

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: P638574

Luminaire Tested: **EPH-VN-08-D-735-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638574
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-735-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54680.5 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

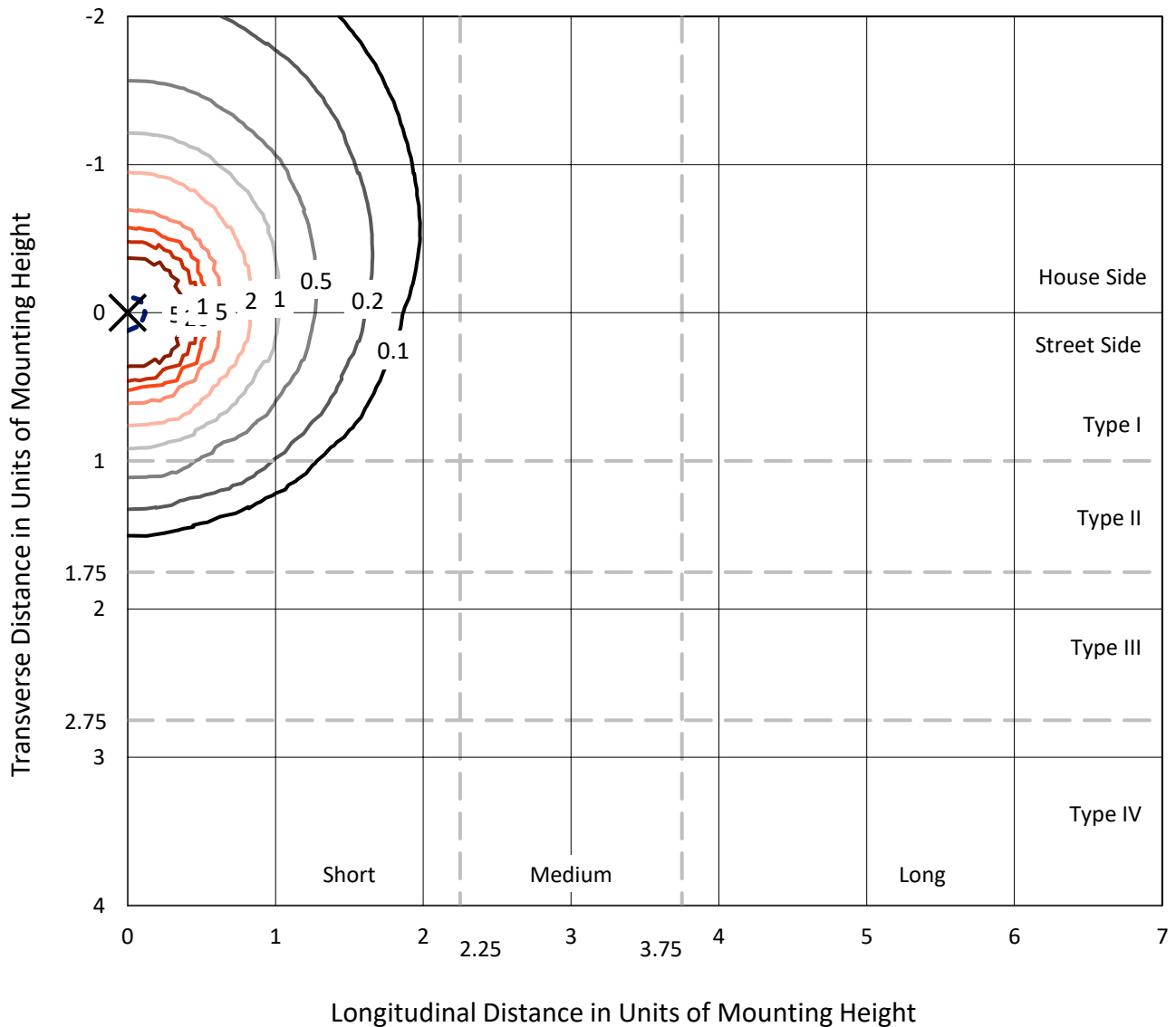
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

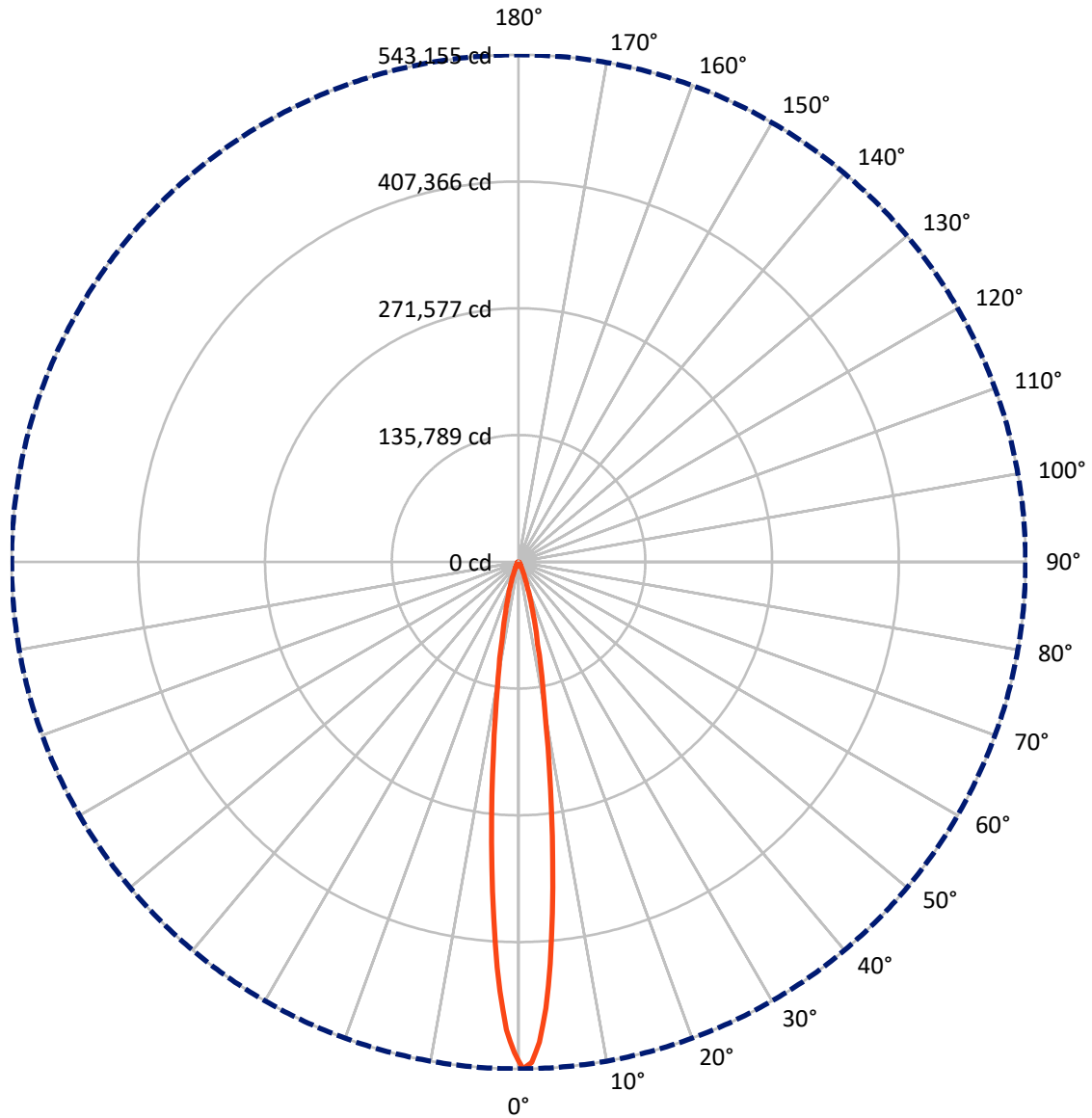
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1357.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28006.3	0.0	28006.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	26674.1	0.0	26674.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	54680.5	0.0	54680.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27604.4	50.5
10°-20°	17672.2	32.3
20°-30°	5311.9	9.7
30°-40°	1729.6	3.2
40°-50°	1006.3	1.8
50°-60°	668.4	1.2
60°-70°	402.3	0.7
70°-80°	206.8	0.4
80°-90°	78.6	0.1
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°	54680.5	100.0
0°-180°	54680.5	100.0



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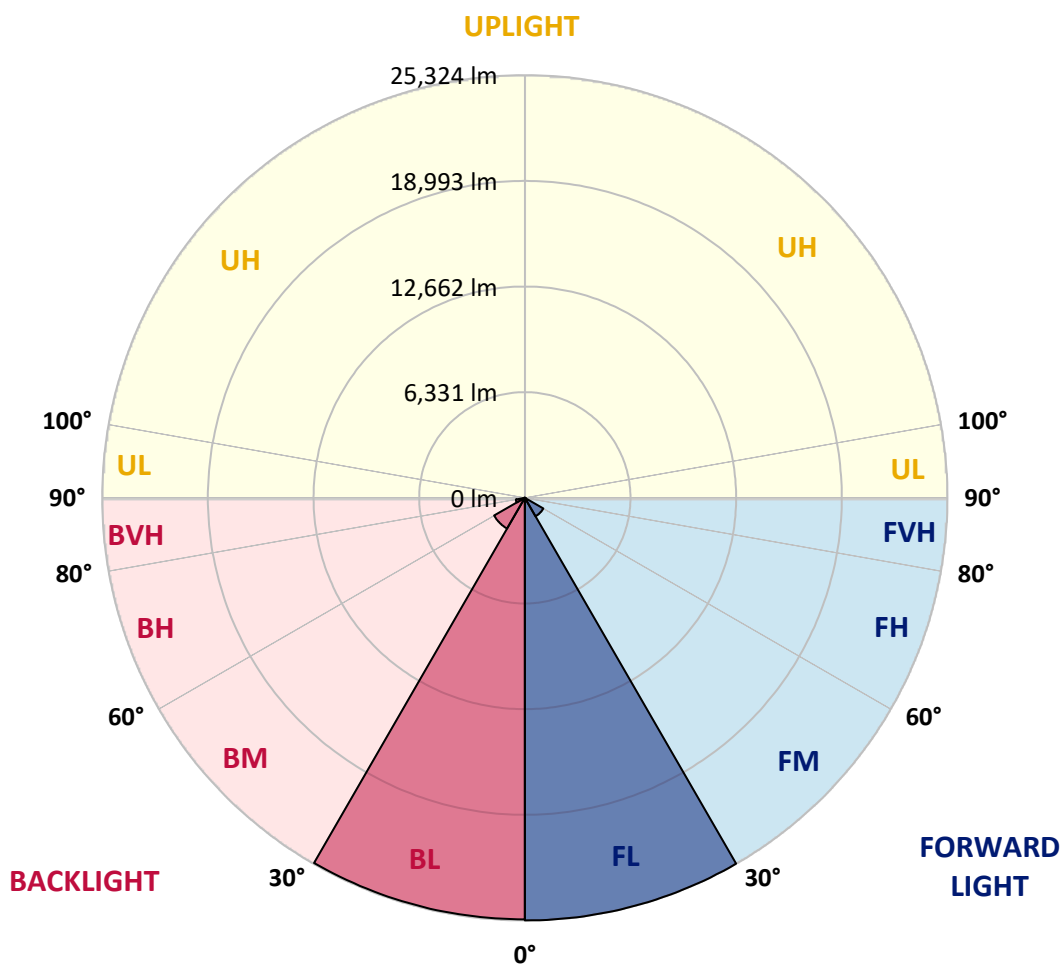
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	25324.2	46.3			
FM (30°-60°)	1277.9	2.3			
FH (60°-80°)	60.2	0.1			G0/660
FVH (80°-90°)	11.9	0.0			G1/100
BL (0°-30°)	25264.2	46.2	B5		
BM (30°-60°)	2126.4	3.9	B2/2500		
BH (60°-80°)	549.0	1.0	B2/1000		G0/660
BVH (80°-90°)	66.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6
1°	536651.1	535013.3	530784.8	533792.4	536436.7	535668.4	535614.8	535328.9	534929.9	538062.6
2°	515199.1	514139.0	507885.6	510464.4	514222.4	511482.8	513198.0	511691.3	511721.0	515461.1
3°	479036.8	479614.5	469638.9	474326.0	479549.0	472908.5	474969.2	478840.3	474784.5	473563.7
4°	432035.4	427020.8	421571.5	426335.9	427687.8	423822.7	427622.3	432363.0	426729.0	426979.1
5°	378375.7	374671.3	368221.4	371163.5	367810.5	369031.4	374724.9	376678.3	372747.6	367798.6
6°	323203.2	320570.8	312507.0	316747.4	315556.2	314865.4	322053.8	316098.2	318242.2	315246.6
7°	268840.7	263921.4	259960.9	264022.6	264284.7	262206.2	271538.6	270454.7	266553.8	265648.5
8°	222738.6	217831.2	214478.2	217503.6	219480.9	216217.2	220606.5	223489.0	220439.7	220713.7
9°	179650.0	178786.4	174123.2	178077.7	180227.7	176731.7	181591.5	182633.7	179781.0	181168.7
10°	147507.7	146501.2	142779.0	144381.1	147942.5	143773.6	148436.8	148776.3	146501.2	147150.4
12.5°	91156.1	90751.1	90649.8	90882.1	90834.5	91573.0	92764.1	91406.2	91227.5	88982.3
15°	58918.5	59520.0	58900.7	60091.8	60264.5	60961.3	60234.7	59138.9	57048.5	56012.2
17.5°	36769.7	37538.0	38598.1	40343.1	42088.1	42290.6	41325.7	40039.3	39026.9	37919.2
20°	21154.2	21529.4	21368.6	23459.0	27973.3	29200.2	27955.5	26603.6	25382.7	24263.0
22.5°	13144.0	13007.0	13257.1	13959.9	15430.9	19224.6	18206.2	16854.3	15966.9	15043.8
25°	8057.9	8206.8	8111.5	8498.6	9159.7	10767.7	11000.0	10416.3	9963.7	9487.2
27.5°	5187.3	5187.3	5229.0	5443.4	5896.0	5842.4	7081.2	6628.6	6384.4	6152.1
30°	3603.1	3615.0	3615.0	3740.1	3841.3	3662.7	3984.3	4567.9	4454.8	4276.1
32.5°	2674.1	2709.8	2739.6	2805.1	2721.7	2531.1	2608.5	3287.5	3222.0	3156.5
35°	2036.8	2066.6	2138.1	2173.8	2054.7	1935.6	1864.1	2418.0	2447.7	2429.9
37.5°	1482.9	1500.8	1631.8	1768.8	1631.8	1524.6	1482.9	1858.1	2001.1	1983.2
40°	1137.5	1143.5	1167.3	1322.1	1322.1	1238.8	1250.7	1387.6	1637.8	1637.8
42.5°	976.7	976.7	1000.5	976.7	982.7	1072.0	1101.8	1119.6	1387.6	1387.6
45°	845.7	845.7	857.6	798.0	738.5	923.1	946.9	952.9	1167.3	1197.1
47.5°	708.7	708.7	732.5	655.1	625.3	732.5	798.0	815.9	1006.5	1030.3
50°	524.1	530.0	601.5	536.0	553.9	565.8	690.8	702.8	851.6	905.2
52.5°	351.4	351.4	363.3	416.9	482.4	464.5	559.8	601.5	678.9	750.4
55°	285.9	285.9	279.9	268.0	357.3	387.1	410.9	500.3	553.9	643.2
57.5°	196.5	208.4	190.6	220.4	232.3	291.8	309.7	393.1	422.8	542.0
60°	23.8	29.8	41.7	160.8	154.8	196.5	232.3	309.7	345.4	416.9
62.5°	6.0	6.0	11.9	29.8	107.2	131.0	184.6	214.4	250.1	321.6
65°	0.0	0.0	6.0	11.9	23.8	71.5	95.3	125.1	178.7	226.3
67.5°	0.0	0.0	6.0	11.9	11.9	29.8	47.6	77.4	95.3	166.8
70°	0.0	0.0	6.0	11.9	11.9	23.8	29.8	35.7	65.5	89.3
72.5°	0.0	0.0	6.0	11.9	17.9	23.8	29.8	29.8	29.8	59.6
75°	0.0	0.0	6.0	11.9	17.9	23.8	29.8	29.8	23.8	23.8
77.5°	0.0	0.0	6.0	11.9	23.8	29.8	35.7	29.8	17.9	17.9
80°	0.0	0.0	6.0	17.9	29.8	41.7	47.6	35.7	17.9	11.9
82.5°	0.0	0.0	11.9	23.8	35.7	47.6	65.5	53.6	23.8	11.9
85°	0.0	0.0	6.0	17.9	35.7	47.6	95.3	65.5	29.8	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	11.9	35.7	23.8	11.9	6.0
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):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
543154.6	0°	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6	543154.6
534447.5	1°	538181.7	538556.9	537330.0	539229.8	538562.8	534656.0	533363.6	531833.0
513263.5	2°	511691.3	513603.0	513698.3	515806.6	515776.8	511220.8	509809.3	512411.9
476041.2	3°	474599.9	476827.3	474820.3	478566.3	477440.7	471914.0	470478.7	473432.6
428956.4	4°	427675.9	427253.1	426562.2	424430.1	427056.6	423286.7	420445.9	424454.0
374361.6	5°	373611.2	372670.2	371324.3	370693.0	372646.4	370234.4	364392.0	370246.3
320666.1	6°	321059.2	317009.4	316812.9	316461.5	316658.0	309904.4	310309.4	314668.9
262533.7	7°	265309.0	266053.5	264534.8	266970.6	265112.5	260538.6	258775.8	263367.5
221916.7	8°	220368.3	219427.3	218265.9	221904.8	218682.8	215681.2	213626.5	217253.5
181395.0	9°	181055.5	179429.6	178250.4	178065.8	178566.1	172932.1	174075.6	176821.1
147507.7	10°	147561.3	144893.2	145542.4	145715.1	145167.2	141474.7	141510.5	142457.4
90471.2	12.5°	90149.6	88839.3	89166.9	89345.6	90459.3	89160.9	87326.6	86004.5
57042.5	15°	56661.4	55720.4	57644.0	58936.4	58674.3	57519.0	56655.4	55458.3
37919.2	17.5°	37567.8	38800.6	38806.5	39985.7	40104.9	38949.5	38282.4	37204.5
24662.0	20°	24572.7	25084.9	26150.9	26984.7	27467.1	26585.7	25787.6	25049.2
15377.3	22.5°	15377.3	16270.6	16937.7	18021.6	18462.3	17819.1	17253.3	16651.8
9600.4	25°	9439.6	10076.8	10630.7	11571.7	12173.2	11863.5	11345.4	10922.5
6199.8	27.5°	6295.0	6563.0	6837.0	7486.2	8111.5	7938.8	7730.3	7474.2
4371.4	30°	4436.9	4460.7	4752.6	5115.8	5532.7	5639.9	5544.6	5413.6
3210.1	32.5°	3269.6	3364.9	3501.9	3728.2	4008.1	4264.2	4216.5	4157.0
2453.7	35°	2525.2	2668.1	2781.3	2954.0	3102.9	3347.0	3388.7	3370.9
2018.9	37.5°	2060.6	2185.7	2298.9	2400.1	2525.2	2691.9	2822.9	2828.9
1667.6	40°	1709.3	1822.4	1971.3	2048.7	2138.1	2263.1	2423.9	2435.8
1411.5	42.5°	1441.2	1548.5	1697.3	1792.6	1858.1	1977.3	2138.1	2161.9
1209.0	45°	1238.8	1304.3	1459.1	1572.3	1637.8	1715.2	1887.9	1911.7
1042.2	47.5°	1078.0	1143.5	1238.8	1399.6	1459.1	1530.6	1667.6	1709.3
923.1	50°	946.9	1012.4	1095.8	1238.8	1328.1	1387.6	1500.8	1560.4
804.0	52.5°	839.7	905.2	994.6	1107.7	1209.0	1262.6	1369.8	1447.2
655.1	55°	702.8	815.9	881.4	982.7	1119.6	1167.3	1250.7	1351.9
571.7	57.5°	613.4	708.7	804.0	887.4	1024.4	1083.9	1167.3	1262.6
452.6	60°	518.1	607.5	720.6	792.1	923.1	1000.5	1089.9	1179.2
345.4	62.5°	410.9	530.0	607.5	708.7	833.8	935.0	1006.5	1095.8
268.0	65°	303.7	434.8	524.1	631.3	750.4	857.6	917.2	1012.4
190.6	67.5°	220.4	339.5	446.7	547.9	661.1	768.3	827.8	911.2
119.1	70°	172.7	250.1	369.2	458.6	577.7	667.0	732.5	786.1
77.4	72.5°	101.2	190.6	297.8	399.0	506.2	565.8	613.4	661.1
35.7	75°	65.5	148.9	244.2	333.5	410.9	464.5	506.2	547.9
17.9	77.5°	41.7	107.2	196.5	279.9	315.6	381.2	416.9	440.7
11.9	80°	23.8	83.4	172.7	226.3	256.1	297.8	333.5	363.3
11.9	82.5°	17.9	71.5	142.9	190.6	190.6	238.2	256.1	256.1
6.0	85°	11.9	59.6	113.2	178.7	142.9	178.7	166.8	166.8
6.0	87.5°	11.9	41.7	53.6	77.4	65.5	77.4	77.4	89.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
543154.6
525770.2
501388.1
460312.5
409946.2
354821.4
302031.1
250878.7
206896.7
168245.0
136013.5
85200.5
54844.9
36936.5
24793.1
16330.2
10678.3
7325.4
5324.3
4109.3
3311.3
2787.2
2418.0
2144.0
1905.8
1715.2
1566.3
1447.2
1357.9
1268.5
1203.0
1137.5
1030.3
917.2
804.0
673.0
547.9
428.8
327.6
238.2
160.8
89.3
0.0

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