

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: P574905

Luminaire Tested: **EPH-VN-07-750-U-5MQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574905  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-750-U-5MQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

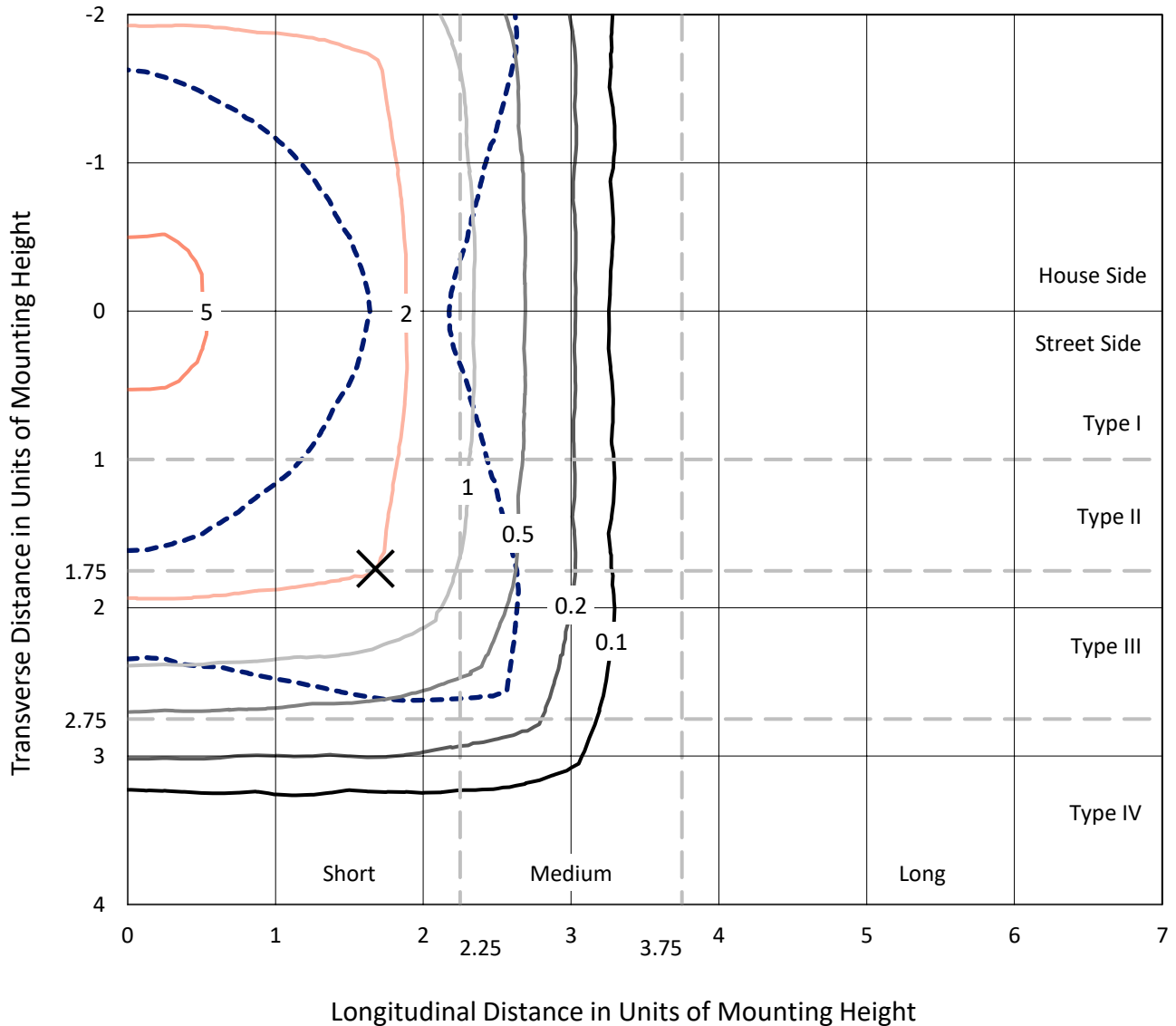
Lumens per Lamp: N/A  
Luminaire Lumens: 58287.5 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7  
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

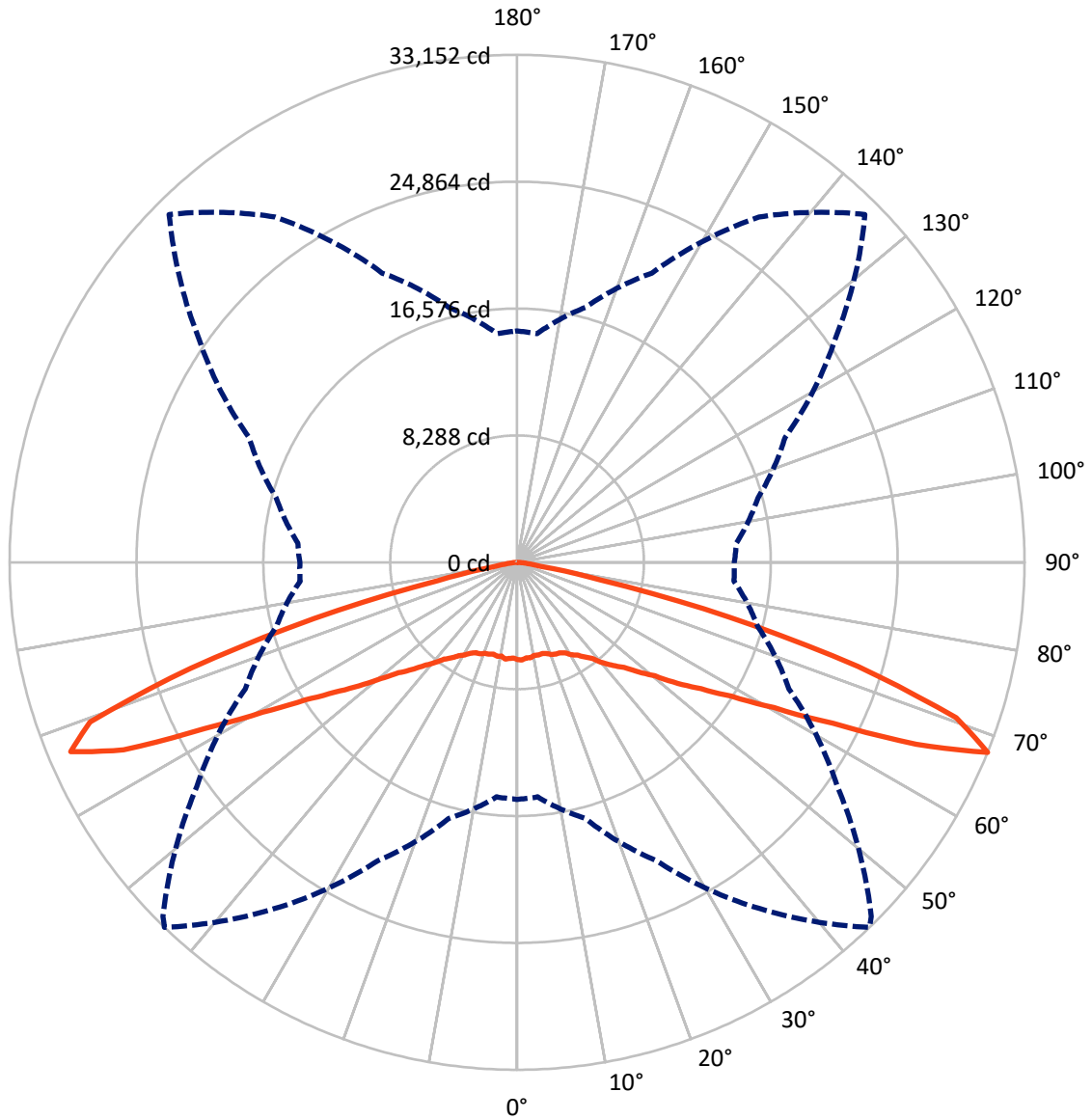
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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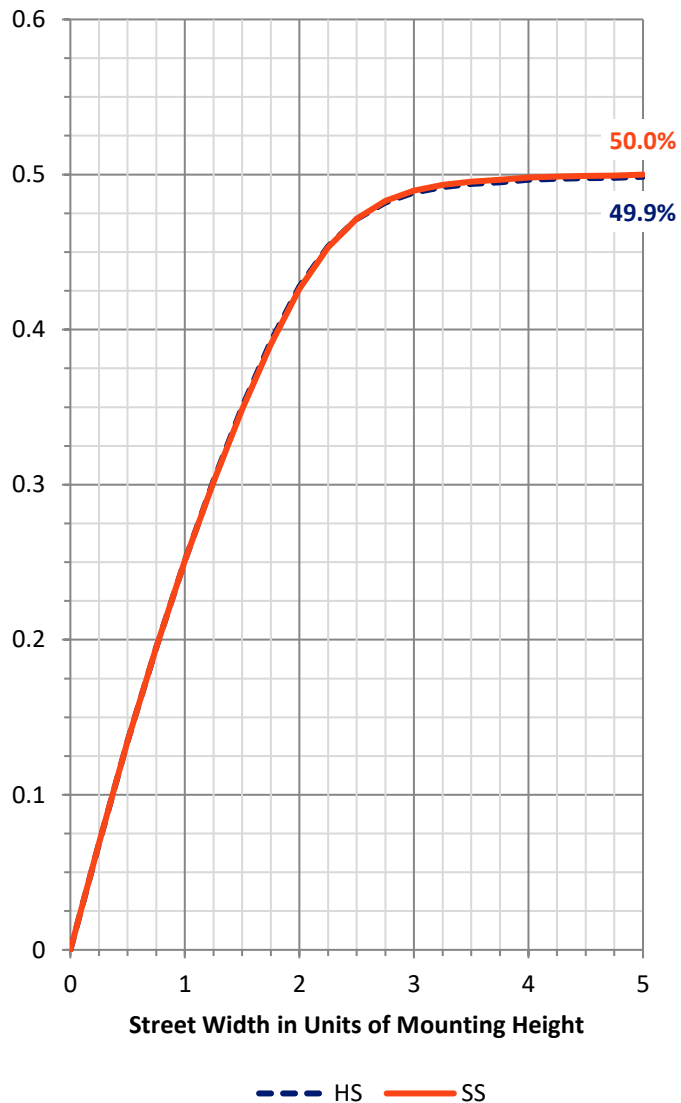
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29069.1	0.0	29069.1
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	29218.4	0.0	29218.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	58287.5	0.0	58287.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.5	1.0
10°-20°	1760.2	3.0
20°-30°	2993.3	5.1
30°-40°	4746.0	8.1
40°-50°	7738.7	13.3
50°-60°	13216.7	22.7
60°-70°	20102.5	34.5
70°-80°	6775.8	11.6
80°-90°	351.8	0.6
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°	58287.5	100.0
0°-180°	58287.5	100.0

**Coefficient of Utilization**



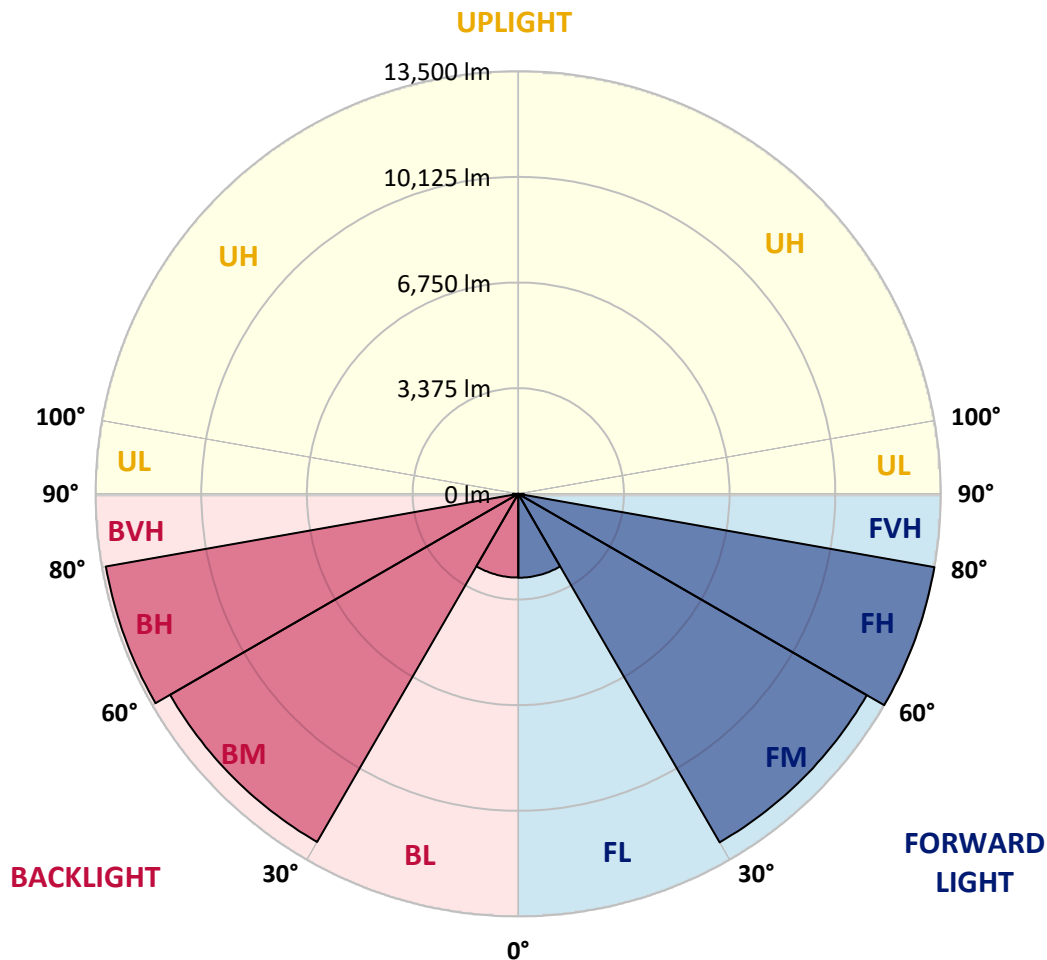
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.7	4.6			
FM (30°-60°)	12857.7	22.1			
FH (60°-80°)	13500.0	23.2			G5
FVH (80°-90°)	180.0	0.3			G2/225
BL (0°-30°)	2675.2	4.6	B4/5000		
BM (30°-60°)	12843.8	22.0	B5		
BH (60°-80°)	13378.3	23.0	B5		G5
BVH (80°-90°)	171.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9
2.5°	6220.5	6293.7	6346.9	6340.3	6360.2	6380.2	6353.6	6393.5	6366.9	6413.5
5°	6340.3	6320.3	6327.0	6287.1	6380.2	6273.8	6273.8	6327.0	6393.5	6313.7
7.5°	6267.1	6253.8	6220.5	6280.4	6300.4	6300.4	6353.6	6253.8	6366.9	6393.5
10°	6187.3	6114.1	6213.9	6273.8	6287.1	6180.6	6227.2	6253.8	6220.5	6253.8
12.5°	6120.7	6160.7	6160.7	6160.7	6140.7	6213.9	6260.5	6253.8	6187.3	6247.1
15°	6114.1	6094.1	6154.0	6207.2	6174.0	6187.3	6207.2	6267.1	6140.7	6167.3
17.5°	6107.4	6134.0	6154.0	6147.4	6260.5	6260.5	6240.5	6200.6	6300.4	6247.1
20°	6134.0	6114.1	6167.3	6187.3	6267.1	6426.8	6366.9	6333.6	6280.4	6213.9
22.5°	6167.3	6154.0	6227.2	6313.7	6466.7	6506.6	6500.0	6460.0	6366.9	6287.1
25°	6287.1	6167.3	6247.1	6413.5	6466.7	6546.5	6599.8	6546.5	6420.1	6440.1
27.5°	6466.7	6446.7	6553.2	6666.3	6619.7	6692.9	6646.3	6686.2	6692.9	6593.1
30°	6679.6	6619.7	6686.2	6905.8	6925.8	7005.6	6925.8	6819.3	6852.6	6766.1
32.5°	6985.6	6965.7	7092.1	7238.4	7265.1	7225.1	7185.2	7245.1	7105.4	7038.9
35°	7185.2	7271.7	7424.7	7537.8	7624.3	7584.4	7604.4	7544.5	7577.7	7438.0
37.5°	7777.3	7744.1	7777.3	7970.3	7990.2	7970.3	7990.2	8056.8	8010.2	7890.4
40°	8336.2	8283.0	8362.8	8582.3	8569.0	8635.6	8502.5	8575.7	8575.7	8349.5
42.5°	8755.3	8935.0	9028.1	9207.7	9274.3	9214.4	9187.8	9201.1	9347.4	9081.3
45°	9620.2	9613.6	9893.0	9992.8	9806.5	9793.2	9740.0	9899.6	9999.4	9846.4
47.5°	10558.3	10604.8	10764.5	10804.4	10917.5	10711.3	10711.3	10731.3	11083.9	10724.6
50°	11403.2	11463.1	11782.4	12095.1	11882.2	11662.7	11749.2	11855.6	12048.5	11709.2
52.5°	12427.8	12753.8	12966.7	13133.0	13286.0	13133.0	12933.4	13053.1	13432.4	12980.0
55°	13904.7	14164.2	14363.8	14669.8	14796.2	14590.0	14570.0	14556.7	14769.6	14290.6
57.5°	15554.7	15448.2	15767.6	16239.9	16699.0	16499.4	16439.5	16452.8	16506.0	15827.4
60°	17603.8	17723.5	18102.8	18515.2	19000.9	19280.3	18887.8	18661.6	18708.2	17783.4
62.5°	18774.7	19040.8	19899.1	21316.1	22294.1	23165.7	23225.6	21755.2	20770.6	18974.3
65°	18209.2	18169.3	19786.0	22407.2	26112.9	28647.7	28268.5	24702.5	21262.9	18408.8
67.5°	15488.1	15381.7	17337.7	21495.8	27616.5	33151.8	32719.4	25534.1	19599.7	16286.5
70°	9979.5	9952.9	12075.2	16386.3	24655.9	30437.4	30597.1	23192.3	15953.8	11928.8
72.5°	3625.9	3845.4	5076.2	8808.5	16745.5	23285.4	23385.2	17171.3	9174.5	5515.3
75°	1337.2	1377.2	1603.4	2860.8	7631.0	14297.3	14669.8	8329.5	3260.0	1796.3
77.5°	771.7	778.4	858.2	1064.5	2262.0	5581.8	5808.1	2528.1	1264.1	958.0
80°	525.6	518.9	605.4	691.9	904.8	1583.4	1683.2	1057.8	798.4	665.3
82.5°	306.0	326.0	445.7	492.3	552.2	698.6	711.9	658.6	598.8	492.3
85°	186.3	153.0	246.2	272.8	319.3	312.7	312.7	359.3	385.9	346.0
87.5°	46.6	46.6	59.9	66.5	86.5	66.5	73.2	139.7	186.3	173.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6366.9	0°	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9	6366.9
6440.1	2.5°	6380.2	6360.2	6373.6	6446.7	6400.2	6260.5	6293.7	6366.9	6307.0	6273.8
6360.2	5°	6353.6	6393.5	6346.9	6360.2	6406.8	6293.7	6313.7	6406.8	6366.9	6380.2
6400.2	7.5°	6360.2	6380.2	6340.3	6280.4	6280.4	6373.6	6320.3	6333.6	6273.8	6373.6
6273.8	10°	6320.3	6267.1	6220.5	6253.8	6240.5	6213.9	6193.9	6233.8	6174.0	6260.5
6140.7	12.5°	6200.6	6213.9	6200.6	6187.3	6213.9	6280.4	6174.0	6187.3	6094.1	6107.4
6167.3	15°	6154.0	6193.9	6180.6	6253.8	6287.1	6187.3	6267.1	6187.3	6114.1	6074.2
6174.0	17.5°	6174.0	6233.8	6213.9	6267.1	6207.2	6280.4	6293.7	6260.5	6174.0	6140.7
6213.9	20°	6193.9	6174.0	6200.6	6293.7	6380.2	6307.0	6307.0	6287.1	6207.2	6160.7
6273.8	22.5°	6240.5	6207.2	6247.1	6320.3	6346.9	6460.0	6360.2	6313.7	6180.6	6060.9
6320.3	25°	6333.6	6353.6	6380.2	6353.6	6500.0	6486.7	6473.3	6440.1	6233.8	6240.5
6473.3	27.5°	6513.3	6400.2	6433.4	6593.1	6613.1	6666.3	6599.8	6659.6	6440.1	6446.7
6706.2	30°	6732.8	6613.1	6719.5	6859.2	6852.6	6952.4	6919.1	6932.4	6779.4	6692.9
6932.4	32.5°	6972.3	6959.0	7025.5	7112.0	7145.3	7198.5	7191.9	7191.9	7098.7	6872.5
7391.5	35°	7238.4	7331.6	7411.4	7504.6	7517.9	7584.4	7491.3	7504.6	7411.4	7245.1
7770.7	37.5°	7764.0	7757.4	7843.9	7957.0	7970.3	7917.0	7990.2	7957.0	7830.6	7717.5
8302.9	40°	8376.1	8243.0	8322.9	8589.0	8609.0	8515.8	8509.2	8502.5	8409.4	8163.2
8981.5	42.5°	8908.3	9081.3	9068.0	9154.5	9094.6	9048.1	9214.4	9121.2	9048.1	8788.6
9806.5	45°	9593.6	9646.8	9819.8	10099.2	9813.1	9813.1	9926.2	9853.1	9813.1	9620.2
10538.3	47.5°	10445.2	10491.7	10837.7	10857.7	10671.4	10545.0	10897.6	10910.9	10744.6	10598.2
11549.6	50°	11443.1	11463.1	11775.8	12095.1	11888.9	11649.4	12008.6	12148.3	11775.8	11576.2
12780.4	52.5°	12540.9	12481.0	12740.5	13339.2	13139.6	13066.5	13452.3	13485.6	12980.0	12667.3
14017.8	55°	13804.9	13725.1	14430.3	14836.1	14709.7	14576.7	14749.7	14829.5	14423.7	13911.4
15621.2	57.5°	15441.6	15481.5	15834.1	16233.3	16439.5	16472.8	16552.6	16472.8	16060.3	15541.4
17464.1	60°	17078.2	17198.0	17883.2	18635.0	18701.5	19287.0	19180.5	18781.4	18195.9	17457.4
17617.1	62.5°	17683.6	17583.8	18688.2	20524.4	22087.9	23159.0	22686.7	21269.6	19912.4	18568.5
16585.9	65°	16466.1	16712.3	18215.9	21089.9	24483.0	28720.9	26206.1	22287.5	19546.5	17810.0
14224.1	67.5°	14190.8	14377.1	16286.5	19320.3	25341.2	32140.5	27536.7	20850.4	17237.9	14989.2
9886.3	70°	9886.3	9979.5	11849.0	15827.4	22979.4	30330.9	24842.2	16013.7	11902.2	9487.1
4065.0	72.5°	3978.5	4204.7	5435.5	9533.7	16965.1	23045.9	16725.6	8402.7	4936.5	3672.4
1463.7	75°	1470.3	1477.0	1736.4	3279.9	8056.8	14483.5	7544.5	2701.1	1576.8	1290.7
884.8	77.5°	851.6	844.9	904.8	1184.2	2335.2	5655.0	2142.3	1057.8	858.2	771.7
558.9	80°	532.2	525.6	618.7	785.1	1024.6	1550.1	904.8	658.6	578.8	499.0
365.9	82.5°	339.3	346.0	485.7	578.8	625.4	685.3	525.6	465.7	432.4	286.1
206.2	85°	219.5	199.6	339.3	385.9	346.0	306.0	292.7	246.2	226.2	139.7
106.4	87.5°	99.8	106.4	173.0	192.9	126.4	73.2	73.2	53.2	53.2	33.3
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°
6366.9
6267.1
6307.0
6240.5
6167.3
6154.0
6147.4
6174.0
6160.7
6174.0
6220.5
6313.7
6513.3
6905.8
7298.3
7631.0
8110.0
8742.0
9440.6
10378.6
11303.4
12740.5
14091.0
15375.0
17490.7
18668.3
17617.1
15108.9
9620.2
3333.1
1230.8
738.5
499.0
279.4
153.0
33.3
0.0

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