

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: P575289

Luminaire Tested: **EPH-VN-03-735-U-T4FT-HSS**

Issue Date: 10/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P575289  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-735-U-T4FT-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

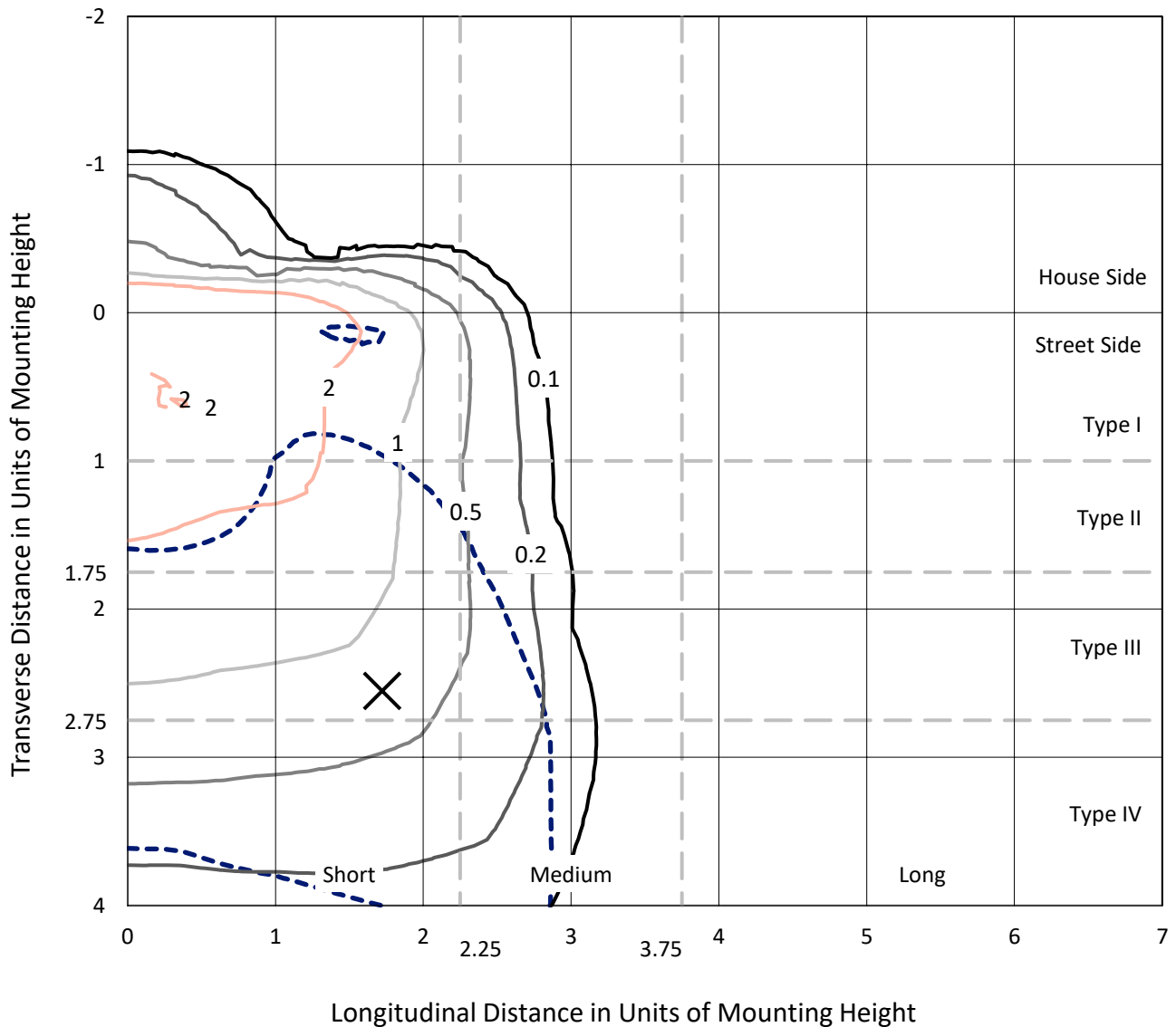
Lumens per Lamp: N/A  
Luminaire Lumens: 16622.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

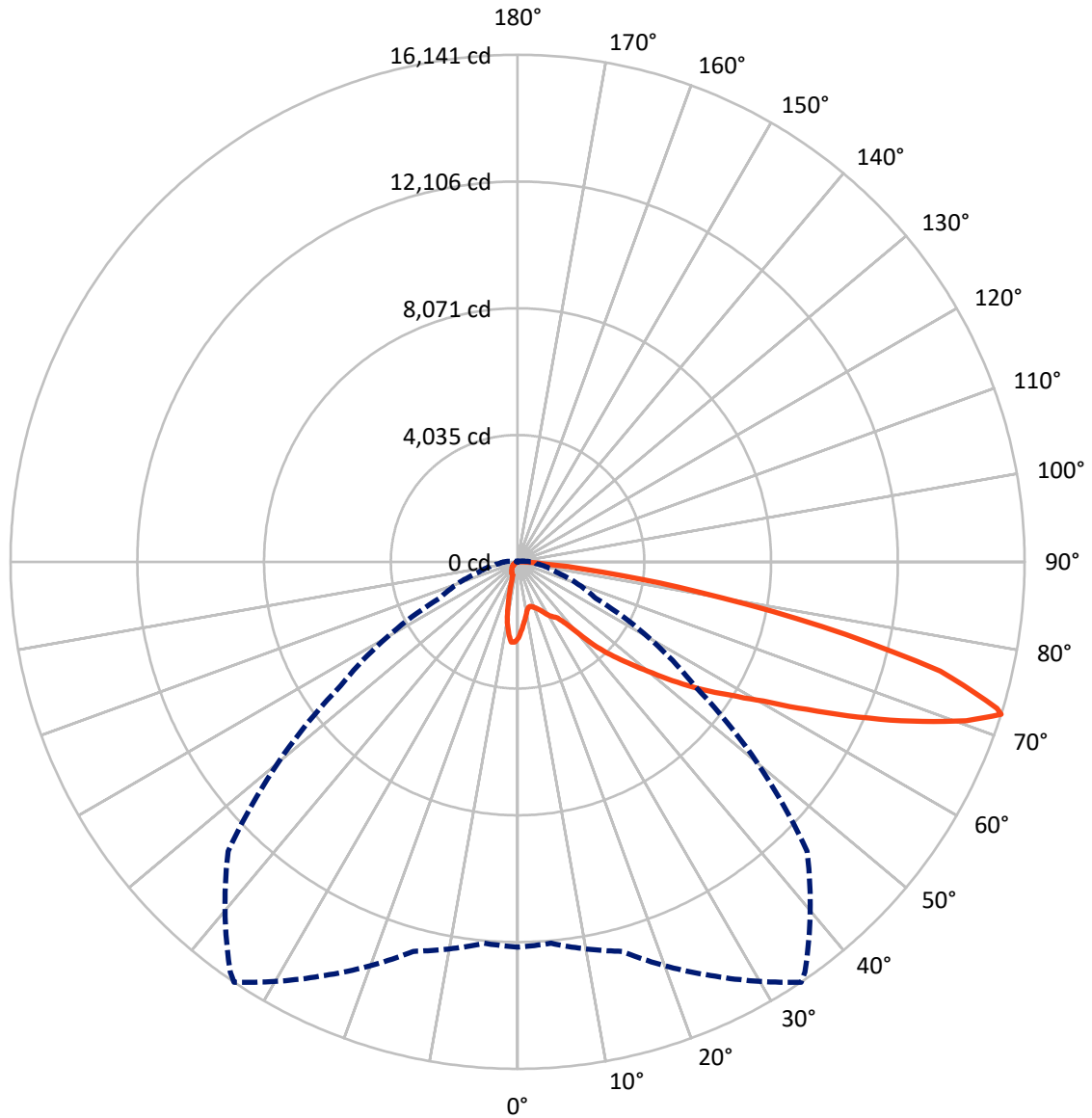
× Max cd  
 - - - 1/2 Max cd



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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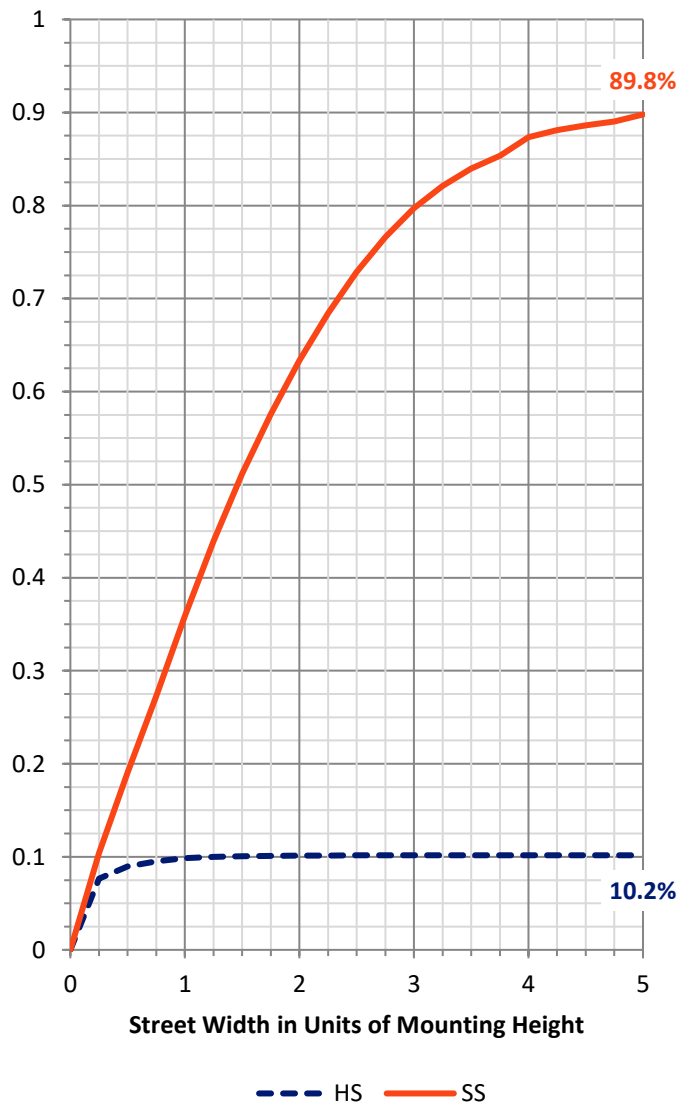
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1701.8	0.0	1701.8
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	14920.8	0.0	14920.8
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	16622.6	0.0	16622.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.1	1.3
10°-20°	478.0	2.9
20°-30°	721.4	4.3
30°-40°	1170.7	7.0
40°-50°	2201.5	13.2
50°-60°	3599.4	21.7
60°-70°	4784.9	28.8
70°-80°	3204.4	19.3
80°-90°	251.1	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°	16622.6	100.0
0°-180°	16622.6	100.0

**Coefficient of Utilization**

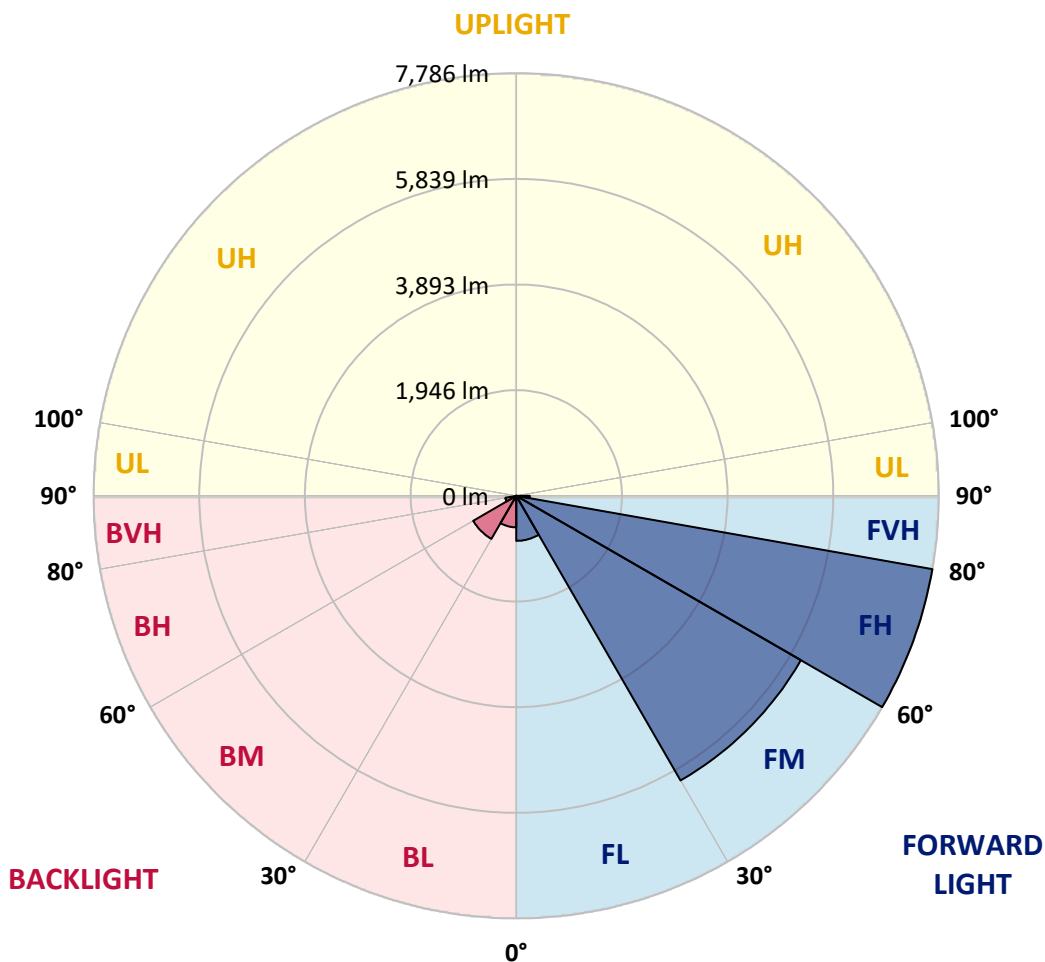


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.8	5.0			
FM (30°-60°)	6055.6	36.4			
FH (60°-80°)	7785.9	46.8			G4/12000
FVH (80°-90°)	249.5	1.5			G3/500
BL (0°-30°)	580.6	3.5	B2/1000		
BM (30°-60°)	916.0	5.5	B1/1000		
BH (60°-80°)	203.5	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°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2150.7	2145.9	2160.4	2184.4	2208.4	2198.8	2244.5	2292.5	2326.2	2371.8
5°	1879.2	1891.2	1905.6	1953.7	1984.9	1992.1	2076.2	2138.7	2242.1	2347.8
7.5°	1631.7	1646.1	1674.9	1727.8	1792.7	1809.5	1893.6	2018.6	2153.1	2292.5
10°	1451.4	1465.9	1497.1	1530.8	1617.3	1617.3	1732.6	1905.6	2081.1	2244.5
12.5°	1413.0	1420.2	1417.8	1444.2	1499.5	1511.5	1624.5	1814.3	2018.6	2227.6
15°	1458.7	1463.5	1439.4	1425.0	1473.1	1485.1	1590.8	1759.0	1977.7	2237.3
17.5°	1550.0	1533.2	1485.1	1463.5	1504.3	1511.5	1610.1	1756.6	1972.9	2263.7
20°	1602.8	1622.1	1538.0	1497.1	1554.8	1564.4	1670.1	1795.1	1996.9	2309.3
22.5°	1696.6	1706.2	1593.2	1566.8	1622.1	1622.1	1742.2	1872.0	2054.6	2383.8
25°	1828.7	1816.7	1684.5	1658.1	1711.0	1732.6	1852.8	1994.5	2143.5	2453.5
27.5°	1932.1	1939.3	1831.1	1761.4	1850.4	1864.8	1994.5	2126.7	2210.8	2511.2
30°	2085.9	2071.4	1956.1	1876.8	1987.3	1989.7	2114.7	2251.7	2340.6	2614.5
32.5°	2268.5	2239.7	2107.5	1994.5	2083.5	2105.1	2232.4	2431.9	2542.4	2809.2
35°	2655.4	2585.7	2369.4	2194.0	2201.2	2210.8	2407.9	2693.8	2821.2	3056.7
37.5°	3220.1	3191.3	2946.2	2612.1	2484.8	2455.9	2677.0	3039.9	3198.5	3383.5
40°	3780.0	3739.2	3510.9	3258.6	3027.9	2970.2	3080.7	3498.9	3643.0	3837.7
42.5°	4402.4	4330.3	4061.2	3856.9	3712.7	3650.3	3607.0	4075.6	4239.0	4371.2
45°	5032.0	4914.3	4525.0	4368.8	4291.9	4258.2	4253.4	4801.3	4899.8	4926.3
47.5°	5584.7	5457.4	5104.1	4928.7	4871.0	4861.4	5130.5	5637.6	5560.7	5491.0
50°	6010.1	5928.4	5673.6	5611.1	5567.9	5551.1	6180.7	6497.9	6142.2	6019.7
52.5°	6668.5	6485.9	6197.5	6219.1	6370.5	6372.9	7245.2	7314.9	6625.2	6382.5
55°	7194.8	7074.6	6839.1	6807.9	7206.8	7250.0	8199.2	7934.9	6894.4	6728.6
57.5°	7814.8	7759.5	7588.9	7593.7	8011.8	8103.1	9047.5	8458.8	7117.9	6952.1
60°	8711.1	8552.5	8463.6	8504.4	8997.1	9086.0	9869.4	8836.1	7226.0	7098.6
62.5°	9701.2	9516.1	9420.0	9629.1	10347.6	10362.0	10494.2	9170.1	7158.7	7137.1
65°	10893.1	10710.4	10633.5	11054.1	11907.2	11854.3	11371.3	9311.9	6944.8	6750.2
67.5°	12080.2	11969.7	11811.0	12481.5	13543.7	13543.7	12282.0	9259.0	6384.9	5418.9
70°	12642.5	12719.4	12971.7	14024.3	15151.3	15036.0	13180.8	8651.0	4753.3	2910.1
72°	12267.6	12188.3	12839.6	14528.9	16141.4	15951.5	13029.4	6877.6	2746.7	1276.0
72.5°	11623.6	11698.1	12594.4	14459.2	15956.3	16112.5	12659.3	6344.1	2258.9	1016.5
75°	7127.5	7254.8	9400.8	12277.2	13904.1	13728.7	9792.5	3023.1	867.5	432.6
77.5°	2602.5	2708.3	4561.0	7725.8	9888.6	9778.1	5666.4	1074.2	471.0	322.0
80°	677.7	732.9	1550.0	3563.7	5815.4	5822.6	2371.8	430.1	319.6	264.3
82.5°	134.6	149.0	475.8	1386.6	2717.9	2681.8	749.8	230.7	240.3	216.3
85°	16.8	21.6	100.9	471.0	879.5	788.2	185.0	115.3	177.8	168.2
87.5°	2.4	2.4	24.0	108.1	185.0	180.2	38.4	36.0	79.3	103.3
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°
2431.9	0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2427.1	2.5°	2458.3	2467.9	2501.6	2530.4	2564.1	2573.7	2559.3	2583.3	2549.6	2568.9
2446.3	5°	2463.1	2518.4	2580.9	2621.7	2612.1	2588.1	2568.9	2504.0	2458.3	2441.5
2453.5	7.5°	2496.8	2559.3	2626.5	2626.5	2573.7	2448.7	2328.6	2213.2	2117.1	2069.0
2455.9	10°	2540.0	2604.9	2674.6	2583.3	2386.2	2157.9	1987.3	1771.1	1624.5	1547.6
2494.4	12.5°	2597.7	2689.0	2713.1	2501.6	2174.8	1835.9	1525.9	1225.6	1086.2	975.6
2556.9	15°	2672.2	2761.1	2689.0	2323.8	1905.6	1405.8	1033.3	747.4	636.8	579.1
2628.9	17.5°	2770.7	2838.0	2681.8	2160.4	1542.8	961.2	634.4	504.6	480.6	471.0
2729.9	20°	2886.1	2936.5	2612.1	1905.6	1146.3	617.6	466.2	451.8	454.2	449.4
2850.0	22.5°	3015.8	3032.7	2532.8	1610.1	776.2	456.6	435.0	437.4	439.8	435.0
2960.6	25°	3152.8	3107.2	2417.5	1264.0	516.7	415.7	420.5	425.3	427.7	430.1
3095.1	27.5°	3306.6	3215.3	2256.5	925.2	403.7	391.7	406.1	420.5	422.9	422.9
3297.0	30°	3532.5	3381.1	2100.3	627.2	355.7	365.3	389.3	406.1	418.1	418.1
3609.4	32.5°	3818.5	3554.1	1881.6	427.7	329.2	334.0	353.3	386.9	413.3	415.7
4027.5	35°	4215.0	3763.2	1653.3	341.2	310.0	312.4	324.4	350.8	396.5	410.9
4570.6	37.5°	4633.1	4001.1	1369.7	307.6	295.6	293.2	300.4	322.0	362.9	398.9
5128.1	40°	5077.7	4251.0	1071.8	290.8	283.6	278.8	281.2	290.8	322.0	367.7
5673.6	42.5°	5495.8	4476.9	805.0	273.9	271.5	266.7	266.7	269.1	286.0	317.2
6279.2	45°	5947.6	4661.9	612.8	261.9	254.7	257.1	247.5	242.7	254.7	257.1
6954.5	47.5°	6370.5	4847.0	490.2	247.5	240.3	240.3	228.3	218.7	218.7	197.1
7548.0	50°	6767.0	4947.9	391.7	228.3	225.9	223.5	206.7	189.8	175.4	149.0
8107.9	52.5°	7096.2	4943.1	302.8	204.3	211.5	204.3	177.8	153.8	132.2	108.1
8314.6	55°	7194.8	4712.4	228.3	168.2	180.2	170.6	141.8	120.2	96.1	76.9
8345.8	57.5°	7110.7	4361.6	173.0	129.8	139.4	129.8	108.1	88.9	67.3	52.9
8268.9	60°	6829.5	3950.6	134.6	100.9	105.7	98.5	81.7	67.3	48.1	33.6
7773.9	62.5°	6296.0	3436.4	103.3	79.3	76.9	76.9	62.5	50.5	33.6	19.2
6473.8	65°	5166.6	2679.4	79.3	55.3	55.3	55.3	48.1	36.0	21.6	9.6
4234.2	67.5°	3244.1	1559.6	64.9	43.3	40.9	40.9	33.6	24.0	12.0	2.4
1665.3	70°	1220.8	571.9	50.5	33.6	31.2	31.2	24.0	14.4	7.2	0.0
579.1	72°	420.5	218.7	40.9	24.0	24.0	21.6	16.8	12.0	4.8	0.0
437.4	72.5°	346.0	175.4	38.4	24.0	21.6	21.6	16.8	12.0	4.8	0.0
156.2	75°	125.0	72.1	26.4	16.8	14.4	14.4	12.0	7.2	2.4	0.0
79.3	77.5°	62.5	45.7	21.6	14.4	12.0	7.2	7.2	4.8	2.4	0.0
48.1	80°	38.4	28.8	12.0	9.6	7.2	4.8	2.4	2.4	0.0	0.0
33.6	82.5°	26.4	16.8	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0
21.6	85°	16.8	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0
12.0	87.5°	7.2	4.8	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°  
2431.9  
2573.7  
2477.6  
2109.9  
1554.8  
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471.0  
449.4  
437.4  
430.1  
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415.7  
408.5  
408.5  
401.3  
377.3  
322.0  
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