

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: P638813

Luminaire Tested: **EPH-VN-07-E-930-U-77-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638813
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-930-U-77-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27789.8 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

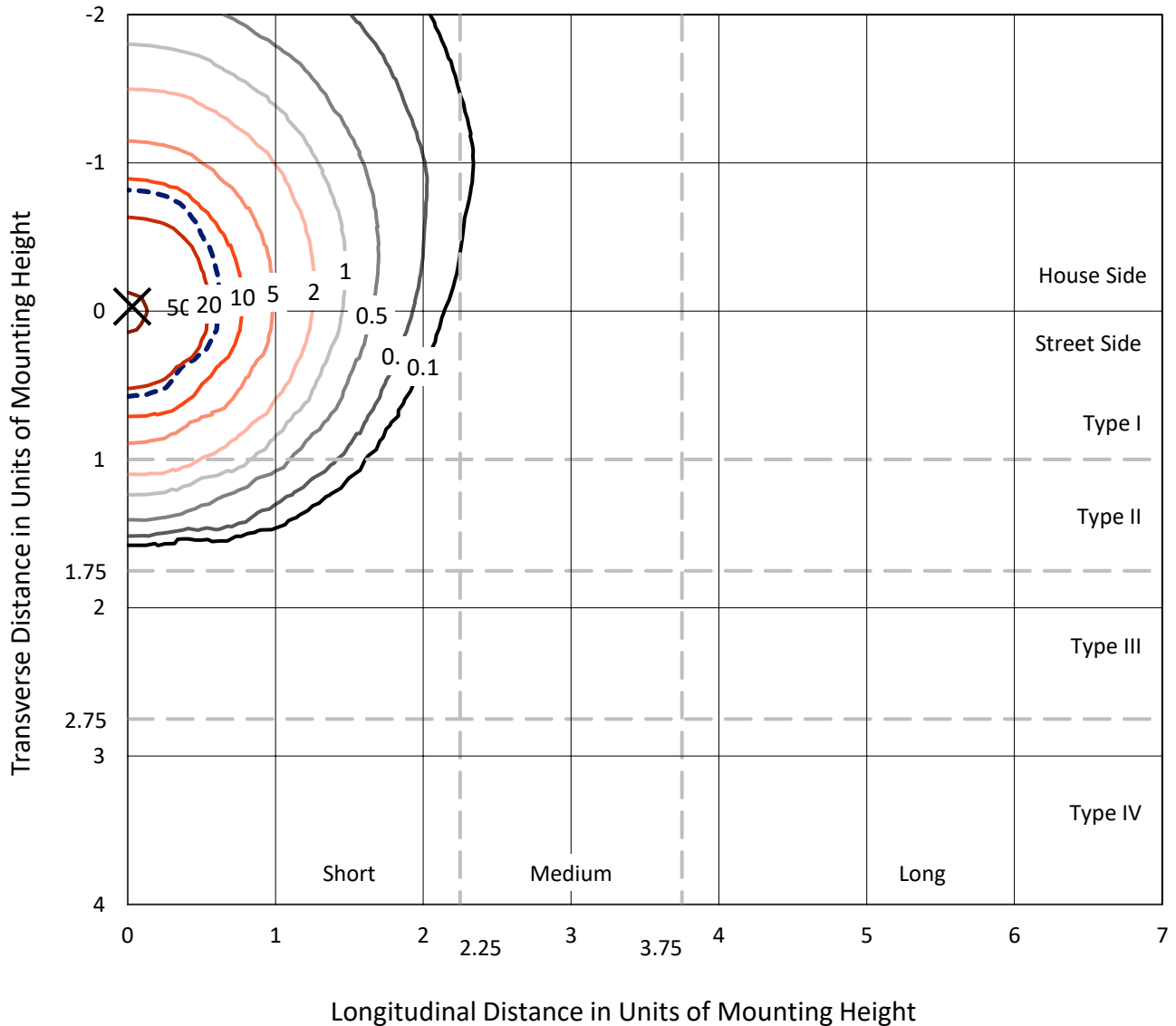
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

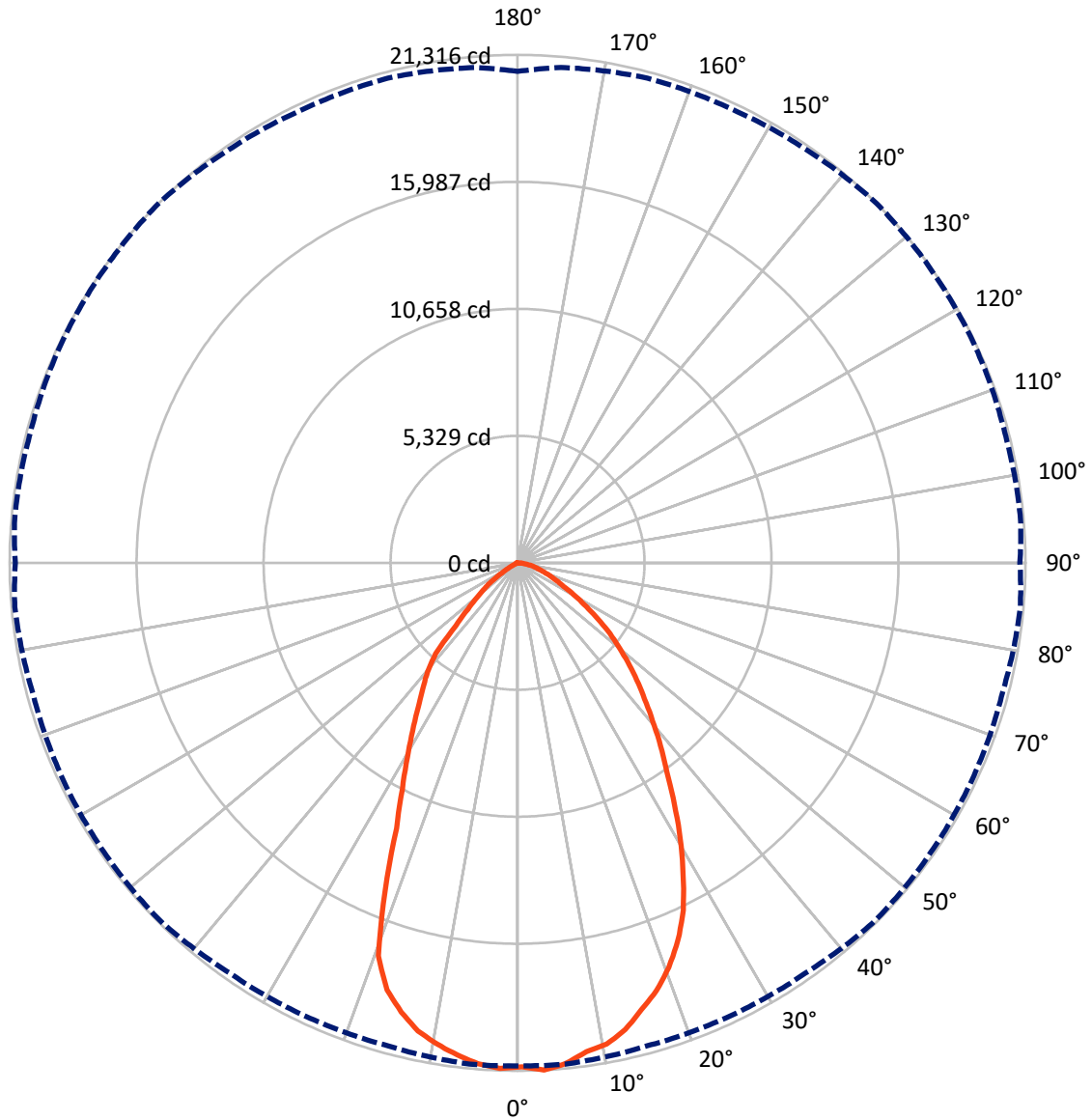
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16458.5	0.0	16458.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11331.3	0.0	11331.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	27789.8	0.0	27789.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1983.3	7.1
10°-20°	5318.5	19.1
20°-30°	6486.2	23.3
30°-40°	5921.8	21.3
40°-50°	4279.5	15.4
50°-60°	2336.7	8.4
60°-70°	966.1	3.5
70°-80°	391.3	1.4
80°-90°	106.4	0.4
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°	27789.8	100.0
0°-180°	27789.8	100.0

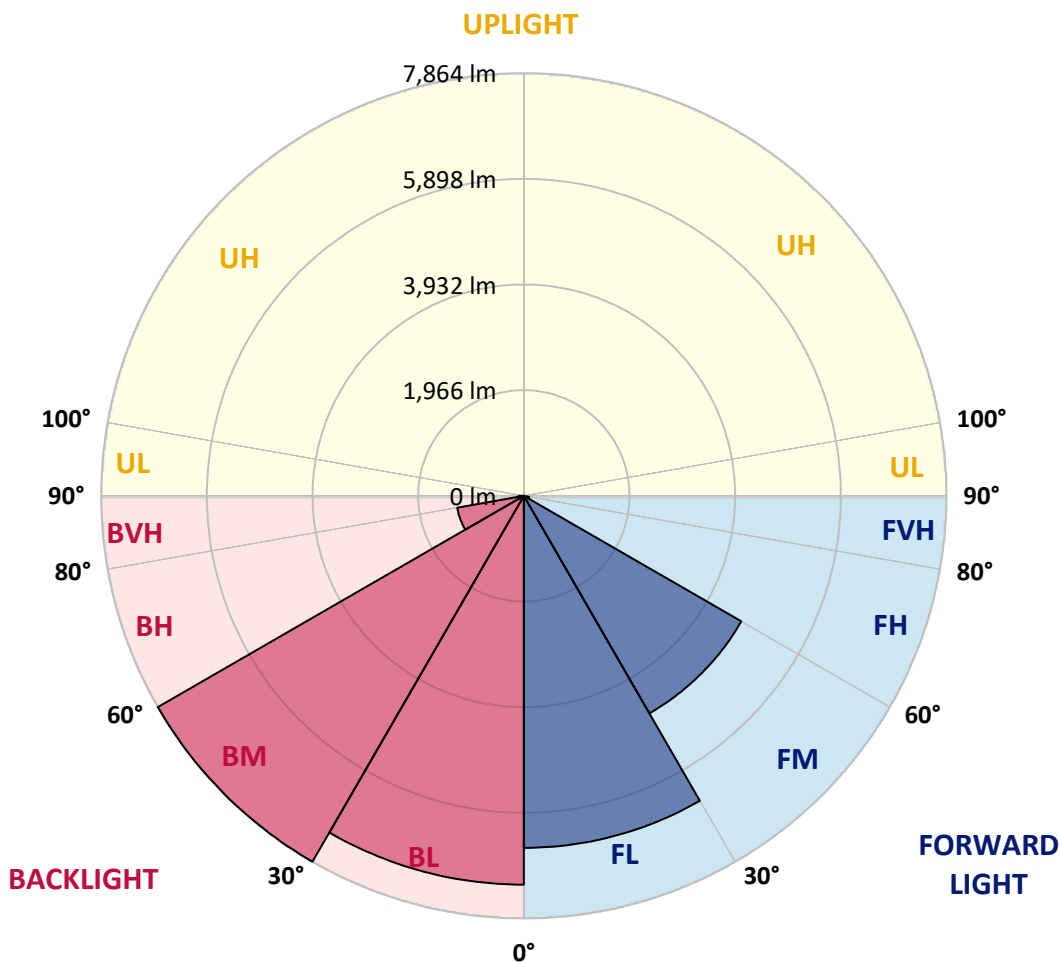


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6551.1	23.6			
FM (30°-60°)	4673.7	16.8			
FH (60°-80°)	97.9	0.4			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	7236.9	26.0	B5		
BM (30°-60°)	7864.3	28.3	B4/8500		
BH (60°-80°)	1259.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	97.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0
2.5°	21108.8	21136.2	20987.5	21003.2	21030.5	21230.1	21179.3	21132.3	21065.8	21179.3
5°	21081.4	21097.1	20940.5	20885.8	20909.2	21089.2	20924.9	20924.9	20909.2	20889.7
7.5°	20870.1	20877.9	20756.6	20658.8	20721.4	20803.6	20682.3	20741.0	20654.9	20721.4
10°	20553.1	20502.2	20357.4	20330.1	20400.5	20478.8	20396.6	20451.4	20373.1	20424.0
12.5°	20087.4	20009.2	19891.8	19856.5	19977.8	20083.5	20017.0	19985.7	19883.9	20009.2
15°	18291.2	18232.5	18498.6	18964.3	19383.0	19473.0	19402.6	19433.9	19222.6	19257.8
17.5°	15054.8	14945.2	15230.9	16334.5	17907.7	18737.3	18674.7	18471.2	18158.1	18228.6
20°	13681.2	13649.9	13618.6	13880.8	14980.5	17496.8	17582.9	17066.3	16620.2	16522.3
22.5°	12906.4	12894.6	12863.3	12922.0	13211.6	14827.8	15814.0	15336.6	15039.2	15011.8
25°	12198.0	12178.5	12084.5	12158.9	12158.9	12252.8	13516.8	13806.4	13544.2	13512.9
27.5°	11478.0	11442.7	11427.1	11462.3	11282.3	10648.3	10969.2	12382.0	12245.0	12252.8
30°	10699.2	10687.5	10644.4	10718.8	10163.1	9376.5	9173.0	11090.5	11117.9	11110.1
32.5°	9540.8	9591.7	9787.4	9869.6	8953.8	8304.2	7963.7	9595.6	10155.2	10143.5
35°	6930.6	6930.6	7568.5	8754.2	7846.3	7357.2	7173.2	8135.9	9204.3	9243.4
37.5°	5697.9	5717.5	5842.7	6382.7	6770.2	6598.0	6543.2	6848.4	7983.3	8045.9
40°	5126.5	5126.5	5126.5	4903.5	4891.7	5944.4	5913.1	5815.3	6895.4	7032.4
42.5°	4606.1	4617.8	4625.6	4062.1	3749.0	5138.3	5067.8	4919.1	5921.0	6081.4
45°	4069.9	4089.5	4113.0	3396.8	3259.9	3698.2	4289.1	4124.7	4958.3	5165.7
47.5°	2485.0	2516.3	3048.5	2880.3	2895.9	2852.9	3498.6	3471.2	4066.0	4359.5
50°	1678.8	1690.6	1741.5	1827.6	2485.0	2242.4	2477.2	2872.4	3087.7	3533.8
52.5°	1408.8	1428.4	1303.2	1185.8	1631.9	1753.2	1729.7	2132.8	2218.9	2770.7
55°	990.1	1052.7	994.0	982.3	927.5	1361.9	1311.0	1639.7	1694.5	2105.4
57.5°	101.7	117.4	203.5	731.8	606.6	770.9	935.3	1201.4	1256.2	1553.6
60°	7.8	7.8	19.6	101.7	442.2	461.8	645.7	739.6	845.3	1084.0
62.5°	0.0	3.9	7.8	15.7	70.4	246.5	324.8	387.4	508.7	700.5
65°	0.0	0.0	3.9	11.7	15.7	93.9	125.2	203.5	277.9	434.4
67.5°	0.0	0.0	3.9	7.8	11.7	23.5	43.0	74.4	148.7	246.5
70°	0.0	0.0	3.9	7.8	11.7	19.6	31.3	47.0	66.5	133.1
72.5°	0.0	0.0	3.9	3.9	7.8	19.6	23.5	31.3	47.0	66.5
75°	0.0	0.0	3.9	3.9	11.7	23.5	19.6	23.5	31.3	43.0
77.5°	0.0	0.0	3.9	7.8	11.7	23.5	19.6	23.5	23.5	27.4
80°	0.0	0.0	3.9	7.8	15.7	27.4	23.5	23.5	19.6	19.6
82.5°	0.0	0.0	3.9	11.7	15.7	35.2	35.2	31.3	15.7	11.7
85°	0.0	0.0	7.8	15.7	23.5	39.1	39.1	31.3	11.7	7.8
87.5°	0.0	0.0	7.8	11.7	19.6	27.4	39.1	31.3	11.7	3.9
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°
21148.0	0°	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0	21148.0
21081.4	2.5°	21187.1	21163.6	21241.9	21273.2	21316.2	21151.9	21050.1	21054.0	20866.2
20842.7	5°	20967.9	20971.8	21073.6	21065.8	21108.8	21018.8	20979.7	20913.1	20748.8
20541.4	7.5°	20690.1	20654.9	20752.7	20827.1	20717.5	20780.1	20690.1	20721.4	20623.6
20275.3	10°	20474.8	20392.7	20482.7	20533.5	20537.5	20474.8	20388.8	20306.6	20271.4
19860.4	12.5°	19997.4	19891.8	20044.4	20114.8	20103.1	19981.8	19883.9	19903.5	19790.0
19132.6	15°	19340.0	19343.9	19453.5	19520.0	19457.4	19430.0	19437.8	19390.8	19293.0
18126.8	17.5°	18334.2	18392.9	18682.5	18843.0	18878.2	18823.4	18796.0	18741.2	18643.4
16522.3	20°	16659.3	17011.5	17528.1	18025.1	18122.9	18107.2	18009.4	17985.9	17931.1
14933.5	22.5°	15187.9	15450.1	16048.8	16823.7	17222.8	17262.0	17144.6	17109.3	17050.6
13512.9	25°	13665.6	13947.3	14487.4	15328.7	16154.5	16322.7	16303.2	16197.5	16134.9
12252.8	27.5°	12382.0	12663.7	13152.9	13912.1	14796.5	15336.6	15387.4	15219.2	15215.3
11129.7	30°	11223.6	11611.0	11982.8	12601.1	13458.1	14268.2	14354.3	14236.9	14248.6
10100.5	32.5°	10315.7	10636.6	10953.6	11368.4	12080.6	13023.8	13360.3	13250.7	13207.7
9243.4	35°	9388.2	9607.4	9932.2	10311.8	10797.0	11732.3	12315.4	12233.3	12190.2
8085.1	37.5°	8331.6	8707.3	8942.1	9368.7	9748.3	10491.8	11313.6	11301.9	11211.9
7098.9	40°	7247.6	7642.8	7999.0	8429.4	8722.9	9313.9	10225.7	10221.8	10233.5
6077.5	42.5°	6265.3	6629.3	7059.8	7529.4	7811.1	8241.6	9219.9	9274.7	9341.3
5236.1	45°	5377.0	5705.7	6104.9	6676.2	7016.7	7263.2	8132.0	8382.5	8378.6
4484.7	47.5°	4578.7	4887.8	5224.4	5780.1	6214.5	6437.5	7157.6	7513.7	7490.2
3678.6	50°	3842.9	4116.9	4469.1	4872.2	5455.3	5650.9	6187.1	6656.7	6621.5
2931.1	52.5°	3091.6	3471.2	3768.6	4136.5	4750.9	4942.6	5357.4	5815.3	5787.9
2199.3	55°	2410.6	2778.5	3138.5	3455.5	3972.1	4257.8	4555.2	5024.8	5017.0
1721.9	57.5°	1823.6	2226.7	2567.2	2868.5	3279.4	3631.6	3870.3	4296.9	4351.7
1177.9	60°	1350.1	1659.3	2027.1	2363.7	2688.5	3052.4	3212.9	3631.6	3655.1
806.2	62.5°	919.6	1260.1	1620.1	1925.4	2168.0	2543.7	2688.5	3032.9	3075.9
516.6	65°	637.9	857.0	1267.9	1487.1	1784.5	2105.4	2250.2	2524.1	2610.2
297.4	67.5°	422.6	610.5	990.1	1189.7	1483.2	1702.3	1886.3	2109.3	2203.2
187.8	70°	230.9	450.0	708.3	939.2	1193.6	1404.9	1584.9	1764.9	1847.1
86.1	72.5°	156.5	301.3	493.1	743.5	962.7	1170.1	1330.6	1463.6	1467.5
50.9	75°	78.3	203.5	375.7	575.3	751.4	954.9	1099.7	1177.9	1084.0
31.3	77.5°	47.0	148.7	305.2	461.8	610.5	770.9	853.1	896.2	743.5
23.5	80°	27.4	105.7	238.7	367.9	422.6	567.4	645.7	657.4	497.0
15.7	82.5°	19.6	78.3	187.8	270.0	258.3	399.2	485.3	469.6	317.0
11.7	85°	11.7	54.8	117.4	168.3	156.5	262.2	281.8	289.6	183.9
7.8	87.5°	7.8	31.3	62.6	90.0	74.4	113.5	113.5	137.0	90.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21148.0
20623.6
20709.7
20459.2
20114.8
19692.2
19195.2
18600.3
17805.9
17035.0
16068.4
15207.4
14189.9
13211.6
12131.5
11286.2
10233.5
9306.0
8386.4
7498.1
6652.8
5846.6
5036.5
4328.2
3690.3
3083.7
2590.7
2191.5
1815.8
1432.3
1013.6
716.2
465.7
293.5
168.3
78.3
0.0

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