

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: P574688

Luminaire Tested: **EPH-VN-08-730-U-T3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574688
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-T3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

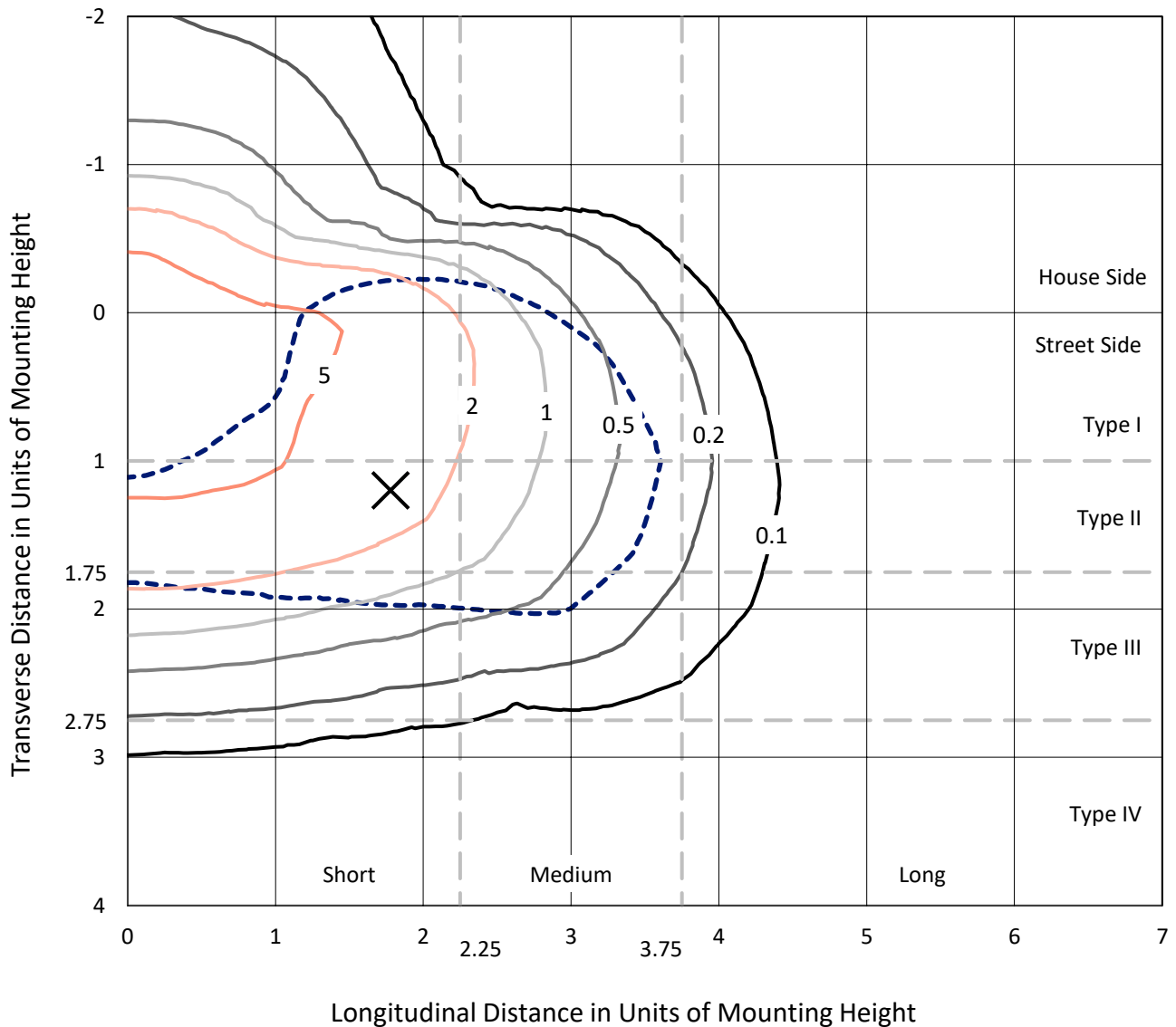
Lumens per Lamp: N/A
Luminaire Lumens: 51704 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

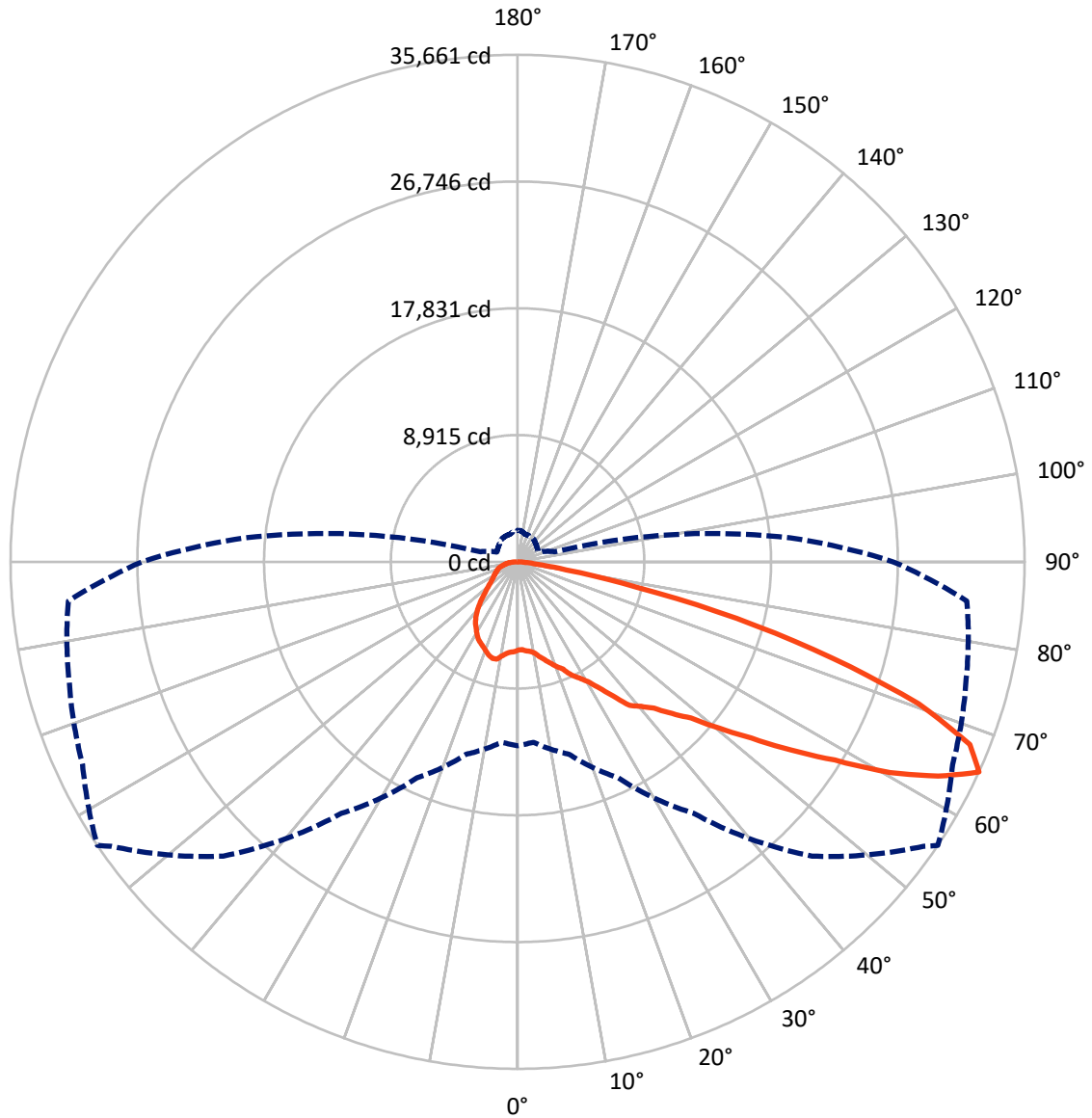
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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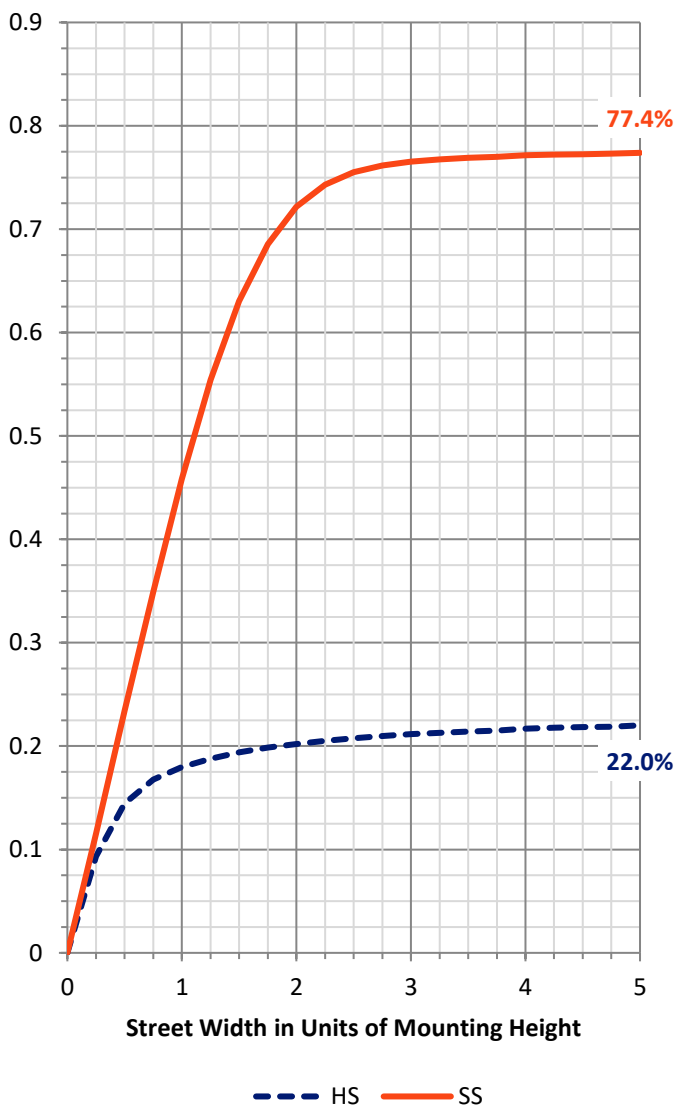
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11595.5	0.0	11595.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	40108.4	0.0	40108.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	51704.0	0.0	51704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.0	1.2
10°-20°	1997.0	3.9
20°-30°	3555.7	6.9
30°-40°	5324.5	10.3
40°-50°	7889.0	15.3
50°-60°	12155.8	23.5
60°-70°	13761.9	26.6
70°-80°	5711.3	11.0
80°-90°	693.9	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°	51704.0	100.0
0°-180°	51704.0	100.0

Coefficient of Utilization

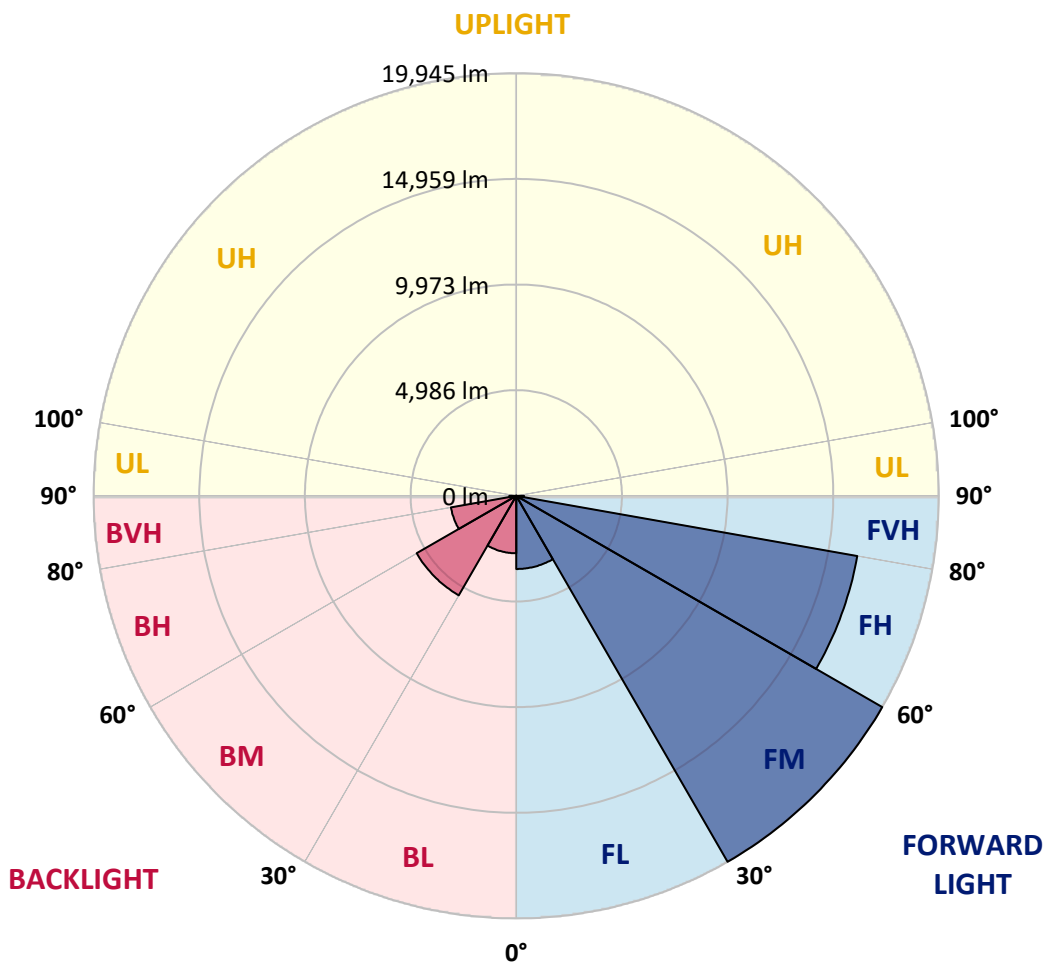


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3455.3	6.7			
FM (30°-60°)	19945.1	38.6			
FH (60°-80°)	16342.0	31.6			G5
FVH (80°-90°)	366.0	0.7			G3/500
BL (0°-30°)	2712.3	5.2	B4/5000		
BM (30°-60°)	5424.2	10.5	B4/8500		
BH (60°-80°)	3131.2	6.1	B4/5000		G4/5000
BVH (80°-90°)	327.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0
2.5°	6043.6	6076.1	6054.5	6119.4	6173.5	6173.5	6216.8	6184.3	6227.6	6287.1
5°	6243.8	6114.0	6184.3	6216.8	6200.5	6227.6	6184.3	6292.5	6222.2	6335.8
7.5°	6292.5	6341.2	6400.7	6346.6	6395.3	6368.3	6373.7	6357.4	6319.6	6411.6
10°	6649.6	6579.3	6714.5	6633.4	6622.6	6611.7	6590.1	6508.9	6600.9	6606.3
12.5°	7060.8	6995.9	6990.5	6925.6	7012.1	6855.2	6887.7	6844.4	6860.6	6882.3
15°	7358.4	7331.4	7455.8	7380.1	7266.4	7196.1	7271.8	7152.8	7212.3	7201.5
17.5°	7948.2	7942.8	7850.8	7726.3	7661.4	7558.6	7542.4	7493.7	7537.0	7515.3
20°	8359.4	8418.9	8435.1	8289.0	8040.1	7926.5	7899.5	7861.6	7910.3	7894.1
22.5°	8987.0	8895.0	8965.4	8711.1	8619.1	8348.5	8251.2	8197.1	8429.7	8370.2
25°	9387.4	9484.8	9414.4	9327.9	9122.3	8786.8	8716.5	8835.5	8927.5	8862.6
27.5°	10291.0	10193.6	10128.6	9868.9	9733.7	9382.0	9300.8	9257.5	9279.2	9317.0
30°	10978.1	11032.2	10886.1	10702.2	10361.3	10004.2	9814.8	9776.9	9701.2	9636.3
32.5°	11957.4	11876.3	11789.7	11670.7	11378.5	10907.8	10723.8	10583.1	10355.9	10052.9
35°	12428.1	12660.8	12595.9	12276.6	12054.8	11876.3	11822.2	11605.7	11416.4	10940.2
37.5°	13212.7	13310.1	13218.1	13115.3	13012.5	12823.1	12758.2	12817.7	12444.4	11659.8
40°	13721.3	13926.9	14116.2	13829.5	13807.8	13845.7	13445.3	13375.0	12606.7	12195.5
42.5°	14760.1	14846.7	14884.5	14873.7	14998.2	14998.2	14235.3	14083.8	13537.3	13201.9
45°	16134.4	16204.7	16340.0	16437.4	16296.7	16367.0	15279.5	15220.0	14733.1	14668.1
47.5°	17324.7	17492.5	17795.4	18082.2	18266.2	18028.1	16837.8	16415.7	16291.3	16680.9
50°	18363.6	18163.4	18872.2	19164.3	19970.5	20365.5	18558.3	18390.6	18190.4	18937.1
52.5°	18466.4	18736.9	19737.9	20322.2	21983.2	22713.7	20668.5	20598.1	20354.7	21214.9
55°	19202.2	19169.7	20176.1	21442.2	23417.1	24645.3	23417.1	23373.8	22843.5	23660.5
57.5°	19077.8	19407.8	20203.2	21972.4	24710.2	26717.5	26603.9	26306.3	25565.1	26230.6
60°	18655.7	18742.3	19710.8	21956.2	25462.3	28843.9	30045.0	30104.6	28589.6	29119.8
62.5°	16264.2	16464.4	17692.6	20230.2	24926.6	30310.2	33405.0	33194.0	31982.0	31376.0
65°	12936.7	12736.5	14013.4	16756.6	21593.7	29271.3	34876.7	35661.2	33756.7	32647.5
67.5°	7931.9	7883.2	9111.4	11530.0	16156.0	24910.4	33702.6	34314.0	33264.3	32377.0
70°	4085.0	3960.6	4728.9	6433.2	10155.7	18277.0	29330.8	29931.4	30932.4	29038.7
72.5°	1904.5	1877.5	2288.7	3165.2	5172.5	10745.4	22713.7	23146.5	25256.7	24482.9
75°	1120.0	1136.2	1368.9	1655.6	2521.3	5064.3	15073.9	15912.6	18201.2	17644.0
77.5°	838.6	838.6	973.9	1152.5	1471.7	1958.6	7439.6	8548.7	10642.6	9571.3
80°	616.8	627.6	746.7	865.7	1022.6	1011.8	2954.2	3462.8	4880.4	4171.6
82.5°	481.5	497.8	578.9	643.9	719.6	611.4	1212.0	1304.0	2007.3	1596.1
85°	335.5	346.3	454.5	438.3	438.3	340.9	503.2	530.2	795.4	757.5
87.5°	81.2	92.0	221.8	243.5	184.0	102.8	156.9	178.5	286.8	330.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6206.0	0°	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0	6206.0
6314.2	2.5°	6233.0	6254.6	6346.6	6297.9	6325.0	6211.4	6303.3	6227.6	6292.5	6260.1
6362.9	5°	6406.1	6357.4	6411.6	6373.7	6373.7	6417.0	6481.9	6433.2	6530.6	6487.3
6400.7	7.5°	6476.5	6481.9	6514.4	6519.8	6492.7	6628.0	6633.4	6617.2	6709.1	6687.5
6660.4	10°	6649.6	6655.0	6714.5	6747.0	6720.0	6768.7	6714.5	6671.3	6665.9	6644.2
6866.0	12.5°	6925.6	6979.7	6968.8	6995.9	7001.3	6795.7	6671.3	6460.3	6433.2	6460.3
7169.0	15°	7179.9	7158.2	7169.0	7223.1	6995.9	6665.9	6444.0	6265.5	6276.3	6281.7
7564.0	17.5°	7482.9	7499.1	7515.3	7266.4	6849.8	6460.3	6265.5	6265.5	6211.4	6233.0
7840.0	20°	7829.1	7764.2	7623.5	7271.8	6595.5	6222.2	6162.7	6162.7	6097.7	6054.5
8137.5	22.5°	8099.7	7969.8	7758.8	7104.1	6368.3	6130.2	5984.1	5881.3	5805.6	5719.0
8467.6	25°	8272.8	8202.5	7791.3	6931.0	6200.5	5886.7	5670.3	5513.4	5416.0	5302.4
8727.3	27.5°	8537.9	8402.7	7883.2	6730.8	6016.6	5643.3	5307.8	5064.3	4880.4	4761.3
9122.3	30°	8895.0	8700.2	7818.3	6444.0	5735.2	5221.2	4826.3	4512.4	4301.4	4204.0
9495.6	32.5°	9187.2	8932.9	7764.2	6184.3	5421.4	4793.8	4269.0	3949.7	3830.7	3706.3
10123.2	35°	9744.5	9241.3	7726.3	6038.2	5140.1	4366.4	3814.5	3538.5	3387.0	3203.1
10496.6	37.5°	10171.9	9776.9	7634.3	5735.2	4777.6	3949.7	3468.2	3219.3	2992.1	2797.3
11362.2	40°	10842.8	10523.6	7639.8	5307.8	4350.1	3592.6	3197.7	2938.0	2651.2	2483.5
12644.6	42.5°	12103.5	11259.4	7672.2	4966.9	3868.6	3300.5	2954.2	2645.8	2359.0	2218.3
14105.4	45°	13650.9	12271.2	7472.0	4658.5	3376.2	3024.5	2662.0	2353.6	2169.6	2066.8
16091.1	47.5°	15431.0	13261.4	7201.5	4079.6	2965.0	2732.4	2391.5	2212.9	2077.7	2018.2
18650.3	50°	17422.1	14678.9	7125.8	3549.4	2645.8	2483.5	2261.6	2126.4	2034.4	1964.0
21534.2	52.5°	19986.7	16329.2	6974.3	3002.9	2369.8	2283.3	2212.9	2121.0	2039.8	1980.3
24223.2	55°	22437.7	18158.0	6811.9	2553.8	2175.1	2185.9	2223.8	2142.6	2072.3	1980.3
27236.9	57.5°	25197.1	20024.6	6211.4	2223.8	2029.0	2137.2	2212.9	2121.0	2050.6	1980.3
30321.0	60°	26901.5	21074.3	5037.3	1937.0	1899.1	2045.2	2148.0	2050.6	1974.9	2001.9
31738.6	62.5°	27594.0	20522.4	3798.2	1758.4	1807.1	1920.8	2045.2	2007.3	1953.2	2056.0
31722.3	65°	26414.5	19250.9	2716.1	1606.9	1682.7	1796.3	1953.2	1996.5	2012.7	2212.9
29136.1	67.5°	23503.6	16762.0	1996.5	1482.5	1552.8	1720.6	2018.2	2088.5	2077.7	2326.6
24450.5	70°	18807.2	13109.9	1558.3	1379.7	1504.1	1780.1	2110.1	2110.1	2034.4	2326.6
18650.3	72.5°	13683.4	9241.3	1341.8	1260.7	1379.7	1634.0	2099.3	2093.9	1996.5	2126.4
11876.3	75°	8283.6	5378.1	1184.9	1141.6	1184.9	1401.3	2007.3	1974.9	1839.6	1828.8
5713.6	77.5°	4128.3	2705.3	968.5	1011.8	1033.4	1174.1	1763.9	1812.5	1628.6	1585.3
2256.2	80°	1742.2	1179.5	806.2	871.1	871.1	990.1	1466.3	1498.7	1352.6	1271.5
892.7	82.5°	795.4	676.3	687.1	757.5	708.8	768.3	1163.3	1201.2	1098.4	963.1
378.7	85°	335.5	384.2	524.8	595.2	524.8	497.8	800.8	844.1	714.2	595.2
162.3	87.5°	151.5	211.0	330.0	432.8	265.1	232.7	427.4	443.7	357.1	265.1
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°
6206.0
6200.5
6427.8
6655.0
6644.2
6471.1
6357.4
6238.4
5989.5
5670.3
5324.0
4815.4
4258.1
3700.8
3186.8
2802.7
2499.7
2229.2
2088.5
2007.3
1974.9
1974.9
1974.9
1974.9
1980.3
2029.0
2212.9
2342.8
2277.9
2050.6
1807.1
1558.3
1244.4
941.4
600.6
248.9
0.0

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