

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: P574647

Luminaire Tested: **EPH-VN-07-730-U-T2R**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P574647
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-730-U-T2R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51693.6 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

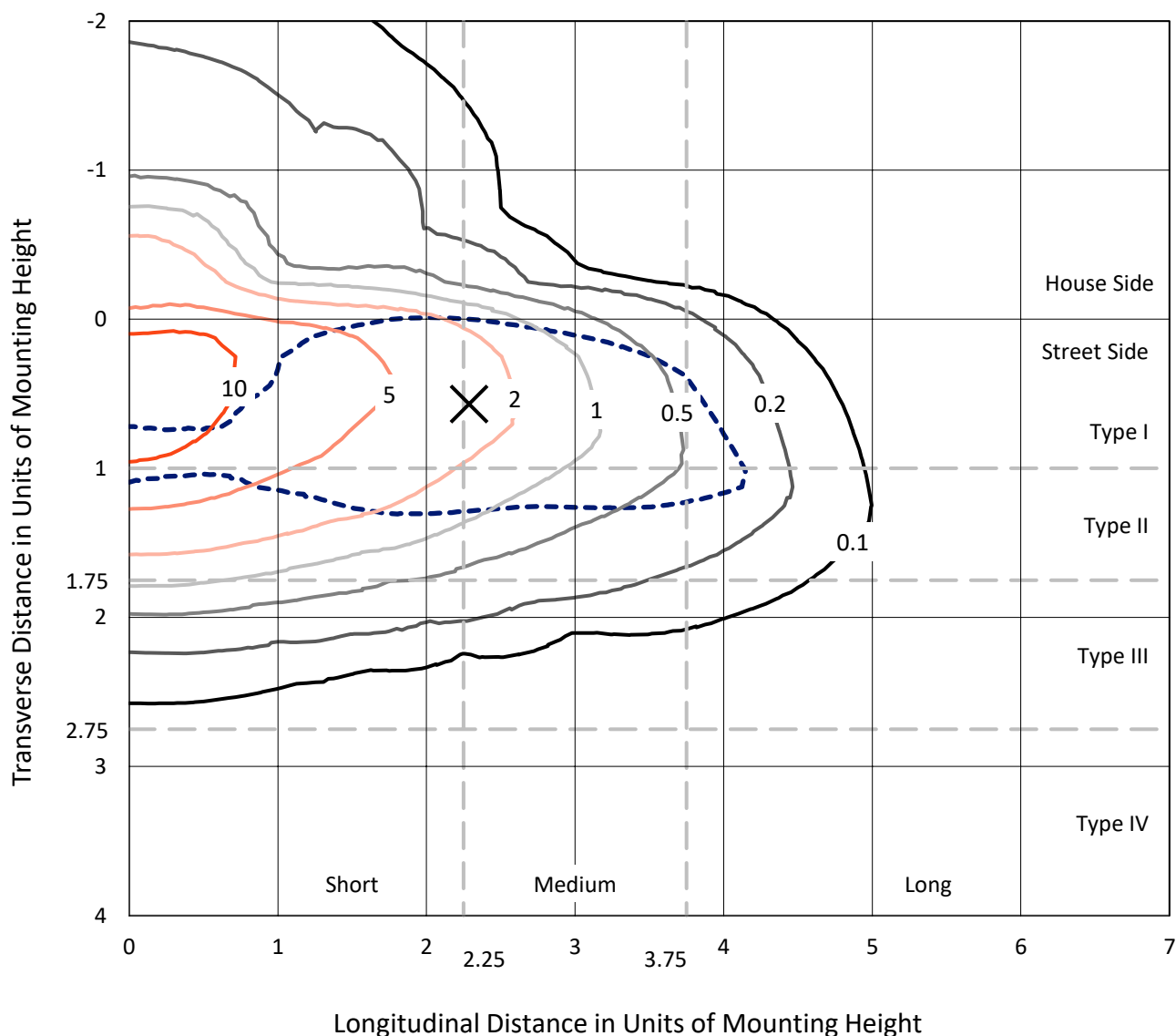
REPORT NUMBER: P574647

CATALOG NUMBER: EPH-VN-07-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

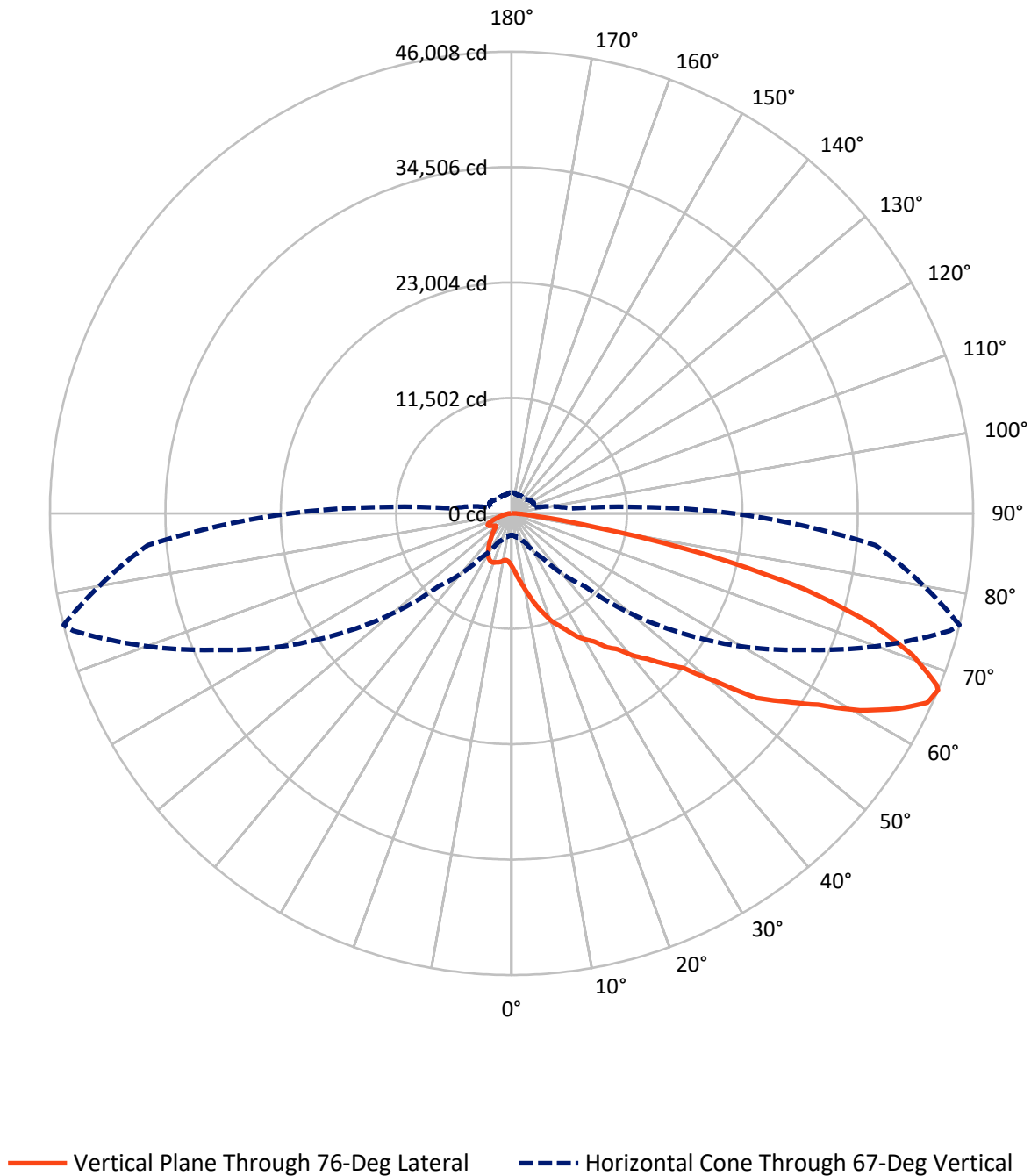
--- 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P574647
CATALOG NUMBER: EPH-VN-07-730-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P574647

CATALOG NUMBER: EPH-VN-07-730-U-T2R

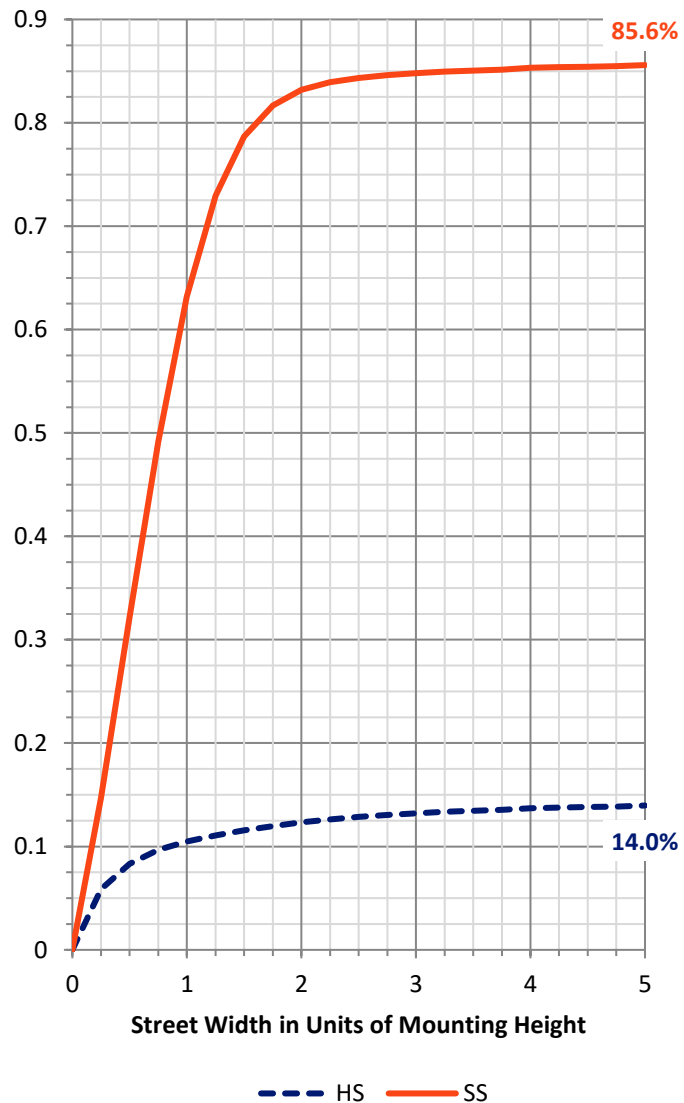
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7354.1	0.0	7354.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	44339.5	0.0	44339.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	51693.6	0.0	51693.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.8	1.2
10°-20°	2298.2	4.4
20°-30°	4272.7	8.3
30°-40°	6773.2	13.1
40°-50°	9368.0	18.1
50°-60°	11523.2	22.3
60°-70°	10722.9	20.7
70°-80°	5380.7	10.4
80°-90°	741.9	1.4
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°	51693.6	100.0
0°-180°	51693.6	100.0

Coefficient of Utilization



REPORT NUMBER: P574647

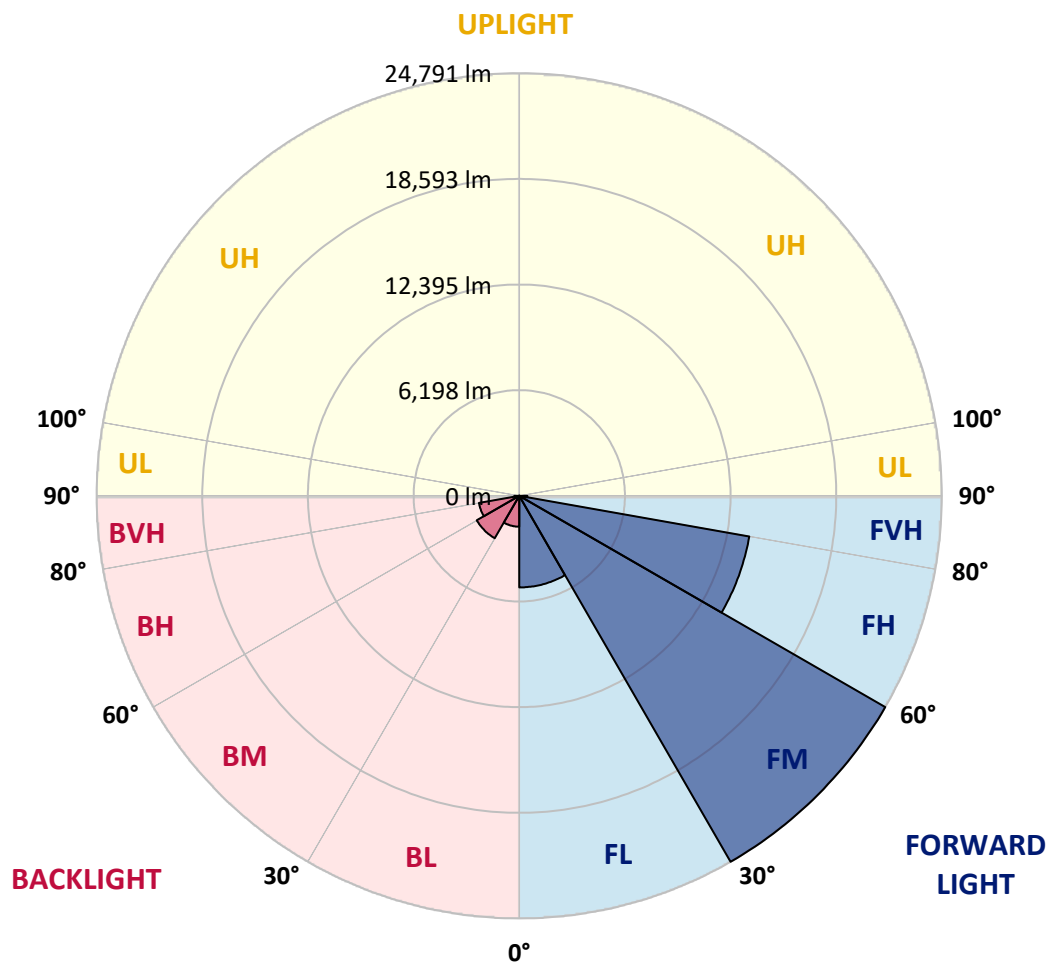
CATALOG NUMBER: EPH-VN-07-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5372.7	10.4			
FM	(30°-60°)	24790.6	48.0			
FH	(60°-80°)	13703.5	26.5			G5
FVH	(80°-90°)	472.7	0.9			G3/500
BL	(0°-30°)	1811.0	3.5	B3/2500		
BM	(30°-60°)	2873.8	5.6	B3/5000		
BH	(60°-80°)	2400.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	269.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



REPORT NUMBER: P574647

CATALOG NUMBER: EPH-VN-07-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0
2.5°	7340.1	7251.7	7163.4	6974.9	6910.1	6733.3	6409.3	6050.0	5755.4	5714.2
5°	9107.4	8977.8	8948.3	8842.3	8506.5	8164.8	7634.6	7057.3	6338.6	6391.7
7.5°	10432.8	10356.2	10197.2	10097.0	9896.7	9443.1	8895.3	8129.5	7216.4	7039.7
10°	11434.3	11328.2	11322.4	11234.0	11128.0	10662.6	10244.3	9213.4	8041.1	7799.6
12.5°	11940.9	11923.2	12235.4	12235.4	12194.2	11999.8	11281.1	10338.6	8824.6	8742.1
15°	12488.8	12341.5	12612.5	12818.6	12924.7	13024.8	12429.8	11434.3	9826.1	9667.0
17.5°	12488.8	12477.0	12748.0	13089.6	13643.4	13773.0	13449.0	12441.6	10656.7	10538.9
20°	12276.7	12447.5	12636.0	13095.5	13696.4	14220.7	14314.9	13472.5	11575.7	11481.4
22.5°	13266.4	13101.4	13295.8	13472.5	13937.9	14733.2	14992.4	14379.7	12541.8	12182.4
25°	14927.6	14815.7	14674.3	14415.1	14609.5	14957.1	15351.7	15051.3	13366.5	12965.9
27.5°	16547.6	16553.5	16247.2	15681.6	15263.4	15334.1	15799.5	15640.4	14061.6	13884.9
30°	18851.0	18709.6	18367.9	17602.1	16783.2	16111.7	16035.1	16188.3	14945.3	14603.6
32.5°	20577.0	20606.4	20123.4	19021.8	17902.5	17354.7	16683.1	16747.9	15504.9	15251.6
35°	21973.1	21937.8	21596.1	20683.0	19357.6	18697.8	17790.6	17419.5	16806.8	16406.2
37.5°	23481.2	23192.6	22638.8	21607.9	20759.6	19846.5	18962.9	18126.4	17672.8	17189.7
40°	24088.0	24088.0	23345.7	22874.5	21867.1	21177.9	20606.4	19057.1	18727.2	18633.0
42.5°	23657.9	23923.0	23616.7	23080.6	22668.3	21796.4	21643.2	20023.2	20029.1	19840.6
45°	23616.7	23251.5	22998.2	23133.7	22939.3	22892.1	23280.9	21360.5	21395.8	21372.3
47.5°	22432.6	22267.7	22644.7	22868.6	23027.6	23758.1	24877.4	22956.9	23210.2	23033.5
50°	21254.4	21225.0	21460.6	22273.6	22962.8	24164.6	26397.2	25419.3	26249.9	26238.2
52.5°	18026.2	18338.4	19263.3	20983.5	22685.9	24718.3	27546.0	28565.1	30149.7	30579.8
55°	14939.4	14774.4	16141.1	18638.9	21478.3	24936.3	28830.2	30456.1	32788.9	33101.1
57.5°	11622.8	11929.1	13007.2	15404.8	18980.6	23858.2	29772.7	32323.5	35769.7	36011.2
60°	8671.4	8712.7	9896.7	11829.0	15658.1	21425.3	30079.0	34238.0	39186.4	39875.7
62.5°	5455.0	5702.4	6603.7	8506.5	11787.7	18020.3	28706.5	35398.6	42768.1	42950.7
65°	2939.6	3098.6	3776.1	4971.9	8235.5	13631.6	25065.9	34703.4	44452.9	45536.8
67°	2173.8	2203.2	2515.4	3175.2	5508.0	10262.0	20901.0	32188.0	45218.7	46008.1
67.5°	2038.3	2079.5	2326.9	2851.2	4883.6	9449.0	19811.2	31292.6	44877.0	45725.3
70°	1743.7	1755.5	1814.4	1961.7	2739.3	5684.7	13490.2	25643.2	41595.8	42408.7
72.5°	1549.3	1561.1	1584.7	1614.1	1855.6	3287.1	8206.1	19734.6	36152.6	37448.6
75°	1360.8	1402.0	1413.8	1390.3	1578.8	2138.4	4365.2	14503.5	29490.0	30120.3
77.5°	1154.6	1172.3	1195.9	1219.4	1407.9	1596.4	2097.2	9790.7	20241.2	19858.3
80°	972.0	977.9	995.6	1013.2	1219.4	1219.4	1190.0	5290.0	8842.3	8453.5
82.5°	695.1	736.4	777.6	824.7	1013.2	818.8	777.6	2356.4	2798.2	2662.7
85°	271.0	329.9	512.5	565.5	642.1	441.8	518.4	1019.1	1166.4	1154.6
87.5°	47.1	53.0	141.4	218.0	235.6	153.2	247.4	365.2	435.9	471.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P574647

CATALOG NUMBER: EPH-VN-07-730-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5290.0	0°	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0
5508.0	2.5°	5337.2	5154.6	4936.6	4718.6	4577.2	4353.4	4335.7	4200.2	4182.6	4135.4
5684.7	5°	5378.4	5160.4	4718.6	4371.1	4212.0	4082.4	4111.9	4053.0	4035.3	4005.8
6079.4	7.5°	5702.4	5272.4	4612.6	4312.2	4194.3	4135.4	4135.4	4064.7	4011.7	4047.1
6562.5	10°	5914.5	5325.4	4695.1	4394.6	4300.4	4170.8	4217.9	4129.5	4159.0	4088.3
7122.1	12.5°	6256.2	5625.8	4865.9	4518.3	4365.2	4247.4	4294.5	4194.3	4170.8	4176.7
7723.0	15°	6715.7	5826.1	4942.5	4589.0	4483.0	4335.7	4300.4	4212.0	4123.6	4094.2
8382.8	17.5°	7145.7	6073.5	4995.5	4630.3	4459.4	4294.5	4253.2	4141.3	4111.9	4023.5
9130.9	20°	7658.2	6368.1	5066.2	4665.6	4371.1	4206.1	4100.1	3988.2	3888.0	3835.0
9808.4	22.5°	7999.9	6521.3	5101.5	4594.9	4241.5	4088.3	3864.4	3787.9	3646.5	3587.6
10462.3	25°	8559.5	6709.8	5013.2	4400.5	4011.7	3764.3	3564.0	3458.0	3357.8	3281.2
10910.0	27.5°	8700.9	6851.1	4807.0	4070.6	3646.5	3387.3	3216.4	3086.8	3022.0	2904.2
11552.1	30°	9113.3	6709.8	4500.7	3670.0	3298.9	3033.8	2863.0	2768.7	2615.6	2586.1
12064.6	32.5°	9378.3	6751.0	4111.9	3281.2	2898.3	2662.7	2550.8	2456.5	2415.3	2273.9
12848.1	35°	9820.2	6609.6	3717.2	2921.9	2568.4	2385.8	2291.6	2262.1	2126.6	2061.8
13519.7	37.5°	10102.9	6527.1	3322.5	2515.4	2209.1	2132.5	2162.0	2038.3	1873.3	1749.6
14379.7	40°	10597.8	6497.7	2874.8	2179.6	1961.7	1944.0	2038.3	1802.6	1502.2	1396.1
15410.7	42.5°	11310.6	6297.4	2527.2	1879.2	1767.3	1843.9	1861.5	1502.2	1331.3	1243.0
16795.0	45°	11993.9	6338.6	2185.5	1555.2	1537.5	1649.5	1608.2	1272.4	1172.3	1107.5
18391.5	47.5°	13307.6	6544.8	1849.7	1296.0	1384.4	1490.4	1248.9	1136.9	1042.7	995.6
21283.9	50°	15340.0	6745.1	1555.2	1184.1	1307.8	1349.0	1072.1	1030.9	1025.0	930.8
23681.5	52.5°	16559.4	6668.5	1502.2	1325.5	1402.0	1349.0	1166.4	1136.9	1089.8	1048.6
26143.9	55°	18497.5	6892.4	1614.1	1549.3	1590.5	1296.0	1307.8	1296.0	1260.7	1154.6
29001.0	57.5°	20040.9	7039.7	1761.4	1731.9	1708.4	1349.0	1366.7	1372.6	1349.0	1301.9
31993.6	60°	22161.6	7334.2	1914.5	1920.4	1926.3	1466.8	1496.3	1531.6	1525.7	1508.1
35009.8	62.5°	23463.5	7198.7	2085.4	2179.6	2150.2	1708.4	1702.5	1726.0	1726.0	1755.5
36352.9	65°	23269.1	6698.0	2173.8	2409.4	2256.2	1885.1	1885.1	1896.9	1902.8	1961.7
36405.9	67°	22102.7	5802.6	2126.6	2444.7	2256.2	1955.8	1955.8	1967.6	1926.3	2079.5
35993.5	67.5°	21560.8	5537.5	2085.4	2415.3	2238.6	1949.9	1949.9	1955.8	1920.4	2067.7
33101.1	70°	18750.8	4111.9	1796.7	2138.4	2073.6	1896.9	1896.9	1861.5	1832.1	2026.5
28559.2	72.5°	16005.6	2986.7	1443.3	1820.3	1873.3	1826.2	1838.0	1749.6	1667.1	1802.6
22208.8	75°	12259.0	2197.3	1125.2	1402.0	1584.7	1708.4	1784.9	1561.1	1455.1	1490.4
12011.6	77.5°	6839.4	1431.5	889.5	1036.8	1207.6	1590.5	1714.3	1407.9	1190.0	1148.7
4058.8	80°	2321.0	836.5	653.9	771.7	830.6	1407.9	1602.3	1142.8	936.7	895.4
1372.6	82.5°	877.7	512.5	447.7	530.2	530.2	1113.4	1307.8	877.7	706.9	913.1
512.5	85°	400.6	306.3	294.5	306.3	306.3	683.3	924.9	571.4	636.2	547.9
188.5	87.5°	159.1	147.3	135.5	129.6	106.0	117.8	318.1	153.2	288.7	76.6
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°
5290.0
4159.0
3958.7
4082.4
4088.3
4159.0
4129.5
3952.8
3858.6
3540.4
3257.7
2880.7
2521.3
2238.6
2002.9
1708.4
1337.2
1201.7
1142.8
1001.5
924.9
1001.5
1184.1
1343.1
1519.9
1773.2
1967.6
2032.4
2020.6
1985.2
1767.3
1425.6
1148.7
866.0
930.8
483.1
70.7
0.0