

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: P638645

Luminaire Tested: **EPH-VN-07-E-760-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-760-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55693.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

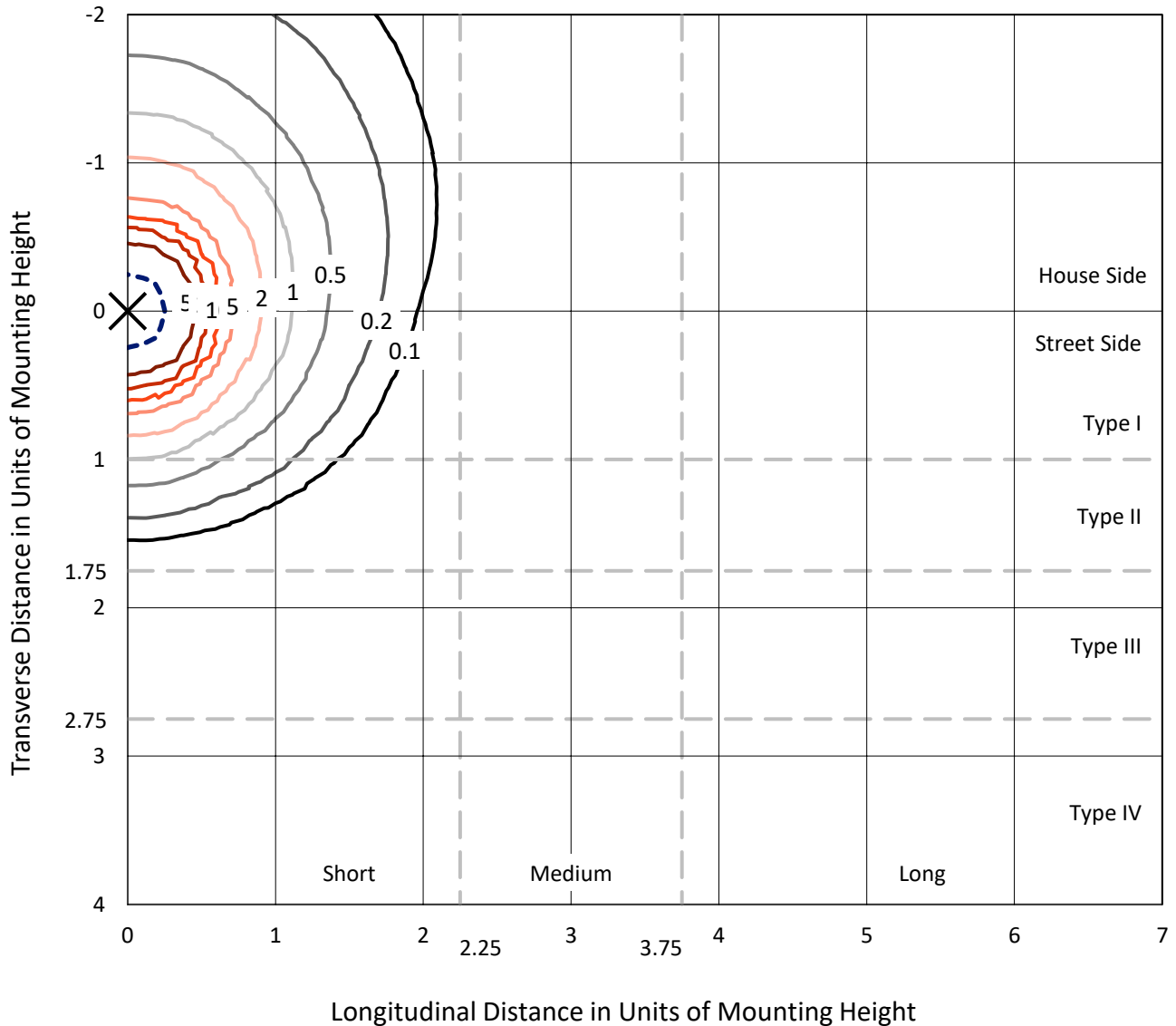
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

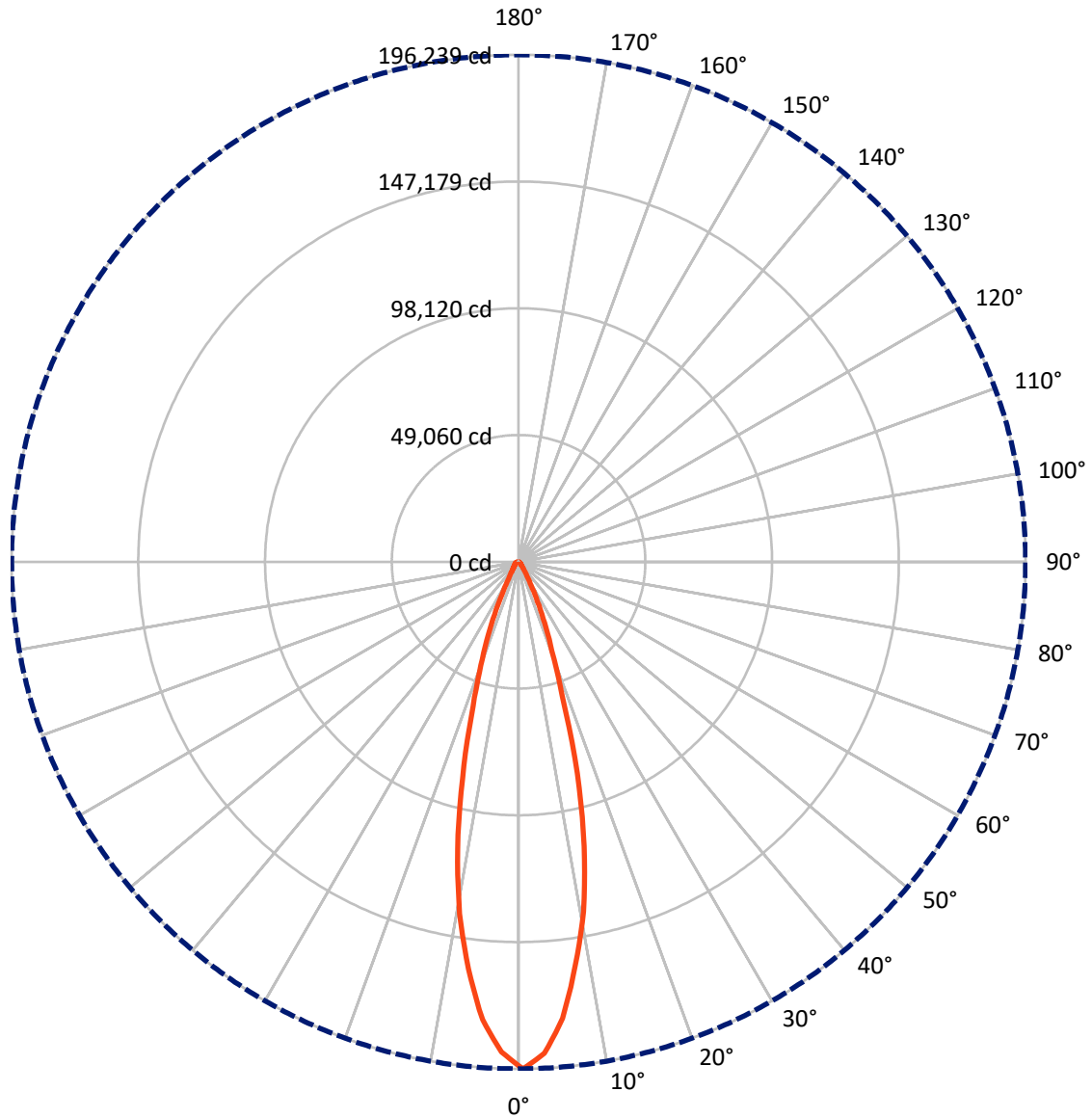
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 490.6 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	29365.2	0.0	29365.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	26328.0	0.0	26328.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	55693.3	0.0	55693.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15838.2	28.4
10°-20°	23986.9	43.1
20°-30°	10122.6	18.2
30°-40°	2640.1	4.7
40°-50°	1335.3	2.4
50°-60°	872.8	1.6
60°-70°	522.9	0.9
70°-80°	275.1	0.5
80°-90°	99.4	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°	55693.3	100.0
0°-180°	55693.3	100.0

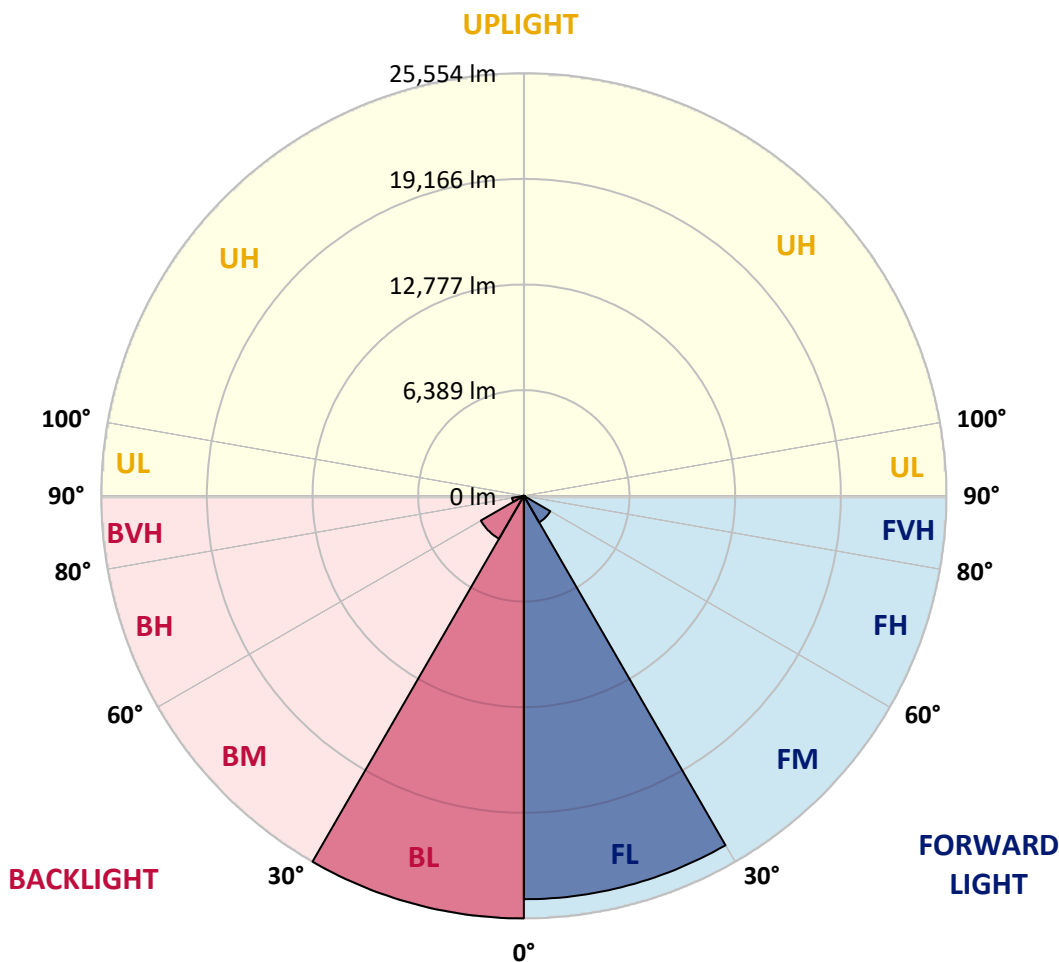


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24393.3	43.8			
FM (30°-60°)	1847.4	3.3			
FH (60°-80°)	75.3	0.1			G0/660
FVH (80°-90°)	12.1	0.0			G1/100
BL (0°-30°)	25554.4	45.9	B5		
BM (30°-60°)	3000.8	5.4	B3/5000		
BH (60°-80°)	722.7	1.3	B2/1000		G1/1800
BVH (80°-90°)	87.3	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°	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0
2.5°	190522.5	190628.8	190234.8	191085.4	190422.4	192198.7	191316.8	192692.8	192229.9	192999.2
5°	177513.3	177338.1	177225.6	178545.2	178163.7	180071.3	178851.7	178451.4	179689.8	179464.6
7.5°	157868.1	158330.9	158068.2	158412.2	158606.1	160782.7	161470.6	160932.8	160951.5	161264.2
10°	137728.8	137047.1	136077.7	136721.9	138085.3	139036.0	138654.5	139442.5	139267.4	140011.7
12.5°	112948.8	113486.6	112942.5	112367.1	114750.0	114487.4	115150.3	115581.9	114499.9	116907.8
15°	85079.0	85360.5	86023.4	85979.7	87812.2	88181.2	88093.7	88550.2	87705.9	88106.2
17.5°	54657.5	55608.1	57390.7	60405.3	63795.2	64189.2	64089.2	63713.9	63307.3	62857.0
20°	36713.5	36613.4	37257.6	38139.5	45157.0	47014.6	46958.3	45782.4	44081.2	43756.0
22.5°	25718.2	25905.9	25818.3	26693.9	28144.9	33267.3	32635.6	31441.0	30884.4	30521.6
25°	16918.2	16849.4	17287.2	17549.9	18794.6	19420.0	21634.1	21190.0	20333.2	20427.0
27.5°	10313.6	10401.1	10563.7	10788.9	11670.8	11470.6	12734.0	12902.9	12627.7	12333.7
30°	6329.5	6392.0	6523.4	6686.0	6992.5	6773.5	7123.8	7730.5	7630.4	7424.0
32.5°	4296.8	4303.0	4396.9	4459.4	4421.9	4215.5	4328.1	4903.5	4916.0	4897.2
35°	3089.7	3089.7	3177.3	3227.3	3121.0	2952.1	2970.9	3327.4	3483.7	3515.0
37.5°	2132.8	2139.0	2289.1	2439.2	2320.4	2276.6	2201.6	2439.2	2689.4	2726.9
40°	1619.9	1613.6	1688.7	1801.3	1813.8	1732.5	1757.5	1907.6	2164.0	2195.3
42.5°	1313.4	1319.7	1357.2	1344.7	1351.0	1457.3	1494.8	1563.6	1801.3	1857.6
45°	1107.0	1113.3	1132.1	1069.5	1044.5	1207.1	1257.1	1294.7	1494.8	1563.6
47.5°	913.1	925.7	944.4	875.6	863.1	969.4	1057.0	1094.5	1269.6	1344.7
50°	656.7	669.2	738.0	700.5	738.0	763.0	881.9	938.2	1057.0	1157.1
52.5°	475.3	487.8	506.6	512.9	606.7	619.2	706.8	794.3	850.6	963.2
55°	375.3	387.8	375.3	362.8	444.1	512.9	544.1	638.0	681.7	813.1
57.5°	212.7	225.2	243.9	281.4	294.0	394.0	425.3	506.6	544.1	669.2
60°	37.5	43.8	68.8	168.9	206.4	250.2	319.0	387.8	437.8	525.4
62.5°	6.3	6.3	12.5	37.5	118.8	175.1	231.4	275.2	319.0	400.3
65°	0.0	0.0	6.3	12.5	31.3	100.1	125.1	162.6	218.9	287.7
67.5°	0.0	0.0	6.3	12.5	18.8	37.5	56.3	100.1	125.1	193.9
70°	0.0	0.0	6.3	12.5	18.8	25.0	31.3	43.8	75.1	118.8
72.5°	0.0	0.0	6.3	12.5	18.8	25.0	31.3	37.5	37.5	75.1
75°	0.0	0.0	6.3	12.5	18.8	31.3	37.5	37.5	31.3	31.3
77.5°	0.0	0.0	6.3	12.5	25.0	37.5	43.8	37.5	25.0	25.0
80°	0.0	0.0	12.5	18.8	31.3	43.8	56.3	43.8	25.0	12.5
82.5°	0.0	0.0	12.5	25.0	31.3	50.0	68.8	56.3	25.0	12.5
85°	0.0	0.0	6.3	18.8	37.5	50.0	68.8	50.0	25.0	6.3
87.5°	0.0	0.0	6.3	6.3	12.5	18.8	37.5	31.3	12.5	6.3
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°
196239.0	0°	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0	196239.0
191541.9	2.5°	192642.7	193643.4	193849.8	193574.6	193974.9	193255.7	192705.3	191279.3	190422.4
179395.8	5°	180552.9	180402.8	181447.3	181791.3	181747.5	181197.1	180427.8	179564.7	178726.6
160657.6	7.5°	161658.3	161852.2	162802.8	163409.5	163103.0	162415.1	161883.4	161233.0	160670.1
140280.6	10°	141562.8	140230.6	141412.7	141412.7	142232.0	140286.9	140468.3	138829.6	138904.7
116864.0	12.5°	117264.3	117745.9	117939.8	118496.4	117539.5	116507.5	115244.1	114994.0	114212.2
87343.1	15°	88600.3	89976.2	88794.2	90814.3	89838.6	88762.9	88569.0	86630.1	87243.1
63351.1	17.5°	63038.4	64558.2	65033.6	66190.6	65302.5	64664.6	63857.7	63269.8	63226.0
44350.2	20°	44700.4	46226.5	46576.7	47965.2	47865.2	47665.0	46983.3	46239.0	45432.2
30190.1	22.5°	30646.7	31891.3	33054.7	34924.7	34893.5	34305.6	34236.8	33186.0	33204.8
20395.7	25°	20608.3	21515.2	21790.4	23704.3	23916.9	23854.4	23497.9	22522.2	22891.2
12458.8	27.5°	12471.3	13265.6	14197.6	14873.0	15511.0	15410.9	15054.4	14510.3	14272.6
7486.6	30°	7686.7	8043.2	8387.2	9200.3	9581.8	9781.9	9613.1	9106.5	9144.0
4928.5	32.5°	5034.8	5335.0	5585.2	6098.1	6298.2	6667.2	6598.4	6492.1	6367.0
3546.3	35°	3671.4	3890.3	4059.1	4296.8	4553.2	4865.9	4916.0	4872.2	4822.2
2739.4	37.5°	2802.0	3027.1	3221.0	3321.1	3521.2	3765.2	3902.8	3896.5	3859.0
2232.8	40°	2276.6	2445.5	2620.6	2751.9	2889.5	3070.9	3239.8	3258.6	3258.6
1876.3	42.5°	1901.3	2045.2	2220.3	2357.9	2458.0	2626.9	2802.0	2814.5	2802.0
1588.6	45°	1626.2	1751.2	1920.1	2082.7	2164.0	2289.1	2458.0	2495.5	2470.5
1363.5	47.5°	1413.5	1526.1	1669.9	1845.1	1932.6	2045.2	2201.6	2245.3	2239.1
1175.8	50°	1213.4	1344.7	1488.6	1632.4	1745.0	1851.3	2001.4	2051.5	2032.7
1000.7	52.5°	1069.5	1188.3	1313.4	1469.8	1601.1	1695.0	1813.8	1901.3	1876.3
844.3	55°	894.4	1038.2	1169.6	1300.9	1463.5	1563.6	1676.2	1782.5	1757.5
713.0	57.5°	775.5	894.4	1044.5	1163.3	1325.9	1444.8	1557.4	1669.9	1663.7
581.7	60°	650.5	775.5	919.4	1044.5	1194.6	1325.9	1438.5	1563.6	1576.1
437.8	62.5°	512.9	663.0	788.1	931.9	1082.0	1225.9	1325.9	1451.0	1469.8
331.5	65°	387.8	544.1	681.7	819.3	969.4	1125.8	1213.4	1319.7	1338.4
243.9	67.5°	287.7	419.0	581.7	706.8	863.1	1013.2	1094.5	1182.1	1213.4
150.1	70°	218.9	319.0	487.8	606.7	769.3	888.1	975.7	1050.7	1075.8
100.1	72.5°	137.6	250.2	394.0	519.1	663.0	769.3	831.8	875.6	913.1
56.3	75°	93.8	193.9	319.0	444.1	550.4	631.7	688.0	725.5	756.8
25.0	77.5°	56.3	150.1	262.7	369.0	437.8	500.4	556.6	581.7	600.4
18.8	80°	31.3	112.6	218.9	300.2	344.0	387.8	431.6	462.8	475.3
12.5	82.5°	18.8	87.6	175.1	231.4	250.2	294.0	337.7	356.5	356.5
6.3	85°	12.5	62.5	118.8	168.9	181.4	212.7	225.2	237.7	250.2
6.3	87.5°	12.5	37.5	75.1	93.8	100.1	112.6	118.8	131.3	143.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
196239.0
189790.7
177788.4
158762.5
138172.9
113499.2
86630.1
62062.7
45081.9
32842.0
22309.6
14066.2
8981.4
6323.2
4803.4
3840.2
3221.0
2789.5
2470.5
2226.6
2020.2
1870.1
1770.0
1669.9
1582.4
1482.3
1357.2
1225.9
1088.3
906.9
750.5
594.2
462.8
350.2
243.9
137.6
0.0

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