

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: P575292

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

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575292
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-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

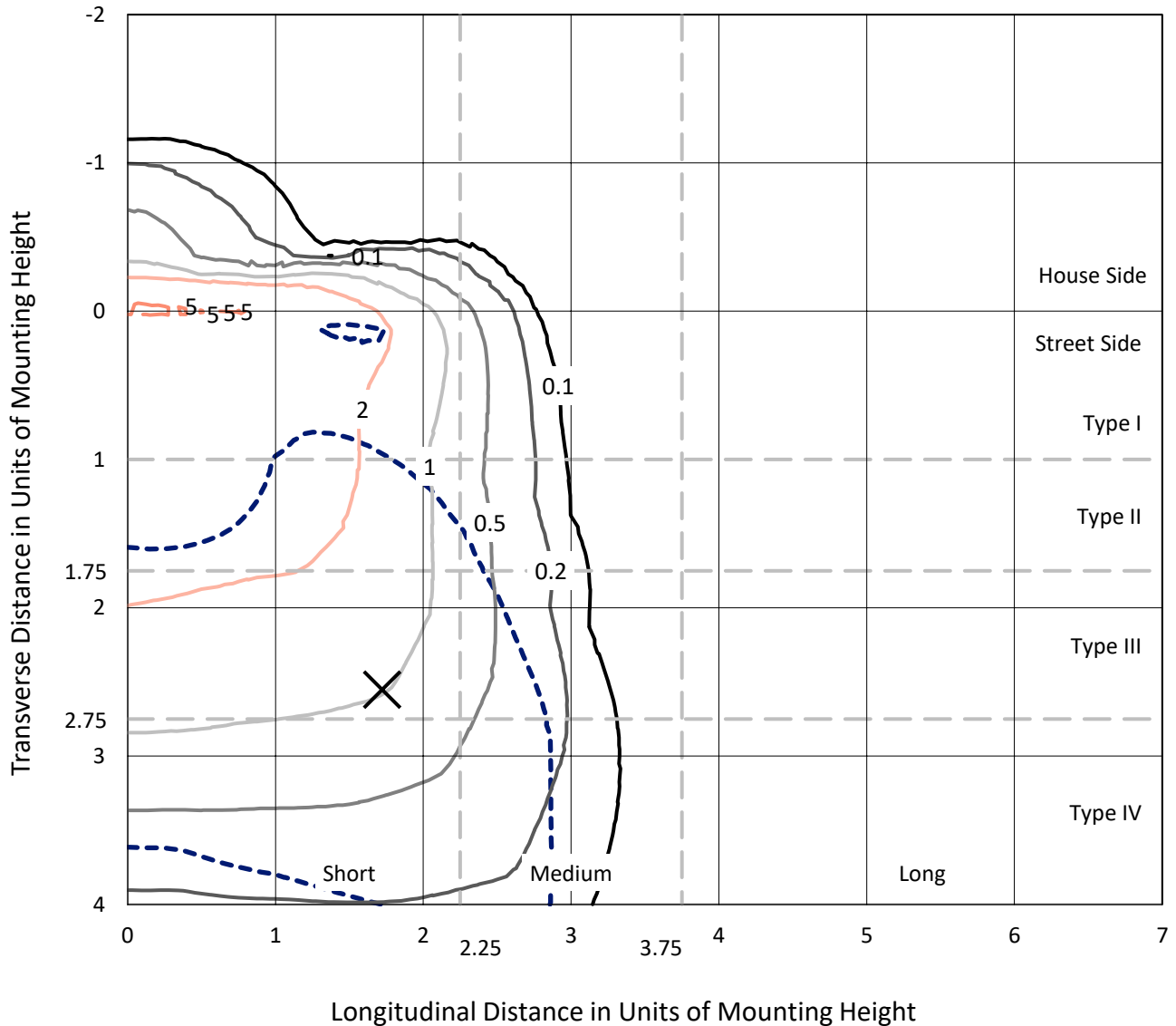
Lumens per Lamp: N/A
Luminaire Lumens: 32608.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

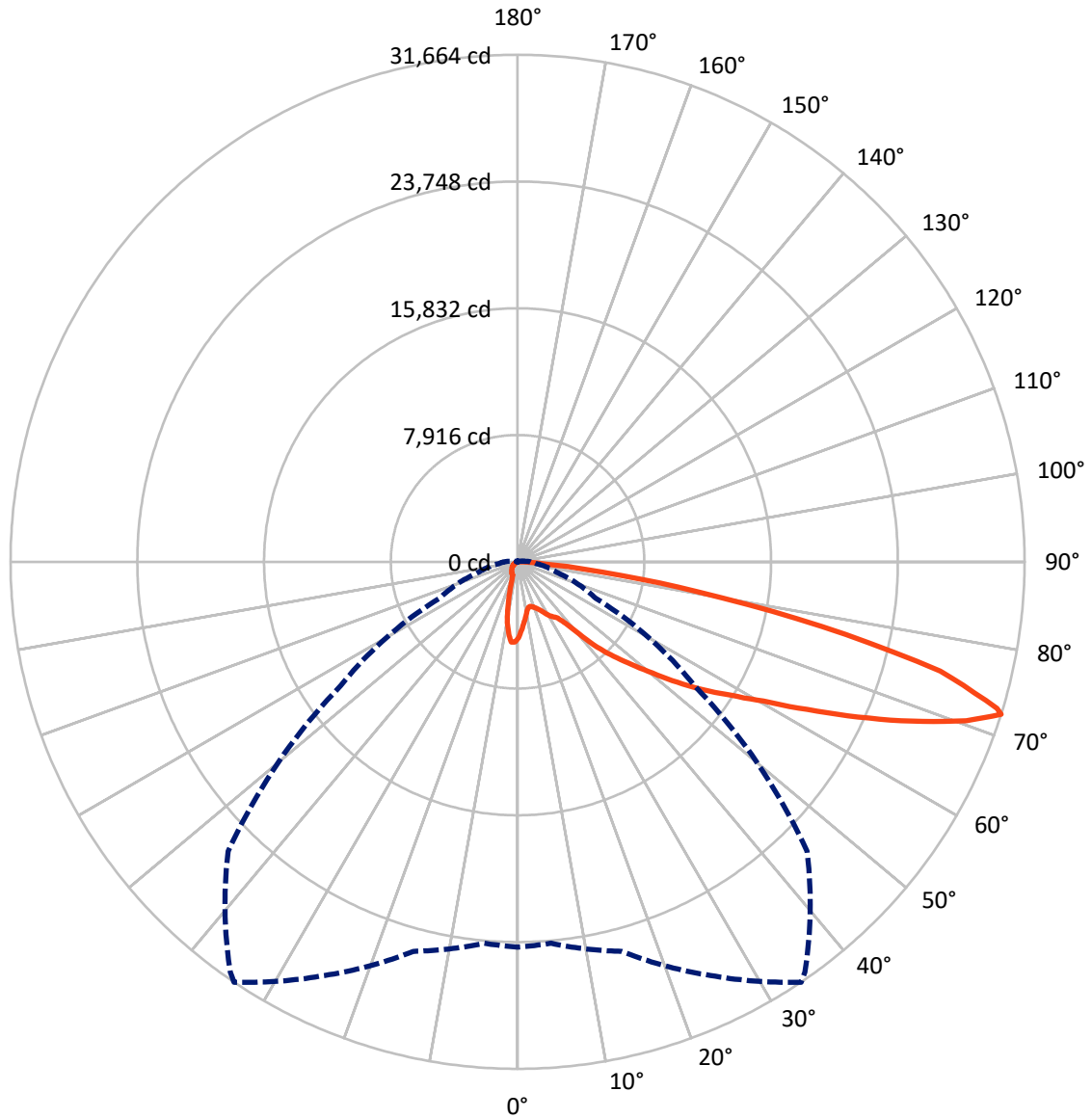
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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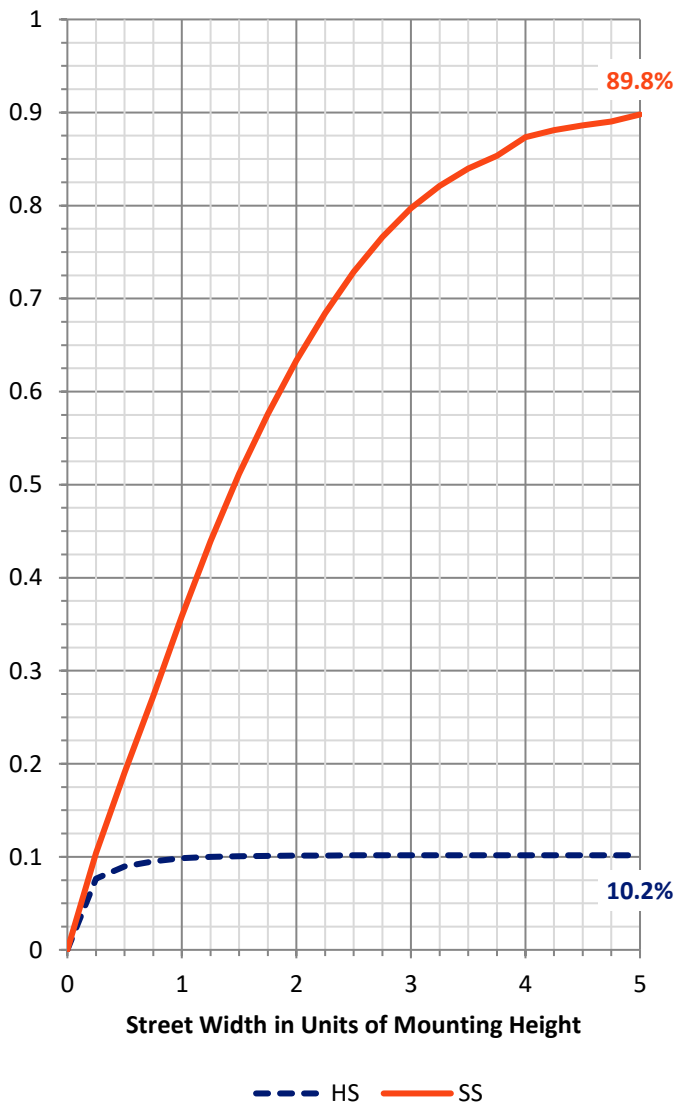
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3338.3	0.0	3338.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	29269.9	0.0	29269.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	32608.2	0.0	32608.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.3
10°-20°	937.6	2.9
20°-30°	1415.2	4.3
30°-40°	2296.6	7.0
40°-50°	4318.6	13.2
50°-60°	7060.9	21.7
60°-70°	9386.5	28.8
70°-80°	6286.1	19.3
80°-90°	492.6	1.5
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°	32608.2	100.0
0°-180°	32608.2	100.0



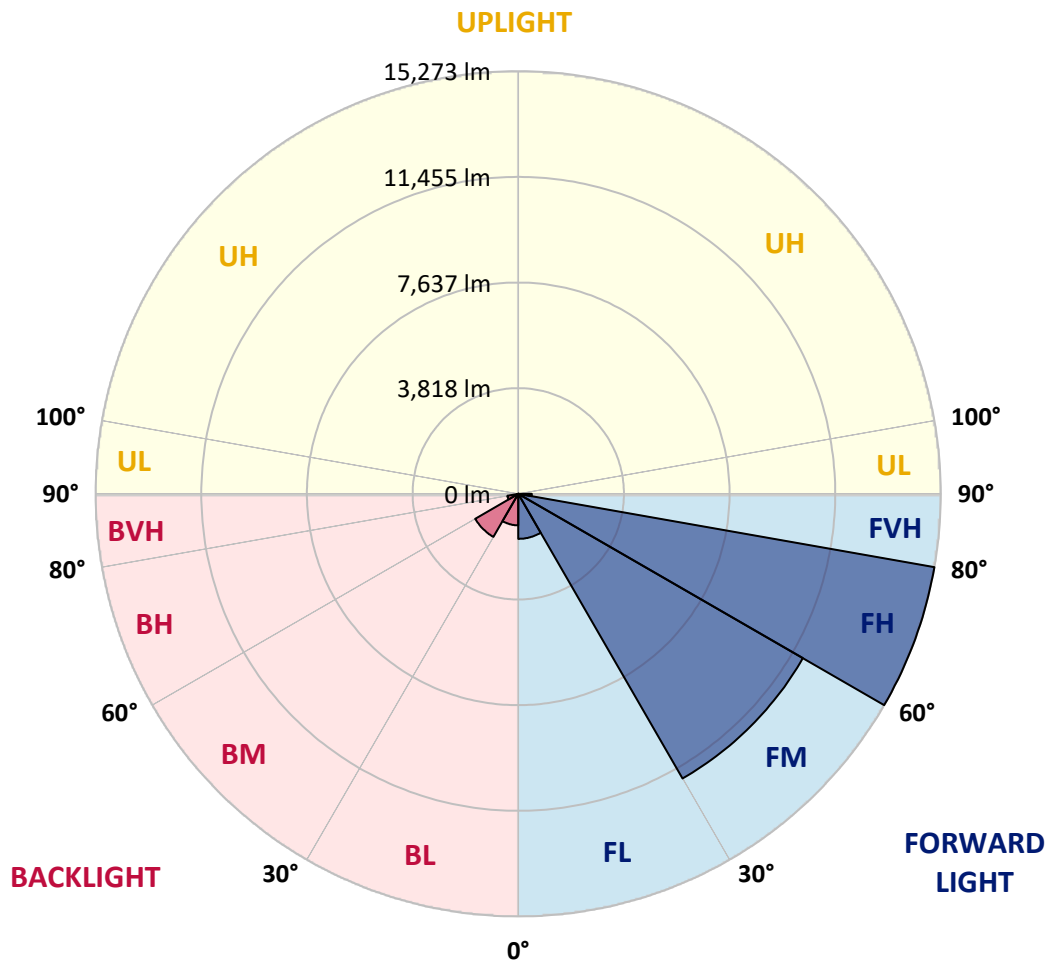
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.9	5.0			
FM (30°-60°)	11879.1	36.4			
FH (60°-80°)	15273.4	46.8			G5
FVH (80°-90°)	489.5	1.5			G3/500
BL (0°-30°)	1139.0	3.5	B3/2500		
BM (30°-60°)	1797.0	5.5	B2/2500		
BH (60°-80°)	399.2	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6
2.5°	4219.1	4209.6	4237.9	4285.1	4332.2	4313.3	4402.9	4497.2	4563.2	4652.7
5°	3686.4	3709.9	3738.2	3832.5	3893.8	3907.9	4072.9	4195.5	4398.2	4605.6
7.5°	3200.8	3229.1	3285.7	3389.4	3516.7	3549.7	3714.7	3959.8	4223.8	4497.2
10°	2847.3	2875.6	2936.8	3002.8	3172.5	3172.5	3398.8	3738.2	4082.3	4402.9
12.5°	2771.8	2786.0	2781.3	2833.1	2941.6	2965.1	3186.7	3559.1	3959.8	4369.9
15°	2861.4	2870.8	2823.7	2795.4	2889.7	2913.3	3120.7	3450.7	3879.6	4388.8
17.5°	3040.5	3007.6	2913.3	2870.8	2951.0	2965.1	3158.4	3446.0	3870.2	4440.6
20°	3144.3	3182.0	3017.0	2936.8	3050.0	3068.8	3276.3	3521.4	3917.4	4530.2
22.5°	3328.1	3347.0	3125.4	3073.5	3182.0	3182.0	3417.7	3672.2	4030.5	4676.3
25°	3587.4	3563.8	3304.5	3252.7	3356.4	3398.8	3634.5	3912.6	4204.9	4813.0
27.5°	3790.1	3804.2	3592.1	3455.4	3629.8	3658.1	3912.6	4171.9	4336.9	4926.2
30°	4091.8	4063.5	3837.2	3681.7	3898.5	3903.2	4148.3	4417.0	4591.5	5128.9
32.5°	4450.0	4393.5	4134.2	3912.6	4087.1	4129.5	4379.3	4770.6	4987.4	5510.7
35°	5209.0	5072.3	4648.0	4303.9	4318.1	4336.9	4723.5	5284.4	5534.3	5996.2
37.5°	6316.8	6260.2	5779.4	5124.1	4874.3	4817.7	5251.4	5963.2	6274.4	6637.4
40°	7415.2	7335.0	6887.2	6392.2	5939.7	5826.5	6043.4	6863.6	7146.5	7528.3
42.5°	8636.1	8494.7	7966.7	7566.0	7283.2	7160.6	7075.8	7995.0	8315.5	8574.8
45°	9871.2	9640.2	8876.5	8570.1	8419.3	8353.3	8343.8	9418.6	9611.9	9663.8
47.5°	10955.4	10705.6	10012.6	9668.5	9555.3	9536.5	10064.5	11059.1	10908.3	10771.6
50°	11789.8	11629.5	11129.8	11007.3	10922.4	10889.4	12124.5	12746.7	12049.1	11808.6
52.5°	13081.4	12723.2	12157.5	12199.9	12496.9	12501.6	14212.8	14349.5	12996.6	12520.5
55°	14113.8	13878.1	13416.1	13354.8	14137.4	14222.2	16084.3	15565.7	13524.6	13199.3
57.5°	15330.0	15221.6	14886.9	14896.3	15716.6	15895.7	17748.3	16593.4	13963.0	13637.7
60°	17088.4	16777.2	16602.8	16683.0	17649.3	17823.7	19360.5	17333.5	14175.1	13925.2
62.5°	19030.5	18667.6	18479.0	18889.1	20298.6	20326.9	20586.2	17988.7	14043.1	14000.7
65°	21368.7	21010.4	20859.6	21684.5	23358.0	23254.3	22306.8	18266.9	13623.5	13241.7
67.5°	23697.4	23480.6	23169.5	24484.7	26568.3	26568.3	24093.4	18163.2	12525.2	10630.1
70°	24800.5	24951.4	25446.3	27511.1	29722.0	29495.7	25856.5	16970.5	9324.4	5708.7
72°	24065.1	23909.6	25187.1	28501.0	31664.1	31291.7	25559.5	13491.6	5388.1	2503.1
72.5°	22801.8	22947.9	24706.2	28364.3	31301.2	31607.6	24833.5	12445.0	4431.2	1994.0
75°	13981.8	14231.7	18441.3	24084.0	27275.4	26931.3	19209.7	5930.2	1701.8	848.5
77.5°	5105.3	5312.7	8947.2	15155.6	19398.2	19181.4	11115.7	2107.2	923.9	631.7
80°	1329.4	1437.8	3040.5	6990.9	11408.0	11422.1	4652.7	843.8	627.0	518.5
82.5°	264.0	292.3	933.4	2720.0	5331.6	5260.9	1470.8	452.5	471.4	424.3
85°	33.0	42.4	198.0	923.9	1725.3	1546.2	363.0	226.3	348.8	330.0
87.5°	4.7	4.7	47.1	212.1	363.0	353.6	75.4	70.7	155.6	202.7
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°
4770.6	0°	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6	4770.6
4761.2	2.5°	4822.5	4841.3	4907.3	4963.9	5029.9	5048.7	5020.4	5067.6	5001.6	5039.3
4798.9	5°	4831.9	4940.3	5062.9	5143.0	5124.1	5077.0	5039.3	4912.0	4822.5	4789.5
4813.0	7.5°	4897.9	5020.4	5152.4	5152.4	5048.7	4803.6	4567.9	4341.6	4153.1	4058.8
4817.7	10°	4982.7	5110.0	5246.7	5067.6	4681.0	4233.2	3898.5	3474.2	3186.7	3035.8
4893.2	12.5°	5095.9	5275.0	5322.1	4907.3	4266.2	3601.5	2993.4	2404.2	2130.7	1913.9
5015.7	15°	5242.0	5416.4	5275.0	4558.5	3738.2	2757.7	2027.0	1466.1	1249.2	1136.1
5157.1	17.5°	5435.3	5567.3	5260.9	4237.9	3026.4	1885.6	1244.5	989.9	942.8	923.9
5355.1	20°	5661.5	5760.5	5124.1	3738.2	2248.6	1211.5	914.5	886.2	891.0	881.5
5590.8	22.5°	5916.1	5949.1	4968.6	3158.4	1522.6	895.7	853.2	858.0	862.7	853.2
5807.7	25°	6184.8	6095.2	4742.3	2479.6	1013.5	815.5	825.0	834.4	839.1	843.8
6071.7	27.5°	6486.5	6307.4	4426.5	1814.9	792.0	768.4	796.7	825.0	829.7	829.7
6467.6	30°	6929.6	6632.6	4120.1	1230.4	697.7	716.5	763.7	796.7	820.2	820.2
7080.5	32.5°	7490.6	6972.0	3691.1	839.1	645.8	655.3	693.0	759.0	810.8	815.5
7900.7	35°	8268.4	7382.2	3243.3	669.4	608.1	612.8	636.4	688.2	777.8	806.1
8966.1	37.5°	9088.6	7848.9	2687.0	603.4	579.8	575.1	589.3	631.7	711.8	782.5
10059.7	40°	9960.7	8339.1	2102.5	570.4	556.3	546.8	551.5	570.4	631.7	721.2
11129.8	42.5°	10781.0	8782.2	1579.2	537.4	532.7	523.3	523.3	528.0	561.0	622.3
12317.8	45°	11667.2	9145.2	1202.1	513.8	499.7	504.4	485.5	476.1	499.7	504.4
13642.4	47.5°	12496.9	9508.2	961.7	485.5	471.4	471.4	447.8	429.0	429.0	386.6
14806.8	50°	13274.7	9706.2	768.4	447.8	443.1	438.4	405.4	372.4	344.1	292.3
15905.1	52.5°	13920.5	9696.8	594.0	400.7	414.8	400.7	348.8	301.7	259.3	212.1
16310.5	55°	14113.8	9244.2	447.8	330.0	353.6	334.7	278.1	235.7	188.6	150.8
16371.8	57.5°	13948.8	8556.0	339.4	254.6	273.4	254.6	212.1	174.4	132.0	103.7
16221.0	60°	13397.3	7749.9	264.0	198.0	207.4	193.3	160.3	132.0	94.3	66.0
15249.9	62.5°	12350.8	6741.1	202.7	155.6	150.8	150.8	122.6	99.0	66.0	37.7
12699.6	65°	10135.2	5256.1	155.6	108.4	108.4	108.4	94.3	70.7	42.4	18.9
8306.1	67.5°	6363.9	3059.4	127.3	84.9	80.1	80.1	66.0	47.1	23.6	4.7
3266.8	70°	2394.7	1121.9	99.0	66.0	61.3	61.3	47.1	28.3	14.1	0.0
1136.1	72°	825.0	429.0	80.1	47.1	47.1	42.4	33.0	23.6	9.4	0.0
858.0	72.5°	678.8	344.1	75.4	47.1	42.4	42.4	33.0	23.6	9.4	0.0
306.4	75°	245.1	141.4	51.9	33.0	28.3	28.3	23.6	14.1	4.7	0.0
155.6	77.5°	122.6	89.6	42.4	28.3	23.6	14.1	14.1	9.4	4.7	0.0
94.3	80°	75.4	56.6	23.6	18.9	14.1	9.4	4.7	4.7	0.0	0.0
66.0	82.5°	51.9	33.0	14.1	14.1	9.4	4.7	0.0	0.0	0.0	0.0
42.4	85°	33.0	14.1	9.4	9.4	4.7	0.0	0.0	0.0	0.0	0.0
23.6	87.5°	14.1	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
4770.6
5048.7
4860.2
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3050.0
1918.6
1136.1
923.9
881.5
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843.8
825.0
815.5
801.4
801.4
787.2
740.1
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