

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: P575215

Luminaire Tested: **EPH-VN-03-740-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575215  
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-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

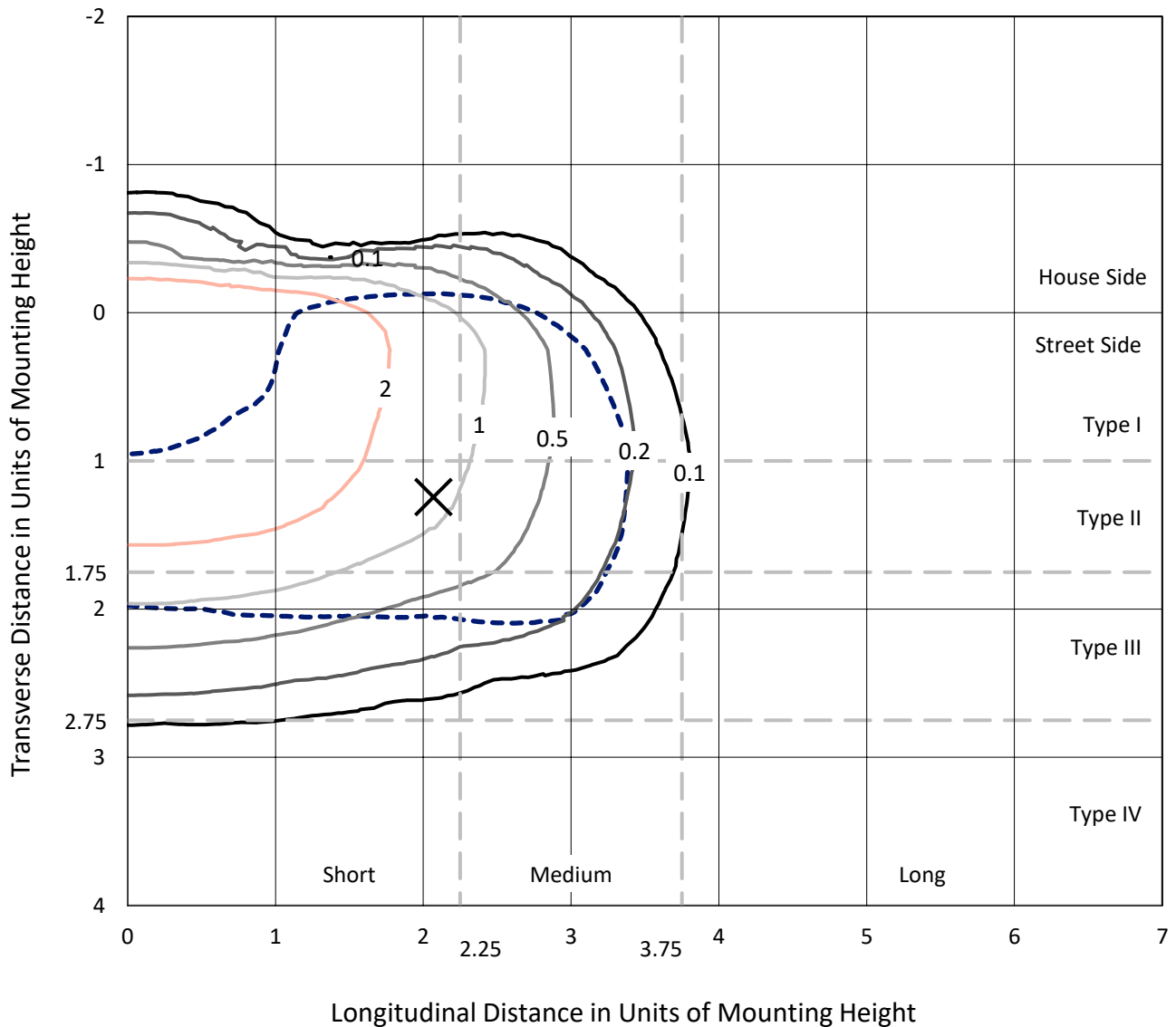
Lumens per Lamp: N/A  
Luminaire Lumens: 17294.9 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

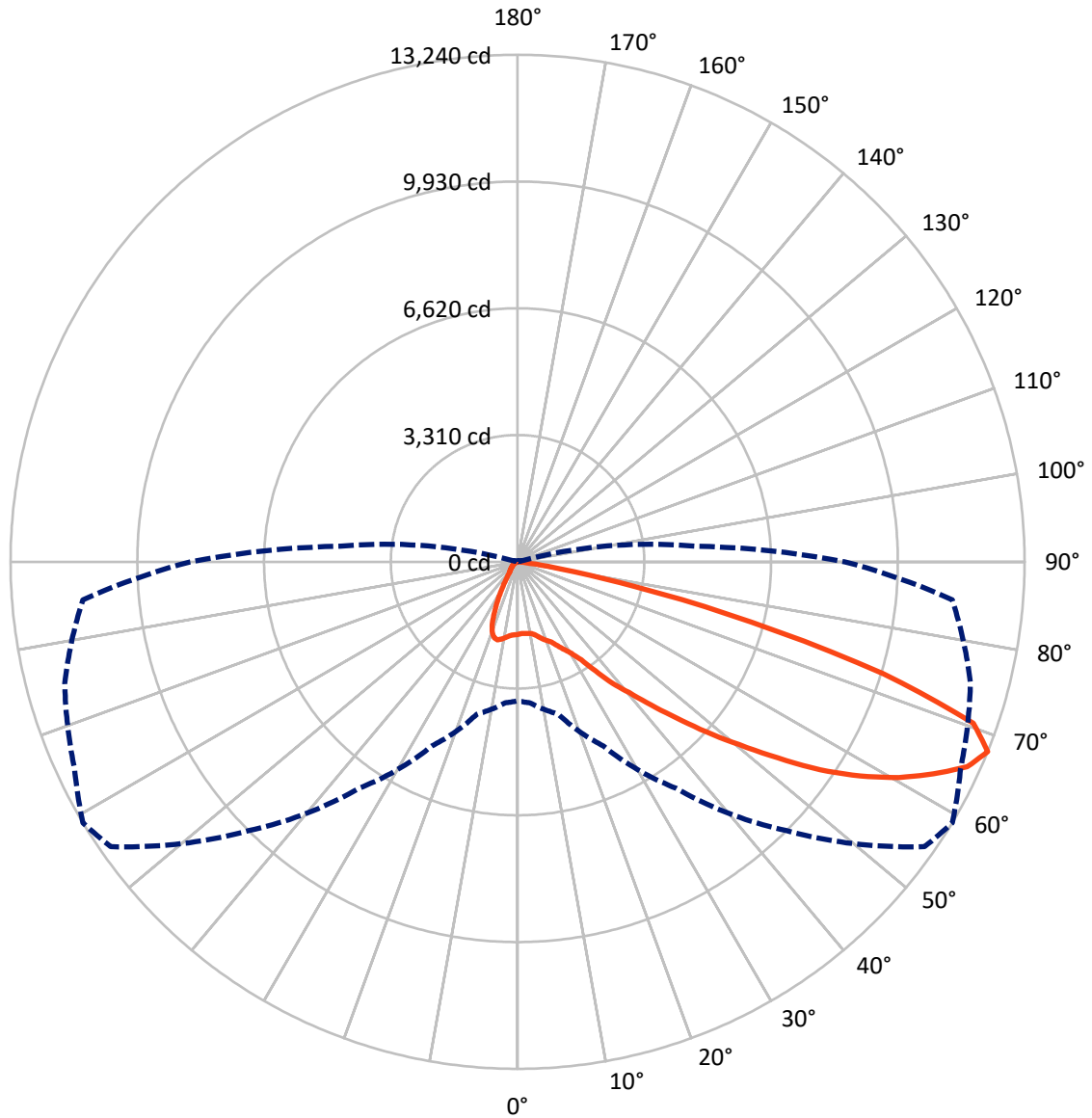
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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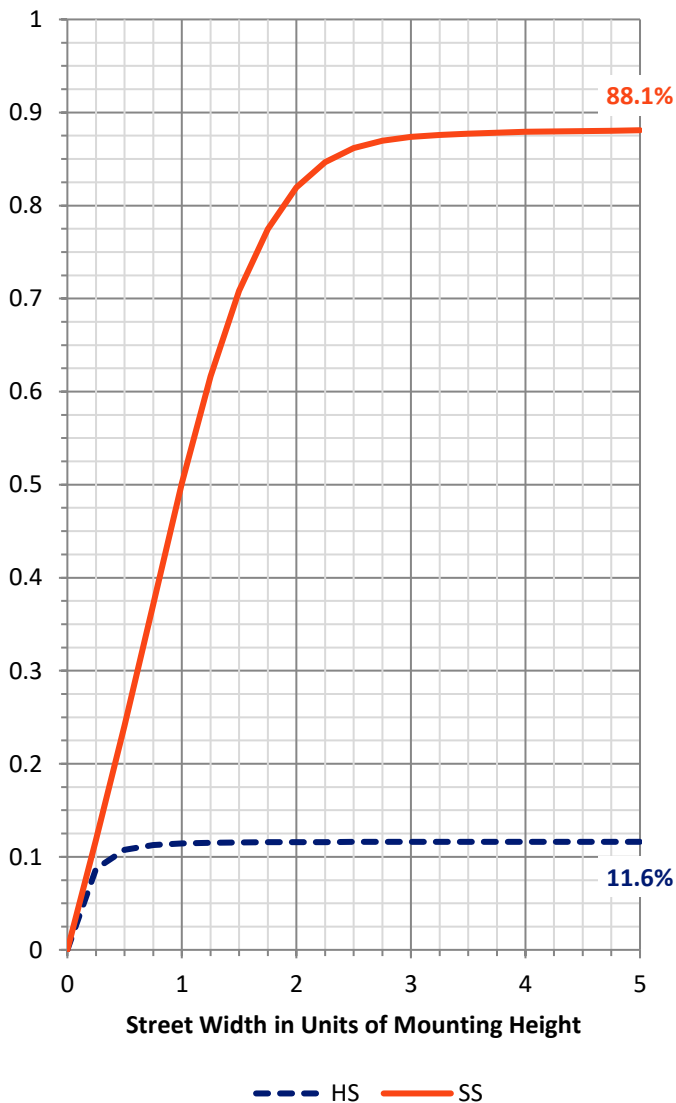
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2031.6	0.0	2031.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	15263.3	0.0	15263.3
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	17294.9	0.0	17294.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	520.5	3.0
20°-30°	909.7	5.3
30°-40°	1601.6	9.3
40°-50°	2831.2	16.4
50°-60°	4482.7	25.9
60°-70°	4972.6	28.8
70°-80°	1725.4	10.0
80°-90°	71.1	0.4
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°	17294.9	100.0
0°-180°	17294.9	100.0

**Coefficient of Utilization**



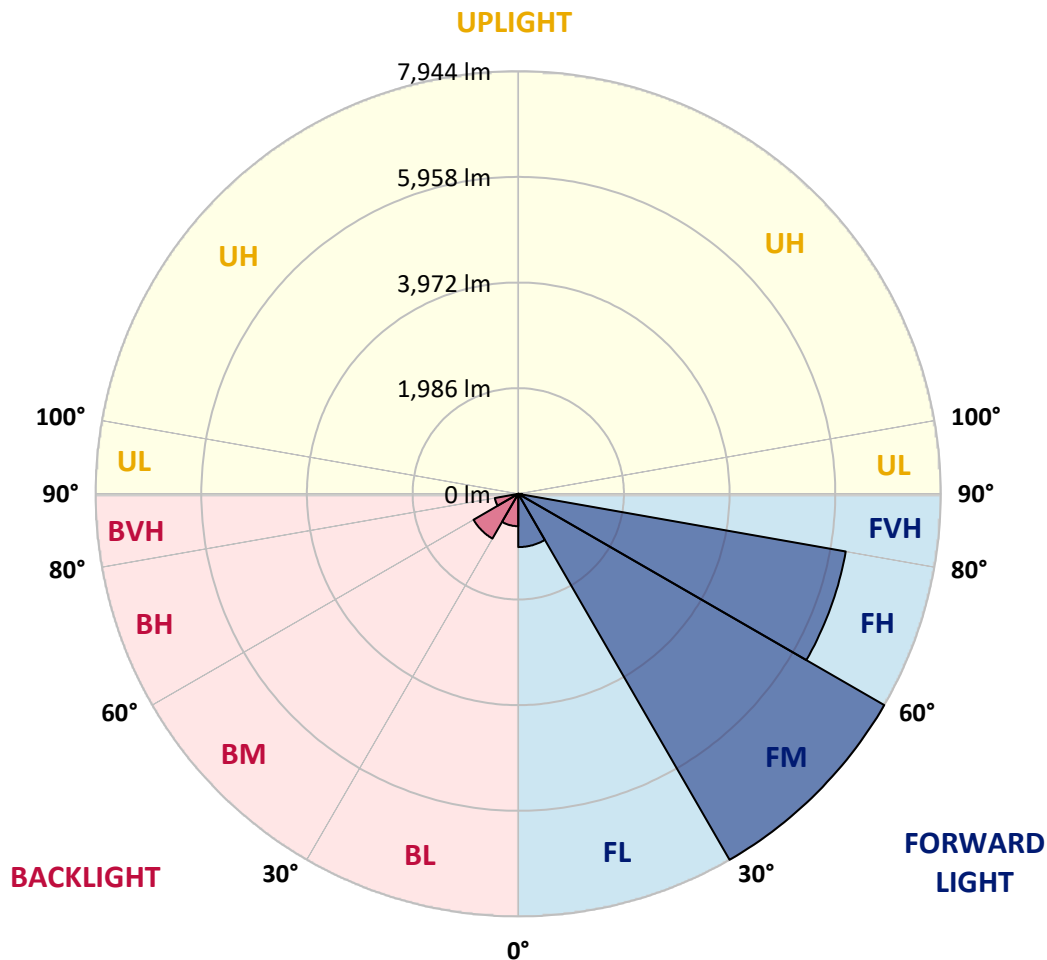
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.5	5.8			
FM (30°-60°)	7944.2	45.9			
FH (60°-80°)	6251.2	36.1			G3/7500
FVH (80°-90°)	66.5	0.4			G1/100
BL (0°-30°)	608.9	3.5	B2/1000		
BM (30°-60°)	971.3	5.6	B1/1000		
BH (60°-80°)	446.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.6	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9
2.5°	1842.0	1815.7	1839.6	1842.0	1844.4	1865.9	1889.8	1873.0	1870.7	1889.8
5°	1767.9	1756.0	1784.6	1799.0	1822.9	1842.0	1880.2	1882.6	1885.0	1906.5
7.5°	1736.9	1708.2	1741.6	1758.4	1775.1	1820.5	1865.9	1889.8	1923.2	1949.5
10°	1674.7	1696.3	1705.8	1734.5	1782.3	1834.8	1889.8	1901.7	1975.8	1997.3
12.5°	1696.3	1710.6	1729.7	1736.9	1789.4	1868.3	1942.3	1947.1	2023.6	2116.7
15°	1751.2	1741.6	1748.8	1758.4	1820.5	1885.0	2004.4	2025.9	2097.6	2202.7
17.5°	1868.3	1851.5	1839.6	1837.2	1851.5	1911.3	2052.2	2116.7	2183.6	2327.0
20°	2162.1	2147.8	2100.0	1975.8	1932.8	1956.7	2109.6	2200.3	2293.5	2453.6
22.5°	2608.9	2623.2	2510.9	2336.5	2157.3	2064.2	2200.3	2279.2	2427.3	2630.4
25°	3136.9	3108.2	2972.0	2769.0	2487.0	2267.2	2346.1	2434.5	2616.1	2783.3
27.5°	3550.2	3516.7	3411.6	3165.5	2921.9	2565.9	2537.2	2592.2	2807.2	2957.7
30°	3958.7	3970.7	3899.0	3607.5	3306.5	2931.4	2749.8	2773.7	2938.6	3132.1
32.5°	4479.5	4450.9	4410.3	4154.6	3798.6	3397.3	3086.7	3048.5	3120.1	3375.8
35°	4964.5	4947.8	4892.9	4634.8	4324.2	3887.0	3583.6	3497.6	3480.9	3765.2
37.5°	5387.4	5358.7	5275.1	5110.3	4809.2	4441.3	4109.2	4032.8	4030.4	4226.3
40°	5743.4	5764.9	5755.3	5573.7	5408.9	5115.0	4606.2	4484.3	4474.8	4579.9
42.5°	6204.5	6254.6	6228.3	6192.5	5994.2	5879.5	5303.8	5117.4	5033.8	5248.8
45°	6902.1	6921.2	6937.9	6849.5	6651.2	6675.1	6025.3	5803.1	5781.6	6101.7
47.5°	7554.3	7504.1	7621.2	7626.0	7616.4	7506.5	6804.1	6639.3	6667.9	6911.6
50°	7716.8	7845.8	8168.3	8228.0	8383.3	8483.6	7669.0	7504.1	7551.9	7829.0
52.5°	7843.4	8039.3	8361.8	8799.0	9217.1	9456.0	8636.5	8502.8	8500.4	8670.0
55°	8065.6	8185.0	8464.5	9066.6	9862.2	10254.0	9802.4	9587.4	9393.9	9513.3
57.5°	8044.1	8089.4	8524.3	9267.3	10373.4	11085.4	10760.4	10555.0	10306.5	10237.2
60°	7666.6	7774.1	8261.5	9131.1	10688.8	11732.8	11654.0	11443.7	11016.1	10853.6
62.5°	6918.8	7062.1	7444.4	8653.3	10230.1	11766.3	12270.4	12191.5	11713.7	11422.2
65°	5607.2	5674.1	6113.7	7439.6	9193.2	11252.6	12999.0	12901.1	12461.5	12026.7
67.5°	3631.4	3695.9	4118.8	5310.9	7219.8	9926.7	12970.4	13240.3	12764.9	12241.7
70°	1715.4	1698.6	2092.8	2950.5	4625.3	7580.6	12093.6	12626.3	12222.6	11097.3
72.5°	523.2	568.6	869.6	1306.8	2374.8	4728.0	9479.9	9979.2	9852.6	8865.9
75°	231.7	250.9	341.6	535.2	962.8	1939.9	5855.7	6300.0	6245.1	5229.7
77.5°	148.1	162.5	215.0	305.8	437.2	616.4	2697.3	3129.7	3034.1	1837.2
80°	105.1	112.3	152.9	210.2	274.7	253.2	929.4	1103.8	1058.4	499.3
82.5°	57.3	62.1	112.3	155.3	184.0	129.0	260.4	324.9	339.3	222.2
85°	21.5	26.3	69.3	109.9	95.6	59.7	76.5	93.2	121.8	121.8
87.5°	0.0	2.4	28.7	47.8	23.9	16.7	21.5	26.3	33.4	57.3
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°
1896.9	0°	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9
1906.5	2.5°	1918.4	1901.7	1908.9	1920.8	1894.5	1908.9	1880.2	1901.7	1908.9	1880.2
1935.2	5°	1942.3	1959.1	1949.5	1930.4	1913.7	1918.4	1911.3	1894.5	1908.9	1913.7
1978.2	7.5°	2011.6	1992.5	1997.3	1975.8	1942.3	1939.9	1894.5	1882.6	1887.4	1892.2
2066.6	10°	2076.1	2088.1	2064.2	2047.4	1992.5	1956.7	1894.5	1827.7	1820.5	1791.8
2152.6	12.5°	2190.8	2162.1	2152.6	2097.6	2042.7	1923.2	1789.4	1686.7	1600.7	1569.6
2291.1	15°	2286.4	2281.6	2264.9	2181.2	2054.6	1837.2	1584.0	1345.1	1180.2	1077.5
2372.4	17.5°	2417.8	2396.3	2365.2	2233.8	1966.2	1612.6	1180.2	879.2	714.3	649.8
2527.7	20°	2518.1	2501.4	2458.4	2221.9	1806.1	1201.7	731.1	559.0	518.4	506.5
2697.3	22.5°	2663.8	2611.3	2530.0	2162.1	1514.7	800.3	525.6	499.3	492.2	482.6
2809.6	25°	2790.5	2742.7	2573.0	2059.4	1079.9	530.4	487.4	473.0	461.1	449.1
2929.0	27.5°	2902.7	2843.0	2618.4	1849.2	676.1	456.3	451.5	434.8	410.9	391.8
3067.6	30°	3012.6	2943.4	2630.4	1455.0	456.3	413.3	401.4	375.1	344.0	317.7
3299.3	32.5°	3196.6	3113.0	2613.7	1039.3	394.2	367.9	341.6	310.6	265.2	243.7
3631.4	35°	3483.3	3356.7	2592.2	611.6	353.6	324.9	284.3	243.7	210.2	188.7
3968.3	37.5°	3813.0	3593.2	2530.0	408.5	324.9	286.7	234.1	193.5	164.8	148.1
4429.4	40°	4302.7	3939.6	2291.1	334.5	289.1	243.7	188.7	152.9	131.4	119.5
5112.6	42.5°	4842.7	4336.2	1923.2	301.0	255.6	207.9	150.5	124.2	107.5	95.6
5795.9	45°	5490.1	4749.5	1483.6	274.7	227.0	172.0	124.2	100.3	86.0	76.5
6596.3	47.5°	6211.6	5124.6	1001.0	248.5	191.1	141.0	102.7	76.5	62.1	54.9
7468.3	50°	6856.7	5456.7	637.9	217.4	167.2	117.1	83.6	62.1	50.2	40.6
8173.1	52.5°	7442.0	5709.9	439.6	191.1	143.3	95.6	69.3	50.2	38.2	31.1
8904.1	55°	8041.7	5838.9	324.9	164.8	124.2	81.2	57.3	45.4	33.4	26.3
9745.1	57.5°	8533.8	5893.9	248.5	143.3	105.1	64.5	50.2	38.2	28.7	21.5
10390.1	60°	8954.3	5867.6	193.5	119.5	83.6	54.9	43.0	31.1	23.9	16.7
11231.1	62.5°	9200.4	5709.9	152.9	102.7	66.9	47.8	35.8	26.3	16.7	11.9
11663.5	65°	9205.2	5375.4	119.5	76.5	50.2	40.6	31.1	21.5	11.9	4.8
11393.6	67.5°	8545.8	4651.6	95.6	59.7	40.6	31.1	23.9	16.7	4.8	0.0
9463.2	70°	6684.7	3519.1	78.8	47.8	33.4	26.3	16.7	9.6	2.4	0.0
6316.7	72.5°	4259.7	2107.2	64.5	38.2	28.7	19.1	11.9	7.2	0.0	0.0
2883.6	75°	1782.3	649.8	50.2	33.4	21.5	14.3	9.6	2.4	0.0	0.0
755.0	77.5°	458.7	205.5	40.6	28.7	21.5	11.9	7.2	2.4	0.0	0.0
203.1	80°	136.2	76.5	33.4	23.9	16.7	9.6	4.8	2.4	0.0	0.0
98.0	82.5°	62.1	45.4	28.7	21.5	14.3	9.6	4.8	0.0	0.0	0.0
45.4	85°	23.9	14.3	14.3	11.9	11.9	7.2	2.4	0.0	0.0	0.0
16.7	87.5°	9.6	4.8	4.8	4.8	2.4	2.4	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°
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