

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: P638641

Luminaire Tested: **EPH-VN-08-E-750-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638641
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-750-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67546.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

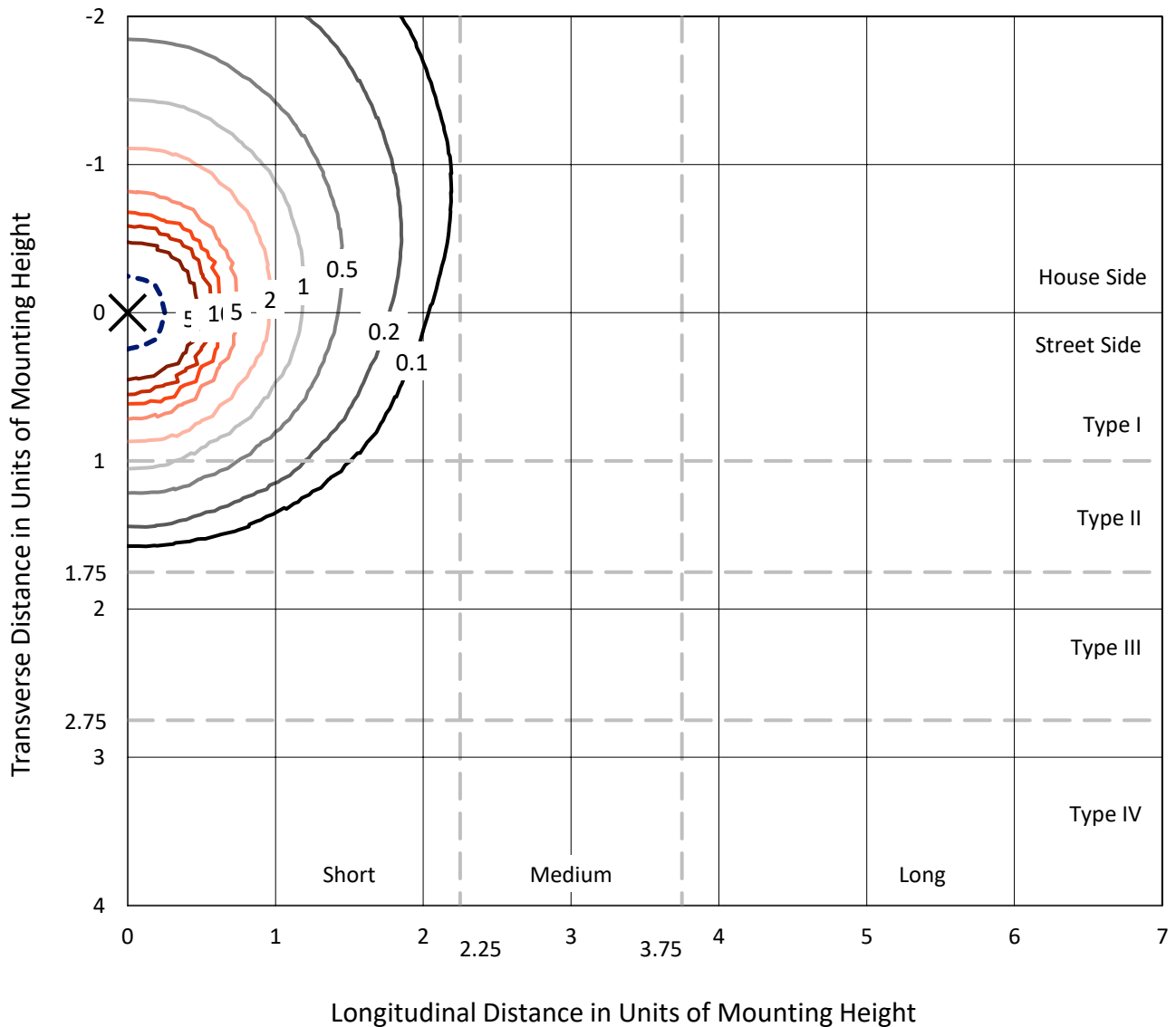
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

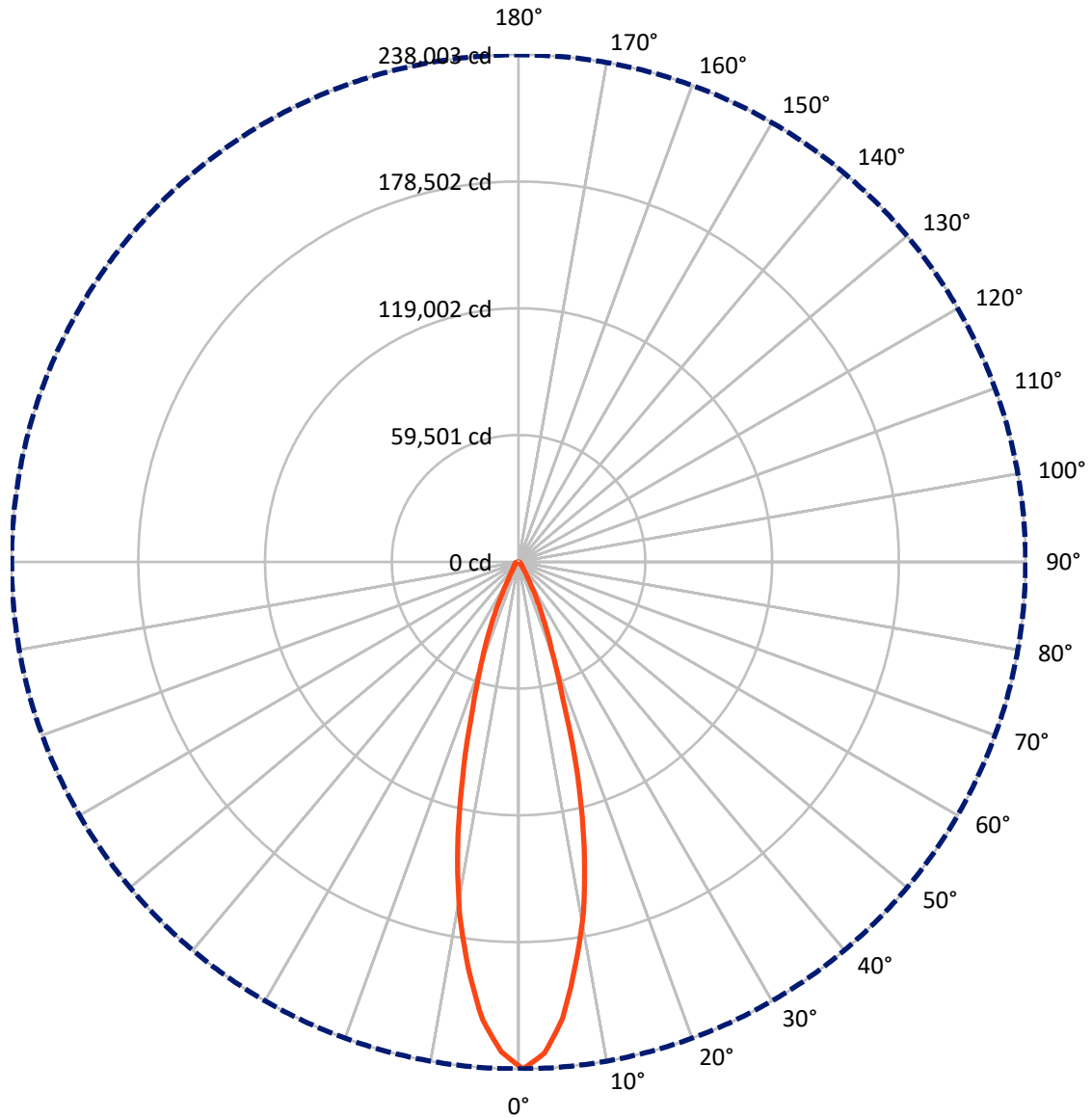
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 595 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	35614.8	0.0	35614.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	31931.2	0.0	31931.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	67546.1	0.0	67546.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19209.0	28.4
10°-20°	29091.9	43.1
20°-30°	12276.9	18.2
30°-40°	3201.9	4.7
40°-50°	1619.5	2.4
50°-60°	1058.6	1.6
60°-70°	634.2	0.9
70°-80°	333.6	0.5
80°-90°	120.5	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°	67546.1	100.0
0°-180°	67546.1	100.0

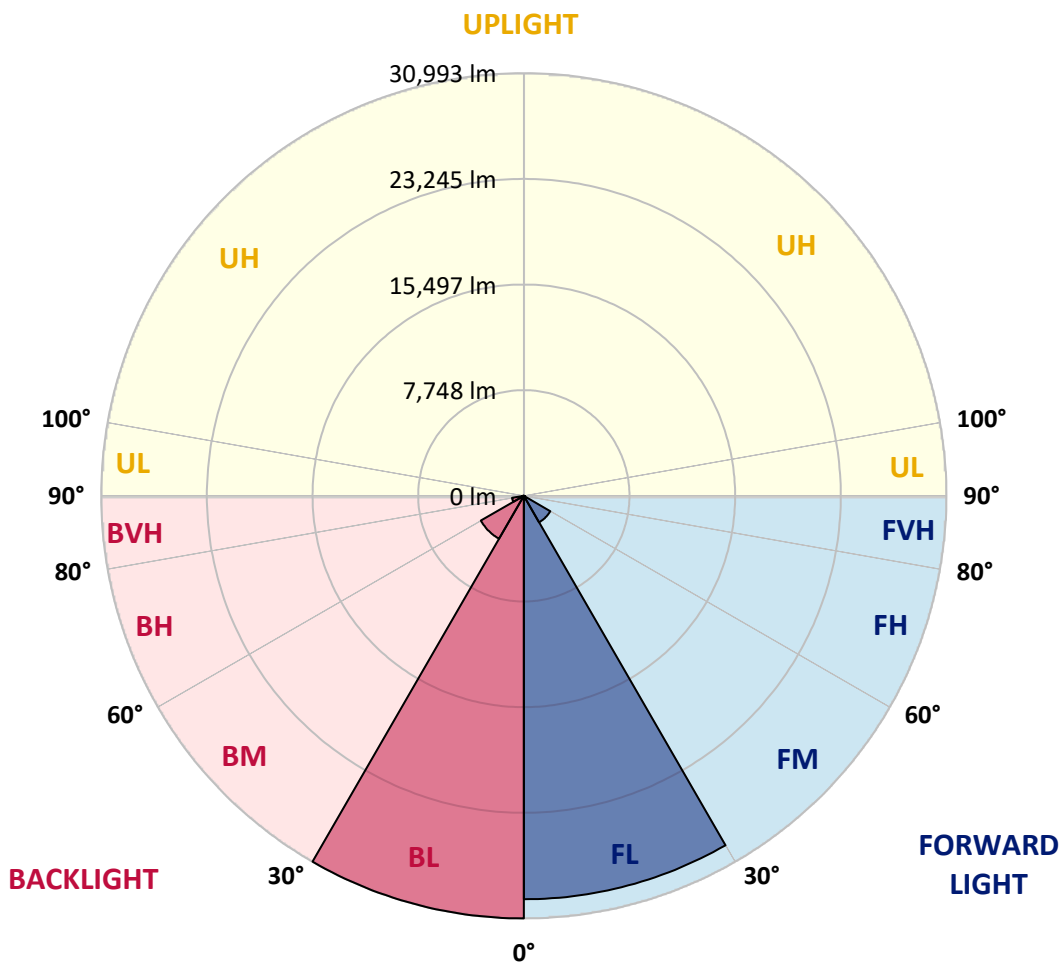


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	29584.7	43.8			
FM (30°-60°)	2240.5	3.3			
FH (60°-80°)	91.3	0.1			G0/660
FVH (80°-90°)	14.7	0.0			G1/100
BL (0°-30°)	30993.0	45.9	B5		
BM (30°-60°)	3639.5	5.4	B3/5000		
BH (60°-80°)	876.5	1.3	B2/1000		G1/1800
BVH (80°-90°)	105.9	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3
2.5°	231070.1	231199.1	230721.2	231752.8	230948.7	233103.0	232033.5	233702.3	233140.9	234074.0
5°	215292.2	215079.8	214943.3	216543.8	216081.1	218394.7	216915.5	216430.0	217932.0	217658.9
7.5°	191466.1	192027.4	191708.8	192126.0	192361.2	195001.0	195835.4	195183.0	195205.8	195585.0
10°	167040.7	166213.9	165038.2	165819.5	167473.1	168626.1	168163.4	169119.2	168906.8	169809.4
12.5°	136986.9	137639.3	136979.3	136281.4	139171.5	138852.9	139657.0	140180.4	138868.1	141788.5
15°	103185.8	103527.2	104331.2	104278.1	106500.7	106948.2	106842.0	107395.8	106371.7	106857.2
17.5°	66289.9	67442.9	69604.7	73260.9	77372.3	77850.2	77728.8	77273.7	76780.6	76234.5
20°	44527.0	44405.6	45186.9	46256.5	54767.5	57020.4	56952.1	55526.0	53462.7	53068.3
22.5°	31191.7	31419.2	31313.0	32375.0	34134.8	40347.4	39581.2	38132.4	37457.3	37017.3
25°	20518.8	20435.4	20966.4	21285.0	22794.5	23553.0	26238.3	25699.7	24660.5	24774.3
27.5°	12508.5	12614.7	12811.9	13085.0	14154.6	13911.8	15444.1	15648.9	15315.2	14958.6
30°	7676.5	7752.4	7911.7	8108.9	8480.6	8215.1	8639.9	9375.7	9254.3	9004.0
32.5°	5211.3	5218.8	5332.6	5408.5	5363.0	5112.6	5249.2	5947.0	5962.2	5939.5
35°	3747.2	3747.2	3853.4	3914.1	3785.2	3580.4	3603.1	4035.5	4225.1	4263.1
37.5°	2586.7	2594.2	2776.3	2958.4	2814.2	2761.1	2670.1	2958.4	3261.8	3307.3
40°	1964.6	1957.1	2048.1	2184.6	2199.8	2101.2	2131.5	2313.6	2624.6	2662.5
42.5°	1593.0	1600.5	1646.1	1630.9	1638.5	1767.4	1812.9	1896.4	2184.6	2252.9
45°	1342.6	1350.2	1373.0	1297.1	1266.8	1464.0	1524.7	1570.2	1812.9	1896.4
47.5°	1107.5	1122.7	1145.4	1062.0	1046.8	1175.8	1282.0	1327.5	1539.9	1630.9
50°	796.5	811.7	895.1	849.6	895.1	925.4	1069.6	1137.8	1282.0	1403.3
52.5°	576.5	591.7	614.4	622.0	735.8	751.0	857.2	963.4	1031.6	1168.2
55°	455.1	470.3	455.1	440.0	538.6	622.0	659.9	773.7	826.8	986.1
57.5°	257.9	273.1	295.8	341.3	356.5	477.9	515.8	614.4	659.9	811.7
60°	45.5	53.1	83.4	204.8	250.3	303.4	386.9	470.3	531.0	637.2
62.5°	7.6	7.6	15.2	45.5	144.1	212.4	280.7	333.8	386.9	485.5
65°	0.0	0.0	7.6	15.2	37.9	121.4	151.7	197.2	265.5	348.9
67.5°	0.0	0.0	7.6	15.2	22.8	45.5	68.3	121.4	151.7	235.2
70°	0.0	0.0	7.6	15.2	22.8	30.3	37.9	53.1	91.0	144.1
72.5°	0.0	0.0	7.6	15.2	22.8	30.3	37.9	45.5	45.5	91.0
75°	0.0	0.0	7.6	15.2	22.8	37.9	45.5	45.5	37.9	37.9
77.5°	0.0	0.0	7.6	15.2	30.3	45.5	53.1	45.5	30.3	30.3
80°	0.0	0.0	15.2	22.8	37.9	53.1	68.3	53.1	30.3	15.2
82.5°	0.0	0.0	15.2	30.3	37.9	60.7	83.4	68.3	30.3	15.2
85°	0.0	0.0	7.6	22.8	45.5	60.7	83.4	60.7	30.3	7.6
87.5°	0.0	0.0	7.6	7.6	15.2	22.8	45.5	37.9	15.2	7.6
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°
238003.3	0°	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3	238003.3
232306.5	2.5°	233641.6	234855.3	235105.6	234771.8	235257.3	234385.0	233717.4	231987.9	230948.7
217575.5	5°	218978.8	218796.7	220063.5	220480.7	220427.6	219760.1	218827.1	217780.3	216763.8
194849.2	7.5°	196062.9	196298.1	197451.1	198186.9	197815.2	196980.8	196336.0	195547.1	194864.4
170135.6	10°	171690.7	170074.9	171508.6	171508.6	172502.3	170143.2	170363.2	168375.8	168466.8
141735.4	12.5°	142220.9	142805.0	143040.1	143715.3	142554.7	141303.1	139770.8	139467.4	138519.2
105931.8	15°	107456.5	109125.3	107691.6	110141.7	108958.4	107653.7	107418.5	105067.0	105810.4
76833.7	17.5°	76454.5	78297.7	78874.2	80277.6	79200.4	78426.7	77448.2	76735.1	76682.0
53788.9	20°	54213.7	56064.6	56489.4	58173.4	58052.0	57809.2	56982.4	56079.7	55101.2
36615.3	22.5°	37169.0	38678.6	40089.5	42357.5	42319.6	41606.6	41523.1	40248.8	40271.5
24736.4	25°	24994.3	26094.2	26428.0	28749.1	29007.0	28931.2	28498.8	27315.5	27763.0
15110.4	27.5°	15125.5	16088.9	17219.1	18038.4	18812.1	18690.7	18258.3	17598.4	17310.2
9079.9	30°	9322.6	9755.0	10172.2	11158.3	11621.0	11863.8	11658.9	11044.5	11090.0
5977.4	32.5°	6106.3	6470.4	6773.9	7395.9	7638.6	8086.2	8002.7	7873.8	7722.1
4301.0	35°	4452.7	4718.2	4923.0	5211.3	5522.3	5901.5	5962.2	5909.1	5848.4
3322.5	37.5°	3398.3	3671.4	3906.5	4027.9	4270.6	4566.5	4733.4	4725.8	4680.3
2708.0	40°	2761.1	2965.9	3178.3	3337.6	3504.5	3724.5	3929.3	3952.1	3952.1
2275.7	42.5°	2306.0	2480.5	2692.9	2859.7	2981.1	3185.9	3398.3	3413.5	3398.3
1926.7	45°	1972.2	2123.9	2328.8	2526.0	2624.6	2776.3	2981.1	3026.6	2996.3
1653.6	47.5°	1714.3	1850.9	2025.3	2237.7	2343.9	2480.5	2670.1	2723.2	2715.6
1426.1	50°	1471.6	1630.9	1805.4	1979.8	2116.4	2245.3	2427.4	2488.1	2465.3
1213.7	52.5°	1297.1	1441.2	1593.0	1782.6	1941.9	2055.7	2199.8	2306.0	2275.7
1024.0	55°	1084.7	1259.2	1418.5	1577.8	1775.0	1896.4	2032.9	2161.9	2131.5
864.7	57.5°	940.6	1084.7	1266.8	1410.9	1608.1	1752.3	1888.8	2025.3	2017.7
705.5	60°	788.9	940.6	1115.1	1266.8	1448.8	1608.1	1744.7	1896.4	1911.6
531.0	62.5°	622.0	804.1	955.8	1130.2	1312.3	1486.8	1608.1	1759.8	1782.6
402.0	65°	470.3	659.9	826.8	993.7	1175.8	1365.4	1471.6	1600.5	1623.3
295.8	67.5°	348.9	508.2	705.5	857.2	1046.8	1228.9	1327.5	1433.7	1471.6
182.1	70°	265.5	386.9	591.7	735.8	933.0	1077.1	1183.3	1274.4	1304.7
121.4	72.5°	166.9	303.4	477.9	629.6	804.1	933.0	1008.9	1062.0	1107.5
68.3	75°	113.8	235.2	386.9	538.6	667.5	766.1	834.4	879.9	917.8
30.3	77.5°	68.3	182.1	318.6	447.5	531.0	606.8	675.1	705.5	728.2
22.8	80°	37.9	136.5	265.5	364.1	417.2	470.3	523.4	561.3	576.5
15.2	82.5°	22.8	106.2	212.4	280.7	303.4	356.5	409.6	432.4	432.4
7.6	85°	15.2	75.9	144.1	204.8	220.0	257.9	273.1	288.2	303.4
7.6	87.5°	15.2	45.5	91.0	113.8	121.4	136.5	144.1	159.3	174.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
238003.3
230182.6
215626.0
192550.8
167579.3
137654.4
105067.0
75271.1
54676.4
39831.6
27057.5
17059.8
10892.8
7669.0
5825.7
4657.5
3906.5
3383.1
2996.3
2700.4
2450.1
2268.1
2146.7
2025.3
1919.1
1797.8
1646.1
1486.8
1319.9
1099.9
910.3
720.6
561.3
424.8
295.8
166.9
0.0

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