

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: P638703

Luminaire Tested: **EPH-VN-04-E-930-U-55-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638703
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-930-U-55-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21026 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

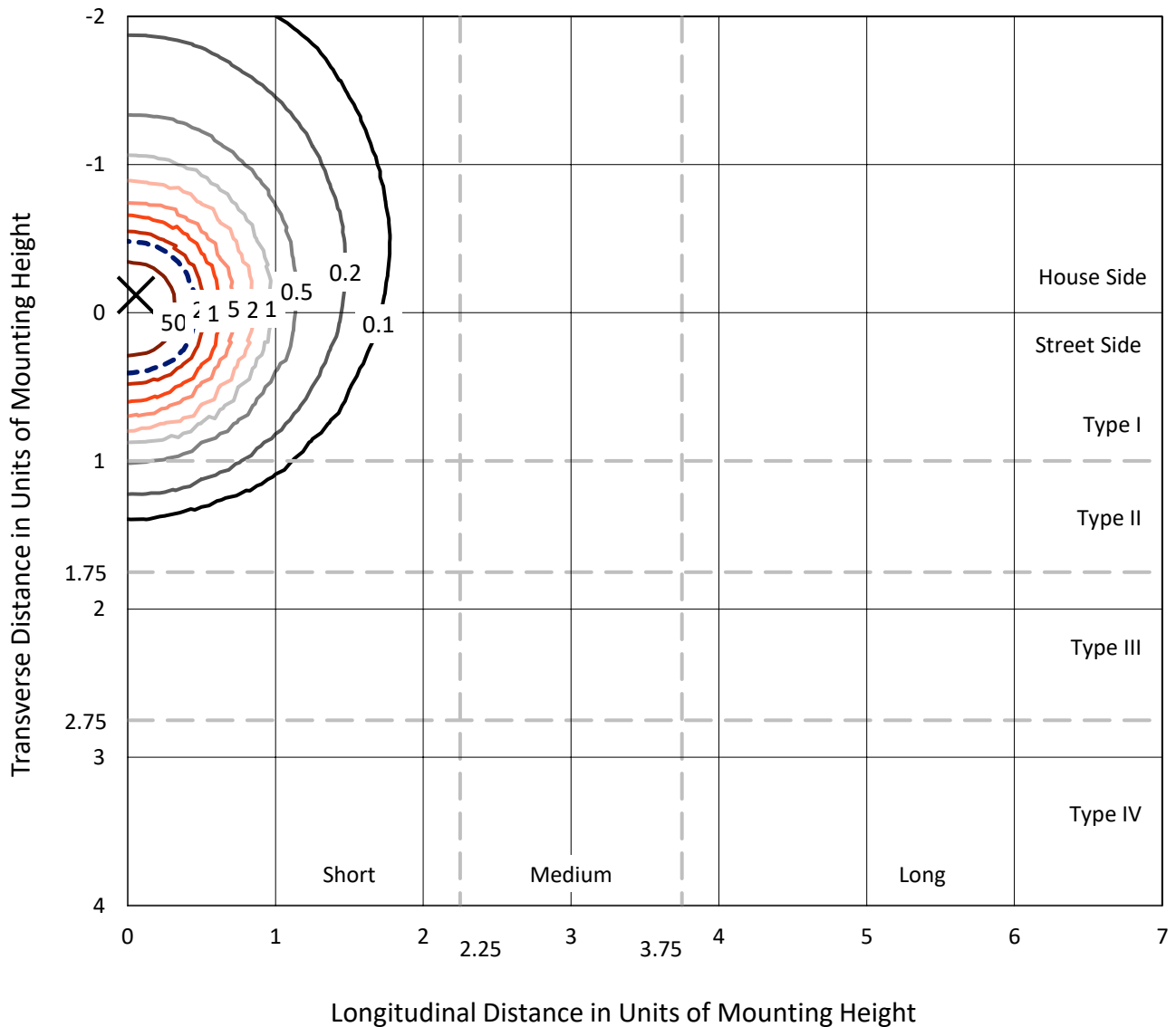
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

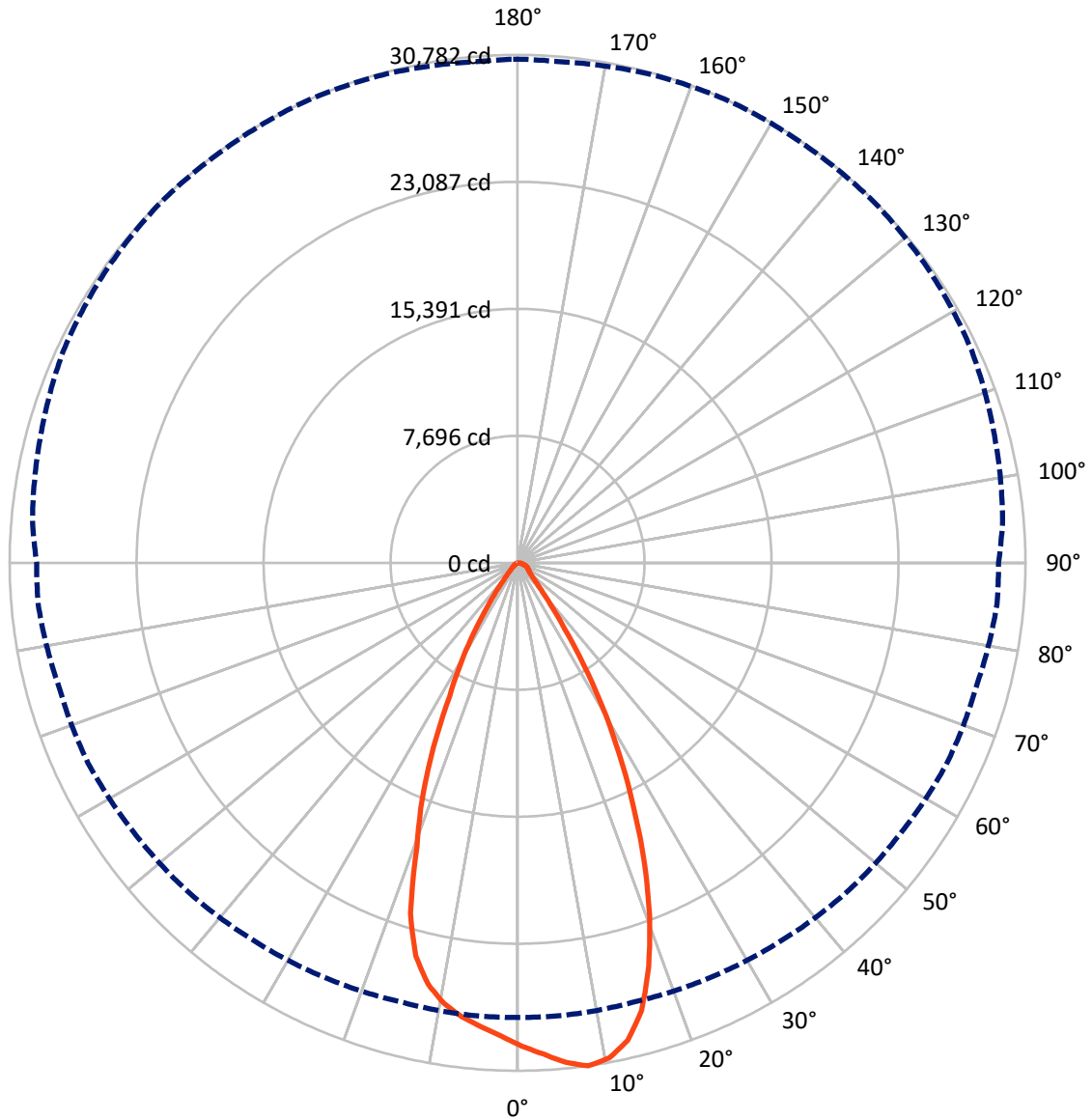
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 74.4 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	11607.1	0.0	11607.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9418.9	0.0	9418.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	21026.0	0.0	21026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2793.1	13.3
10°-20°	7242.5	34.4
20°-30°	6636.1	31.6
30°-40°	2681.0	12.8
40°-50°	786.5	3.7
50°-60°	439.7	2.1
60°-70°	267.1	1.3
70°-80°	135.7	0.6
80°-90°	44.4	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°	21026.0	100.0
0°-180°	21026.0	100.0

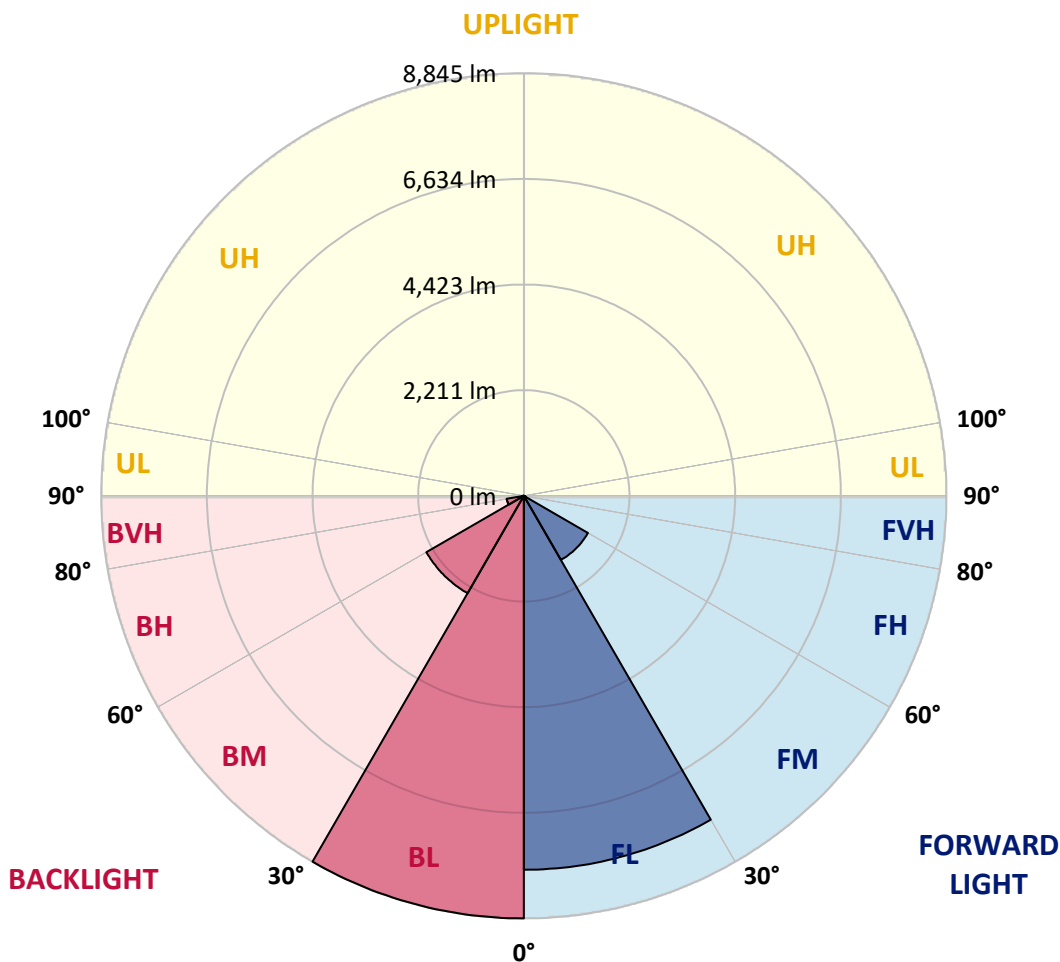


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7826.4	37.2			
FM (30°-60°)	1551.1	7.4			
FH (60°-80°)	37.6	0.2			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	8845.2	42.1	B5		
BM (30°-60°)	2356.1	11.2	B2/2500		
BH (60°-80°)	365.2	1.7	B1/500		G1/500
BVH (80°-90°)	40.5	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°	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9
2.5°	28655.6	28752.6	28558.7	28687.2	28786.6	29024.2	29043.6	29126.0	29155.1	29370.9
5°	28112.5	28187.7	28030.1	28202.3	28342.9	28553.8	28716.3	28944.2	29070.2	29324.8
7.5°	27547.6	27564.6	27533.1	27714.9	27925.9	28216.8	28418.0	28716.3	28793.8	29157.5
10°	26863.9	26740.3	26800.9	27067.6	27382.8	27828.9	27967.1	28265.3	28403.5	28774.4
12.5°	25772.9	25835.9	25760.7	26100.2	26362.0	26868.8	27014.2	27314.9	27579.2	27906.5
15°	24235.7	24199.3	24352.1	24616.4	24900.0	25302.5	25537.7	25865.0	26066.2	26405.7
17.5°	20780.7	20904.4	21534.8	22196.7	22778.6	23248.9	23530.2	23801.7	23947.2	24315.7
20°	17946.5	17791.3	17876.1	18249.5	19905.5	20625.6	20921.4	20986.8	21047.4	21338.4
22.5°	14777.6	14726.7	15010.3	15429.8	15822.6	17483.4	17885.8	17733.1	17859.2	18133.1
25°	10973.5	11230.5	11482.6	12287.6	12796.7	13611.4	14375.1	14443.0	14489.1	14661.2
27.5°	8932.0	8842.3	8837.5	9062.9	9814.5	10493.4	11143.2	11293.5	11266.8	11431.7
30°	7021.5	6992.4	6890.5	6943.9	6868.7	7472.4	7777.9	8396.2	8362.2	8367.1
32.5°	5064.9	4955.8	4914.5	4994.6	4917.0	4861.2	5127.9	5826.2	5814.0	5862.5
35°	3064.6	3050.1	3084.0	3154.3	2999.2	2994.3	3050.1	3707.1	3787.1	3864.7
37.5°	1692.3	1677.8	1704.5	1963.9	1913.0	1866.9	1881.4	2228.2	2458.5	2516.7
40°	1115.3	1112.9	1132.3	1178.3	1265.6	1248.6	1255.9	1411.1	1629.3	1680.2
42.5°	746.8	749.2	761.3	814.6	826.8	914.1	899.5	935.9	1139.5	1183.2
45°	596.4	594.0	601.3	577.0	591.6	681.3	691.0	693.4	868.0	894.7
47.5°	470.4	470.4	477.6	446.1	438.8	494.6	545.5	552.8	693.4	729.8
50°	329.7	329.7	366.1	351.6	368.5	385.5	441.3	448.5	567.3	606.1
52.5°	242.5	247.3	252.2	254.6	310.3	307.9	356.4	390.4	429.1	497.0
55°	184.3	189.1	177.0	189.1	230.3	257.0	266.7	315.2	341.9	417.0
57.5°	121.2	133.3	123.7	145.5	155.2	198.8	213.4	259.4	276.4	341.9
60°	17.0	19.4	31.5	101.8	109.1	130.9	164.9	206.1	223.1	278.8
62.5°	2.4	2.4	7.3	17.0	72.7	87.3	123.7	143.0	164.9	208.5
65°	0.0	0.0	2.4	4.8	14.5	50.9	63.0	77.6	114.0	150.3
67.5°	0.0	0.0	2.4	4.8	7.3	17.0	26.7	50.9	65.5	104.3
70°	0.0	0.0	2.4	4.8	7.3	9.7	14.5	19.4	38.8	60.6
72.5°	0.0	0.0	2.4	4.8	7.3	9.7	12.1	14.5	17.0	38.8
75°	0.0	0.0	2.4	4.8	7.3	12.1	14.5	14.5	14.5	17.0
77.5°	0.0	0.0	2.4	4.8	9.7	14.5	17.0	14.5	12.1	12.1
80°	0.0	0.0	2.4	7.3	12.1	17.0	19.4	14.5	9.7	7.3
82.5°	0.0	0.0	2.4	7.3	12.1	17.0	19.4	17.0	9.7	7.3
85°	0.0	0.0	2.4	7.3	9.7	12.1	19.4	17.0	9.7	4.8
87.5°	0.0	0.0	0.0	2.4	2.4	4.8	9.7	7.3	4.8	2.4
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°
29290.9	0°	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9	29290.9
29366.0	2.5°	29584.2	29693.4	29884.9	29938.2	30103.1	29914.0	29809.7	29819.4	29593.9
29293.3	5°	29584.2	29834.0	30168.6	30328.6	30449.8	30440.1	30413.4	30345.6	30180.7
29147.8	7.5°	29506.7	29914.0	30374.6	30588.0	30733.5	30721.4	30782.0	30672.9	30471.6
28888.4	10°	29256.9	29610.9	30178.3	30352.8	30588.0	30592.9	30517.7	30539.5	30180.7
27940.4	12.5°	28471.4	28747.8	29244.8	29443.6	29729.7	29775.8	29693.4	29661.8	29322.4
26386.3	15°	26951.2	27111.2	27610.7	27809.5	28093.2	28054.4	28136.8	28102.9	27804.6
24286.6	17.5°	24727.9	24778.8	25302.5	25469.8	25736.5	25840.8	25717.1	25874.7	25617.7
21389.3	20°	21539.6	21813.6	22402.8	22659.8	22814.9	23001.6	22839.2	23016.2	22715.5
17873.7	22.5°	18305.3	18467.7	19001.1	19372.1	19660.6	19697.0	19636.4	19760.0	19355.1
14775.2	25°	14772.7	15041.9	15463.7	15948.6	16232.3	16406.9	16249.3	16329.3	16263.8
11458.4	27.5°	11652.3	11892.4	12210.0	12571.2	12998.0	13225.9	13099.8	13235.6	12915.5
8544.1	30°	8551.4	8672.6	9031.4	9414.5	9882.4	10158.8	10170.9	10309.1	10120.0
5986.2	32.5°	6029.8	6136.5	6357.1	6611.7	7057.8	7365.8	7317.3	7336.7	7220.3
3901.1	35°	3920.5	4063.5	4221.1	4342.4	4611.5	4950.9	4924.2	4900.0	4820.0
2565.2	37.5°	2620.9	2676.7	2764.0	2873.1	3047.6	3261.0	3331.3	3244.0	3210.1
1731.1	40°	1772.3	1869.3	1927.5	2009.9	2092.4	2271.8	2320.3	2303.3	2269.4
1212.3	42.5°	1258.3	1333.5	1406.2	1486.2	1529.9	1641.4	1736.0	1709.3	1694.8
921.3	45°	955.3	1023.2	1108.0	1168.6	1212.3	1277.7	1367.4	1377.1	1355.3
739.5	47.5°	766.2	826.8	894.7	969.8	1020.7	1061.9	1139.5	1168.6	1154.1
623.1	50°	649.8	695.8	761.3	836.5	892.2	928.6	996.5	1028.0	1018.3
521.3	52.5°	552.8	608.6	669.2	732.2	800.1	836.5	899.5	945.6	938.3
431.6	55°	458.2	531.0	594.0	657.1	734.6	771.0	826.8	887.4	875.3
366.1	57.5°	400.0	460.7	526.1	586.7	669.2	717.7	768.6	831.6	829.2
300.6	60°	334.6	395.2	467.9	518.9	606.1	674.0	720.1	785.6	790.4
227.9	62.5°	266.7	341.9	397.6	467.9	547.9	628.0	671.6	737.1	761.3
174.6	65°	198.8	281.2	344.3	414.6	489.8	579.5	618.3	683.7	708.0
126.1	67.5°	147.9	210.9	290.9	351.6	436.4	514.0	560.1	620.7	637.7
75.2	70°	111.5	162.4	242.5	295.8	383.1	446.1	492.2	538.2	560.1
50.9	72.5°	65.5	121.2	191.5	254.6	329.7	383.1	417.0	453.4	467.9
24.2	75°	46.1	92.1	150.3	210.9	266.7	310.3	341.9	373.4	387.9
12.1	77.5°	24.2	67.9	118.8	169.7	208.5	244.9	276.4	300.6	310.3
9.7	80°	14.5	48.5	97.0	133.3	160.0	191.5	223.1	240.0	237.6
7.3	82.5°	9.7	38.8	70.3	97.0	116.4	140.6	162.4	174.6	174.6
4.8	85°	7.3	26.7	48.5	75.2	77.6	97.0	101.8	114.0	116.4
4.8	87.5°	4.8	17.0	26.7	43.6	41.2	50.9	53.3	60.6	65.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
29290.9
29412.1
30234.0
30517.7
30076.4
29244.8
27899.2
25554.7
22691.3
19299.3
16222.6
12998.0
10154.0
7285.7
4749.7
3202.8
2274.2
1682.6
1352.9
1146.8
1015.9
933.4
875.3
826.8
790.4
758.9
705.5
637.7
555.2
463.1
383.1
307.9
235.2
172.1
114.0
63.0
0.0

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