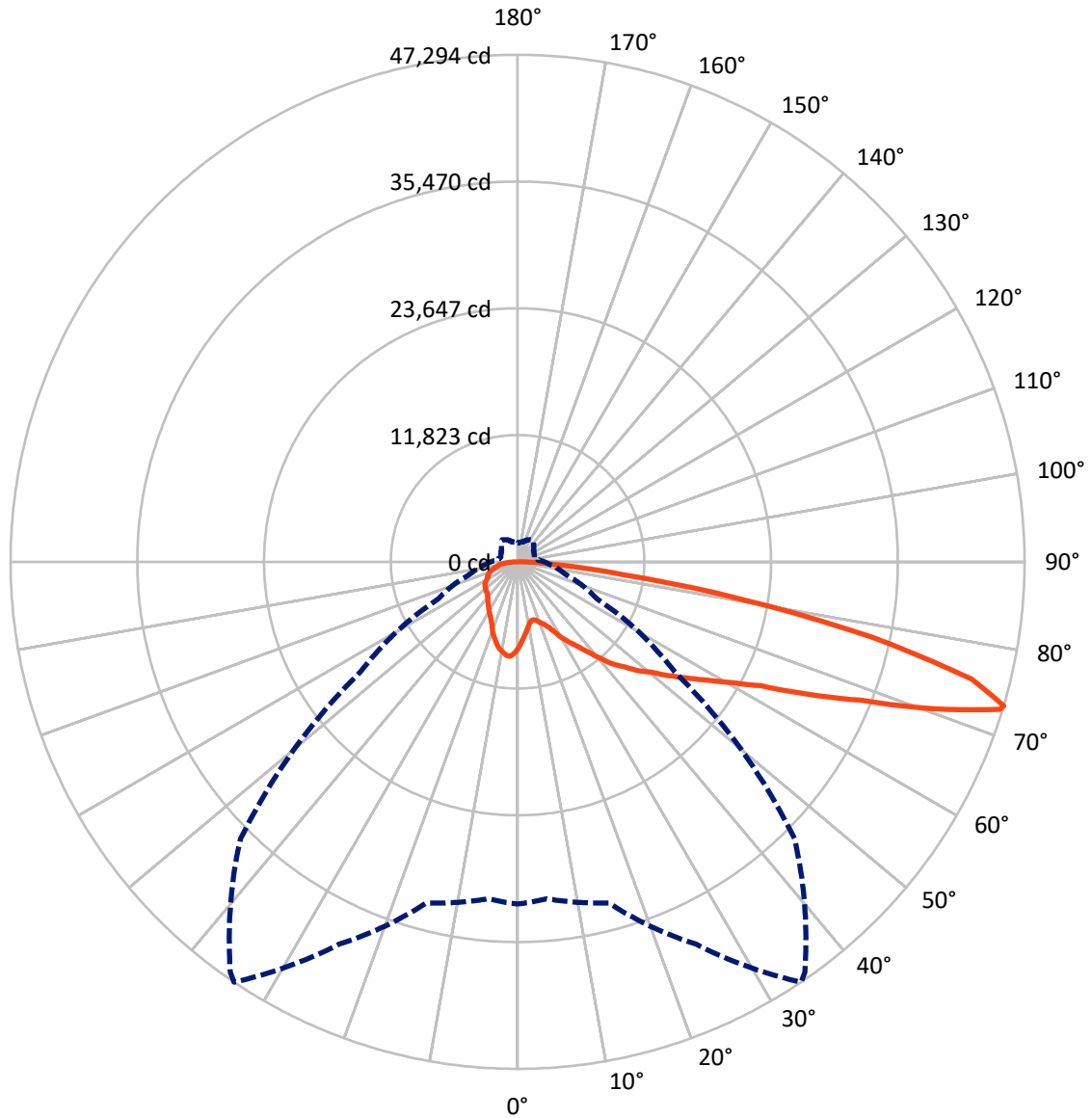
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P574774  
CATALOG NUMBER: EPH-VN-08-735-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P574774  
 CATALOG NUMBER: EPH-VN-08-735-U-T4FT

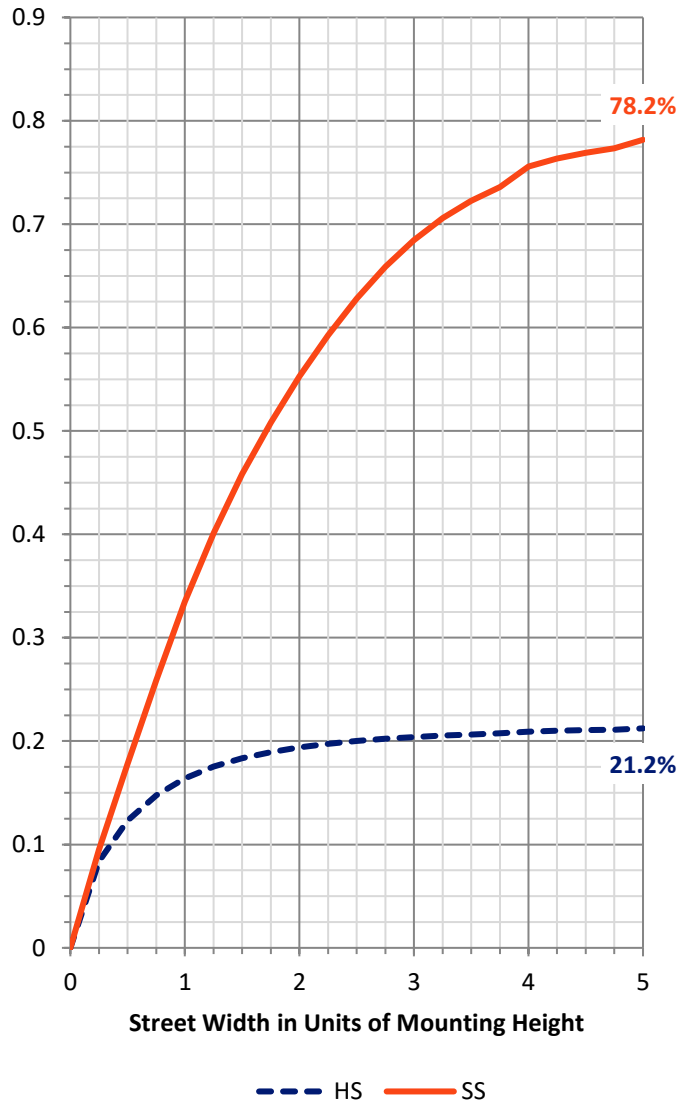
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12168.1	0.0	12168.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	44162.4	0.0	44162.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	56330.5	0.0	56330.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.4	1.3
10°-20°	2086.0	3.7
20°-30°	3433.2	6.1
30°-40°	5134.3	9.1
40°-50°	7611.4	13.5
50°-60°	10968.8	19.5
60°-70°	13997.7	24.8
70°-80°	10892.5	19.3
80°-90°	1461.3	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°	56330.5	100.0
0°-180°	56330.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P574774

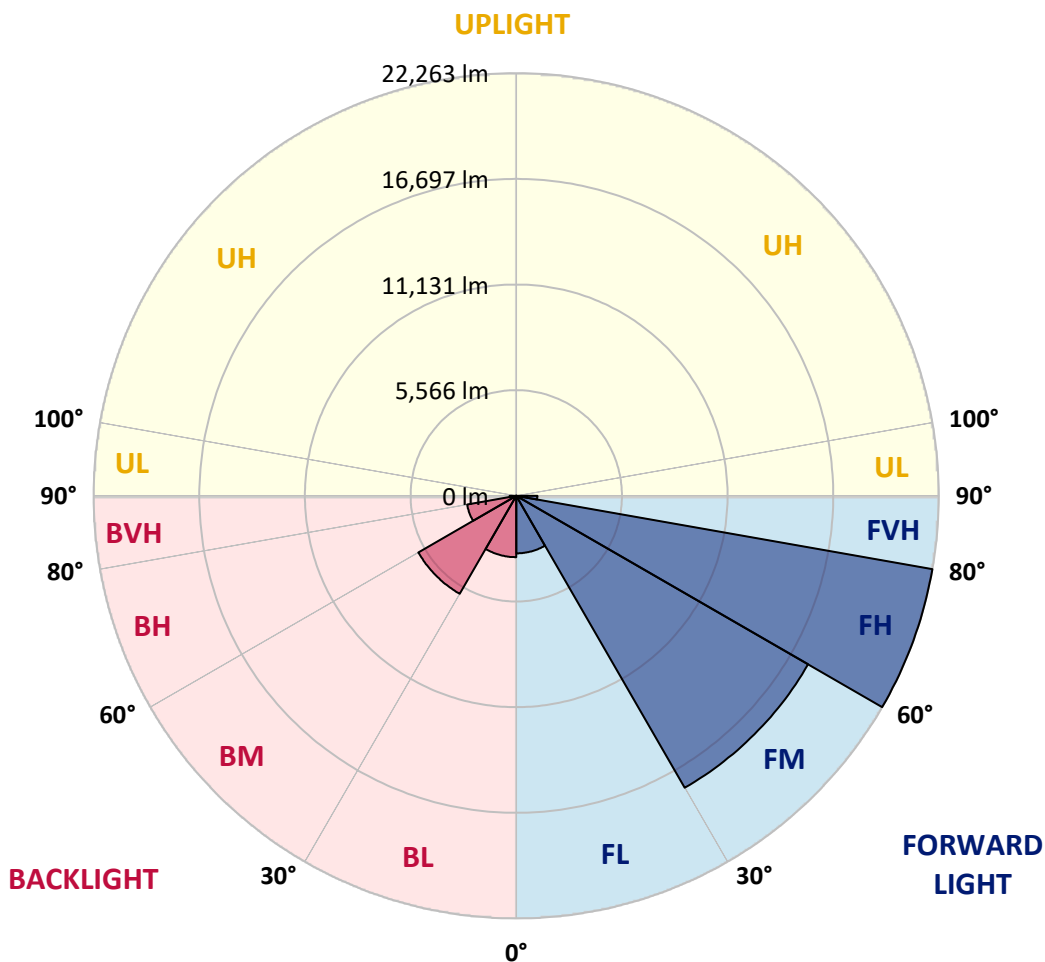
CATALOG NUMBER: EPH-VN-08-735-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3031.5	5.4			
FM (30°-60°)	17755.7	31.5			
FH (60°-80°)	22262.9	39.5			G5
FVH (80°-90°)	1112.3	2.0			G5
BL (0°-30°)	3233.0	5.7	B4/5000		
BM (30°-60°)	5958.8	10.6	B4/8500		
BH (60°-80°)	2627.4	4.7	B4/5000		G4/5000
BVH (80°-90°)	349.0	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





REPORT NUMBER: P574774  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9
2.5°	7236.1	7259.9	7337.4	7355.2	7438.6	7391.0	7492.2	7670.9	7772.1	7921.0
5°	6664.4	6563.1	6610.8	6795.4	6890.7	6914.5	7021.7	7325.5	7516.0	7736.4
7.5°	5991.4	5973.5	6068.8	6187.9	6378.5	6396.4	6634.6	6902.6	7295.7	7784.0
10°	5532.8	5610.2	5663.8	5788.9	5919.9	5919.9	6223.7	6688.2	7134.9	7605.4
12.5°	5509.0	5461.3	5473.2	5538.8	5634.0	5753.2	6039.0	6455.9	7021.7	7569.6
15°	5586.4	5604.3	5497.1	5580.4	5616.2	5657.9	5973.5	6444.0	6950.2	7694.7
17.5°	5997.3	5896.1	5729.3	5651.9	5777.0	5777.0	5991.4	6360.6	6962.2	7760.2
20°	6318.9	6318.9	6045.0	5961.6	6050.9	6033.1	6182.0	6455.9	7021.7	7891.2
22.5°	6860.9	6938.3	6485.7	6313.0	6307.0	6354.7	6485.7	6718.0	7188.5	8075.9
25°	7641.1	7659.0	7134.9	6956.2	6765.6	6843.0	6866.9	7099.1	7337.4	8290.3
27.5°	8510.6	8498.7	8016.3	7569.6	7444.6	7462.4	7331.4	7486.3	7557.7	8355.8
30°	9475.4	9368.2	9004.9	8373.7	8272.4	8159.2	7873.4	7867.4	8016.3	8725.0
32.5°	10106.7	9969.8	9719.6	9267.0	8987.1	8999.0	8546.4	8540.4	8409.4	9130.0
35°	10726.1	10517.7	10452.2	9987.6	9707.7	9737.5	9374.2	9326.6	9088.3	9743.5
37.5°	11470.6	11286.0	11387.2	11035.8	10690.4	10547.5	10380.7	10321.1	10011.5	10607.0
40°	12292.5	12232.9	12167.4	11994.7	11786.2	11798.2	11619.5	11559.9	11101.3	11649.3
42.5°	13400.2	13173.9	12834.4	12947.6	13054.8	13168.0	13108.4	12953.5	12477.1	12709.4
45°	14430.6	14132.8	13507.4	13543.2	13983.9	14073.2	14793.8	14776.0	13817.1	14055.3
47.5°	15127.4	14990.4	14615.2	14573.5	15204.8	15198.8	16497.2	16497.2	15228.6	15395.4
50°	16163.6	15806.3	15645.5	15854.0	16175.6	16395.9	18236.2	18349.4	16616.3	16794.9
52.5°	17378.6	16931.9	16526.9	17062.9	17634.7	17777.6	19957.4	19909.8	17682.3	18420.8
55°	18385.1	18158.8	17878.9	18188.6	19123.6	19302.3	21684.5	21243.8	18748.4	19766.8
57.5°	19558.4	19695.3	19754.9	19677.5	20791.2	21071.1	23655.9	22393.3	19665.6	20672.1
60°	21327.2	21410.6	21488.0	21672.6	22851.8	23244.9	25216.2	23834.5	20243.3	21196.2
62.5°	24019.2	23697.5	23870.3	24507.5	25454.5	25901.1	27515.1	24847.0	20684.0	21511.8
65°	27098.2	26663.5	26484.8	27306.7	29760.4	29403.1	30385.7	25603.4	20046.7	20332.6
67.5°	30219.0	30266.6	29808.1	31457.8	34465.4	34465.4	33053.9	25966.7	18319.6	16479.3
70°	32696.5	32845.4	33095.6	36293.8	41058.3	41778.9	36359.3	24477.7	14799.8	10970.3
72.5°	32660.8	32214.1	33494.6	39384.7	47049.7	46448.1	37050.1	19355.9	9237.2	5372.0
73°	31928.3	31553.1	32952.6	39355.0	47293.9	46728.1	36543.9	17843.1	8147.3	4657.3
75°	26073.9	25394.9	27777.2	35644.6	43756.2	44191.0	31046.8	11637.3	4466.7	2870.6
77.5°	11887.5	12185.3	15288.2	23912.0	33720.9	34233.1	20410.0	5032.5	2447.8	2013.0
80°	3817.6	4008.2	5949.7	11887.5	21136.6	22059.7	9433.8	2287.0	1745.0	1542.5
82.5°	1459.1	1453.2	2495.4	4943.2	10017.4	10607.0	3448.3	1393.6	1298.3	1137.5
85°	512.2	536.0	941.0	1953.5	3942.6	4127.3	1197.1	774.2	899.3	762.3
87.5°	178.7	184.6	333.5	708.7	1357.9	1435.3	333.5	309.7	446.7	440.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574774

CATALOG NUMBER: EPH-VN-08-735-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8075.9	0°	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9	8075.9
8099.7	2.5°	8159.2	8212.8	8230.7	8445.1	8445.1	8445.1	8528.5	8528.5	8504.7	8445.1
8069.9	5°	8195.0	8290.3	8474.9	8659.5	8707.2	8748.9	8862.0	8766.7	8802.5	8742.9
8177.1	7.5°	8296.2	8427.3	8772.7	8885.8	8808.4	8897.7	8778.6	8713.1	8647.6	8671.4
8200.9	10°	8468.9	8635.7	8796.5	9004.9	8856.1	8766.7	8522.5	8463.0	8254.5	8183.1
8302.2	12.5°	8683.3	8885.8	9159.8	9082.4	8796.5	8540.4	8278.4	8028.2	7903.2	7724.5
8474.9	15°	8897.7	9130.0	9171.7	9040.7	8683.3	8361.7	7885.3	7533.9	7408.8	7248.0
8725.0	17.5°	9130.0	9350.4	9278.9	8939.4	8457.0	7968.7	7426.7	7081.3	6819.2	6718.0
9004.9	20°	9475.4	9582.6	9469.5	8772.7	8183.1	7539.9	7015.8	6622.7	6360.6	6318.9
9273.0	22.5°	9743.5	9916.2	9409.9	8528.5	7784.0	6980.0	6378.5	6229.6	6152.2	6086.7
9576.7	25°	10088.9	10082.9	9302.7	8302.2	7099.1	6313.0	5949.7	5937.8	5902.1	5878.2
10011.5	27.5°	10416.4	10279.5	9177.7	7742.4	6390.4	5806.8	5610.2	5741.3	5794.9	5759.1
10613.0	30°	10934.6	10708.3	8999.0	7146.8	5765.1	5294.6	5330.3	5509.0	5598.3	5651.9
11137.1	32.5°	11482.5	11137.1	8629.7	6527.4	5211.2	4973.0	5056.4	5241.0	5348.2	5407.7
12000.6	35°	12274.6	11470.6	8254.5	5717.4	4812.2	4776.4	4824.1	4925.3	5080.2	5121.9
13179.9	37.5°	13251.3	11976.8	7748.3	5068.3	4502.5	4544.2	4591.8	4627.5	4633.5	4710.9
14311.4	40°	14228.1	12405.6	7009.8	4448.9	4180.9	4407.2	4383.4	4317.8	4264.2	4192.8
15574.0	42.5°	15085.7	12780.8	6187.9	3924.8	3895.0	4264.2	4186.8	4020.1	3895.0	3841.4
17009.3	45°	16050.5	13310.9	5360.1	3597.2	3674.6	4091.5	4067.7	3811.6	3650.8	3460.2
18551.9	47.5°	17301.2	13864.8	4568.0	3257.7	3466.2	4026.0	4037.9	3710.4	3478.1	3222.0
20570.8	50°	18903.2	14662.8	3966.5	3114.8	3341.1	3930.7	3948.6	3573.4	3269.7	3007.6
22935.2	52.5°	20439.8	15478.7	3466.2	2894.4	3257.7	3817.6	3859.3	3448.3	3096.9	2769.4
24072.8	55°	21214.0	15181.0	3037.4	2733.6	3067.2	3632.9	3787.8	3359.0	2834.9	2608.6
24739.8	57.5°	21386.8	14448.4	2697.9	2566.9	2906.4	3436.4	3668.7	3091.0	2715.8	2525.2
24793.4	60°	20821.0	13168.0	2429.9	2388.2	2703.9	3233.9	3394.7	2948.0	2596.7	2441.8
23042.4	62.5°	19427.3	11839.8	2245.3	2304.8	2531.2	3013.6	3222.0	2846.8	2483.5	2376.3
19540.5	65°	15931.4	9737.5	2096.4	2144.0	2352.5	2799.2	3114.8	2733.6	2382.3	2281.0
13704.0	67.5°	11035.8	6712.0	1977.3	2066.6	2209.5	2644.3	3007.6	2608.6	2251.2	2215.5
7492.2	70°	5651.9	3579.3	1822.4	1893.9	2054.7	2447.8	2817.0	2477.6	2114.3	2108.3
3436.4	72.5°	2864.7	2096.4	1643.8	1751.0	1864.1	2191.7	2578.8	2304.8	1941.5	1876.0
3055.3	73°	2477.6	1941.5	1614.0	1709.3	1816.5	2120.2	2507.3	2263.1	1917.7	1822.4
2150.0	75°	1804.6	1530.6	1447.2	1542.5	1625.9	1911.8	2269.1	2072.6	1762.9	1661.6
1584.2	77.5°	1351.9	1179.2	1203.0	1310.2	1381.7	1649.7	2019.0	1876.0	1596.1	1459.1
1185.2	80°	994.6	899.3	994.6	1095.8	1149.4	1453.2	1840.3	1625.9	1346.0	1191.1
839.7	82.5°	708.7	655.1	768.3	833.8	857.6	1203.0	1655.7	1298.3	1018.4	815.9
482.4	85°	405.0	399.0	518.1	512.2	530.1	702.8	1089.9	863.6	655.1	500.3
244.2	87.5°	178.7	196.5	262.0	208.4	220.4	333.5	464.5	321.6	268.0	148.9
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°
8075.9
8588.1
8796.5
8588.1
8248.6
7772.1
7331.4
6718.0
6253.4
6003.3
5991.4
5806.8
5580.4
5473.2
5139.7
4681.1
4174.9
3752.1
3436.4
3186.3
2983.8
2787.2
2602.6
2501.4
2406.1
2298.9
2275.1
2167.9
2048.7
1780.7
1733.1
1578.2
1423.4
1161.4
750.4
488.4
113.2
0.0

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