

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: P638822

Luminaire Tested: **EPH-VN-03-E-940-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638822  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-940-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (48) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14992.1 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

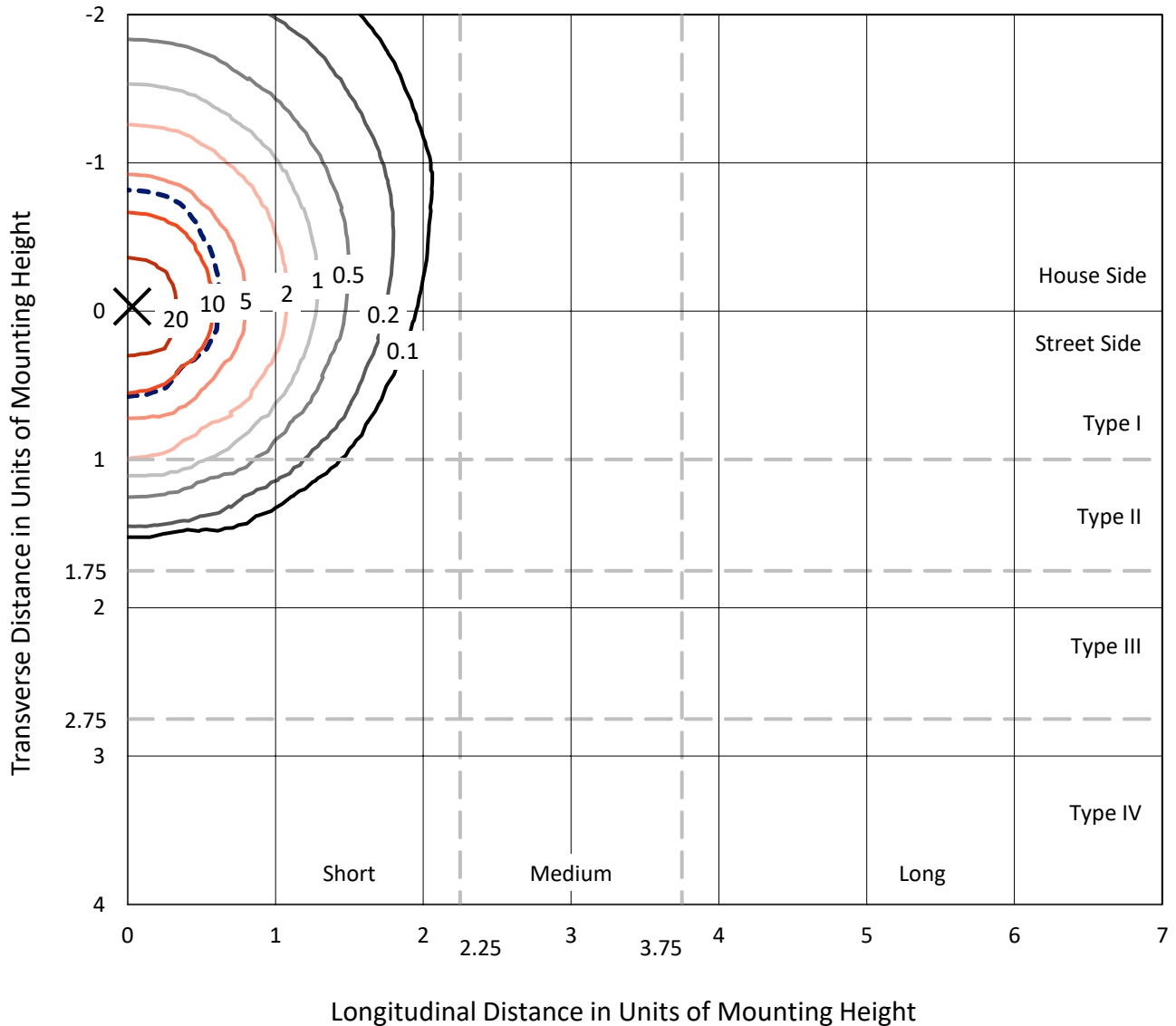
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

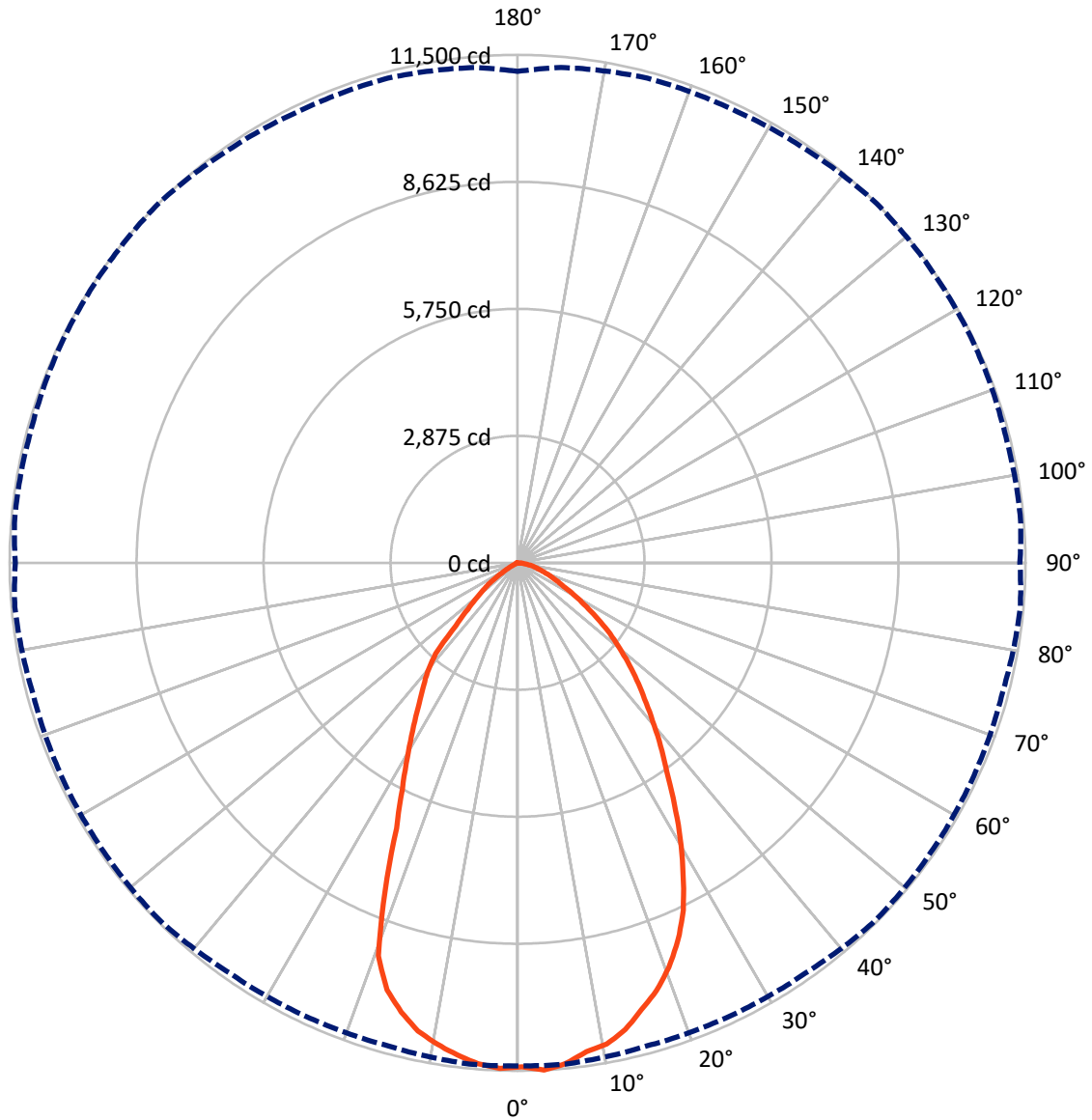
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8879.1	0.0	8879.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	6113.0	0.0	6113.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	14992.1	0.0	14992.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1070.0	7.1
10°-20°	2869.2	19.1
20°-30°	3499.2	23.3
30°-40°	3194.7	21.3
40°-50°	2308.7	15.4
50°-60°	1260.6	8.4
60°-70°	521.2	3.5
70°-80°	211.1	1.4
80°-90°	57.4	0.4
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°	14992.1	100.0
0°-180°	14992.1	100.0



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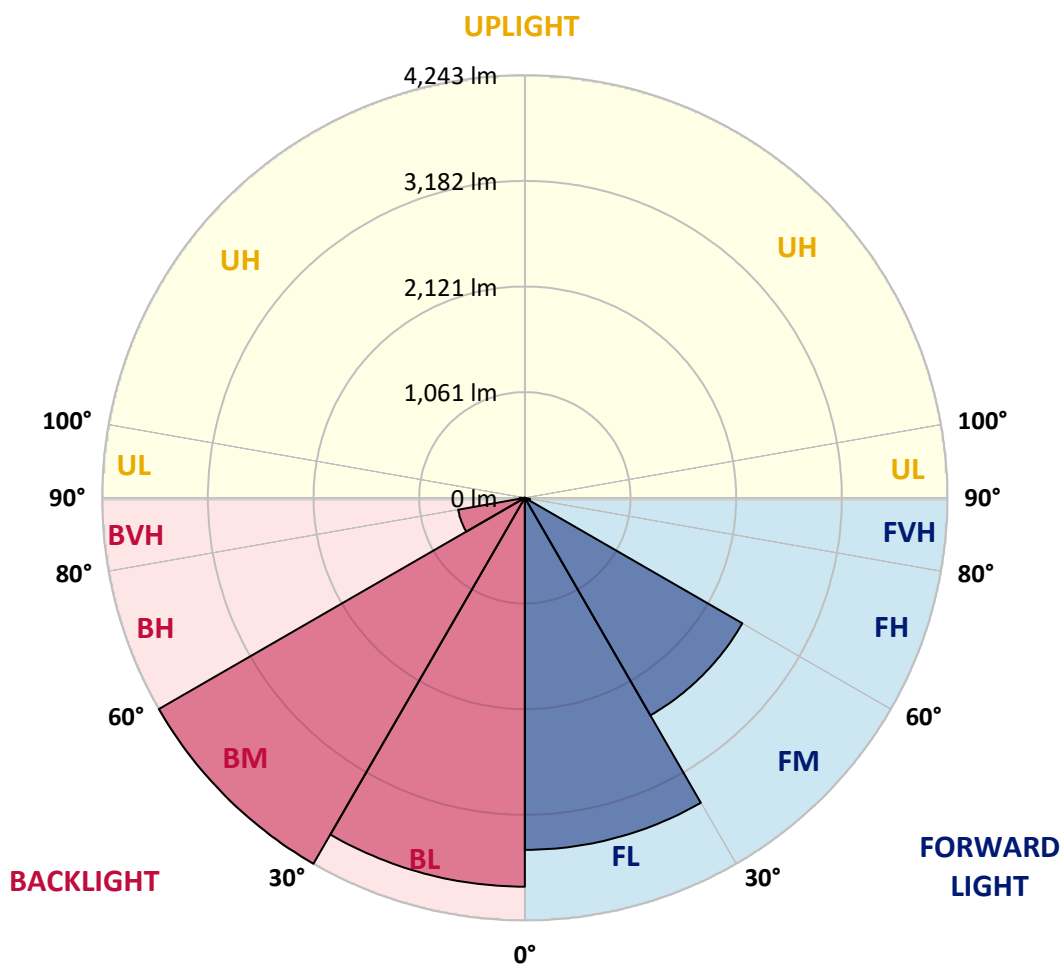
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3534.2	23.6			
FM (30°-60°)	2521.4	16.8			
FH (60°-80°)	52.8	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3904.2	26.0	B4/5000		
BM (30°-60°)	4242.6	28.3	B3/5000		
BH (60°-80°)	679.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	52.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0
2.5°	11387.8	11402.6	11322.4	11330.8	11345.6	11453.3	11425.9	11400.5	11364.6	11425.9
5°	11373.1	11381.5	11297.1	11267.5	11280.2	11377.3	11288.6	11288.6	11280.2	11269.6
7.5°	11259.1	11263.3	11197.8	11145.1	11178.8	11223.2	11157.7	11189.4	11142.9	11178.8
10°	11088.1	11060.6	10982.5	10967.7	11005.7	11047.9	11003.6	11033.2	10990.9	11018.4
12.5°	10836.8	10794.6	10731.3	10712.3	10777.7	10834.7	10798.8	10781.9	10727.0	10794.6
15°	9867.8	9836.1	9979.7	10230.9	10456.8	10505.4	10467.4	10484.3	10370.2	10389.2
17.5°	8121.8	8062.7	8216.8	8812.2	9660.9	10108.5	10074.7	9964.9	9796.0	9834.0
20°	7380.8	7363.9	7347.0	7488.4	8081.7	9439.2	9485.7	9207.0	8966.3	8913.5
22.5°	6962.8	6956.4	6939.5	6971.2	7127.4	7999.4	8531.4	8273.8	8113.4	8098.6
25°	6580.6	6570.1	6519.4	6559.5	6559.5	6610.2	7292.1	7448.3	7306.9	7290.0
27.5°	6192.2	6173.2	6164.7	6183.7	6086.6	5744.6	5917.7	6679.9	6606.0	6610.2
30°	5772.0	5765.7	5742.5	5782.6	5482.8	5058.5	4948.7	5983.2	5997.9	5993.7
32.5°	5147.1	5174.6	5280.1	5324.5	4830.4	4480.0	4296.3	5176.7	5478.6	5472.2
35°	3738.9	3738.9	4083.1	4722.8	4233.0	3969.1	3869.8	4389.2	4965.6	4986.7
37.5°	3073.9	3084.5	3152.0	3443.4	3652.4	3559.5	3529.9	3694.6	4306.9	4340.6
40°	2765.7	2765.7	2765.7	2645.3	2639.0	3206.9	3190.0	3137.3	3719.9	3793.8
42.5°	2484.9	2491.2	2495.4	2191.4	2022.5	2772.0	2734.0	2653.8	3194.3	3280.8
45°	2195.7	2206.2	2218.9	1832.5	1758.6	1995.1	2313.9	2225.2	2674.9	2786.8
47.5°	1340.6	1357.5	1644.6	1553.8	1562.3	1539.1	1887.4	1872.6	2193.5	2351.9
50°	905.7	912.0	939.5	985.9	1340.6	1209.7	1336.4	1549.6	1665.7	1906.4
52.5°	760.0	770.6	703.0	639.7	880.4	945.8	933.2	1150.6	1197.1	1494.7
55°	534.1	567.9	536.2	529.9	500.4	734.7	707.3	884.6	914.2	1135.8
57.5°	54.9	63.3	109.8	394.8	327.2	415.9	504.6	648.1	677.7	838.1
60°	4.2	4.2	10.6	54.9	238.6	249.1	348.3	399.0	456.0	584.8
62.5°	0.0	2.1	4.2	8.4	38.0	133.0	175.2	209.0	274.5	377.9
65°	0.0	0.0	2.1	6.3	8.4	50.7	67.6	109.8	149.9	234.3
67.5°	0.0	0.0	2.1	4.2	6.3	12.7	23.2	40.1	80.2	133.0
70°	0.0	0.0	2.1	4.2	6.3	10.6	16.9	25.3	35.9	71.8
72.5°	0.0	0.0	2.1	2.1	4.2	10.6	12.7	16.9	25.3	35.9
75°	0.0	0.0	2.1	2.1	6.3	12.7	10.6	12.7	16.9	23.2
77.5°	0.0	0.0	2.1	4.2	6.3	12.7	10.6	12.7	12.7	14.8
80°	0.0	0.0	2.1	4.2	8.4	14.8	12.7	12.7	10.6	10.6
82.5°	0.0	0.0	2.1	6.3	8.4	19.0	19.0	16.9	8.4	6.3
85°	0.0	0.0	4.2	8.4	12.7	21.1	21.1	16.9	6.3	4.2
87.5°	0.0	0.0	4.2	6.3	10.6	14.8	21.1	16.9	6.3	2.1
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11409.0	0°	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0	11409.0
11373.1	2.5°	11430.1	11417.4	11459.6	11476.5	11499.7	11411.1	11356.2	11358.3	11257.0
11244.3	5°	11311.8	11314.0	11368.8	11364.6	11387.8	11339.3	11318.2	11282.3	11193.6
11081.7	7.5°	11161.9	11142.9	11195.7	11235.8	11176.7	11210.5	11161.9	11178.8	11126.1
10938.2	10°	11045.8	11001.5	11050.1	11077.5	11079.6	11045.8	10999.4	10955.1	10936.1
10714.4	12.5°	10788.3	10731.3	10813.6	10851.6	10845.3	10779.8	10727.0	10737.6	10676.4
10321.7	15°	10433.6	10435.7	10494.8	10530.7	10496.9	10482.1	10486.4	10461.0	10408.2
9779.1	17.5°	9891.0	9922.7	10078.9	10165.5	10184.5	10154.9	10140.1	10110.6	10057.8
8913.5	20°	8987.4	9177.4	9456.1	9724.2	9777.0	9768.6	9715.8	9703.1	9673.5
8056.4	22.5°	8193.6	8335.0	8658.1	9076.1	9291.4	9312.5	9249.2	9230.2	9198.5
7290.0	25°	7372.3	7524.3	7815.7	8269.6	8715.1	8805.8	8795.3	8738.3	8704.5
6610.2	27.5°	6679.9	6831.9	7095.8	7505.3	7982.5	8273.8	8301.3	8210.5	8208.4
6004.3	30°	6054.9	6264.0	6464.5	6798.1	7260.4	7697.5	7743.9	7680.6	7686.9
5449.0	32.5°	5565.1	5738.3	5909.3	6133.1	6517.3	7026.1	7207.7	7148.5	7125.3
4986.7	35°	5064.8	5183.0	5358.2	5563.0	5824.8	6329.4	6644.0	6599.6	6576.4
4361.8	37.5°	4494.8	4697.4	4824.1	5054.2	5259.0	5660.1	6103.5	6097.2	6048.6
3829.7	40°	3910.0	4123.2	4315.3	4547.5	4705.9	5024.7	5516.6	5514.5	5520.8
3278.7	42.5°	3380.0	3576.4	3808.6	4062.0	4214.0	4446.2	4974.0	5003.6	5039.5
2824.8	45°	2900.8	3078.1	3293.5	3601.7	3785.4	3918.4	4387.1	4522.2	4520.1
2419.4	47.5°	2470.1	2636.9	2818.5	3118.3	3352.6	3472.9	3861.4	4053.5	4040.8
1984.5	50°	2073.2	2221.0	2411.0	2628.5	2943.0	3048.6	3337.8	3591.2	3572.2
1581.3	52.5°	1667.9	1872.6	2033.1	2231.5	2563.0	2666.5	2890.2	3137.3	3122.5
1186.5	55°	1300.5	1499.0	1693.2	1864.2	2142.9	2297.0	2457.4	2710.8	2706.6
928.9	57.5°	983.8	1201.3	1385.0	1547.5	1769.2	1959.2	2088.0	2318.1	2347.7
635.5	60°	728.4	895.2	1093.6	1275.2	1450.4	1646.7	1733.3	1959.2	1971.9
434.9	62.5°	496.1	679.8	874.0	1038.7	1169.6	1372.3	1450.4	1636.2	1659.4
278.7	65°	344.1	462.4	684.0	802.3	962.7	1135.8	1213.9	1361.7	1408.2
160.5	67.5°	228.0	329.3	534.1	641.8	800.1	918.4	1017.6	1137.9	1188.6
101.3	70°	124.6	242.8	382.1	506.7	643.9	757.9	855.0	952.2	996.5
46.4	72.5°	84.4	162.6	266.0	401.1	519.4	631.3	717.8	789.6	791.7
27.4	75°	42.2	109.8	202.7	310.3	405.4	515.1	593.2	635.5	584.8
16.9	77.5°	25.3	80.2	164.7	249.1	329.3	415.9	460.2	483.5	401.1
12.7	80°	14.8	57.0	128.8	198.5	228.0	306.1	348.3	354.7	268.1
8.4	82.5°	10.6	42.2	101.3	145.7	139.3	215.3	261.8	253.3	171.0
6.3	85°	6.3	29.6	63.3	90.8	84.4	141.5	152.0	156.2	99.2
4.2	87.5°	4.2	16.9	33.8	48.6	40.1	61.2	61.2	73.9	48.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
11409.0
<i>11126.1</i>
11172.5
11037.4
10851.6
10623.6
10355.5
10034.6
9606.0
9190.1
8668.6
8204.1
7655.2
7127.4
6544.7
6088.7
5520.8
5020.4
4524.3
4045.1
3589.1
3154.1
2717.1
2335.0
1990.9
1663.6
1397.6
1182.3
979.6
772.7
546.8
386.4
251.2
158.3
90.8
42.2
0.0

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