

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: P638678

Luminaire Tested: **EPH-VN-03-E-735-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638678
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-735-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24990.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

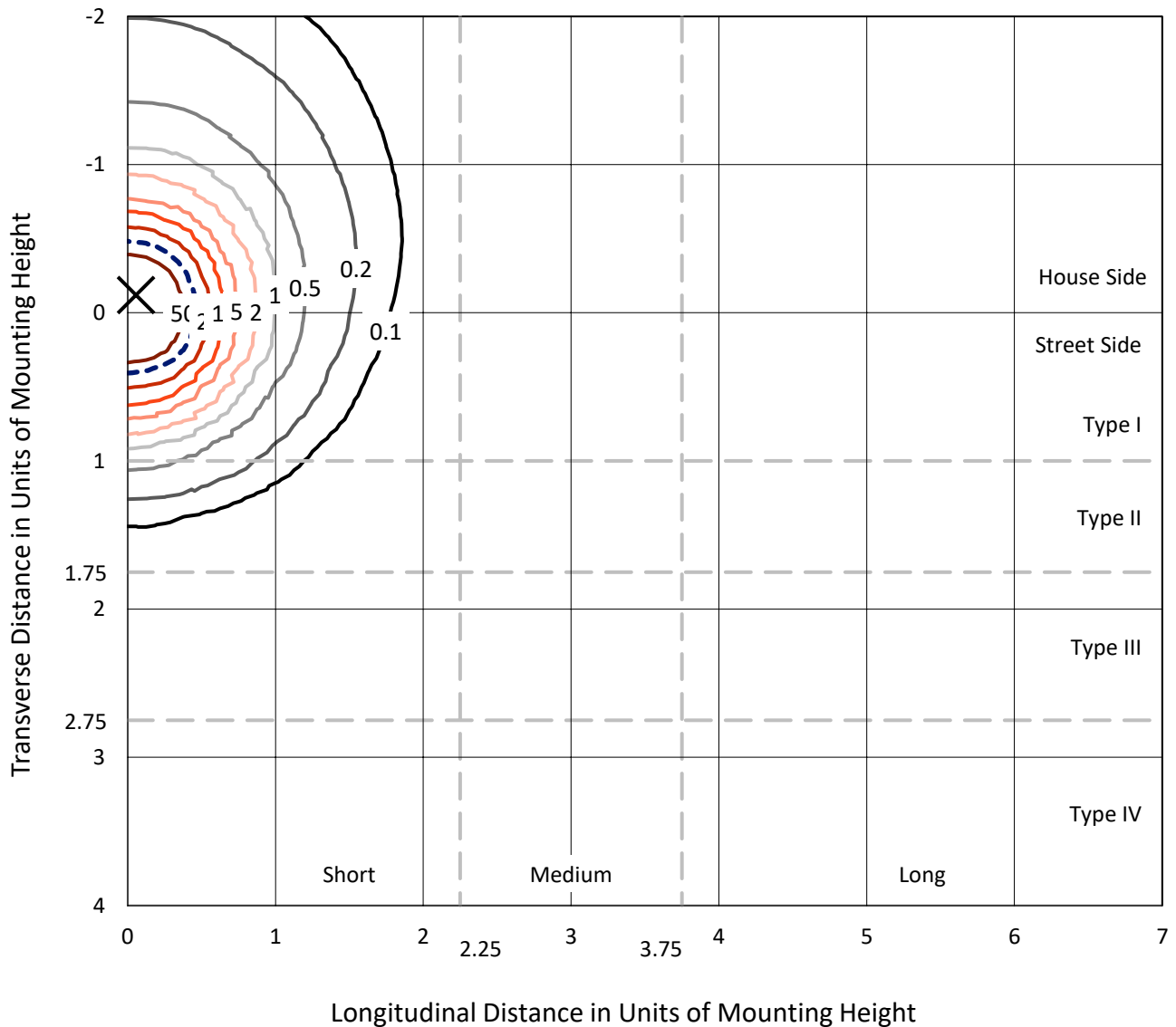
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

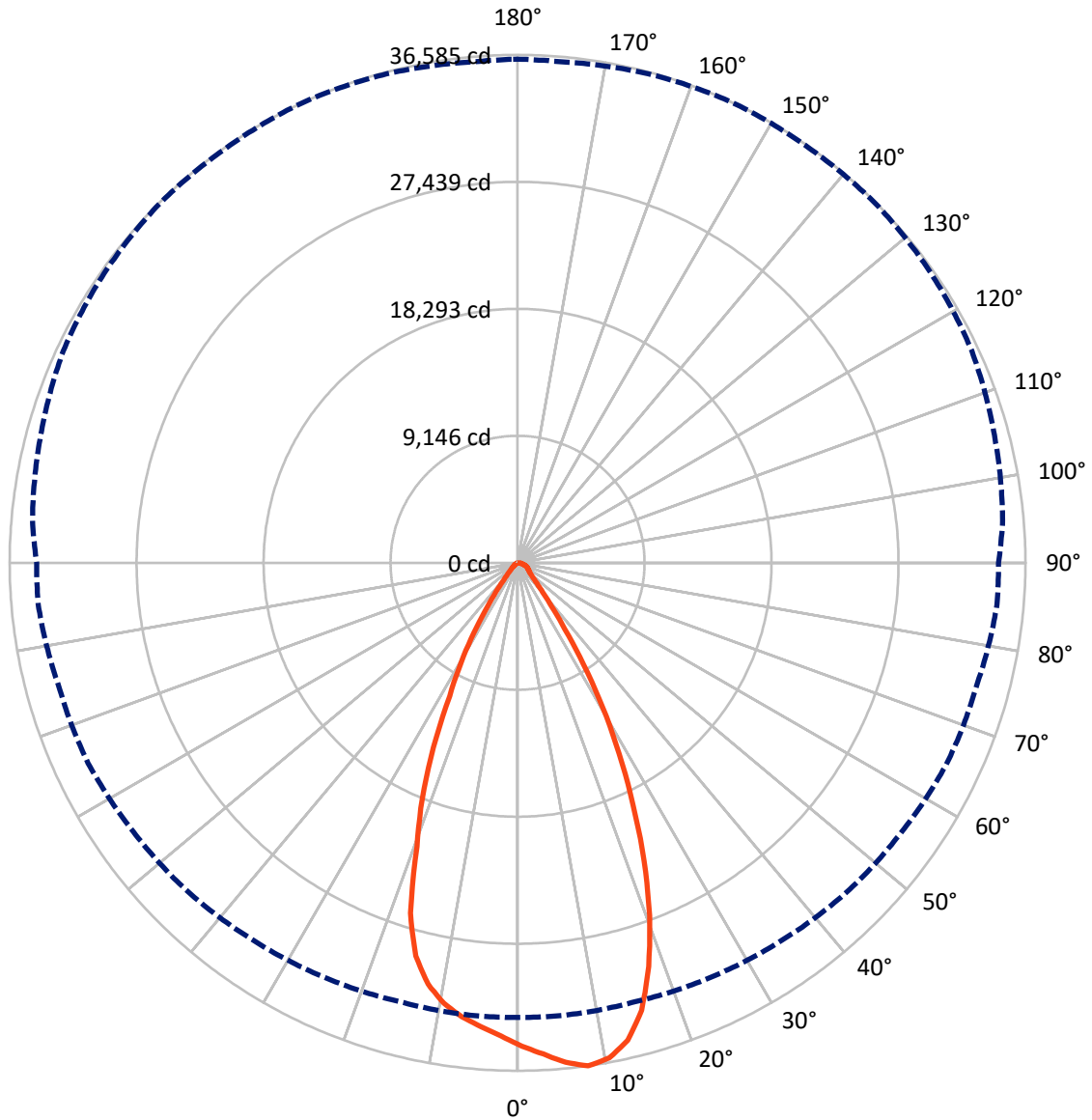
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 88.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13795.4	0.0	13795.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11194.6	0.0	11194.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	24990.1	0.0	24990.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3319.7	13.3
10°-20°	8607.9	34.4
20°-30°	7887.2	31.6
30°-40°	3186.4	12.8
40°-50°	934.8	3.7
50°-60°	522.6	2.1
60°-70°	317.4	1.3
70°-80°	161.3	0.6
80°-90°	52.8	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°	24990.1	100.0
0°-180°	24990.1	100.0

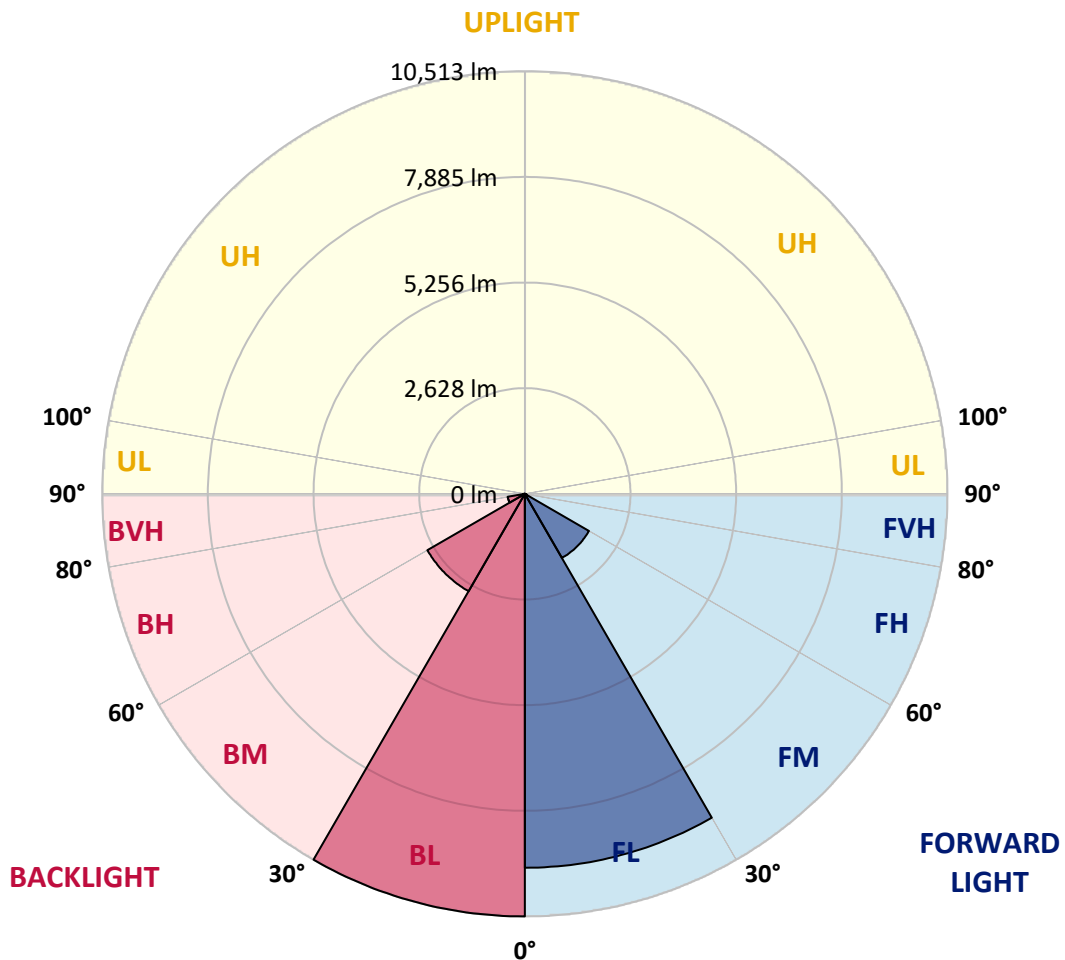


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9301.9	37.2			
FM (30°-60°)	1843.5	7.4			
FH (60°-80°)	44.7	0.2			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	10512.8	42.1	B5		
BM (30°-60°)	2800.4	11.2	B3/5000		
BH (60°-80°)	434.1	1.7	B1/500		G1/500
BVH (80°-90°)	48.2	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1
2.5°	34058.1	34173.4	33942.8	34095.6	34213.7	34496.1	34519.2	34617.1	34651.7	34908.2
5°	33412.6	33502.0	33314.6	33519.2	33686.4	33937.1	34130.1	34401.0	34550.9	34853.4
7.5°	32741.2	32761.4	32723.9	32940.0	33190.7	33536.5	33775.7	34130.1	34222.4	34654.6
10°	31928.6	31781.6	31853.7	32170.6	32545.2	33075.5	33239.7	33594.2	33758.4	34199.3
12.5°	30631.8	30706.8	30617.4	31020.9	31332.1	31934.3	32107.2	32464.6	32778.7	33167.7
15°	28804.9	28761.7	28943.2	29257.3	29594.4	30072.8	30352.3	30741.3	30980.5	31383.9
17.5°	24698.5	24845.5	25594.7	26381.4	27073.0	27632.0	27966.3	28289.1	28462.0	28900.0
20°	21329.9	21145.5	21246.3	21690.1	23658.3	24514.1	24865.7	24943.5	25015.5	25361.3
22.5°	17563.6	17503.1	17840.2	18338.8	18805.6	20779.5	21257.9	21076.3	21226.2	21551.8
25°	13042.3	13347.8	13647.4	14604.2	15209.3	16177.5	17085.2	17165.9	17220.7	17425.3
27.5°	10616.0	10509.3	10503.6	10771.6	11664.9	12471.7	13244.0	13422.7	13391.0	13586.9
30°	8345.2	8310.7	8189.6	8253.0	8163.7	8881.2	9244.3	9979.1	9938.8	9944.5
32.5°	6019.7	5890.1	5841.1	5936.2	5844.0	5777.7	6094.7	6924.6	6910.2	6967.8
35°	3642.4	3625.1	3665.4	3749.0	3564.6	3558.8	3625.1	4406.0	4501.1	4593.3
37.5°	2011.4	1994.1	2025.8	2334.1	2273.6	2218.9	2236.2	2648.2	2922.0	2991.1
40°	1325.6	1322.7	1345.7	1400.5	1504.2	1484.0	1492.7	1677.1	1936.5	1997.0
42.5°	887.5	890.4	904.8	968.2	982.6	1086.4	1069.1	1112.3	1354.4	1406.2
45°	708.9	706.0	714.6	685.8	703.1	809.7	821.3	824.1	1031.6	1063.3
47.5°	559.0	559.0	567.7	530.2	521.6	587.9	648.4	657.0	824.1	867.4
50°	391.9	391.9	435.1	417.8	438.0	458.2	524.5	533.1	674.3	720.4
52.5°	288.2	293.9	299.7	302.6	368.8	366.0	423.6	463.9	510.1	590.7
55°	219.0	224.8	210.4	224.8	273.8	305.5	317.0	374.6	406.3	495.6
57.5°	144.1	158.5	147.0	172.9	184.4	236.3	253.6	308.3	328.5	406.3
60°	20.2	23.1	37.5	121.0	129.7	155.6	196.0	244.9	265.1	331.4
62.5°	2.9	2.9	8.6	20.2	86.4	103.7	147.0	170.0	196.0	247.8
65°	0.0	0.0	2.9	5.8	17.3	60.5	74.9	92.2	135.4	178.7
67.5°	0.0	0.0	2.9	5.8	8.6	20.2	31.7	60.5	77.8	123.9
70°	0.0	0.0	2.9	5.8	8.6	11.5	17.3	23.1	46.1	72.0
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	17.3	20.2	46.1
75°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	17.3	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	11.5	17.3	20.2	17.3	14.4	14.4
80°	0.0	0.0	2.9	8.6	14.4	20.2	23.1	17.3	11.5	8.6
82.5°	0.0	0.0	2.9	8.6	14.4	20.2	23.1	20.2	11.5	8.6
85°	0.0	0.0	2.9	8.6	11.5	14.4	23.1	20.2	11.5	5.8
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	11.5	8.6	5.8	2.9
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°
34813.1	0°	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1	34813.1
34902.4	2.5°	35161.8	35291.4	35519.1	35582.5	35778.4	35553.7	35429.8	35441.3	35173.3
34816.0	5°	35161.8	35458.6	35856.3	36046.4	36190.5	36179.0	36147.3	36066.6	35870.7
34643.1	7.5°	35069.6	35553.7	36101.2	36354.8	36527.7	36513.3	36585.3	36455.6	36216.5
34334.7	10°	34772.8	35193.5	35867.8	36075.3	36354.8	36360.5	36271.2	36297.1	35870.7
33208.0	12.5°	33839.1	34167.6	34758.3	34994.6	35334.7	35389.4	35291.4	35254.0	34850.6
31360.9	15°	32032.3	32222.5	32816.1	33052.4	33389.6	33343.5	33441.4	33401.1	33046.7
28865.4	17.5°	29389.8	29450.4	30072.8	30271.6	30588.6	30712.5	30565.6	30752.9	30447.4
25421.8	20°	25600.5	25926.1	26626.4	26931.8	27116.2	27338.1	27145.1	27355.4	26998.1
21243.5	22.5°	21756.4	21949.5	22583.4	23024.3	23367.2	23410.4	23338.4	23485.4	23004.1
17560.7	25°	17557.8	17877.7	18379.1	18955.4	19292.6	19500.1	19312.8	19407.8	19330.0
13618.6	27.5°	13849.2	14134.4	14511.9	14941.3	15448.5	15719.3	15569.5	15730.9	15350.5
10154.9	30°	10163.5	10307.6	10734.1	11189.4	11745.6	12074.1	12088.5	12252.7	12028.0
7114.8	32.5°	7166.6	7293.4	7555.7	7858.2	8388.5	8754.4	8696.8	8719.8	8581.5
4636.6	35°	4659.6	4829.6	5016.9	5161.0	5480.9	5884.3	5852.6	5823.8	5728.7
3048.8	37.5°	3115.1	3181.3	3285.1	3414.7	3622.2	3875.8	3959.4	3855.6	3815.3
2057.5	40°	2106.5	2221.7	2290.9	2388.9	2486.9	2700.1	2757.7	2737.6	2697.2
1440.8	42.5°	1495.6	1584.9	1671.4	1766.4	1818.3	1950.9	2063.3	2031.6	2014.3
1095.0	45°	1135.4	1216.1	1316.9	1389.0	1440.8	1518.6	1625.2	1636.8	1610.8
878.9	47.5°	910.6	982.6	1063.3	1152.7	1213.2	1262.2	1354.4	1389.0	1371.7
740.6	50°	772.3	827.0	904.8	994.2	1060.4	1103.7	1184.4	1221.8	1210.3
619.6	52.5°	657.0	723.3	795.3	870.3	950.9	994.2	1069.1	1123.8	1115.2
512.9	55°	544.6	631.1	706.0	780.9	873.1	916.4	982.6	1054.7	1040.3
435.1	57.5°	475.5	547.5	625.3	697.4	795.3	853.0	913.5	988.4	985.5
357.3	60°	397.7	469.7	556.2	616.7	720.4	801.1	855.8	933.7	939.4
270.9	62.5°	317.0	406.3	472.6	556.2	651.3	746.3	798.2	876.0	904.8
207.5	65°	236.3	334.3	409.2	492.8	582.1	688.7	734.8	812.6	841.4
149.8	67.5°	175.8	250.7	345.8	417.8	518.7	610.9	665.7	737.7	757.9
89.3	70°	132.6	193.1	288.2	351.6	455.3	530.2	585.0	639.7	665.7
60.5	72.5°	77.8	144.1	227.6	302.6	391.9	455.3	495.6	538.9	556.2
28.8	75°	54.8	109.5	178.7	250.7	317.0	368.8	406.3	443.8	461.1
14.4	77.5°	28.8	80.7	141.2	201.7	247.8	291.0	328.5	357.3	368.8
11.5	80°	17.3	57.6	115.3	158.5	190.2	227.6	265.1	285.3	282.4
8.6	82.5°	11.5	46.1	83.6	115.3	138.3	167.1	193.1	207.5	207.5
5.8	85°	8.6	31.7	57.6	89.3	92.2	115.3	121.0	135.4	138.3
5.8	87.5°	5.8	20.2	31.7	51.9	49.0	60.5	63.4	72.0	77.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
34813.1
34957.2
35934.1
36271.2
35746.7
34758.3
33159.0
30372.5
26969.3
22937.9
19281.1
15448.5
12068.3
8659.3
5645.1
3806.6
2703.0
1999.9
1608.0
1363.0
1207.4
1109.4
1040.3
982.6
939.4
902.0
838.6
757.9
659.9
550.4
455.3
366.0
279.5
204.6
135.4
74.9
0.0

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