

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: P638642

Luminaire Tested: **EPH-VN-03-E-760-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638642
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-760-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (48) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26611.1 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

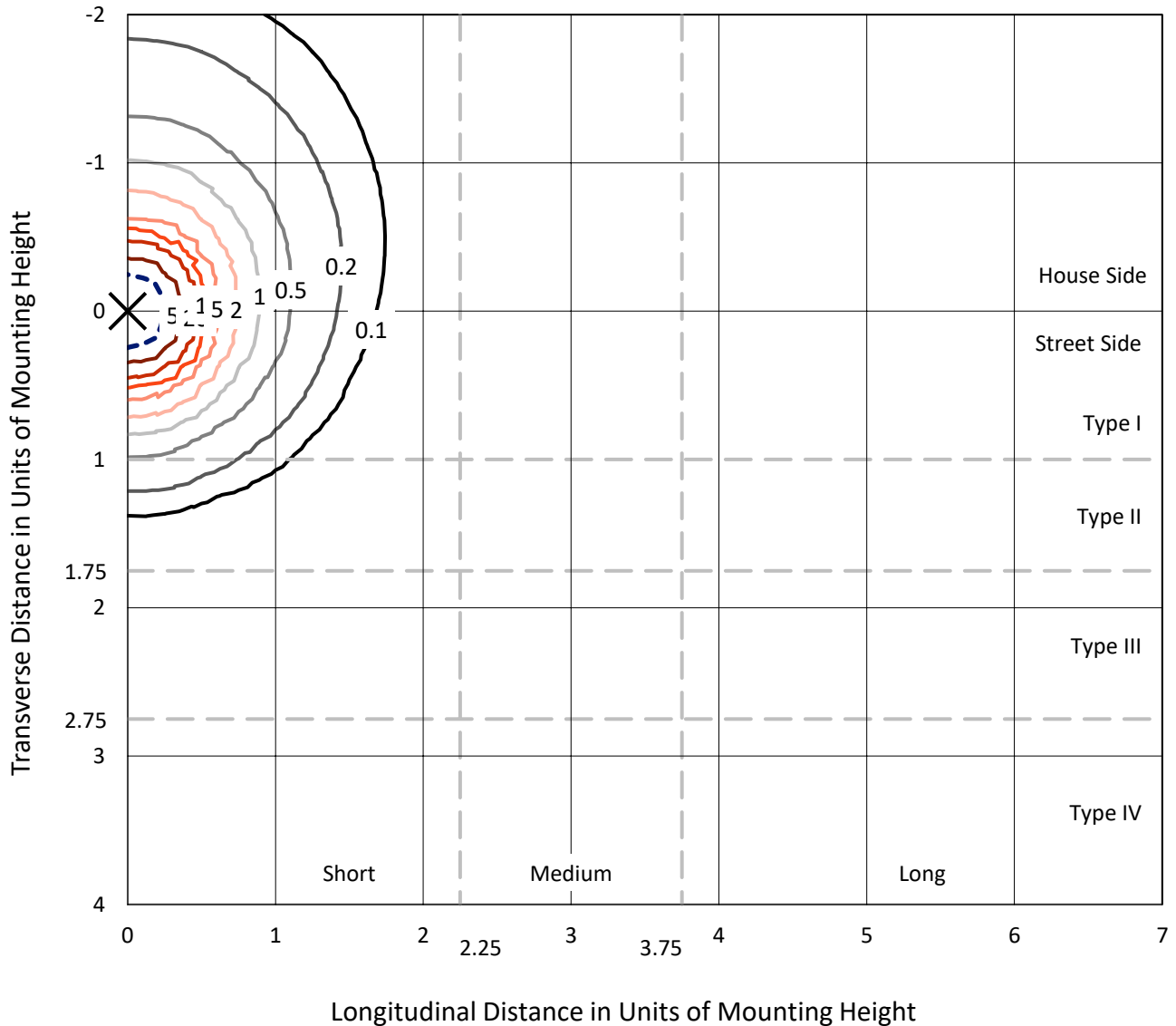
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

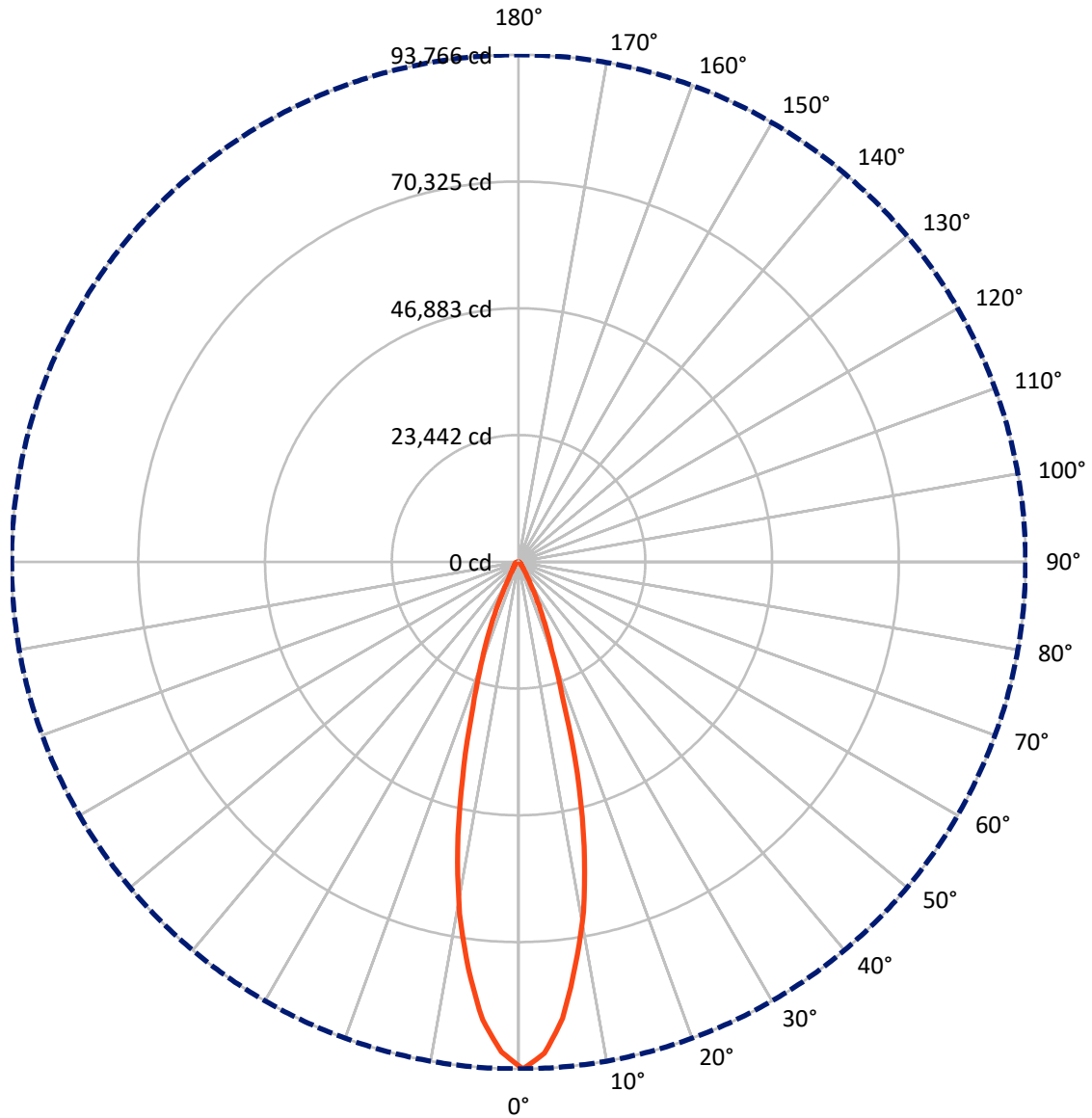
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 234.4 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	14031.2	0.0	14031.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12579.9	0.0	12579.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	26611.1	0.0	26611.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7567.8	28.4
10°-20°	11461.3	43.1
20°-30°	4836.7	18.2
30°-40°	1261.5	4.7
40°-50°	638.0	2.4
50°-60°	417.0	1.6
60°-70°	249.9	0.9
70°-80°	131.4	0.5
80°-90°	47.5	0.2
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°	26611.1	100.0
0°-180°	26611.1	100.0



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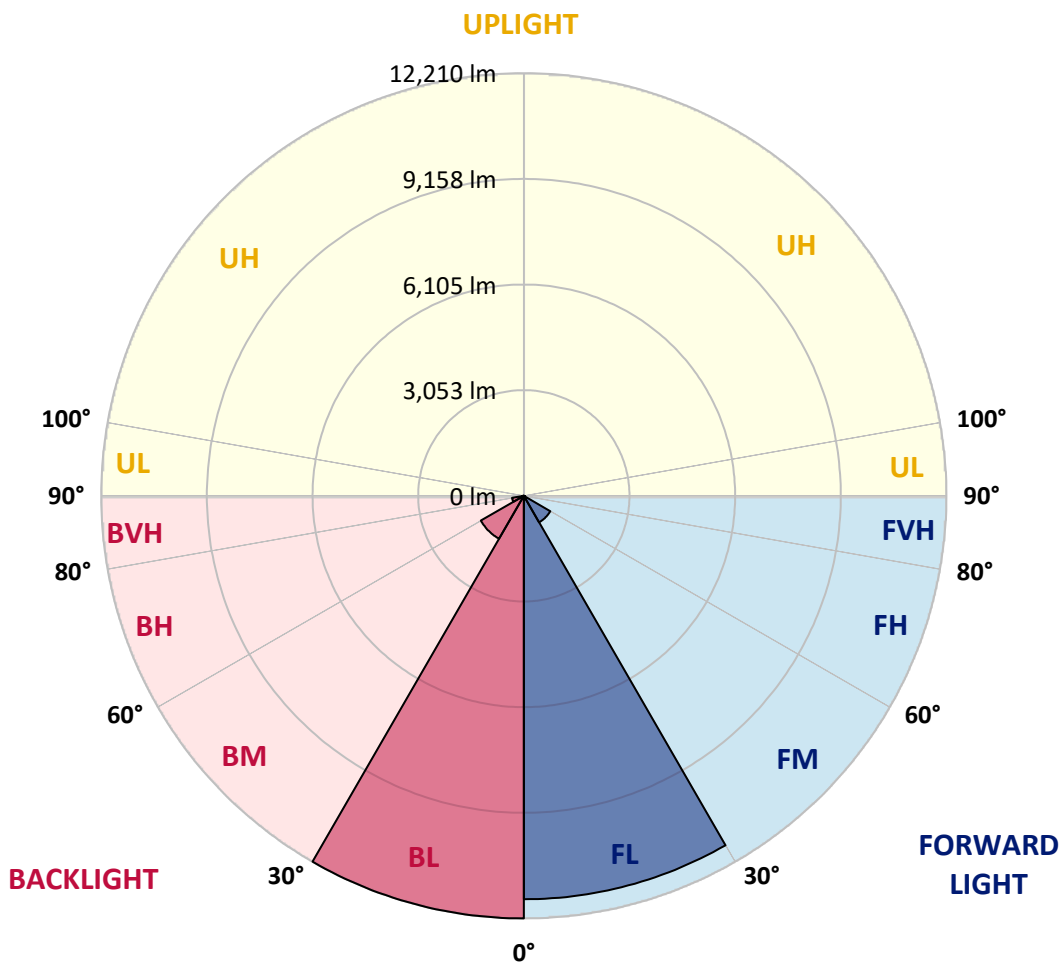
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11655.5	43.8			
FM (30°-60°)	882.7	3.3			
FH (60°-80°)	36.0	0.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	12210.3	45.9	B5		
BM (30°-60°)	1433.8	5.4	B2/2500		
BH (60°-80°)	345.3	1.3	B1/500		G0/660
BVH (80°-90°)	41.7	0.2			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°	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0
2.5°	91034.5	91085.3	90897.0	91303.5	90986.7	91835.4	91414.0	92071.5	91850.4	92217.9
5°	84818.5	84734.8	84681.0	85311.6	85129.3	86040.8	85458.0	85266.8	85858.5	85750.9
7.5°	75431.7	75652.9	75527.4	75691.7	75784.4	76824.4	77153.1	76896.1	76905.1	77054.5
10°	65808.9	65483.2	65019.9	65327.8	65979.2	66433.5	66251.2	66627.7	66544.1	66899.7
12.5°	53968.6	54225.6	53965.6	53690.7	54829.3	54703.8	55020.6	55226.8	54709.8	55860.3
15°	40652.0	40786.5	41103.3	41082.4	41958.0	42134.3	42092.5	42310.6	41907.2	42098.5
17.5°	26116.2	26570.4	27422.1	28862.6	30482.3	30670.6	30622.8	30443.5	30249.2	30034.0
20°	17542.3	17494.5	17802.3	18223.6	21576.7	22464.3	22437.4	21875.5	21062.7	20907.3
22.5°	12288.6	12378.2	12336.4	12754.8	13448.1	15895.6	15593.8	15023.0	14757.0	14583.7
25°	8083.8	8050.9	8260.1	8385.6	8980.3	9279.2	10337.1	10124.9	9715.5	9760.3
27.5°	4928.0	4969.8	5047.5	5155.1	5576.5	5480.8	6084.5	6165.2	6033.7	5893.2
30°	3024.3	3054.2	3117.0	3194.7	3341.1	3236.5	3403.9	3693.7	3645.9	3547.3
32.5°	2053.1	2056.1	2100.9	2130.8	2112.8	2014.2	2068.0	2343.0	2348.9	2340.0
35°	1476.3	1476.3	1518.1	1542.0	1491.2	1410.6	1419.5	1589.9	1664.6	1679.5
37.5°	1019.1	1022.1	1093.8	1165.5	1108.7	1087.8	1051.9	1165.5	1285.0	1303.0
40°	774.0	771.0	806.9	860.7	866.7	827.8	839.8	911.5	1034.0	1048.9
42.5°	627.6	630.6	648.5	642.5	645.5	696.3	714.2	747.1	860.7	887.6
45°	529.0	531.9	540.9	511.0	499.1	576.8	600.7	618.6	714.2	747.1
47.5°	436.3	442.3	451.3	418.4	412.4	463.2	505.0	523.0	606.7	642.5
50°	313.8	319.8	352.6	334.7	352.6	364.6	421.4	448.3	505.0	552.9
52.5°	227.1	233.1	242.1	245.1	289.9	295.9	337.7	379.5	406.4	460.2
55°	179.3	185.3	179.3	173.3	212.2	245.1	260.0	304.8	325.7	388.5
57.5°	101.6	107.6	116.5	134.5	140.5	188.3	203.2	242.1	260.0	319.8
60°	17.9	20.9	32.9	80.7	98.6	119.5	152.4	185.3	209.2	251.0
62.5°	3.0	3.0	6.0	17.9	56.8	83.7	110.6	131.5	152.4	191.3
65°	0.0	0.0	3.0	6.0	14.9	47.8	59.8	77.7	104.6	137.5
67.5°	0.0	0.0	3.0	6.0	9.0	17.9	26.9	47.8	59.8	92.6
70°	0.0	0.0	3.0	6.0	9.0	12.0	14.9	20.9	35.9	56.8
72.5°	0.0	0.0	3.0	6.0	9.0	12.0	14.9	17.9	17.9	35.9
75°	0.0	0.0	3.0	6.0	9.0	14.9	17.9	17.9	14.9	14.9
77.5°	0.0	0.0	3.0	6.0	12.0	17.9	20.9	17.9	12.0	12.0
80°	0.0	0.0	6.0	9.0	14.9	20.9	26.9	20.9	12.0	6.0
82.5°	0.0	0.0	6.0	12.0	14.9	23.9	32.9	26.9	12.0	6.0
85°	0.0	0.0	3.0	9.0	17.9	23.9	32.9	23.9	12.0	3.0
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	17.9	14.9	6.0	3.0
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°
93766.0	0°	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0	93766.0
91521.6	2.5°	92047.6	92525.7	92624.4	92492.9	92684.1	92340.5	92077.5	91396.1	90986.7
85718.0	5°	86270.9	86199.2	86698.2	86862.6	86841.7	86578.7	86211.1	85798.7	85398.3
76764.6	7.5°	77242.8	77335.4	77789.6	78079.5	77933.1	77604.4	77350.3	77039.5	76770.6
67028.2	10°	67640.8	67004.3	67569.1	67569.1	67960.6	67031.2	67117.8	66334.9	66370.7
55839.4	12.5°	56030.7	56260.8	56353.4	56619.4	56162.2	55669.1	55065.4	54945.8	54572.3
41733.9	15°	42334.5	42992.0	42427.2	43392.5	42926.3	42412.2	42319.6	41393.2	41686.0
30270.1	17.5°	30120.7	30846.9	31074.0	31626.9	31202.5	30897.7	30512.2	30231.3	30210.4
21191.2	20°	21358.5	22087.7	22255.1	22918.5	22870.7	22775.1	22449.3	22093.7	21708.2
14425.3	22.5°	14643.5	15238.2	15794.0	16687.6	16672.6	16391.7	16358.8	15856.8	15865.7
9745.4	25°	9847.0	10280.3	10411.8	11326.3	11427.9	11398.0	11227.6	10761.4	10937.8
5953.0	27.5°	5959.0	6338.5	6783.8	7106.6	7411.4	7363.6	7193.2	6933.2	6819.7
3577.2	30°	3672.8	3843.2	4007.5	4396.0	4578.3	4674.0	4593.3	4351.2	4369.1
2354.9	32.5°	2405.7	2549.2	2668.7	2913.7	3009.4	3185.7	3152.8	3102.0	3042.3
1694.5	35°	1754.2	1858.8	1939.5	2053.1	2175.6	2325.0	2348.9	2328.0	2304.1
1308.9	37.5°	1338.8	1446.4	1539.1	1586.9	1682.5	1799.1	1864.8	1861.8	1843.9
1066.9	40°	1087.8	1168.5	1252.2	1314.9	1380.7	1467.3	1548.0	1557.0	1557.0
896.5	42.5°	908.5	977.2	1060.9	1126.6	1174.5	1255.2	1338.8	1344.8	1338.8
759.1	45°	777.0	836.8	917.5	995.2	1034.0	1093.8	1174.5	1192.4	1180.4
651.5	47.5°	675.4	729.2	797.9	881.6	923.4	977.2	1051.9	1072.9	1069.9
561.8	50°	579.8	642.5	711.3	780.0	833.8	884.6	956.3	980.2	971.2
478.2	52.5°	511.0	567.8	627.6	702.3	765.0	809.9	866.7	908.5	896.5
403.4	55°	427.3	496.1	558.8	621.6	699.3	747.1	800.9	851.7	839.8
340.7	57.5°	370.6	427.3	499.1	555.9	633.6	690.3	744.1	797.9	794.9
277.9	60°	310.8	370.6	439.3	499.1	570.8	633.6	687.3	747.1	753.1
209.2	62.5°	245.1	316.8	376.5	445.3	517.0	585.7	633.6	693.3	702.3
158.4	65°	185.3	260.0	325.7	391.5	463.2	537.9	579.8	630.6	639.5
116.5	67.5°	137.5	200.2	277.9	337.7	412.4	484.1	523.0	564.8	579.8
71.7	70°	104.6	152.4	233.1	289.9	367.6	424.4	466.2	502.1	514.0
47.8	72.5°	65.7	119.5	188.3	248.0	316.8	367.6	397.5	418.4	436.3
26.9	75°	44.8	92.6	152.4	212.2	263.0	301.8	328.7	346.7	361.6
12.0	77.5°	26.9	71.7	125.5	176.3	209.2	239.1	266.0	277.9	286.9
9.0	80°	14.9	53.8	104.6	143.4	164.4	185.3	206.2	221.1	227.1
6.0	82.5°	9.0	41.8	83.7	110.6	119.5	140.5	161.4	170.3	170.3
3.0	85°	6.0	29.9	56.8	80.7	86.7	101.6	107.6	113.6	119.5
3.0	87.5°	6.0	17.9	35.9	44.8	47.8	53.8	56.8	62.8	68.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>93766.0</u>
90684.9
84950.0
75859.1
66021.1
54231.6
41393.2
29654.5
21540.8
15692.4
10659.8
6721.0
4291.4
3021.3
2295.1
1834.9
1539.1
1332.9
1180.4
1063.9
965.3
893.5
845.7
797.9
756.1
708.3
648.5
585.7
520.0
433.3
358.6
283.9
221.1
167.4
116.5
65.7
0.0

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