

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: P574653

Luminaire Tested: **EPH-VN-07-735-U-T2R**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-T2R
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

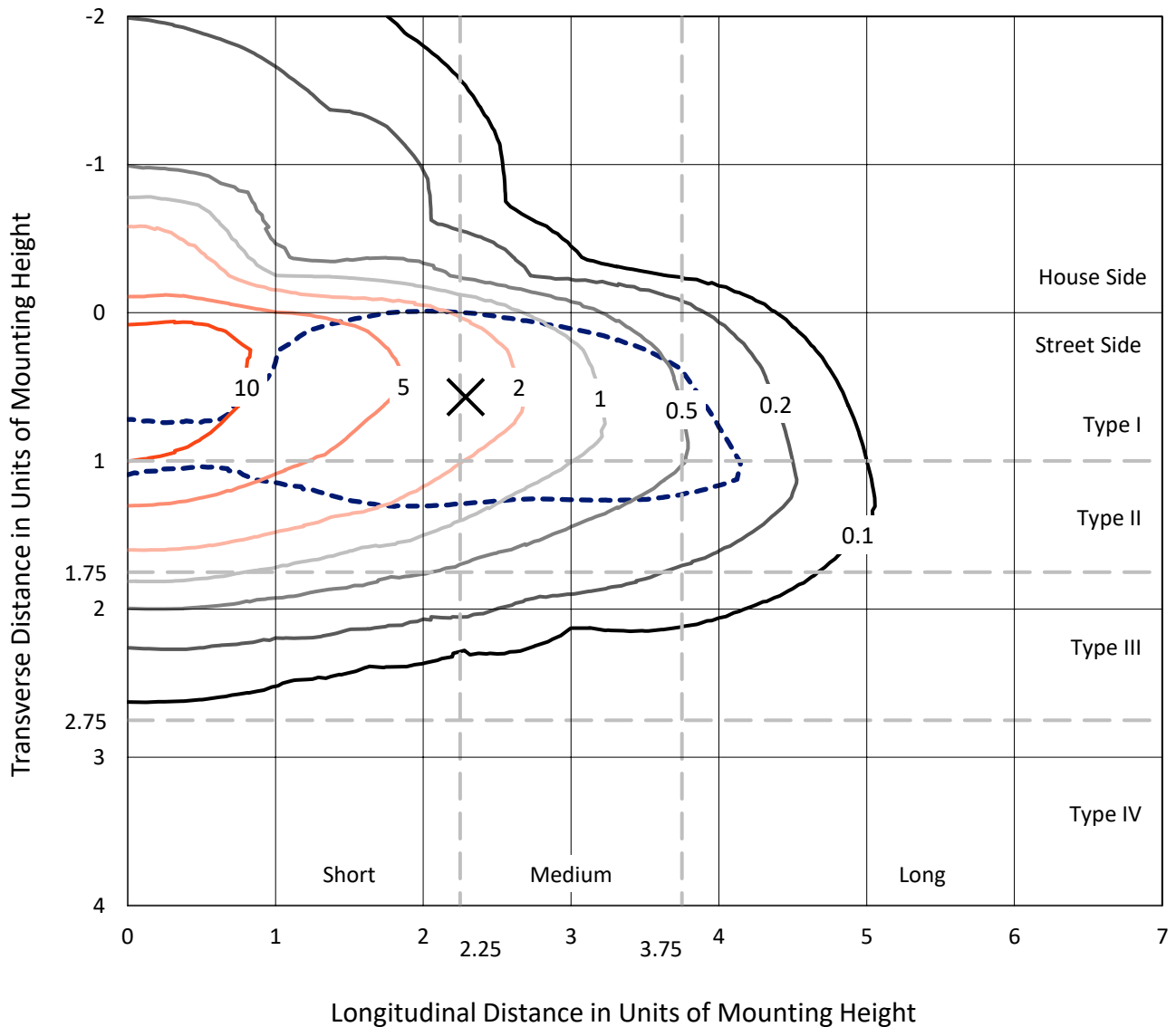
Lumens per Lamp: N/A
Luminaire Lumens: 55991 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

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: P574653
 CATALOG NUMBER: EPH-VN-07-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

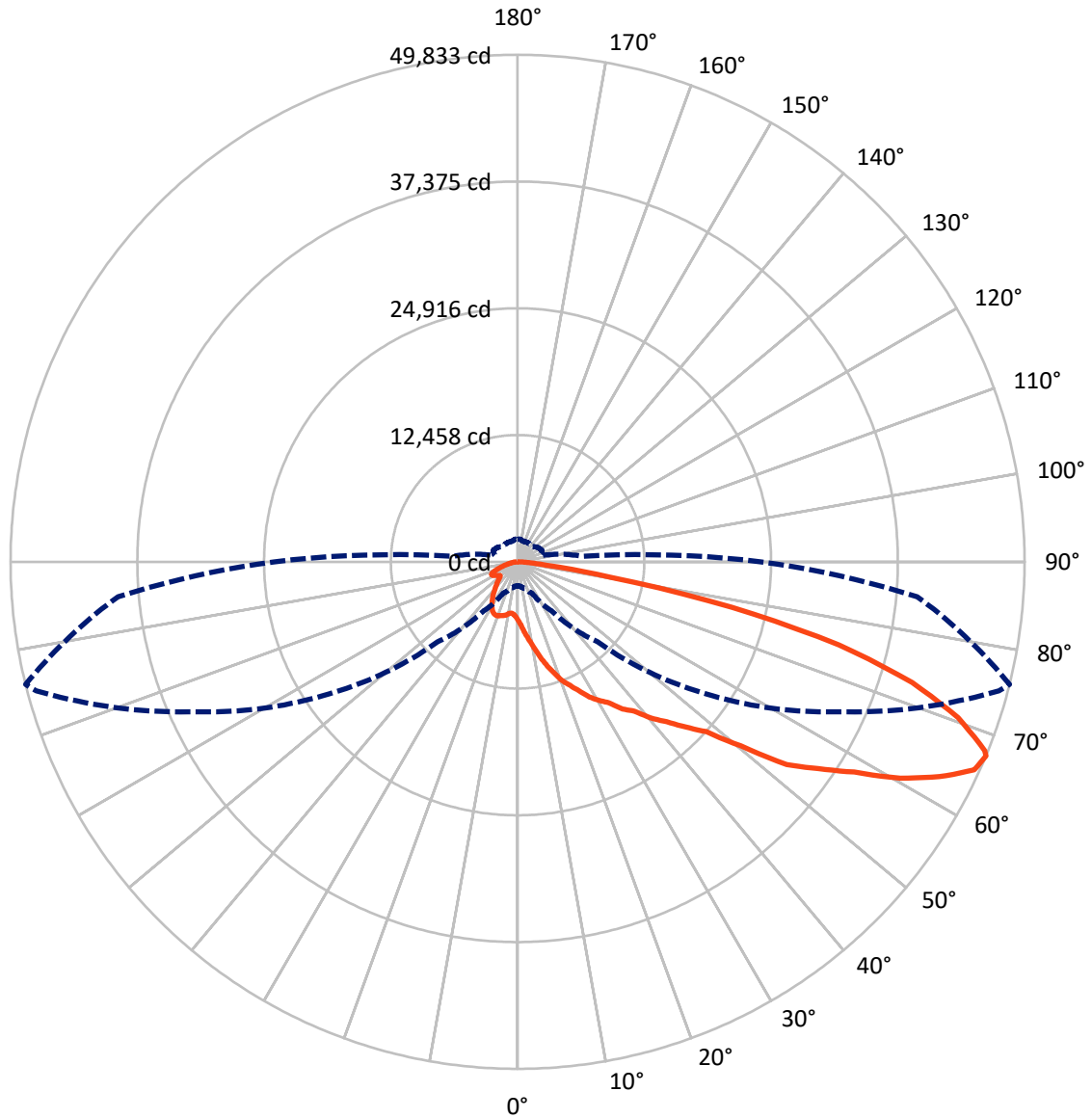
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P574653
CATALOG NUMBER: EPH-VN-07-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P574653
 CATALOG NUMBER: EPH-VN-07-735-U-T2R

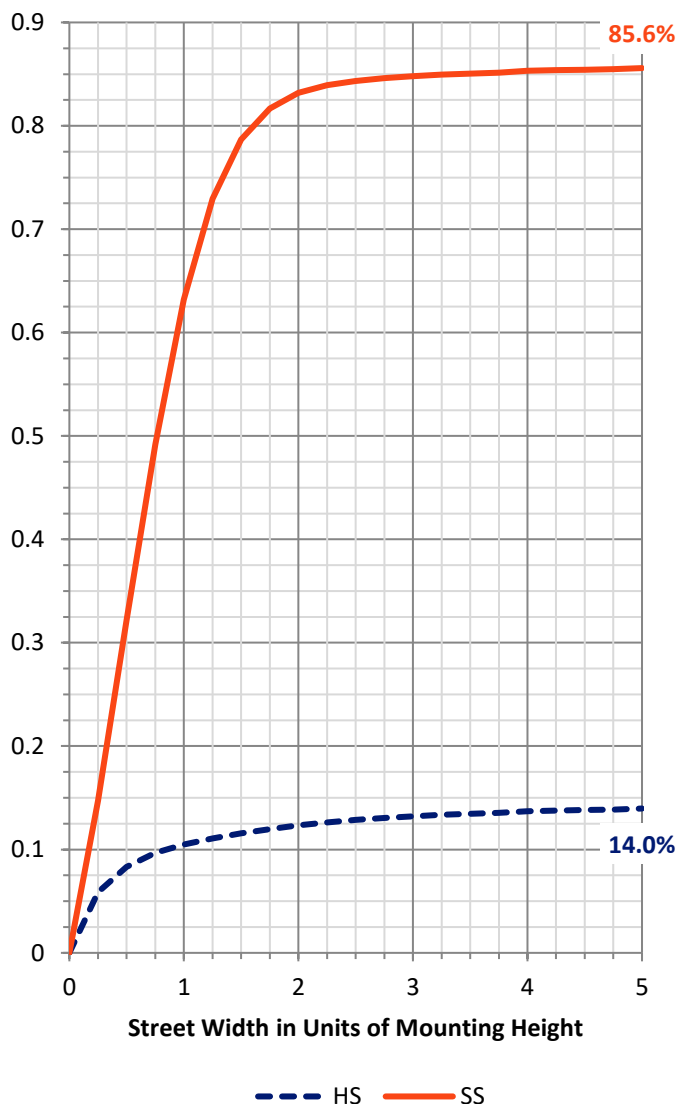
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7965.4	0.0	7965.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	48025.6	0.0	48025.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	55991.0	0.0	55991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.7	1.2
10°-20°	2489.3	4.4
20°-30°	4627.9	8.3
30°-40°	7336.3	13.1
40°-50°	10146.7	18.1
50°-60°	12481.2	22.3
60°-70°	11614.3	20.7
70°-80°	5828.0	10.4
80°-90°	803.6	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°	55991.0	100.0
0°-180°	55991.0	100.0

Coefficient of Utilization



REPORT NUMBER: P574653

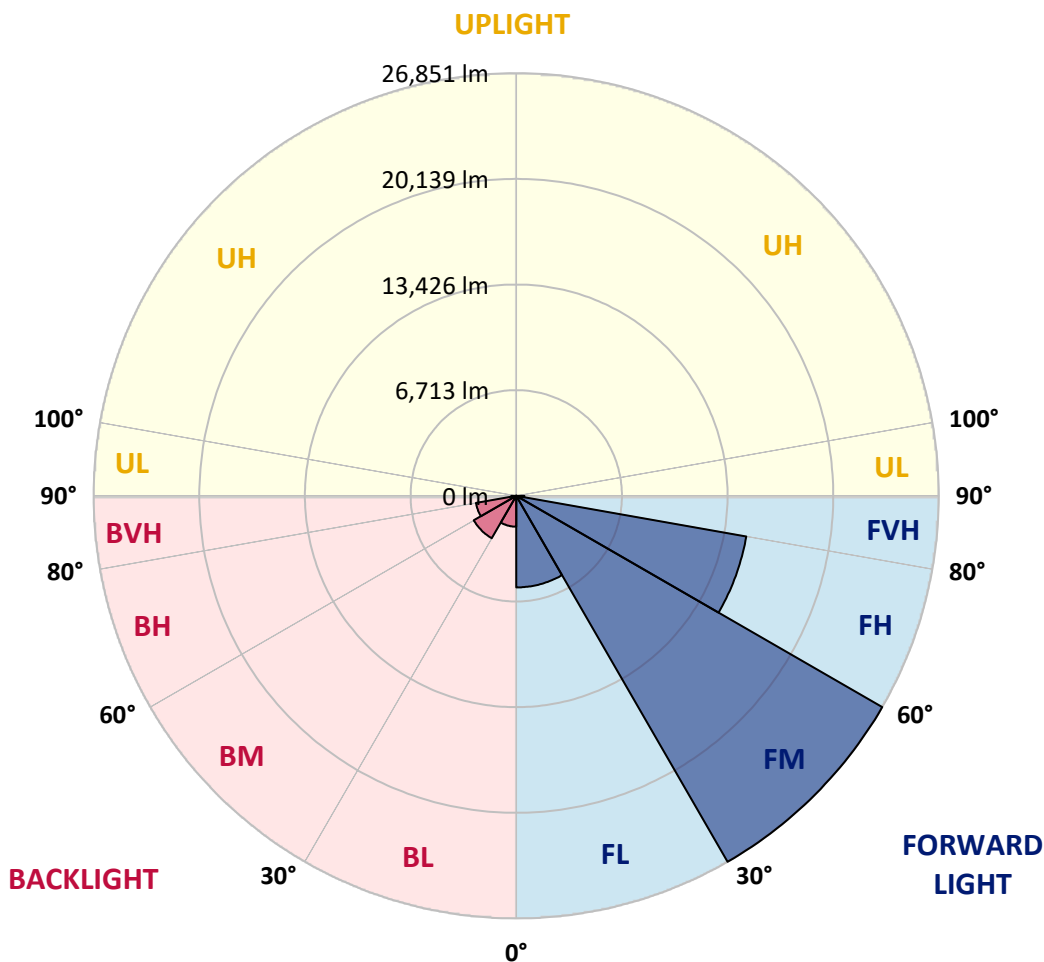
CATALOG NUMBER: EPH-VN-07-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5819.4	10.4			
FM (30°-60°)	26851.5	48.0			
FH (60°-80°)	14842.8	26.5			G5
FVH (80°-90°)	512.0	0.9			G4/750
BL (0°-30°)	1961.6	3.5	B3/2500		
BM (30°-60°)	3112.7	5.6	B3/5000		
BH (60°-80°)	2599.5	4.6	B4/5000		G4/5000
BVH (80°-90°)	291.6	0.5			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 II Medium





REPORT NUMBER: P574653
 CATALOG NUMBER: EPH-VN-07-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8
2.5°	7950.3	7854.6	7758.9	7554.7	7484.5	7293.1	6942.1	6552.9	6233.9	6189.2
5°	9864.5	9724.1	9692.2	9577.4	9213.7	8843.6	8269.3	7644.0	6865.6	6923.0
7.5°	11300.1	11217.2	11044.9	10936.4	10719.5	10228.2	9634.8	8805.3	7816.3	7624.9
10°	12384.8	12270.0	12263.6	12167.9	12053.0	11549.0	11095.9	9979.3	8709.6	8448.0
12.5°	12933.6	12914.4	13252.6	13252.6	13207.9	12997.4	12218.9	11198.0	9558.2	9468.9
15°	13527.0	13367.5	13661.0	13884.3	13999.1	14107.6	13463.2	12384.8	10642.9	10470.6
17.5°	13527.0	13514.2	13807.7	14177.8	14777.6	14918.0	14567.0	13475.9	11542.6	11415.0
20°	13297.3	13482.3	13686.5	14184.2	14835.0	15402.9	15505.0	14592.5	12538.0	12435.9
22.5°	14369.2	14190.6	14401.1	14592.5	15096.6	15958.0	16238.7	15575.2	13584.4	13195.2
25°	16168.6	16047.3	15894.2	15613.4	15824.0	16200.5	16628.0	16302.6	14477.7	14043.8
27.5°	17923.2	17929.6	17597.8	16985.3	16532.3	16608.8	17112.9	16940.6	15230.6	15039.2
30°	20418.1	20264.9	19894.9	19065.4	18178.5	17451.1	17368.1	17534.0	16187.7	15817.6
32.5°	22287.6	22319.5	21796.3	20603.1	19390.8	18797.4	18070.0	18140.2	16793.9	16519.5
35°	23799.8	23761.5	23391.4	22402.4	20966.8	20252.2	19269.6	18867.6	18204.0	17770.1
37.5°	25433.3	25120.6	24520.8	23404.2	22485.4	21496.4	20539.3	19633.2	19141.9	18618.7
40°	26090.5	26090.5	25286.5	24776.0	23685.0	22938.4	22319.5	20641.4	20284.1	20182.0
42.5°	25624.7	25911.8	25580.0	24999.4	24552.7	23608.4	23442.5	21687.8	21694.2	21490.0
45°	25580.0	25184.4	24910.0	25056.8	24846.2	24795.2	25216.3	23136.2	23174.5	23149.0
47.5°	24297.5	24118.8	24527.2	24769.7	24941.9	25733.1	26945.5	24865.4	25139.7	24948.3
50°	23021.4	22989.5	23244.7	24125.2	24871.8	26173.4	28591.7	27532.5	28432.2	28419.4
52.5°	19524.8	19863.0	20864.7	22727.9	24571.9	26773.2	29835.9	30939.8	32656.1	33121.9
55°	16181.3	16002.7	17483.0	20188.4	23263.8	27009.3	31226.9	32987.9	35514.7	35852.9
57.5°	12589.0	12920.8	14088.5	16685.4	20558.4	25841.6	32247.8	35010.6	38743.3	39004.9
60°	9392.3	9437.0	10719.5	12812.3	16959.8	23206.4	32579.6	37084.3	42444.1	43190.6
62.5°	5908.5	6176.5	7152.7	9213.7	12767.7	19518.4	31092.9	38341.3	46323.5	46521.3
65°	3183.9	3356.2	4090.0	5385.3	8920.1	14764.8	27149.6	37588.4	48148.4	49322.4
67°	2354.5	2386.4	2724.5	3439.2	5965.9	11115.1	22638.5	34863.9	48977.8	49832.8
67.5°	2207.7	2252.4	2520.4	3088.2	5289.6	10234.6	21458.1	33894.0	48607.8	49526.6
70°	1888.7	1901.4	1965.2	2124.8	2967.0	6157.3	14611.7	27775.0	45053.7	45934.3
72.5°	1678.1	1690.9	1716.4	1748.3	2009.9	3560.4	8888.2	21375.2	39158.0	40561.8
75°	1473.9	1518.6	1531.4	1505.8	1710.0	2316.2	4728.1	15709.2	31941.5	32624.2
77.5°	1250.6	1269.7	1295.3	1320.8	1525.0	1729.2	2271.5	10604.6	21923.9	21509.2
80°	1052.8	1059.2	1078.3	1097.5	1320.8	1320.8	1288.9	5729.8	9577.4	9156.2
82.5°	752.9	797.6	842.2	893.3	1097.5	886.9	842.2	2552.3	3030.8	2884.1
85°	293.5	357.3	555.1	612.5	695.5	478.5	561.5	1103.9	1263.4	1250.6
87.5°	51.0	57.4	153.1	236.1	255.2	165.9	268.0	395.6	472.2	510.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P574653

CATALOG NUMBER: EPH-VN-07-735-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5729.8	0°	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8	5729.8
5965.9	2.5°	5780.9	5583.1	5347.0	5110.9	4957.8	4715.3	4696.2	4549.4	4530.3	4479.2
6157.3	5°	5825.5	5589.4	5110.9	4734.4	4562.2	4421.8	4453.7	4389.9	4370.7	4338.8
6584.8	7.5°	6176.5	5710.7	4996.0	4670.6	4543.0	4479.2	4479.2	4402.6	4345.2	4383.5
7108.0	10°	6406.2	5768.1	5085.4	4760.0	4657.9	4517.5	4568.5	4472.8	4504.7	4428.2
7714.2	12.5°	6776.2	6093.5	5270.4	4894.0	4728.1	4600.4	4651.5	4543.0	4517.5	4523.9
8365.0	15°	7273.9	6310.5	5353.4	4970.5	4855.7	4696.2	4657.9	4562.2	4466.5	4434.5
9079.7	17.5°	7739.7	6578.4	5410.8	5015.2	4830.1	4651.5	4606.8	4485.6	4453.7	4358.0
9890.0	20°	8294.8	6897.5	5487.4	5053.5	4734.4	4555.8	4440.9	4319.7	4211.2	4153.8
10623.8	22.5°	8664.9	7063.4	5525.6	4976.9	4594.1	4428.2	4185.7	4102.8	3949.6	3885.8
11332.0	25°	9271.1	7267.6	5429.9	4766.3	4345.2	4077.2	3860.3	3745.4	3637.0	3554.0
11817.0	27.5°	9424.2	7420.7	5206.6	4409.0	3949.6	3668.9	3483.8	3343.5	3273.3	3145.7
12512.4	30°	9870.9	7267.6	4874.8	3975.1	3573.2	3286.0	3101.0	2998.9	2833.0	2801.1
13067.6	32.5°	10158.0	7312.2	4453.7	3554.0	3139.3	2884.1	2762.8	2660.7	2616.1	2462.9
13916.2	35°	10636.5	7159.1	4026.2	3164.8	2782.0	2584.2	2482.1	2450.2	2303.4	2233.2
14643.6	37.5°	10942.8	7069.8	3598.7	2724.5	2392.7	2309.8	2341.7	2207.7	2029.0	1895.1
15575.2	40°	11478.8	7037.9	3113.8	2360.8	2124.8	2105.6	2207.7	1952.5	1627.1	1512.2
16691.8	42.5°	12250.8	6820.9	2737.3	2035.4	1914.2	1997.1	2016.3	1627.1	1442.0	1346.3
18191.2	45°	12991.0	6865.6	2367.2	1684.5	1665.3	1786.6	1741.9	1378.2	1269.7	1199.6
19920.4	47.5°	14413.9	7088.9	2003.5	1403.7	1499.5	1614.3	1352.7	1231.5	1129.4	1078.3
23053.3	50°	16615.2	7305.8	1684.5	1282.5	1416.5	1461.2	1161.3	1116.6	1110.2	1008.1
25650.2	52.5°	17936.0	7222.9	1627.1	1435.6	1518.6	1461.2	1263.4	1231.5	1180.4	1135.8
28317.3	55°	20035.2	7465.4	1748.3	1678.1	1722.8	1403.7	1416.5	1403.7	1365.5	1250.6
31411.9	57.5°	21707.0	7624.9	1907.8	1875.9	1850.4	1461.2	1480.3	1486.7	1461.2	1410.1
34653.3	60°	24004.0	7943.9	2073.7	2080.1	2086.5	1588.8	1620.7	1659.0	1652.6	1633.4
37920.2	62.5°	25414.1	7797.1	2258.7	2360.8	2328.9	1850.4	1844.0	1869.5	1869.5	1901.4
39375.0	65°	25203.6	7254.8	2354.5	2609.7	2443.8	2041.8	2041.8	2054.6	2060.9	2124.8
39432.4	67°	23940.2	6284.9	2303.4	2648.0	2443.8	2118.4	2118.4	2131.1	2086.5	2252.4
38985.7	67.5°	23353.2	5997.8	2258.7	2616.1	2424.6	2112.0	2112.0	2118.4	2080.1	2239.6
35852.9	70°	20309.6	4453.7	1946.1	2316.2	2246.0	2054.6	2054.6	2016.3	1984.4	2194.9
30933.4	72.5°	17336.2	3235.0	1563.3	1971.6	2029.0	1978.0	1990.8	1895.1	1805.7	1952.5
24055.0	75°	13278.1	2380.0	1218.7	1518.6	1716.4	1850.4	1933.3	1690.9	1576.0	1614.3
13010.1	77.5°	7407.9	1550.5	963.5	1123.0	1308.0	1722.8	1856.8	1525.0	1288.9	1244.2
4396.3	80°	2514.0	906.1	708.3	835.9	899.7	1525.0	1735.5	1237.8	1014.5	969.9
1486.7	82.5°	950.7	555.1	484.9	574.3	574.3	1205.9	1416.5	950.7	765.7	989.0
555.1	85°	433.9	331.8	319.0	331.8	331.8	740.2	1001.8	618.9	689.1	593.4
204.2	87.5°	172.3	159.5	146.8	140.4	114.9	127.6	344.6	165.9	312.7	82.9
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°
5729.8
4504.7
4287.8
4421.8
4428.2
4504.7
4472.8
4281.4
4179.3
3834.8
3528.5
3120.1
2730.9
2424.6
2169.4
1850.4
1448.4
1301.7
1237.8
1084.7
1001.8
1084.7
1282.5
1454.8
1646.2
1920.6
2131.1
2201.3
2188.6
2150.3
1914.2
1544.1
1244.2
938.0
1008.1
523.2
76.6
0.0

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