

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: P574686

Luminaire Tested: **EPH-VN-06-730-U-T3**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574686  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-730-U-T3  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

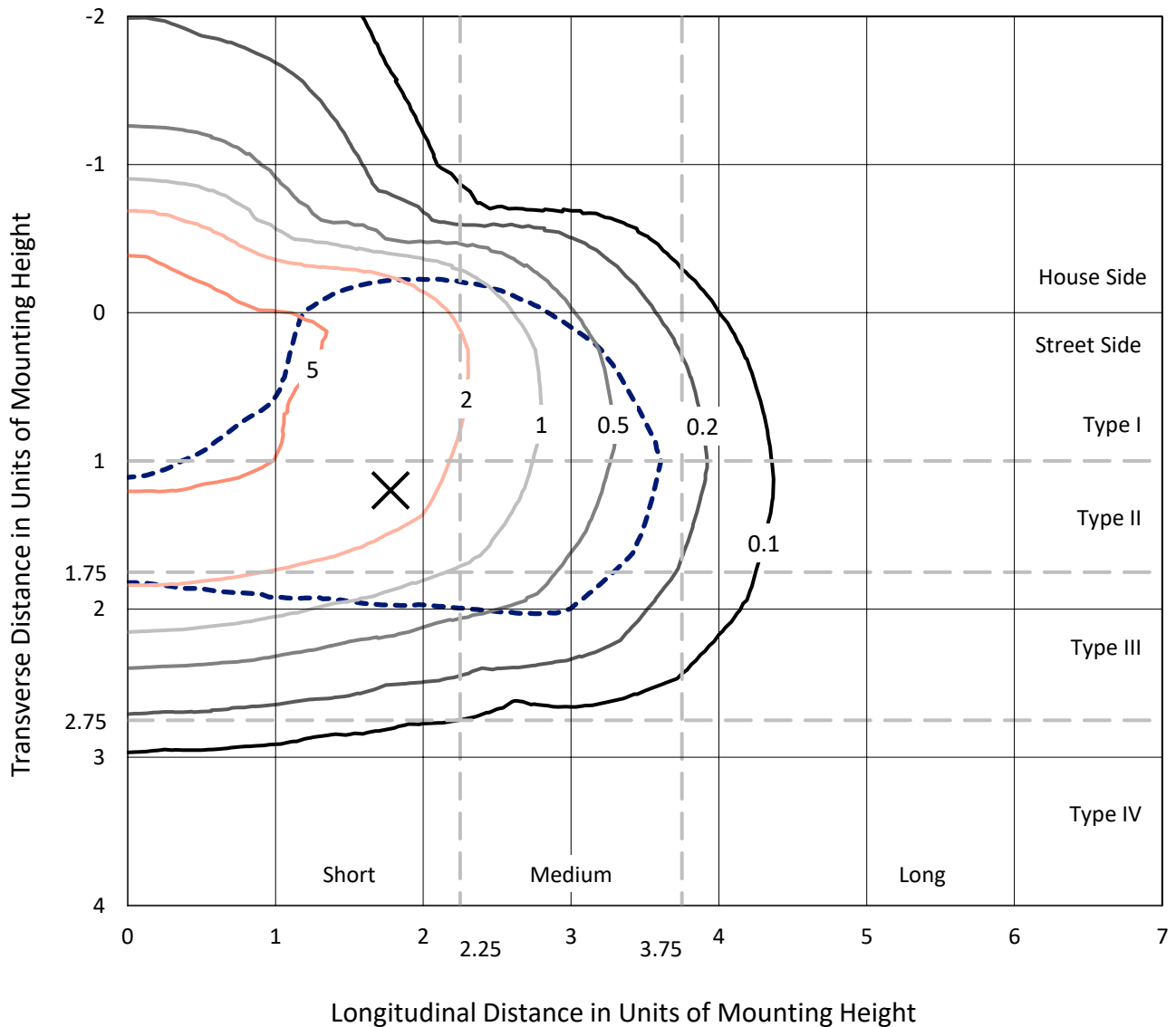
Lumens per Lamp: N/A  
Luminaire Lumens: 49074.9 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

REPORT NUMBER: P574686  
 CATALOG NUMBER: EPH-VN-06-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

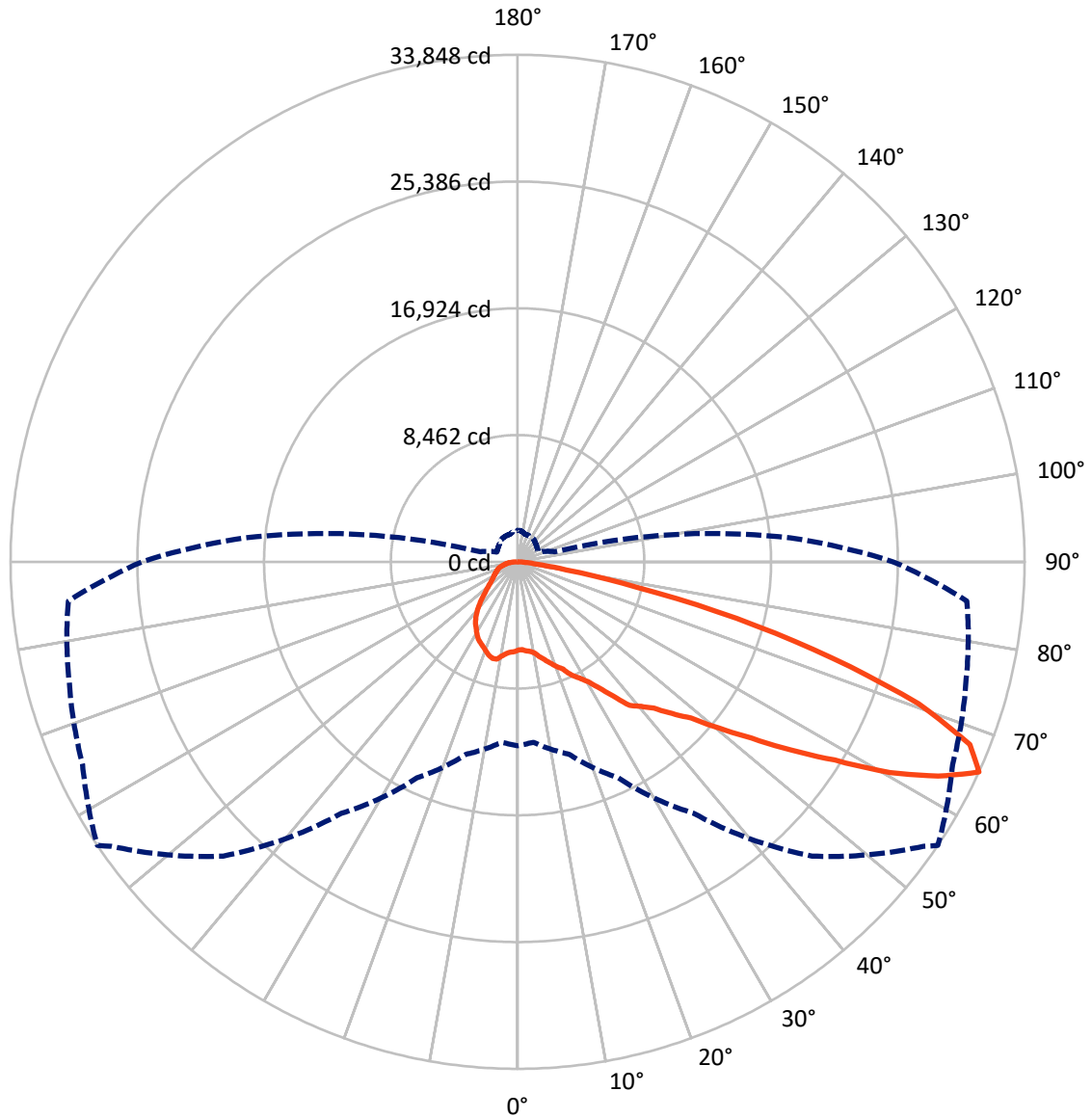
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P574686  
CATALOG NUMBER: EPH-VN-06-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P574686  
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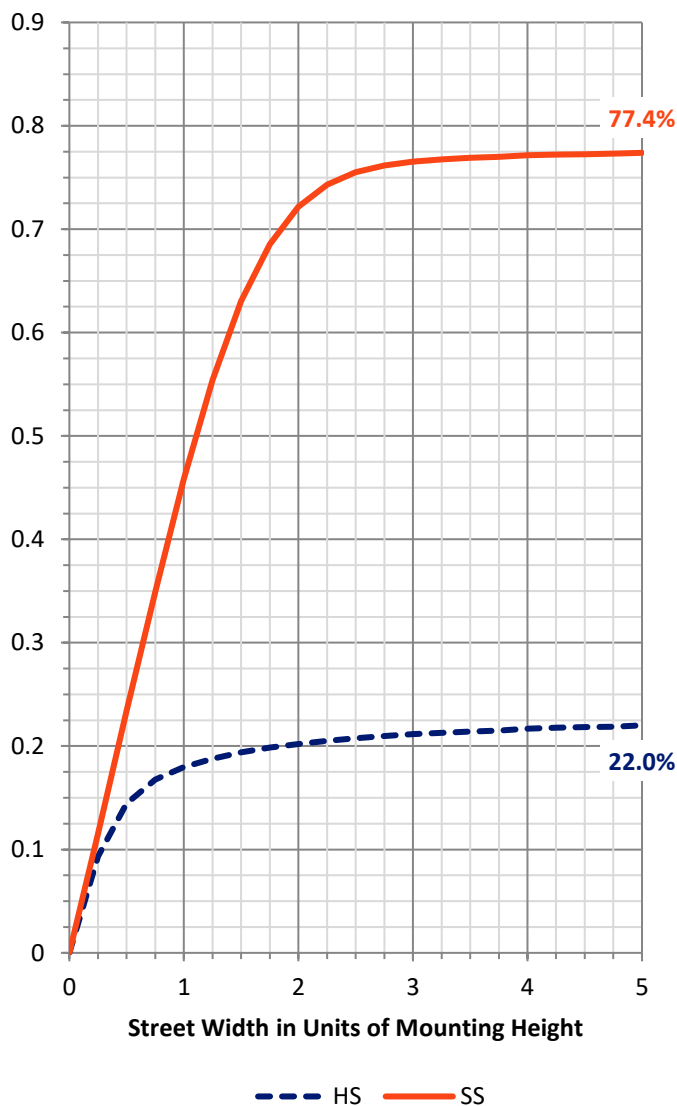
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11005.9	0.0	11005.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	38069.0	0.0	38069.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	49074.9	0.0	49074.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.7	1.2
10°-20°	1895.4	3.9
20°-30°	3374.9	6.9
30°-40°	5053.8	10.3
40°-50°	7487.8	15.3
50°-60°	11537.7	23.5
60°-70°	13062.1	26.6
70°-80°	5420.9	11.0
80°-90°	658.6	1.3
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°	49074.9	100.0
0°-180°	49074.9	100.0

**Coefficient of Utilization**



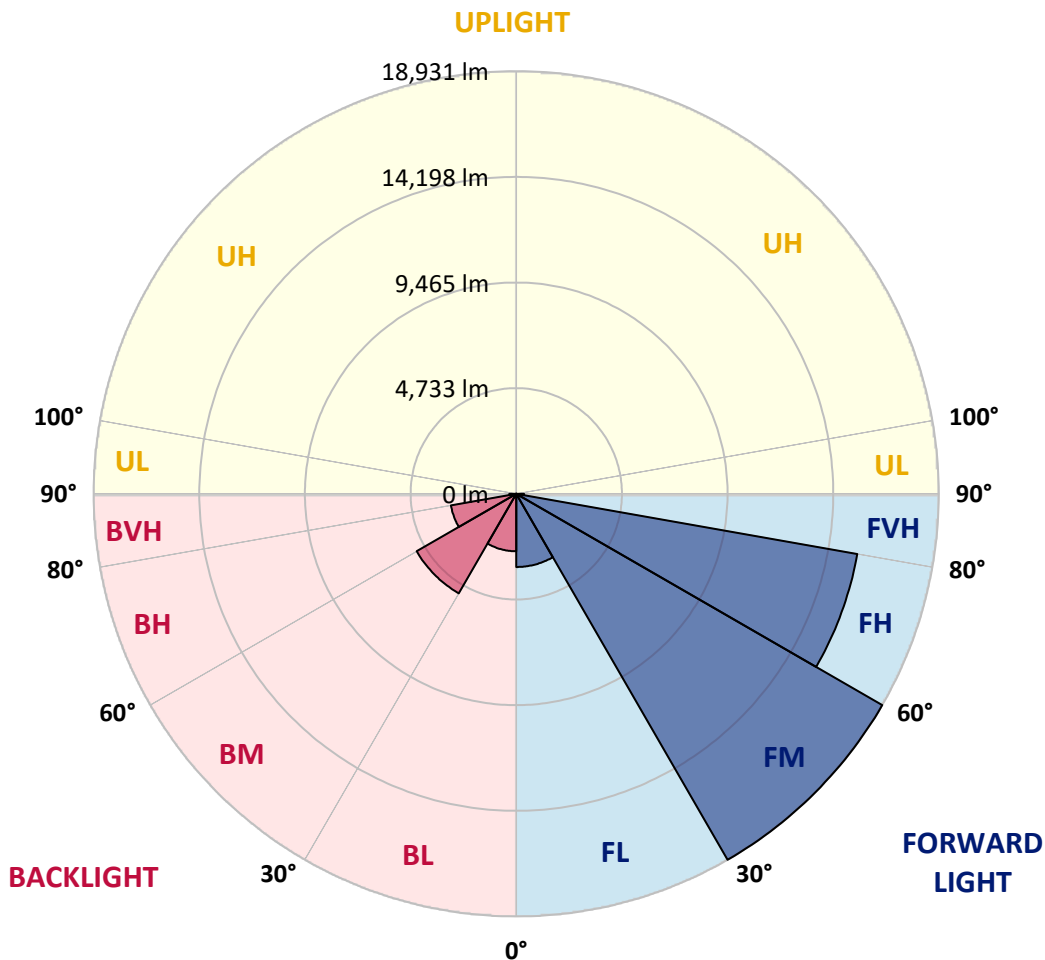
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 CATALOG NUMBER: EPH-VN-06-730-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3279.6	6.7			
FM (30°-60°)	18931.0	38.6			
FH (60°-80°)	15511.0	31.6			G5
FVH (80°-90°)	347.4	0.7			G3/500
BL (0°-30°)	2574.4	5.2	B4/5000		
BM (30°-60°)	5148.4	10.5	B4/8500		
BH (60°-80°)	2972.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	311.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





REPORT NUMBER: P574686  
 CATALOG NUMBER: EPH-VN-06-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4
2.5°	5736.3	5767.1	5746.6	5808.2	5859.6	5859.6	5900.7	5869.8	5910.9	5967.4
5°	5926.3	5803.1	5869.8	5900.7	5885.3	5910.9	5869.8	5972.6	5905.8	6013.6
7.5°	5972.6	6018.8	6075.3	6023.9	6070.1	6044.5	6049.6	6034.2	5998.2	6085.5
10°	6311.5	6244.7	6373.1	6296.1	6285.8	6275.6	6255.0	6178.0	6265.3	6270.4
12.5°	6701.8	6640.2	6635.0	6573.4	6655.6	6506.6	6537.5	6496.4	6511.8	6532.3
15°	6984.2	6958.6	7076.7	7004.8	6896.9	6830.2	6902.1	6789.1	6845.6	6835.3
17.5°	7544.0	7538.9	7451.6	7333.5	7271.8	7174.3	7158.9	7112.6	7153.7	7133.2
20°	7934.3	7990.8	8006.2	7867.5	7631.3	7523.5	7497.8	7461.8	7508.1	7492.7
22.5°	8530.0	8442.7	8509.5	8268.1	8180.8	7924.0	7831.6	7780.2	8001.1	7944.6
25°	8910.0	9002.5	8935.7	8853.6	8658.4	8340.0	8273.3	8386.2	8473.5	8411.9
27.5°	9767.7	9675.2	9613.6	9367.1	9238.7	8904.9	8827.9	8786.8	8807.3	8843.3
30°	10419.9	10471.2	10332.6	10158.0	9834.4	9495.5	9315.8	9279.8	9207.9	9146.3
32.5°	11349.4	11272.4	11190.2	11077.2	10799.9	10353.1	10178.5	10045.0	9829.3	9541.7
35°	11796.2	12017.0	11955.4	11652.4	11441.8	11272.4	11221.0	11015.6	10835.9	10383.9
37.5°	12540.8	12633.3	12546.0	12448.4	12350.8	12171.1	12109.5	12165.9	11811.6	11066.9
40°	13023.6	13218.7	13398.5	13126.3	13105.7	13141.7	12761.7	12694.9	11965.7	11575.4
42.5°	14009.6	14091.7	14127.7	14117.4	14235.5	14235.5	13511.4	13367.6	12849.0	12530.6
45°	15314.0	15380.7	15509.1	15601.6	15468.1	15534.8	14502.6	14446.1	13983.9	13922.3
47.5°	16443.8	16603.0	16890.6	17162.8	17337.4	17111.4	15981.6	15581.0	15462.9	15832.7
50°	17429.8	17239.8	17912.5	18189.9	18955.0	19329.9	17614.7	17455.5	17265.5	17974.2
52.5°	17527.4	17784.2	18734.2	19288.8	20865.4	21558.7	19617.5	19550.8	19319.7	20136.2
55°	18225.8	18195.0	19150.2	20351.9	22226.3	23392.1	22226.3	22185.3	21682.0	22457.4
57.5°	18107.7	18420.9	19175.9	20855.2	23453.7	25359.0	25251.1	24968.7	24265.1	24896.8
60°	17707.1	17789.3	18708.5	20839.8	24167.5	27377.2	28517.3	28573.8	27135.9	27639.1
62.5°	15437.2	15627.3	16793.0	19201.5	23659.1	28768.9	31706.4	31506.1	30355.8	29780.6
65°	12278.9	12088.9	13300.9	15904.6	20495.7	27782.9	33103.3	33847.9	32040.2	30987.5
67.5°	7528.6	7482.4	8648.1	10943.7	15334.5	23643.7	31988.9	32569.2	31572.9	30730.7
70°	3877.3	3759.2	4488.4	6106.1	9639.3	17347.6	27839.4	28409.4	29359.5	27562.1
72.5°	1807.7	1782.0	2172.3	3004.3	4909.5	10199.1	21558.7	21969.6	23972.4	23238.0
75°	1063.0	1078.4	1299.3	1571.5	2393.1	4806.8	14307.4	15103.4	17275.7	16746.8
77.5°	796.0	796.0	924.4	1093.9	1396.8	1859.0	7061.3	8114.1	10101.5	9084.7
80°	585.4	595.7	708.7	821.7	970.6	960.3	2804.0	3286.7	4632.2	3959.5
82.5°	457.1	472.5	549.5	611.1	683.0	580.3	1150.3	1237.6	1905.3	1515.0
85°	318.4	328.7	431.4	416.0	416.0	323.5	477.6	503.3	754.9	719.0
87.5°	77.0	87.3	210.6	231.1	174.6	97.6	148.9	169.5	272.2	313.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574686  
 CATALOG NUMBER: EPH-VN-06-730-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5890.4	0°	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4	5890.4
5993.1	2.5°	5916.1	5936.6	6023.9	5977.7	6003.4	5895.5	5982.8	5910.9	5972.6	5941.7
6039.3	5°	6080.4	6034.2	6085.5	6049.6	6049.6	6090.7	6152.3	6106.1	6198.5	6157.4
6075.3	7.5°	6147.2	6152.3	6183.1	6188.2	6162.6	6291.0	6296.1	6280.7	6368.0	6347.4
6321.8	10°	6311.5	6316.6	6373.1	6403.9	6378.3	6424.5	6373.1	6332.0	6326.9	6306.4
6516.9	12.5°	6573.4	6624.8	6614.5	6640.2	6645.3	6450.2	6332.0	6131.8	6106.1	6131.8
6804.5	15°	6814.8	6794.2	6804.5	6855.9	6640.2	6326.9	6116.4	5946.9	5957.2	5962.3
7179.4	17.5°	7102.4	7117.8	7133.2	6896.9	6501.5	6131.8	5946.9	5946.9	5895.5	5916.1
7441.3	20°	7431.0	7369.4	7235.9	6902.1	6260.1	5905.8	5849.3	5849.3	5787.7	5746.6
7723.8	22.5°	7687.8	7564.6	7364.3	6742.9	6044.5	5818.5	5679.8	5582.3	5510.4	5428.2
8037.0	25°	7852.1	7785.4	7395.1	6578.5	5885.3	5587.4	5382.0	5233.0	5140.6	5032.8
8283.5	27.5°	8103.8	7975.4	7482.4	6388.5	5710.6	5356.3	5037.9	4806.8	4632.2	4519.2
8658.4	30°	8442.7	8257.8	7420.8	6116.4	5443.6	4955.7	4580.8	4283.0	4082.7	3990.3
9012.8	32.5°	8720.0	8478.7	7369.4	5869.8	5145.7	4550.0	4051.9	3748.9	3635.9	3517.8
9608.5	35°	9249.0	8771.4	7333.5	5731.2	4878.7	4144.3	3620.5	3358.6	3214.8	3040.2
9962.8	37.5°	9654.7	9279.8	7246.2	5443.6	4534.6	3748.9	3291.8	3055.6	2839.9	2655.0
10784.5	40°	10291.5	9988.5	7251.3	5037.9	4128.9	3410.0	3035.1	2788.6	2516.4	2357.2
12001.6	42.5°	11488.1	10686.9	7282.1	4714.4	3671.9	3132.6	2804.0	2511.2	2239.1	2105.5
13388.2	45°	12956.8	11647.3	7092.1	4421.6	3204.5	2870.7	2526.7	2233.9	2059.3	1961.8
15272.9	47.5°	14646.4	12587.0	6835.3	3872.1	2814.2	2593.4	2269.9	2100.4	1972.0	1915.5
17702.0	50°	16536.2	13932.5	6763.4	3368.9	2511.2	2357.2	2146.6	2018.2	1930.9	1864.2
20439.2	52.5°	18970.4	15498.9	6619.6	2850.2	2249.3	2167.2	2100.4	2013.1	1936.1	1879.6
22991.5	55°	21296.8	17234.7	6465.6	2423.9	2064.5	2074.7	2110.7	2033.6	1966.9	1879.6
25852.0	57.5°	23915.9	19006.4	5895.5	2110.7	1925.8	2028.5	2100.4	2013.1	1946.3	1879.6
28779.2	60°	25533.6	20002.7	4781.1	1838.5	1802.6	1941.2	2038.8	1946.3	1874.4	1900.1
30124.7	62.5°	26190.9	19478.9	3605.1	1669.0	1715.2	1823.1	1941.2	1905.3	1853.9	1951.5
30109.3	65°	25071.4	18272.0	2578.0	1525.2	1597.1	1705.0	1853.9	1895.0	1910.4	2100.4
27654.5	67.5°	22308.5	15909.7	1895.0	1407.1	1473.9	1633.1	1915.5	1982.3	1972.0	2208.3
23207.2	70°	17850.9	12443.3	1479.0	1309.5	1427.7	1689.6	2002.8	2002.8	1930.9	2208.3
17702.0	72.5°	12987.6	8771.4	1273.6	1196.6	1309.5	1550.9	1992.6	1987.4	1895.0	2018.2
11272.4	75°	7862.4	5104.7	1124.7	1083.6	1124.7	1330.1	1905.3	1874.4	1746.1	1735.8
5423.1	77.5°	3918.4	2567.7	919.3	960.3	980.9	1114.4	1674.2	1720.4	1545.8	1504.7
2141.5	80°	1653.6	1119.5	765.2	826.8	826.8	939.8	1391.7	1422.5	1283.9	1206.8
847.4	82.5°	754.9	641.9	652.2	719.0	672.7	729.2	1104.1	1140.1	1042.5	914.1
359.5	85°	318.4	364.6	498.1	564.9	498.1	472.5	760.1	801.1	677.9	564.9
154.1	87.5°	143.8	200.3	313.3	410.8	251.6	220.8	405.7	421.1	338.9	251.6
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°  
5890.4  
5885.3  
6100.9  
6316.6  
6306.4  
6142.0  
6034.2  
5921.2  
5685.0  
5382.0  
5053.3  
4570.6  
4041.6  
3512.7  
3024.8  
2660.2  
2372.6  
2115.8  
1982.3  
1905.3  
1874.4  
1874.4  
1874.4  
1874.4  
1879.6  
1925.8  
**2100.4**  
2223.7  
2162.0  
1946.3  
1715.2  
1479.0  
1181.2  
893.6  
570.0  
236.2  
0.0

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