

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: P575346

Luminaire Tested: **EPH-VN-08-750-U-T4W-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575346
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-T4W-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

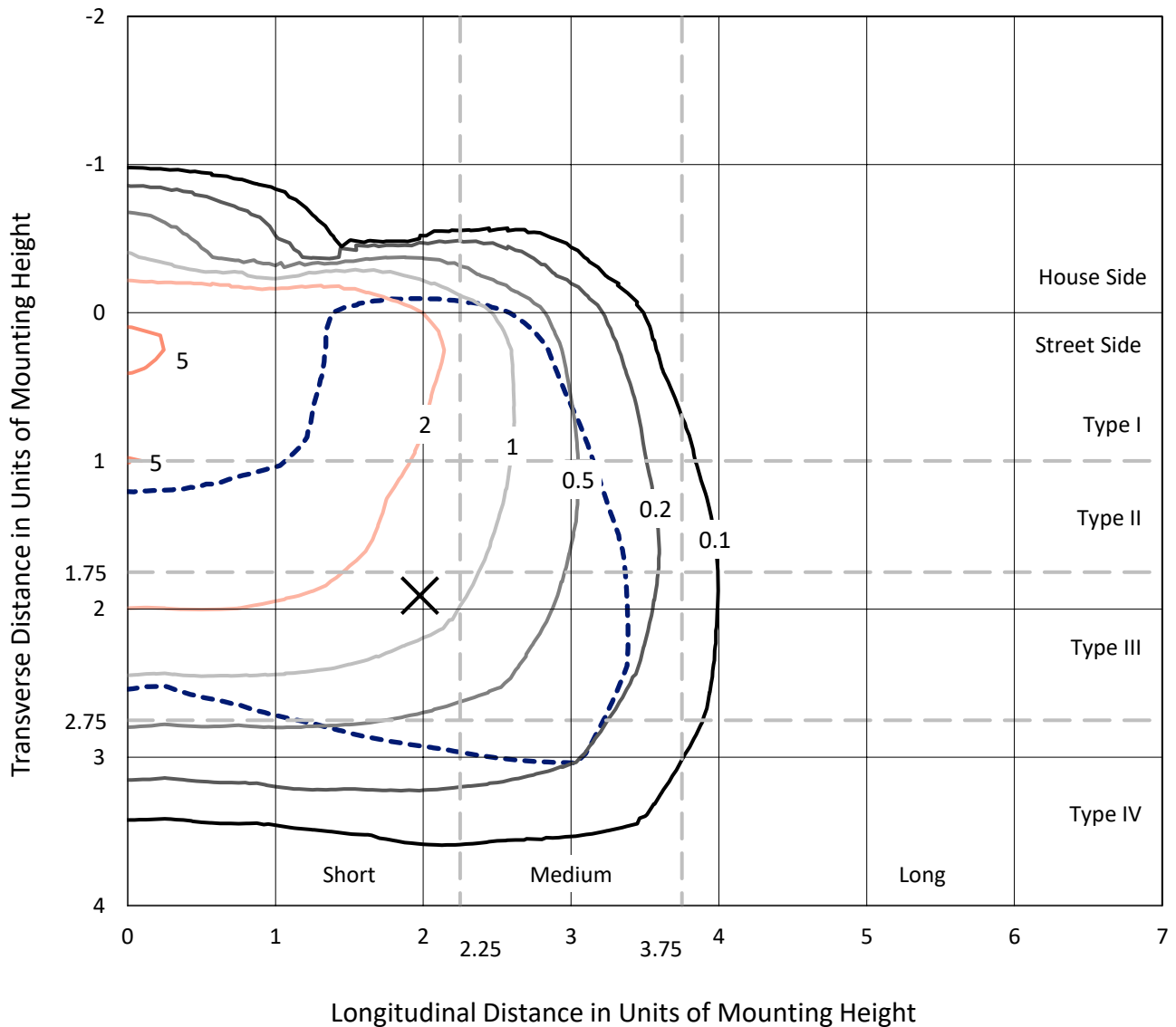
Lumens per Lamp: N/A
Luminaire Lumens: 36356.6 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

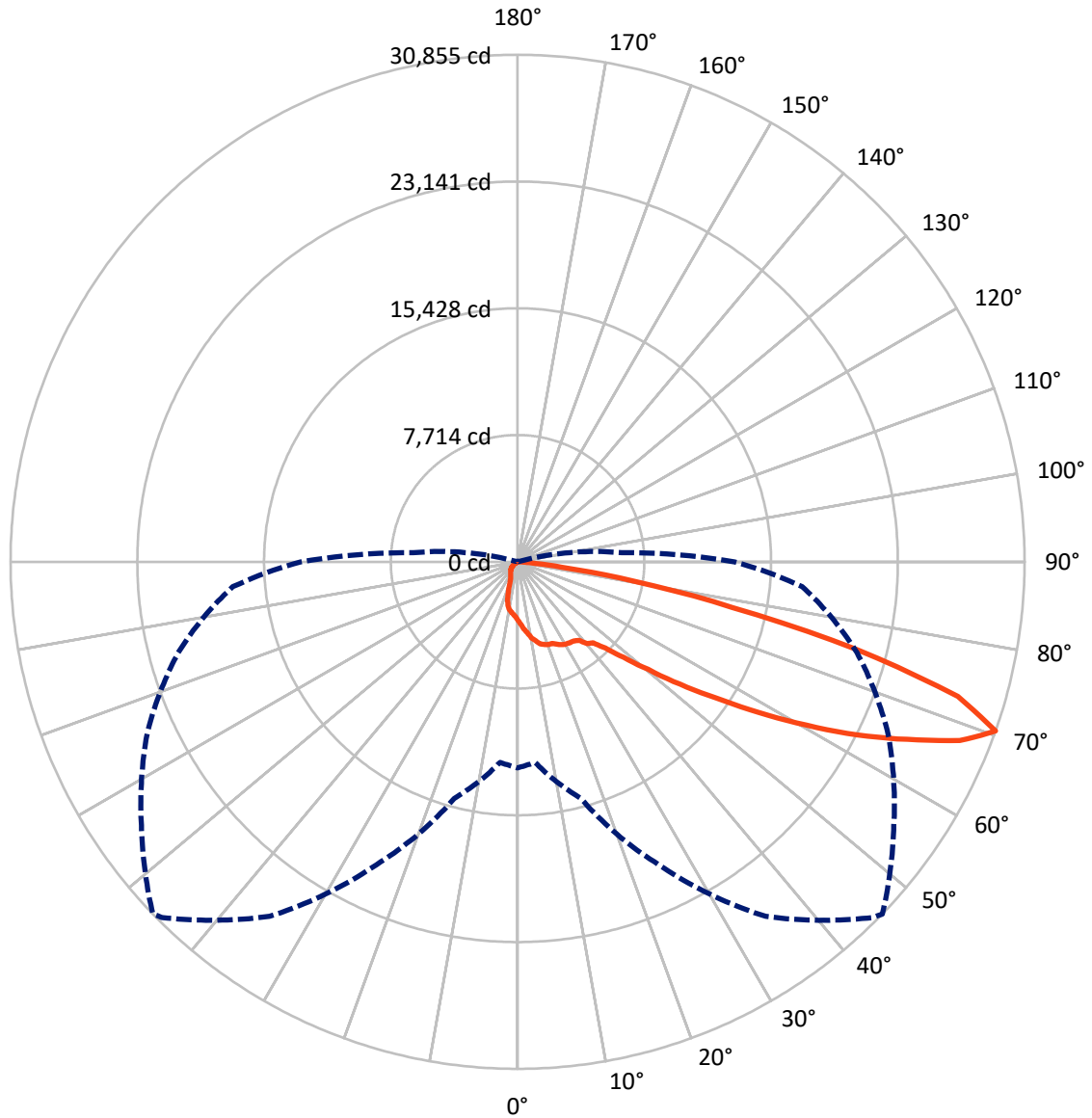
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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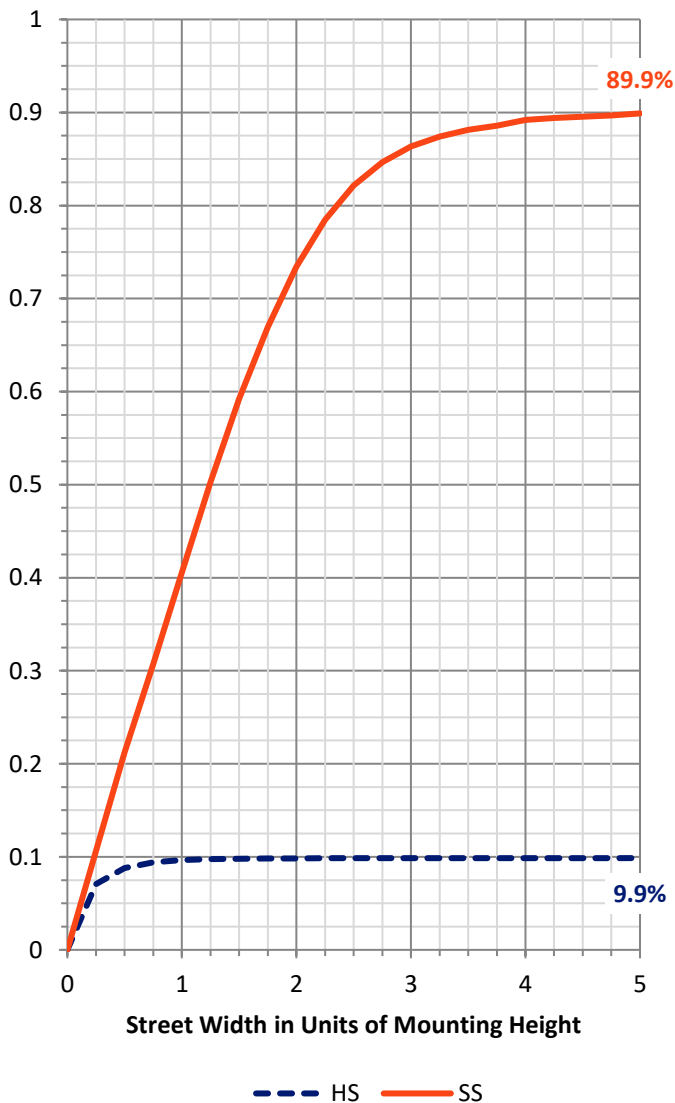
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3617.6	0.0	3617.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	32739.0	0.0	32739.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	36356.6	0.0	36356.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.0
10°-20°	1074.7	3.0
20°-30°	1721.5	4.7
30°-40°	2457.2	6.8
40°-50°	4242.9	11.7
50°-60°	8123.4	22.3
60°-70°	12029.4	33.1
70°-80°	5958.0	16.4
80°-90°	393.7	1.1
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°	36356.6	100.0
0°-180°	36356.6	100.0

Coefficient of Utilization

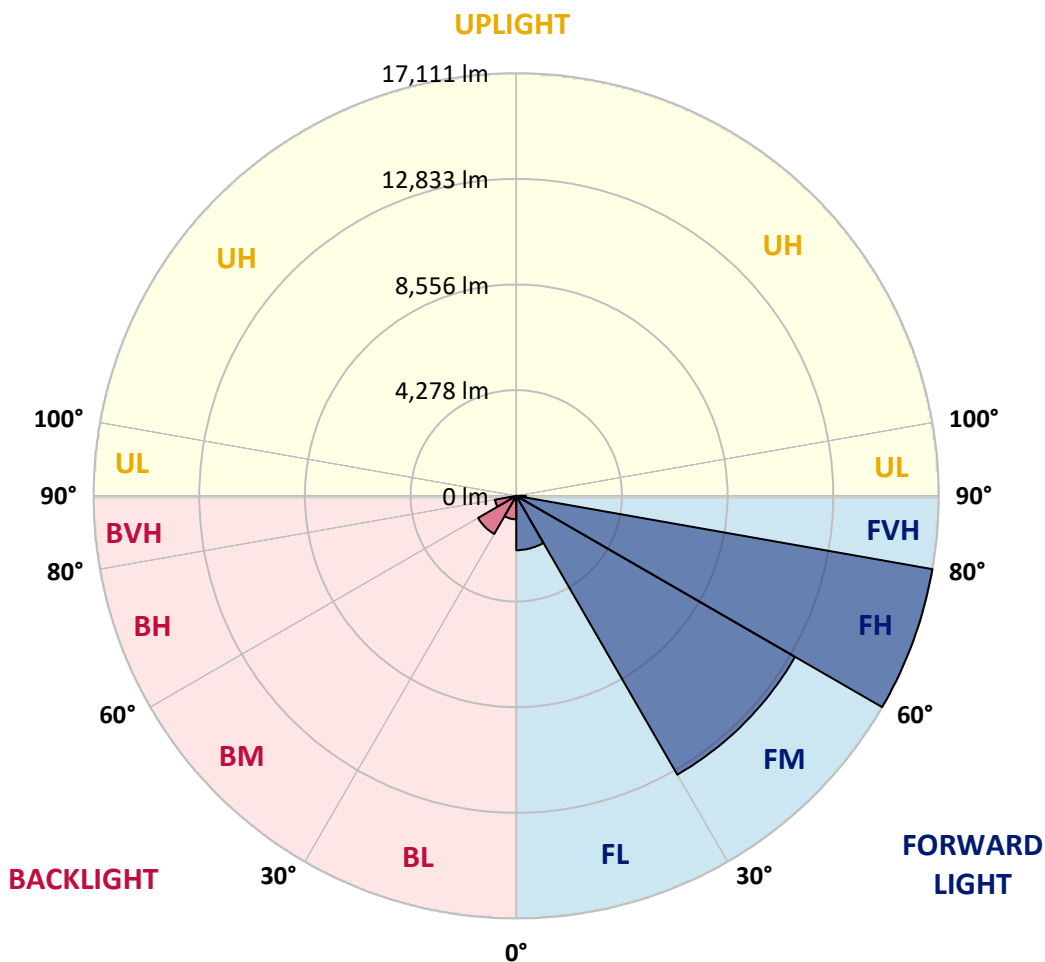


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.7	6.1			
FM (30°-60°)	13037.4	35.9			
FH (60°-80°)	17111.3	47.1			G5
FVH (80°-90°)	388.7	1.1			G3/500
BL (0°-30°)	950.4	2.6	B2/1000		
BM (30°-60°)	1786.0	4.9	B2/2500		
BH (60°-80°)	876.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1
2.5°	3982.5	3956.3	3914.5	3898.8	3856.9	3836.0	3804.6	3788.9	3731.3	3673.8
5°	4469.2	4406.4	4427.3	4364.5	4228.5	4118.6	4113.3	3993.0	3862.1	3757.5
7.5°	4961.1	4908.8	4830.3	4741.3	4589.6	4427.3	4380.2	4265.1	4081.9	3898.8
10°	5332.7	5296.1	5228.0	5102.4	4893.1	4709.9	4715.2	4521.5	4327.9	4118.6
12.5°	5563.0	5578.7	5479.2	5353.6	5170.5	4940.2	4935.0	4804.1	4584.3	4364.5
15°	5793.2	5850.8	5699.0	5552.5	5317.0	5149.5	5180.9	5023.9	4809.4	4558.2
17.5°	5829.9	5845.6	5814.2	5599.6	5426.9	5285.6	5290.8	5186.2	5023.9	4751.8
20°	5767.1	5756.6	5720.0	5563.0	5447.8	5364.1	5369.3	5343.2	5254.2	5034.4
22.5°	5583.9	5583.9	5536.8	5432.1	5379.8	5458.3	5395.5	5494.9	5400.7	5269.9
25°	5437.4	5494.9	5468.8	5400.7	5421.7	5526.3	5557.7	5651.9	5636.2	5474.0
27.5°	5594.4	5526.3	5542.0	5463.5	5542.0	5699.0	5714.7	5782.8	5777.5	5646.7
30°	5699.0	5761.8	5641.5	5468.8	5552.5	5819.4	5808.9	5897.9	5939.8	5782.8
32.5°	6034.0	5981.6	5882.2	5651.9	5662.4	5814.2	5861.3	5976.4	6002.6	5908.4
35°	6719.5	6641.0	6206.7	5861.3	5808.9	5882.2	5913.6	6138.6	6185.7	6081.1
37.5°	7776.6	7598.7	7075.4	6311.3	6075.8	6060.1	6060.1	6358.4	6536.3	6295.6
40°	9289.0	9037.8	8472.7	7143.4	6426.5	6489.2	6552.0	6714.3	6693.3	6536.3
42.5°	11214.9	11021.3	10409.0	8540.7	7096.3	6782.3	6730.0	6949.8	7279.5	7216.7
45°	12821.5	12832.0	12439.5	10456.1	8252.9	7457.4	7494.0	7661.5	8216.2	8169.1
47.5°	13993.8	13847.2	13789.7	12303.4	9938.0	8739.6	8687.2	8802.4	9524.5	9822.8
50°	15061.3	14961.9	14825.8	14098.4	11963.2	10346.2	10293.8	10304.3	11408.5	11827.2
52.5°	16385.4	16511.0	16060.9	15616.1	14585.1	12434.2	12376.7	12172.6	13543.7	14119.4
55°	18018.1	17782.6	17275.0	17505.3	17091.8	14689.8	14585.1	14344.4	15977.2	16217.9
57.5°	18379.2	18201.3	18724.6	19541.0	19938.7	17337.8	17295.9	16861.6	18023.4	17803.6
60°	19279.4	19326.4	20053.9	21676.2	22367.0	20394.0	20189.9	19425.9	20006.8	20048.6
62.5°	20205.6	20095.7	21723.3	23282.8	24345.2	23288.0	23220.0	21702.4	22361.7	21828.0
65°	19525.3	19692.8	22021.6	24633.0	26909.5	26119.2	26061.7	23895.1	24256.2	23591.6
67.5°	17107.5	16767.4	20027.7	24015.5	28228.2	29086.5	29023.7	26286.7	25323.8	23581.1
70°	12538.9	12245.8	14904.3	20336.5	26339.0	30604.1	30855.3	27950.9	24889.4	21383.1
72.5°	6143.9	6149.1	8352.3	13789.7	20838.9	27893.3	28018.9	25627.3	21383.1	15762.6
75°	1815.9	1836.9	3092.9	6761.4	13470.4	21184.3	21325.6	19452.0	14820.6	8143.0
77.5°	664.6	664.6	1025.7	2538.1	6719.5	13371.0	13360.5	11942.3	7504.5	2757.9
80°	345.4	361.1	533.8	1036.2	2909.7	6965.5	7227.1	5845.6	2852.1	1161.8
82.5°	141.3	157.0	293.1	533.8	1397.3	2443.9	2674.2	2292.2	1240.3	811.2
85°	41.9	47.1	141.3	298.3	549.5	612.3	680.3	769.3	779.8	628.0
87.5°	5.2	5.2	57.6	99.4	120.4	130.8	151.8	151.8	397.7	439.6
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°
3569.1	0°	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1	3569.1
3637.1	2.5°	3595.3	3569.1	3527.2	3433.0	3412.1	3344.1	3338.8	3276.0	3297.0	3255.1
3616.2	5°	3569.1	3511.5	3396.4	3323.1	3249.9	3202.8	3171.4	3145.2	3140.0	3119.0
3710.4	7.5°	3616.2	3537.7	3359.8	3244.6	3119.0	3077.2	3009.1	3003.9	2967.3	2930.6
3862.1	10°	3773.2	3631.9	3438.3	3244.6	3082.4	2946.3	2789.3	2674.2	2632.3	2538.1
4061.0	12.5°	3898.8	3773.2	3490.6	3291.7	3045.8	2737.0	2391.6	2124.7	1999.1	1878.7
4223.2	15°	4076.7	3893.5	3590.0	3302.2	2904.5	2370.7	1805.5	1507.2	1392.0	1365.9
4464.0	17.5°	4270.3	4076.7	3715.6	3276.0	2616.6	1831.6	1329.2	1156.6	1177.5	1208.9
4641.9	20°	4484.9	4249.4	3809.8	3187.1	2161.3	1329.2	1088.5	1083.3	1114.7	1161.8
4945.4	22.5°	4709.9	4505.8	3924.9	2920.2	1611.8	1067.6	1046.7	1046.7	1067.6	1125.2
5154.8	25°	4961.1	4689.0	3982.5	2506.7	1156.6	983.9	994.3	1015.3	1025.7	1072.8
5343.2	27.5°	5154.8	4893.1	3998.2	2009.6	942.0	910.6	936.8	962.9	978.6	1015.3
5521.1	30°	5332.7	5149.5	3914.5	1496.7	863.5	847.8	858.3	894.9	926.3	957.7
5693.8	32.5°	5557.7	5296.1	3720.9	1062.4	816.4	790.2	785.0	800.7	837.3	874.0
5877.0	35°	5788.0	5542.0	3412.1	853.0	774.5	737.9	717.0	701.3	717.0	743.1
6149.1	37.5°	6122.9	5913.6	3024.8	785.0	743.1	690.8	648.9	612.3	586.1	580.9
6504.9	40°	6599.1	6332.3	2527.7	737.9	706.5	643.7	580.9	518.1	460.5	423.9
7195.7	42.5°	7321.3	6949.8	1988.6	711.7	680.3	591.4	502.4	413.4	340.2	303.5
8163.9	45°	8352.3	7766.2	1460.1	685.6	648.9	528.6	413.4	308.8	235.5	214.6
9958.9	47.5°	9906.6	8750.0	1046.7	643.7	607.1	460.5	324.5	219.8	172.7	162.2
12162.1	50°	11937.1	9917.0	816.4	596.6	554.7	387.3	240.7	162.2	136.1	130.8
14517.1	52.5°	14067.0	11094.5	717.0	554.7	476.2	308.8	177.9	130.8	115.1	109.9
16636.6	55°	15888.2	11853.3	622.8	491.9	382.0	230.3	141.3	115.1	99.4	83.7
18986.3	57.5°	17730.3	12235.4	491.9	408.2	282.6	172.7	120.4	99.4	83.7	68.0
21309.9	60°	19227.0	12507.5	350.6	303.5	198.9	136.1	104.7	89.0	68.0	52.3
23497.4	62.5°	20210.9	11727.7	256.4	230.3	146.5	115.1	89.0	73.3	52.3	36.6
24387.0	65°	19724.2	10649.7	198.9	162.2	109.9	89.0	73.3	52.3	36.6	20.9
22539.7	67.5°	17698.9	8676.8	162.2	120.4	83.7	68.0	57.6	41.9	20.9	5.2
17390.1	70°	13203.5	6358.4	130.8	89.0	68.0	52.3	41.9	26.2	10.5	5.2
9849.0	72.5°	7221.9	3480.1	104.7	73.3	52.3	41.9	31.4	20.9	10.5	0.0
3359.8	75°	2386.4	926.3	78.5	52.3	31.4	26.2	20.9	15.7	5.2	0.0
785.0	77.5°	575.7	240.7	62.8	47.1	26.2	15.7	10.5	5.2	5.2	0.0
230.3	80°	177.9	99.4	47.1	31.4	20.9	15.7	5.2	0.0	0.0	0.0
104.7	82.5°	73.3	47.1	20.9	20.9	15.7	5.2	0.0	0.0	0.0	0.0
47.1	85°	36.6	26.2	15.7	10.5	10.5	5.2	0.0	0.0	0.0	0.0
26.2	87.5°	26.2	10.5	5.2	5.2	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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<u>180°</u>
3569.1
3239.4
3108.6
2930.6
2548.6
1925.8
1360.6
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1172.3
1114.7
1078.1
1031.0
957.7
874.0
764.1
596.6
429.1
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