

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: P575295

Luminaire Tested: **EPH-VN-03-740-U-T4FT-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-740-U-T4FT-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

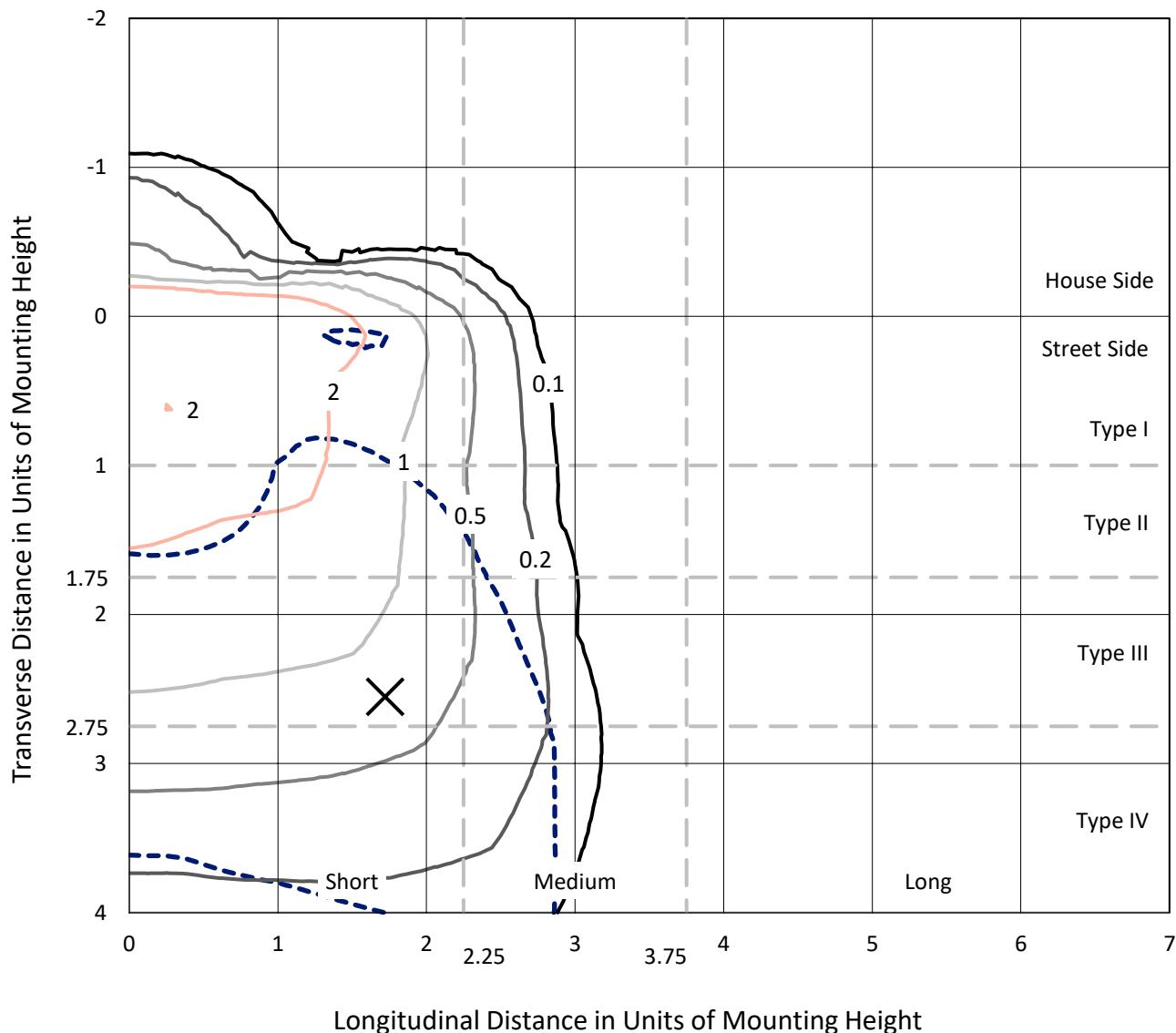
Lumens per Lamp: N/A
Luminaire Lumens: 16853.5 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

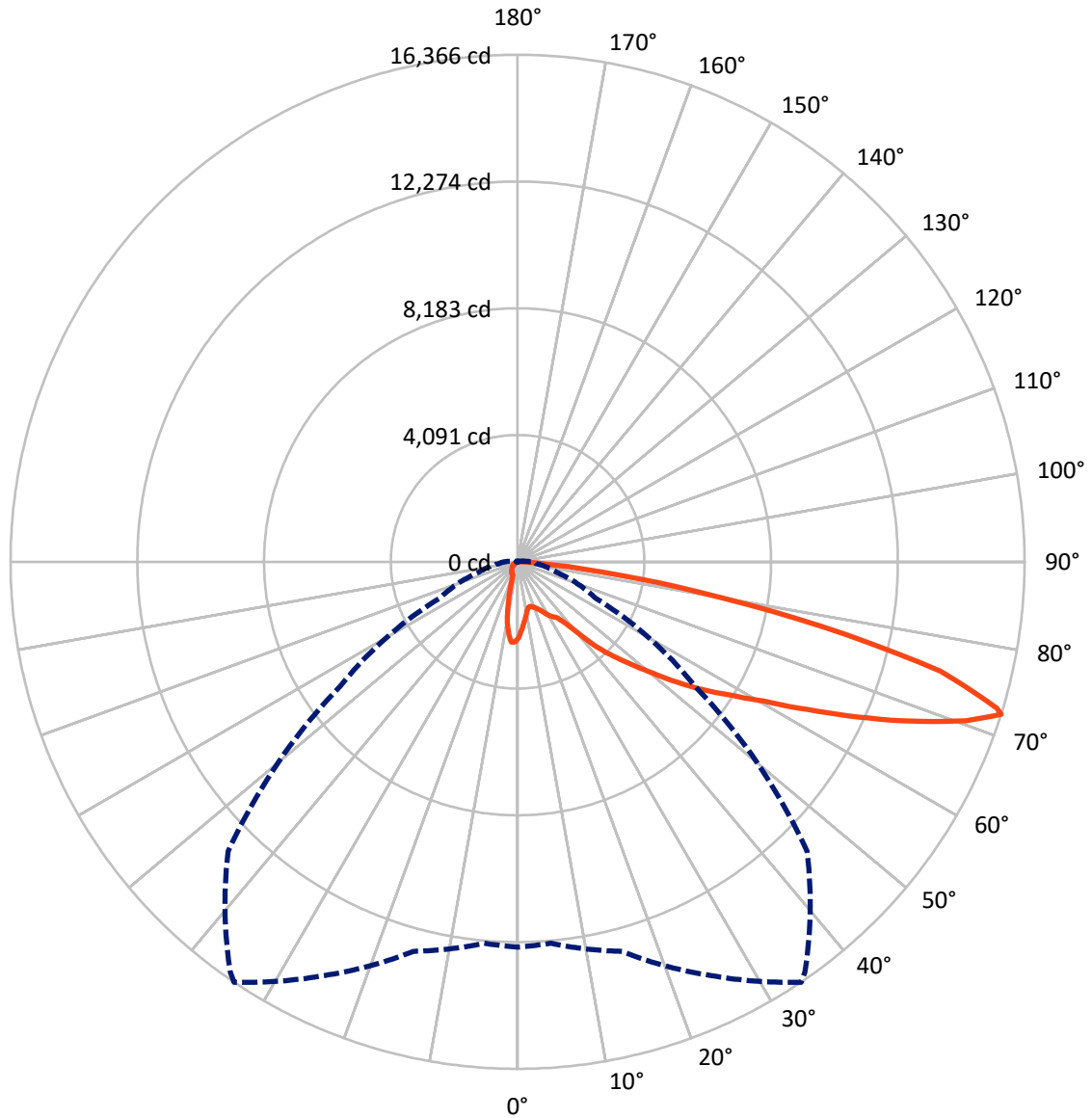
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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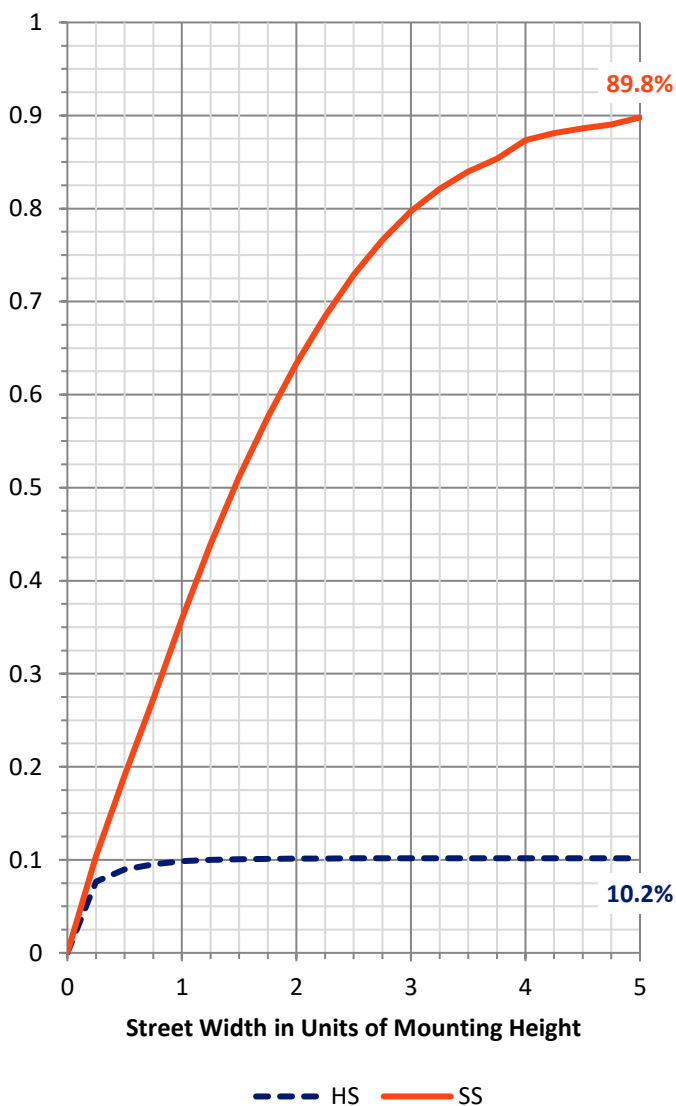
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1725.4	0.0	1725.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	15128.1	0.0	15128.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	16853.5	0.0	16853.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.3
10°-20°	484.6	2.9
20°-30°	731.4	4.3
30°-40°	1187.0	7.0
40°-50°	2232.0	13.2
50°-60°	3649.4	21.7
60°-70°	4851.4	28.8
70°-80°	3249.0	19.3
80°-90°	254.6	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°	16853.5	100.0
0°-180°	16853.5	100.0

Coefficient of Utilization



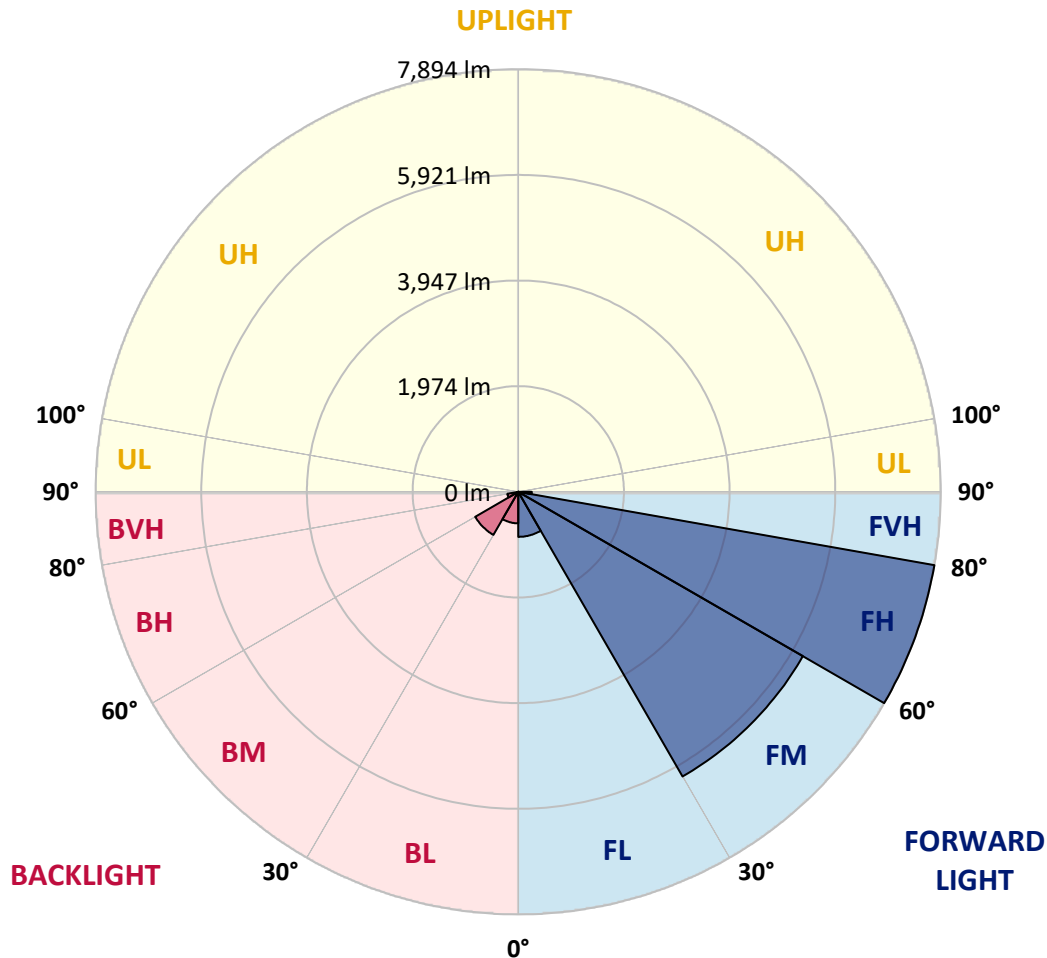
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.4	5.0			
FM (30°-60°)	6139.7	36.4			
FH (60°-80°)	7894.0	46.8			G4/12000
FVH (80°-90°)	253.0	1.5			G3/500
BL (0°-30°)	588.7	3.5	B2/1000		
BM (30°-60°)	928.8	5.5	B1/1000		
BH (60°-80°)	206.3	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7
2.5°	2180.6	2175.7	2190.4	2214.7	2239.1	2229.3	2275.6	2324.4	2358.5	2404.8
5°	1905.3	1917.5	1932.1	1980.8	2012.5	2019.8	2105.1	2168.4	2273.2	2380.4
7.5°	1654.3	1669.0	1698.2	1751.8	1817.6	1834.6	1919.9	2046.6	2183.1	2324.4
10°	1471.6	1486.2	1517.9	1552.0	1639.7	1639.7	1756.7	1932.1	2110.0	2275.6
12.5°	1432.6	1439.9	1437.5	1464.3	1520.3	1532.5	1647.0	1839.5	2046.6	2258.6
15°	1478.9	1483.8	1459.4	1444.8	1493.5	1505.7	1612.9	1783.5	2005.2	2268.3
17.5°	1571.5	1554.4	1505.7	1483.8	1525.2	1532.5	1632.4	1781.0	2000.3	2295.1
20°	1625.1	1644.6	1559.3	1517.9	1576.4	1586.1	1693.3	1820.0	2024.7	2341.4
22.5°	1720.1	1729.9	1615.4	1588.6	1644.6	1644.6	1766.4	1898.0	2083.2	2416.9
25°	1854.1	1841.9	1707.9	1681.1	1734.7	1756.7	1878.5	2022.2	2173.3	2487.6
27.5°	1958.9	1966.2	1856.6	1785.9	1876.1	1890.7	2022.2	2156.3	2241.5	2546.1
30°	2114.8	2100.2	1983.3	1902.9	2014.9	2017.4	2144.1	2282.9	2373.1	2650.8
32.5°	2300.0	2270.8	2136.8	2022.2	2112.4	2134.3	2263.5	2465.7	2577.8	2848.2
35°	2692.3	2621.6	2402.3	2224.5	2231.8	2241.5	2441.3	2731.3	2860.4	3099.2
37.5°	3264.8	3235.6	2987.1	2648.4	2519.3	2490.0	2714.2	3082.1	3242.9	3430.5
40°	3832.5	3791.1	3559.6	3303.8	3069.9	3011.4	3123.5	3547.5	3693.6	3891.0
42.5°	4463.6	4390.5	4117.6	3910.5	3764.3	3701.0	3657.1	4132.2	4297.9	4431.9
45°	5101.9	4982.5	4587.8	4429.4	4351.5	4317.4	4312.5	4868.0	4967.9	4994.7
47.5°	5662.3	5533.2	5175.0	4997.1	4938.7	4928.9	5201.8	5715.9	5637.9	5567.3
50°	6093.5	6010.7	5752.4	5689.1	5645.2	5628.2	6266.5	6588.1	6227.5	6103.3
52.5°	6761.1	6576.0	6283.6	6305.5	6459.0	6461.4	7345.9	7416.5	6717.3	6471.2
55°	7294.7	7172.9	6934.1	6902.4	7306.9	7350.7	8313.1	8045.1	6990.1	6822.0
57.5°	7923.3	7867.3	7694.3	7699.2	8123.1	8215.7	9173.2	8576.3	7216.7	7048.6
60°	8832.1	8671.3	8581.1	8622.6	9122.0	9212.2	10006.5	8958.8	7326.4	7197.2
62.5°	9835.9	9648.3	9550.8	9762.8	10491.3	10505.9	10639.9	9297.5	7258.2	7236.2
65°	11044.4	10859.2	10781.3	11207.6	12072.6	12019.0	11529.2	9441.2	7041.3	6844.0
67.5°	12248.0	12135.9	11975.1	12654.9	13731.8	13731.8	12452.7	9387.6	6473.6	5494.2
70°	12818.1	12896.1	13151.9	14219.1	15361.8	15244.8	13363.9	8771.2	4819.3	2950.5
72°	12438.0	12357.6	13017.9	14730.7	16365.6	16173.1	13210.4	6973.1	2784.9	1293.8
72.5°	11785.1	11860.6	12769.4	14660.1	16178.0	16336.3	12835.2	6432.2	2290.3	1030.6
75°	7226.5	7355.6	9531.4	12447.8	14097.2	13919.4	9928.5	3065.0	879.6	438.6
77.5°	2638.7	2745.9	4624.4	7833.2	10026.0	9913.9	5745.1	1089.1	477.5	326.5
80°	687.1	743.1	1571.5	3613.2	5896.2	5903.5	2404.8	436.1	324.0	268.0
82.5°	136.4	151.1	482.4	1405.8	2755.6	2719.1	760.2	233.9	243.6	219.3
85°	17.1	21.9	102.3	477.5	891.7	799.2	187.6	116.9	180.3	170.6
87.5°	2.4	2.4	24.4	109.6	187.6	182.7	39.0	36.5	80.4	104.8
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°
2465.7	0°	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7	2465.7
2460.8	2.5°	2492.5	2502.2	2536.3	2565.6	2599.7	2609.4	2594.8	2619.2	2585.1	2604.6
2480.3	5°	2497.4	2553.4	2616.7	2658.2	2648.4	2624.0	2604.6	2538.8	2492.5	2475.4
2487.6	7.5°	2531.5	2594.8	2663.0	2663.0	2609.4	2482.7	2360.9	2244.0	2146.5	2097.8
2490.0	10°	2575.3	2641.1	2711.8	2619.2	2419.4	2187.9	2014.9	1795.7	1647.0	1569.1
2529.0	12.5°	2633.8	2726.4	2750.7	2536.3	2205.0	1861.4	1547.1	1242.6	1101.3	989.2
2592.4	15°	2709.3	2799.5	2726.4	2356.0	1932.1	1425.3	1047.7	757.7	645.7	587.2
2665.5	17.5°	2809.2	2877.4	2719.1	2190.4	1564.2	974.6	643.2	511.7	487.3	477.5
2767.8	20°	2926.2	2977.3	2648.4	1932.1	1162.2	626.2	472.7	458.1	460.5	455.6
2889.6	22.5°	3057.7	3074.8	2568.0	1632.4	787.0	462.9	441.0	443.4	445.9	441.0
3001.7	25°	3196.6	3150.3	2451.1	1281.6	523.8	421.5	426.4	431.3	433.7	436.1
3138.1	27.5°	3352.5	3260.0	2287.8	938.0	409.3	397.1	411.8	426.4	428.8	428.8
3342.8	30°	3581.6	3428.1	2129.4	635.9	360.6	370.3	394.7	411.8	423.9	423.9
3659.5	32.5°	3871.5	3603.5	1907.7	433.7	333.8	338.7	358.2	392.3	419.1	421.5
4083.5	35°	4273.5	3815.5	1676.3	346.0	314.3	316.7	328.9	355.7	402.0	416.6
4634.1	37.5°	4697.5	4056.7	1388.8	311.9	299.7	297.2	304.6	326.5	367.9	404.4
5199.4	40°	5148.2	4310.1	1086.7	294.8	287.5	282.6	285.1	294.8	326.5	372.8
5752.4	42.5°	5572.1	4539.1	816.2	277.8	275.3	270.4	270.4	272.9	289.9	321.6
6366.4	45°	6030.2	4726.7	621.3	265.6	258.3	260.7	251.0	246.1	258.3	260.7
7051.1	47.5°	6459.0	4914.3	497.0	251.0	243.6	243.6	231.5	221.7	221.7	199.8
7652.9	50°	6861.0	5016.6	397.1	231.5	229.0	226.6	209.5	192.5	177.9	151.1
8220.6	52.5°	7194.8	5011.8	307.0	207.1	214.4	207.1	180.3	155.9	134.0	109.6
8430.1	55°	7294.7	4777.9	231.5	170.6	182.7	173.0	143.8	121.8	97.5	78.0
8461.8	57.5°	7209.4	4422.1	175.4	131.6	141.3	131.6	109.6	90.1	68.2	53.6
8383.8	60°	6924.4	4005.5	136.4	102.3	107.2	99.9	82.8	68.2	48.7	34.1
7881.9	62.5°	6383.5	3484.1	104.8	80.4	78.0	78.0	63.3	51.2	34.1	19.5
6563.8	65°	5238.3	2716.6	80.4	56.0	56.0	56.0	48.7	36.5	21.9	9.7
4293.0	67.5°	3289.2	1581.3	65.8	43.9	41.4	41.4	34.1	24.4	12.2	2.4
1688.5	70°	1237.7	579.9	51.2	34.1	31.7	31.7	24.4	14.6	7.3	0.0
587.2	72°	426.4	221.7	41.4	24.4	24.4	21.9	17.1	12.2	4.9	0.0
443.4	72.5°	350.8	177.9	39.0	24.4	21.9	21.9	17.1	12.2	4.9	0.0
158.4	75°	126.7	73.1	26.8	17.1	14.6	14.6	12.2	7.3	2.4	0.0
80.4	77.5°	63.3	46.3	21.9	14.6	12.2	7.3	7.3	4.9	2.4	0.0
48.7	80°	39.0	29.2	12.2	9.7	7.3	4.9	2.4	2.4	0.0	0.0
34.1	82.5°	26.8	17.1	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0
21.9	85°	17.1	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
12.2	87.5°	7.3	4.9	2.4	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°
2465.7
2609.4
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455.6
443.4
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426.4
421.5
414.2
414.2
406.9
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