

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: P575283

Luminaire Tested: **EPH-VN-03-730-U-T4FT-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575283  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-730-U-T4FT-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT distribution lens and House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

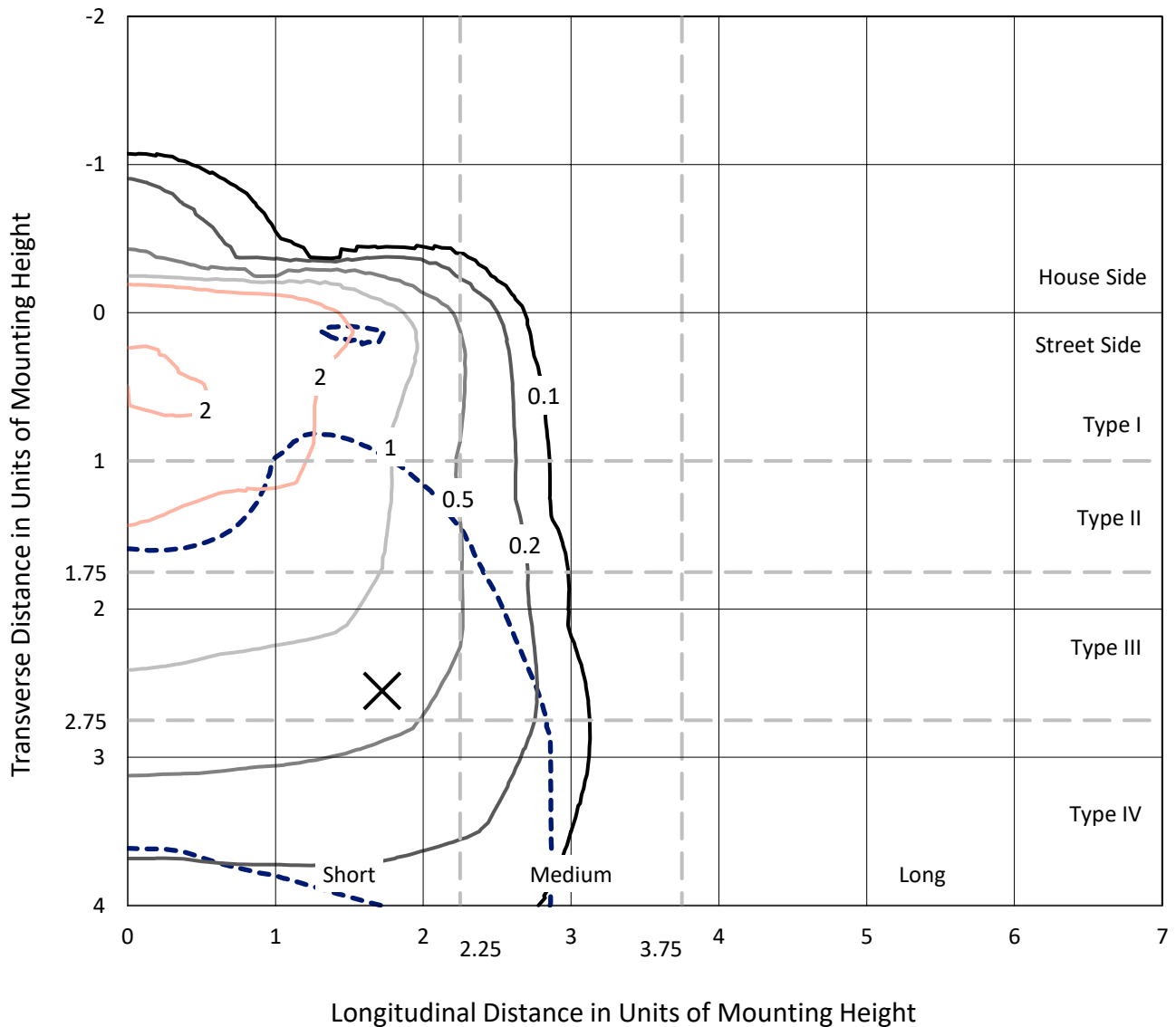
Lumens per Lamp: N/A  
Luminaire Lumens: 15346.8 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

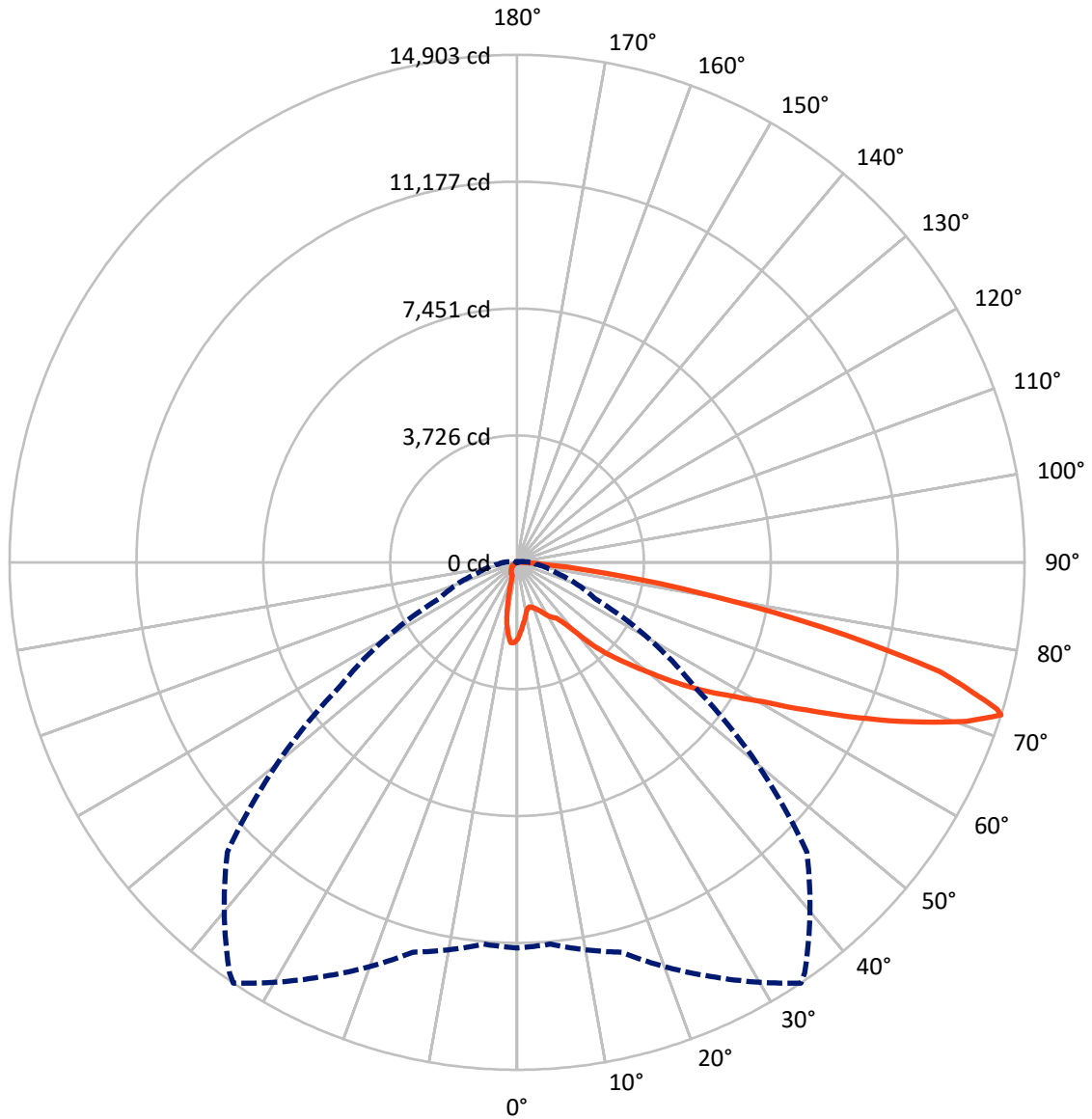
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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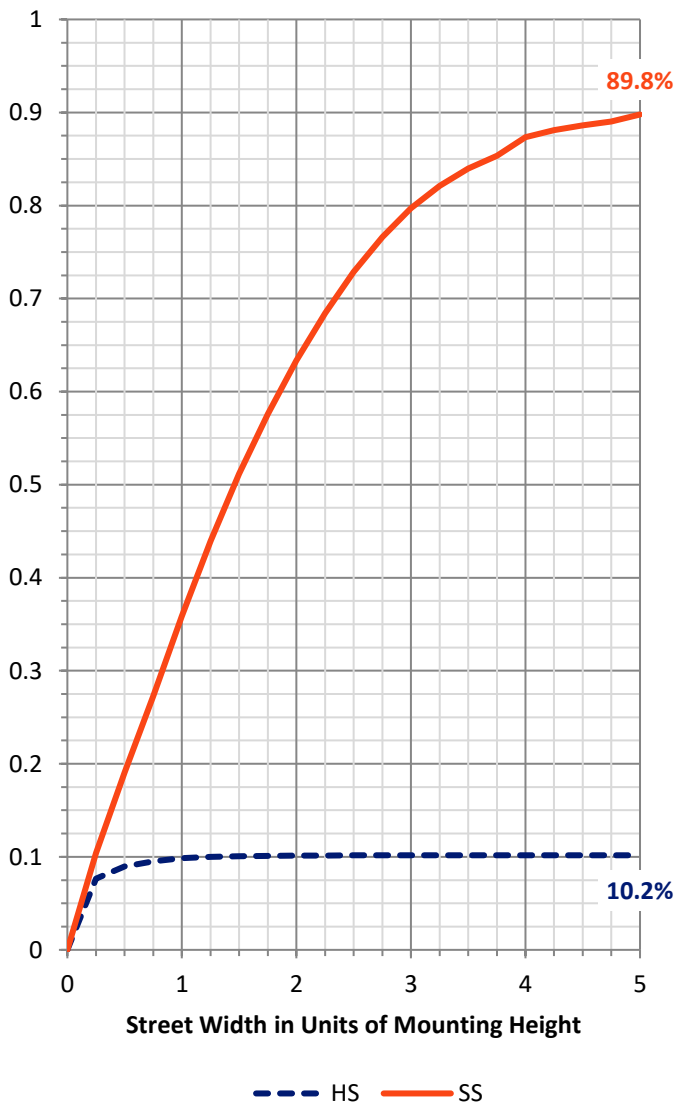
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1571.1	0.0	1571.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	13775.7	0.0	13775.7
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	15346.8	0.0	15346.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.9	1.3
10°-20°	441.3	2.9
20°-30°	666.0	4.3
30°-40°	1080.9	7.0
40°-50°	2032.5	13.2
50°-60°	3323.2	21.7
60°-70°	4417.7	28.8
70°-80°	2958.5	19.3
80°-90°	231.8	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°	15346.8	100.0
0°-180°	15346.8	100.0



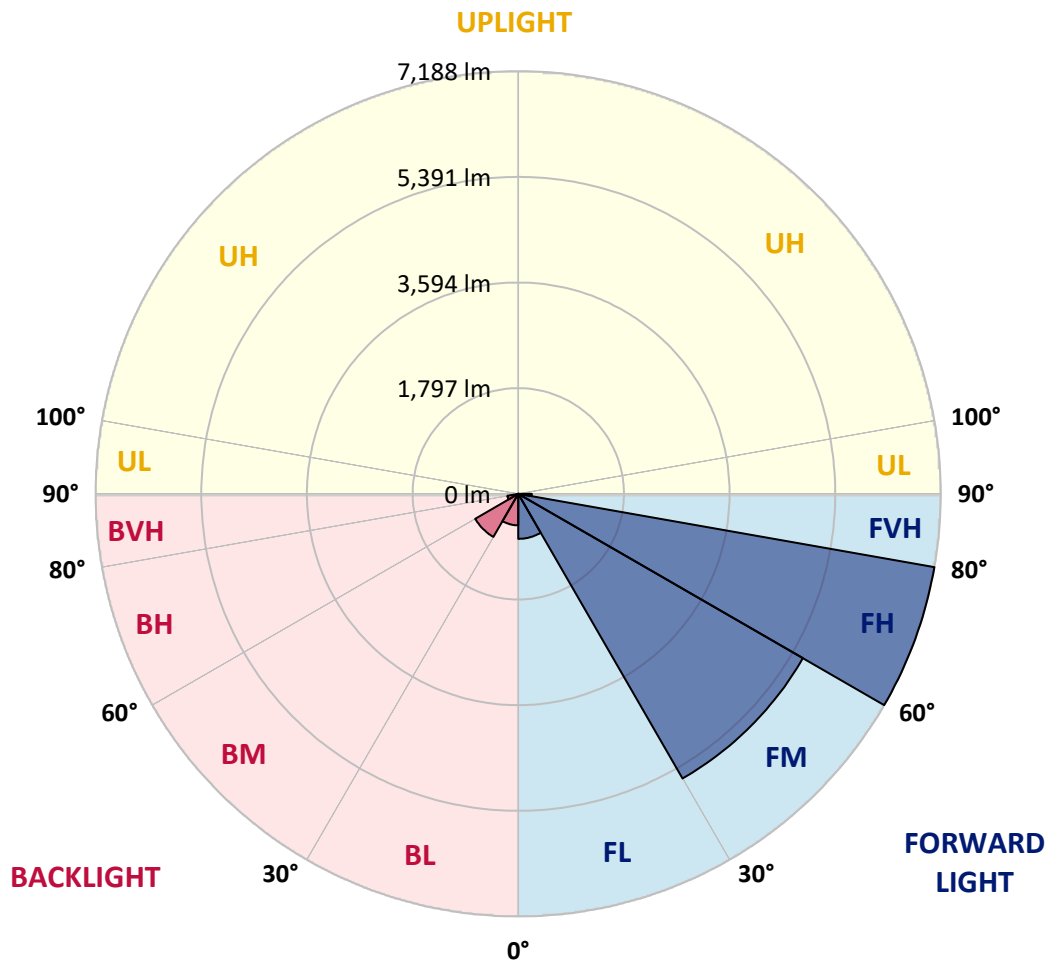
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.1	5.0			
FM (30°-60°)	5590.8	36.4			
FH (60°-80°)	7188.3	46.8			G3/7500
FVH (80°-90°)	230.4	1.5			G3/500
BL (0°-30°)	536.1	3.5	B2/1000		
BM (30°-60°)	845.7	5.5	B1/1000		
BH (60°-80°)	187.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2
2.5°	1985.7	1981.2	1994.5	2016.7	2038.9	2030.0	2072.2	2116.6	2147.6	2189.8
5°	1735.0	1746.1	1759.4	1803.7	1832.6	1839.2	1916.9	1974.6	2070.0	2167.6
7.5°	1506.4	1519.8	1546.4	1595.2	1655.1	1670.6	1748.3	1863.6	1987.9	2116.6
10°	1340.0	1353.4	1382.2	1413.3	1493.1	1493.1	1599.6	1759.4	1921.3	2072.2
12.5°	1304.6	1311.2	1309.0	1333.4	1384.4	1395.5	1499.8	1675.1	1863.6	2056.7
15°	1346.7	1351.1	1329.0	1315.6	1360.0	1371.1	1468.7	1624.0	1825.9	2065.5
17.5°	1431.0	1415.5	1371.1	1351.1	1388.9	1395.5	1486.5	1621.8	1821.5	2089.9
20°	1479.8	1497.6	1419.9	1382.2	1435.4	1444.3	1541.9	1657.3	1843.7	2132.1
22.5°	1566.3	1575.2	1470.9	1446.5	1497.6	1497.6	1608.5	1728.3	1896.9	2200.9
25°	1688.4	1677.3	1555.3	1530.9	1579.7	1599.6	1710.6	1841.5	1979.0	2265.2
27.5°	1783.8	1790.4	1690.6	1626.3	1708.3	1721.7	1841.5	1963.5	2041.1	2318.5
30°	1925.8	1912.5	1806.0	1732.7	1834.8	1837.0	1952.4	2078.9	2160.9	2413.9
32.5°	2094.4	2067.8	1945.7	1841.5	1923.5	1943.5	2061.1	2245.2	2347.3	2593.6
35°	2451.6	2387.2	2187.6	2025.6	2032.3	2041.1	2223.1	2487.1	2604.7	2822.1
37.5°	2973.0	2946.3	2720.0	2411.6	2294.1	2267.4	2471.5	2806.6	2953.0	3123.8
40°	3489.9	3452.2	3241.4	3008.5	2795.5	2742.2	2844.3	3230.3	3363.4	3543.1
42.5°	4064.5	3998.0	3749.5	3560.9	3427.8	3370.1	3330.2	3762.8	3913.7	4035.7
45°	4645.8	4537.1	4177.7	4033.5	3962.5	3931.4	3927.0	4432.8	4523.8	4548.2
47.5°	5156.1	5038.5	4712.4	4550.4	4497.1	4488.3	4736.8	5204.9	5133.9	5069.6
50°	5548.8	5473.3	5238.2	5180.5	5140.6	5125.0	5706.3	5999.2	5670.8	5557.7
52.5°	6156.7	5988.1	5721.8	5741.8	5881.6	5883.8	6689.1	6753.5	6116.7	5892.7
55°	6642.6	6531.6	6314.2	6285.4	6653.7	6693.6	7569.9	7325.9	6365.2	6212.1
57.5°	7215.0	7163.9	7006.4	7010.8	7396.9	7481.2	8353.1	7809.6	6571.6	6418.5
60°	8042.5	7896.1	7814.0	7851.7	8306.5	8388.6	9111.9	8157.9	6671.4	6553.8
62.5°	8956.6	8785.7	8697.0	8890.0	9553.4	9566.7	9688.7	8466.3	6609.3	6589.3
65°	10057.0	9888.4	9817.4	10205.7	10993.3	10944.5	10498.5	8597.2	6411.8	6232.1
67.5°	11153.0	11051.0	10904.5	11523.5	12504.2	12504.2	11339.4	8548.4	5894.9	5003.0
70°	11672.2	11743.2	11976.1	12947.9	13988.4	13881.9	12169.1	7987.0	4388.4	2686.8
72°	11326.1	11252.9	11854.1	13413.8	14902.5	14727.2	12029.4	6349.7	2535.9	1178.1
72.5°	10731.5	10800.3	11627.8	13349.5	14731.7	14875.9	11687.7	5857.2	2085.5	938.5
75°	6580.4	6698.0	8679.3	11334.9	12837.0	12675.0	9040.9	2791.0	800.9	399.4
77.5°	2402.8	2500.4	4210.9	7132.9	9129.6	9027.6	5231.5	991.7	434.9	297.3
80°	625.7	676.7	1431.0	3290.2	5369.1	5375.7	2189.8	397.1	295.1	244.0
82.5°	124.2	137.6	439.3	1280.1	2509.3	2476.0	692.2	213.0	221.9	199.7
85°	15.5	20.0	93.2	434.9	812.0	727.7	170.8	106.5	164.2	155.3
87.5°	2.2	2.2	22.2	99.8	170.8	166.4	35.5	33.3	73.2	95.4
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°
2245.2	0°	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2
2240.8	2.5°	2269.7	2278.5	2309.6	2336.2	2367.3	2376.1	2362.8	2385.0	2354.0	2371.7
2258.6	5°	2274.1	2325.1	2382.8	2420.5	2411.6	2389.5	2371.7	2311.8	2269.7	2254.1
2265.2	7.5°	2305.1	2362.8	2425.0	2425.0	2376.1	2260.8	2149.8	2043.4	1954.6	1910.2
2267.4	10°	2345.1	2405.0	2469.3	2385.0	2203.1	1992.3	1834.8	1635.1	1499.8	1428.8
2302.9	12.5°	2398.3	2482.6	2504.8	2309.6	2007.9	1695.0	1408.8	1131.5	1002.8	900.8
2360.6	15°	2467.1	2549.2	2482.6	2145.4	1759.4	1297.9	954.0	690.0	587.9	534.7
2427.2	17.5°	2558.1	2620.2	2476.0	1994.5	1424.4	887.4	585.7	465.9	443.7	434.9
2520.4	20°	2664.6	2711.2	2411.6	1759.4	1058.3	570.2	430.4	417.1	419.3	414.9
2631.3	22.5°	2784.4	2799.9	2338.4	1486.5	716.6	421.5	401.6	403.8	406.0	401.6
2733.3	25°	2910.8	2868.7	2231.9	1167.0	477.0	383.8	388.3	392.7	394.9	397.1
2857.6	27.5°	3052.8	2968.5	2083.3	854.2	372.7	361.6	374.9	388.3	390.5	390.5
3044.0	30°	3261.4	3121.6	1939.1	579.1	328.4	337.2	359.4	374.9	386.0	386.0
3332.4	32.5°	3525.4	3281.3	1737.2	394.9	304.0	308.4	326.1	357.2	381.6	383.8
3718.4	35°	3891.5	3474.4	1526.4	315.0	286.2	288.4	299.5	323.9	366.1	379.4
4219.8	37.5°	4277.5	3694.0	1264.6	284.0	272.9	270.7	277.3	297.3	335.0	368.3
4734.5	40°	4688.0	3924.7	989.5	268.5	261.8	257.4	259.6	268.5	297.3	339.4
5238.2	42.5°	5074.0	4133.3	743.2	252.9	250.7	246.3	246.3	248.5	264.0	292.9
5797.3	45°	5491.1	4304.1	565.7	241.8	235.2	237.4	228.5	224.1	235.2	237.4
6420.7	47.5°	5881.6	4475.0	452.6	228.5	221.9	221.9	210.8	201.9	201.9	181.9
6968.7	50°	6247.6	4568.1	361.6	210.8	208.6	206.3	190.8	175.3	162.0	137.6
7485.6	52.5°	6551.6	4563.7	279.5	188.6	195.2	188.6	164.2	142.0	122.0	99.8
7676.4	55°	6642.6	4350.7	210.8	155.3	166.4	157.5	130.9	110.9	88.7	71.0
7705.3	57.5°	6564.9	4026.8	159.7	119.8	128.7	119.8	99.8	82.1	62.1	48.8
7634.3	60°	6305.3	3647.4	124.2	93.2	97.6	91.0	75.4	62.1	44.4	31.1
7177.2	62.5°	5812.8	3172.6	95.4	73.2	71.0	71.0	57.7	46.6	31.1	17.7
5977.0	65°	4770.0	2473.8	73.2	51.0	51.0	51.0	44.4	33.3	20.0	8.9
3909.2	67.5°	2995.1	1439.9	59.9	39.9	37.7	37.7	31.1	22.2	11.1	2.2
1537.5	70°	1127.1	528.0	46.6	31.1	28.8	28.8	22.2	13.3	6.7	0.0
534.7	72°	388.3	201.9	37.7	22.2	22.2	20.0	15.5	11.1	4.4	0.0
403.8	72.5°	319.5	162.0	35.5	22.2	20.0	20.0	15.5	11.1	4.4	0.0
144.2	75°	115.4	66.6	24.4	15.5	13.3	13.3	11.1	6.7	2.2	0.0
73.2	77.5°	57.7	42.2	20.0	13.3	11.1	6.7	6.7	4.4	2.2	0.0
44.4	80°	35.5	26.6	11.1	8.9	6.7	4.4	2.2	2.2	0.0	0.0
31.1	82.5°	24.4	15.5	6.7	6.7	4.4	2.2	0.0	0.0	0.0	0.0
20.0	85°	15.5	6.7	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0
11.1	87.5°	6.7	4.4	2.2	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°  
2245.2  
2376.1  
2287.4  
1948.0  
1435.4  
903.0  
534.7  
434.9  
414.9  
403.8  
397.1  
388.3  
383.8  
377.2  
377.2  
370.5  
348.3  
297.3  
235.2  
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