

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: P638658

Luminaire Tested: **EPH-VN-08-D-935-U-44-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-935-U-44-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35701.7 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

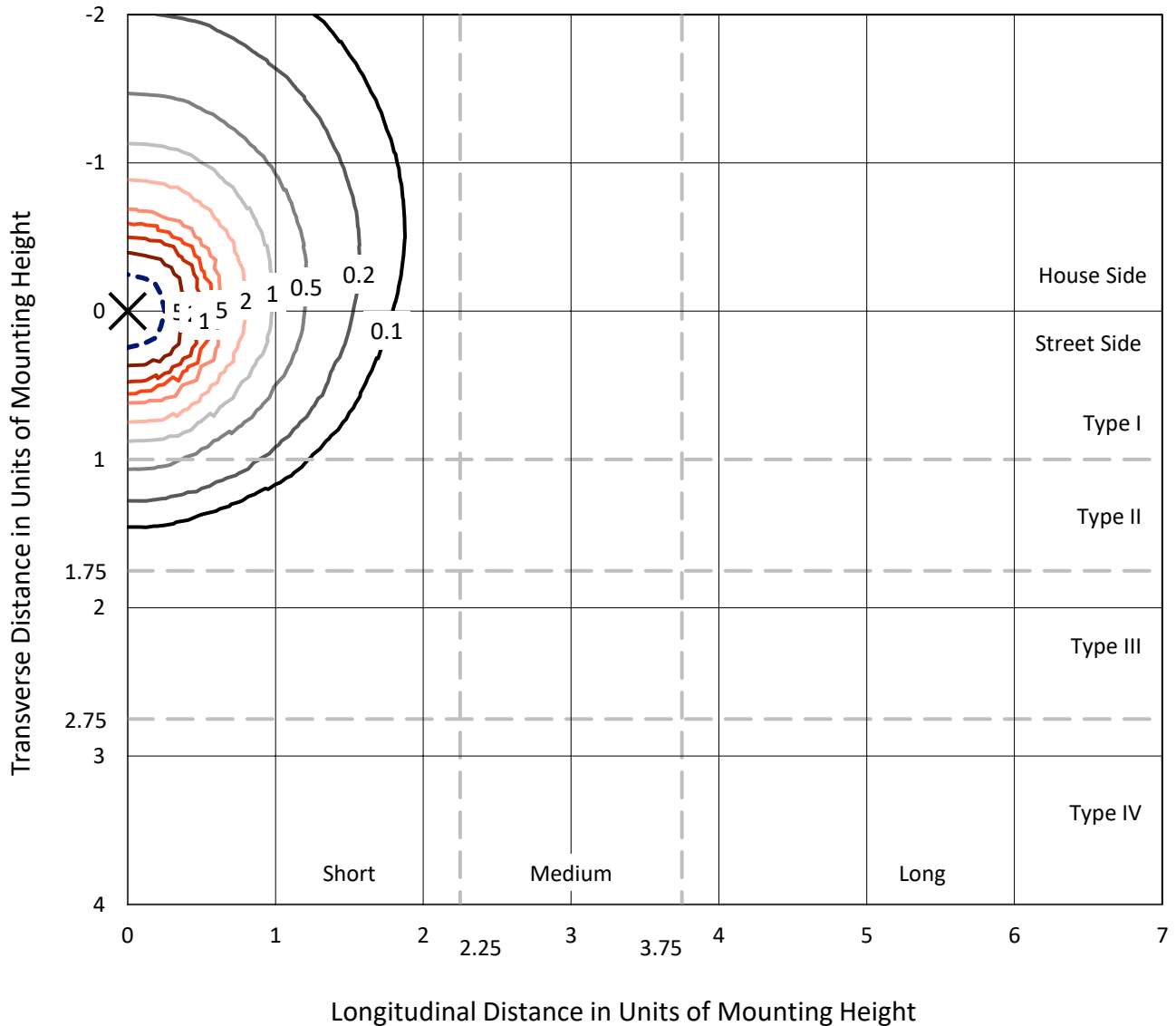
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

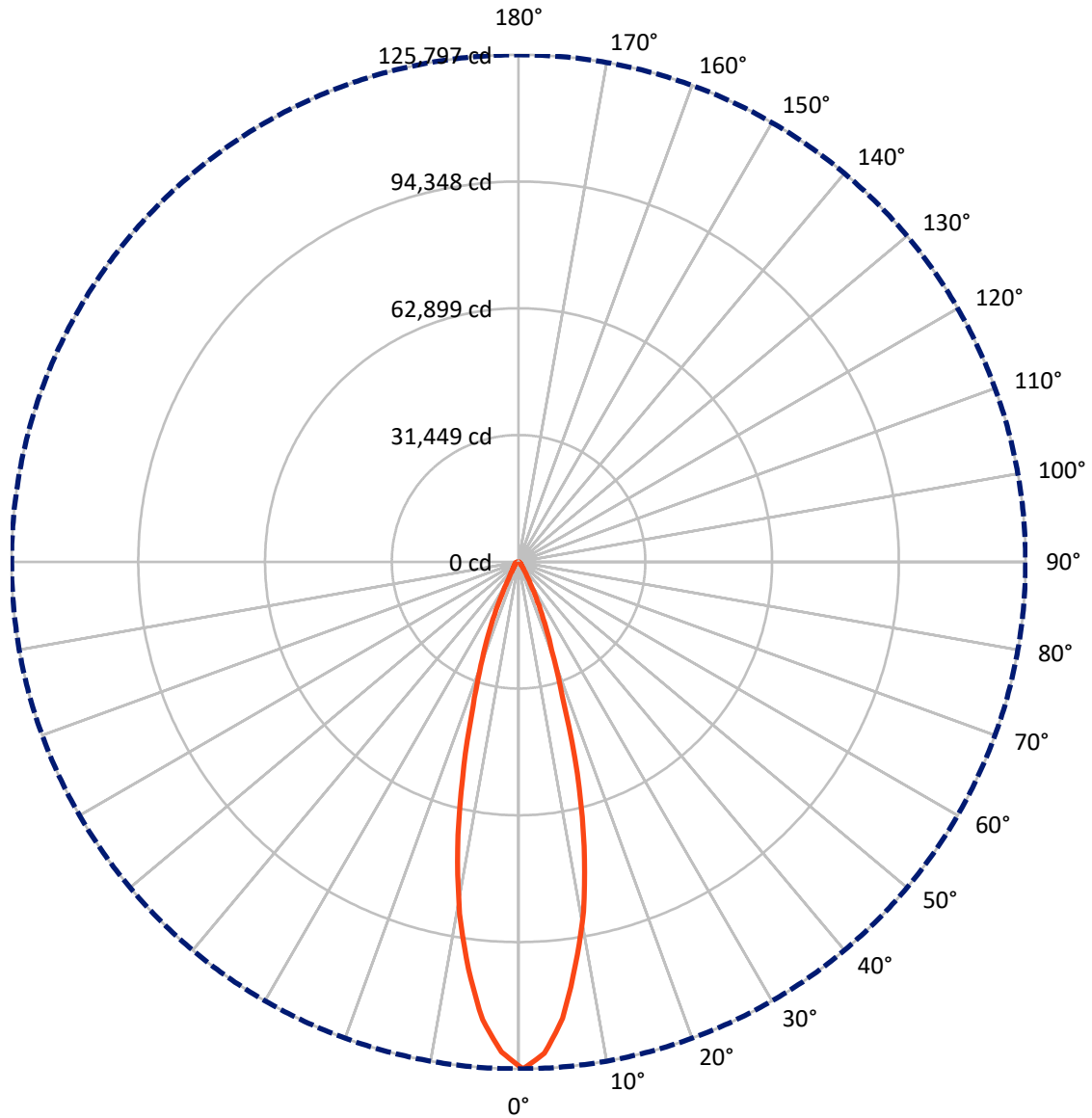
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 314.5 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	18824.3	0.0	18824.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16877.4	0.0	16877.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	35701.7	0.0	35701.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10153.0	28.4
10°-20°	15376.6	43.1
20°-30°	6489.0	18.2
30°-40°	1692.4	4.7
40°-50°	856.0	2.4
50°-60°	559.5	1.6
60°-70°	335.2	0.9
70°-80°	176.3	0.5
80°-90°	63.7	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°	35701.7	100.0
0°-180°	35701.7	100.0

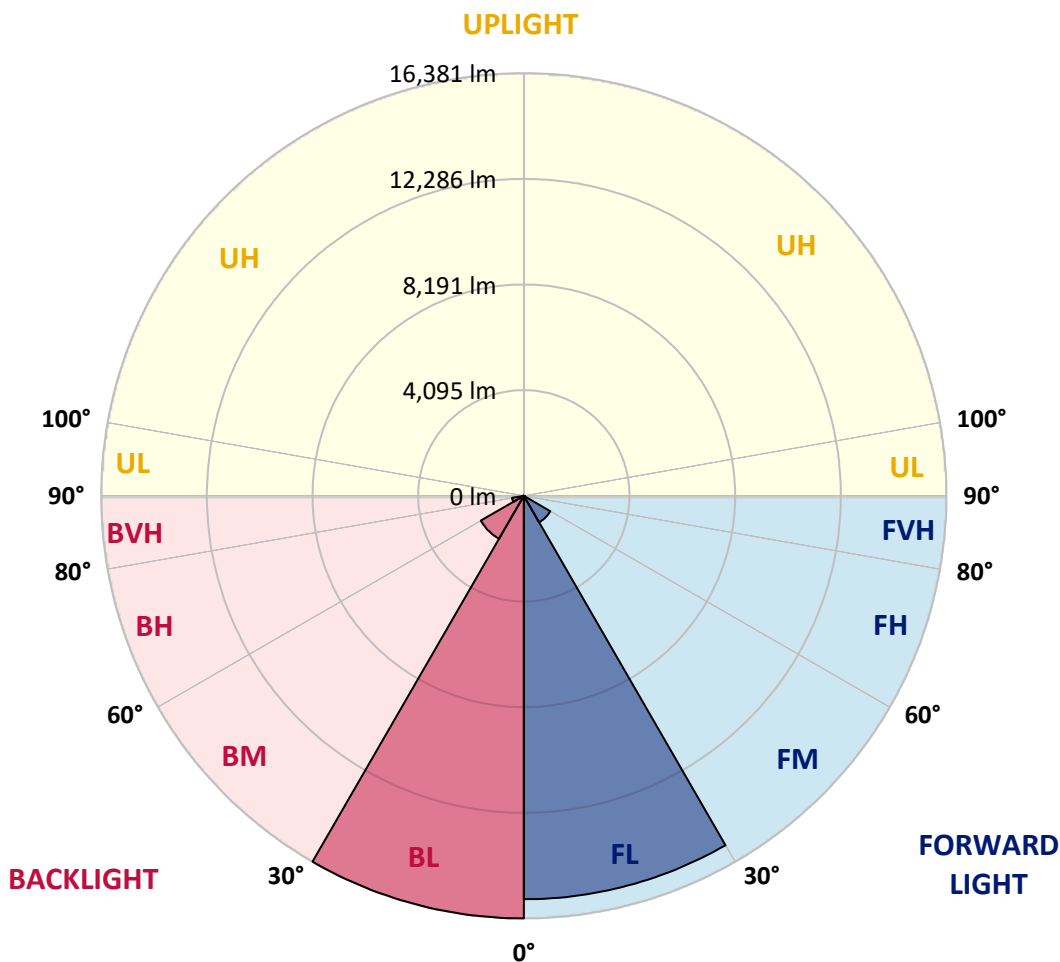


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15637.1	43.8			
FM (30°-60°)	1184.2	3.3			
FH (60°-80°)	48.3	0.1			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	16381.5	45.9	B5		
BM (30°-60°)	1923.6	5.4	B2/2500		
BH (60°-80°)	463.3	1.3	B1/500		G0/660
BVH (80°-90°)	56.0	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°	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4
2.5°	122132.9	122201.1	121948.5	122493.7	122068.7	123207.4	122642.1	123524.1	123227.5	123720.6
5°	113793.4	113681.2	113609.0	114455.0	114210.4	115433.3	114651.4	114394.8	115188.7	115044.4
7.5°	101200.1	101496.8	101328.4	101548.9	101673.2	103068.4	103509.5	103164.7	103176.7	103377.1
10°	88290.0	87852.9	87231.5	87644.4	88518.5	89127.9	88883.3	89388.5	89276.3	89753.4
12.5°	72404.9	72749.7	72400.9	72032.0	73559.6	73391.2	73816.2	74092.8	73399.2	74942.8
15°	54539.2	54719.6	55144.6	55116.6	56291.3	56527.9	56471.7	56764.4	56223.2	56479.7
17.5°	35037.7	35647.2	36789.8	38722.3	40895.4	41148.0	41083.8	40843.3	40582.7	40294.0
20°	23534.9	23470.7	23883.7	24449.0	28947.5	30138.3	30102.2	29348.5	28257.9	28049.4
22.5°	16486.5	16606.7	16550.6	17111.9	18042.1	21325.7	20920.8	20155.0	19798.2	19565.6
25°	10845.3	10801.2	11081.9	11250.2	12048.1	12449.0	13868.4	13583.7	13034.4	13094.5
27.5°	6611.4	6667.6	6771.8	6916.1	7481.5	7353.2	8163.0	8271.3	8094.9	7906.4
30°	4057.5	4097.6	4181.8	4286.0	4482.5	4342.1	4566.7	4955.6	4891.4	4759.1
32.5°	2754.4	2758.4	2818.6	2858.7	2834.6	2702.3	2774.5	3143.3	3151.4	3139.3
35°	1980.6	1980.6	2036.8	2068.8	2000.7	1892.4	1904.4	2133.0	2233.2	2253.3
37.5°	1367.2	1371.2	1467.4	1563.6	1487.5	1459.4	1411.3	1563.6	1724.0	1748.1
40°	1038.4	1034.4	1082.5	1154.7	1162.7	1110.6	1126.6	1222.9	1387.2	1407.3
42.5°	842.0	846.0	870.0	862.0	866.0	934.2	958.2	1002.3	1154.7	1190.8
45°	709.7	713.7	725.7	685.6	669.6	773.8	805.9	829.9	958.2	1002.3
47.5°	585.4	593.4	605.4	561.3	553.3	621.4	677.6	701.6	813.9	862.0
50°	421.0	429.0	473.1	449.0	473.1	489.1	565.3	601.4	677.6	741.7
52.5°	304.7	312.7	324.8	328.8	388.9	396.9	453.1	509.2	545.3	617.4
55°	240.6	248.6	240.6	232.5	284.7	328.8	348.8	409.0	437.0	521.2
57.5°	136.3	144.3	156.4	180.4	188.4	252.6	272.6	324.8	348.8	429.0
60°	24.1	28.1	44.1	108.3	132.3	160.4	204.5	248.6	280.7	336.8
62.5°	4.0	4.0	8.0	24.1	76.2	112.3	148.3	176.4	204.5	256.6
65°	0.0	0.0	4.0	8.0	20.0	64.1	80.2	104.2	140.3	184.4
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	36.1	64.1	80.2	124.3
70°	0.0	0.0	4.0	8.0	12.0	16.0	20.0	28.1	48.1	76.2
72.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.0	24.1	24.1	48.1
75°	0.0	0.0	4.0	8.0	12.0	20.0	24.1	24.1	20.0	20.0
77.5°	0.0	0.0	4.0	8.0	16.0	24.1	28.1	24.1	16.0	16.0
80°	0.0	0.0	8.0	12.0	20.0	28.1	36.1	28.1	16.0	8.0
82.5°	0.0	0.0	8.0	16.0	20.0	32.1	44.1	36.1	16.0	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	44.1	32.1	16.0	4.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	24.1	20.0	8.0	4.0
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°
125797.4	0°	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4	125797.4
122786.4	2.5°	123492.1	124133.6	124265.9	124089.5	124346.1	123885.0	123532.2	122618.0	122068.7
115000.3	5°	115742.0	115645.8	116315.3	116535.8	116507.8	116155.0	115661.8	115108.5	114571.3
102988.2	7.5°	103629.7	103754.0	104363.4	104752.4	104555.9	104114.9	103774.1	103357.1	102996.3
89925.8	10°	90747.7	89893.7	90651.5	90651.5	91176.7	89929.8	90046.0	88995.6	89043.7
74914.8	12.5°	75171.4	75480.1	75604.4	75961.2	75347.8	74686.2	73876.3	73716.0	73214.8
55990.6	15°	56796.5	57678.5	56920.8	58215.8	57590.3	56900.7	56776.4	55533.5	55926.5
40610.7	17.5°	40410.3	41384.5	41689.2	42431.0	41861.6	41452.7	40935.5	40558.6	40530.5
28430.3	20°	28654.8	29633.1	29857.6	30747.7	30683.6	30555.3	30118.3	29641.1	29123.9
19353.1	22.5°	19645.8	20443.7	21189.4	22388.2	22368.2	21991.3	21947.2	21273.6	21285.7
13074.5	25°	13210.8	13792.2	13968.6	15195.4	15331.8	15291.7	15063.1	14437.7	14674.2
7986.6	27.5°	7994.6	8503.8	9101.2	9534.2	9943.2	9879.0	9650.5	9301.7	9149.3
4799.2	30°	4927.5	5156.0	5376.5	5897.8	6142.3	6270.6	6162.4	5837.6	5861.7
3159.4	32.5°	3227.5	3420.0	3580.4	3909.1	4037.4	4274.0	4229.9	4161.7	4081.5
2273.3	35°	2353.5	2493.8	2602.1	2754.4	2918.8	3119.3	3151.4	3123.3	3091.2
1756.1	37.5°	1796.2	1940.5	2064.8	2129.0	2257.3	2413.6	2501.8	2497.8	2473.8
1431.3	40°	1459.4	1567.7	1679.9	1764.1	1852.3	1968.6	2076.8	2088.9	2088.9
1202.8	42.5°	1218.8	1311.1	1423.3	1511.5	1575.7	1683.9	1796.2	1804.2	1796.2
1018.4	45°	1042.4	1122.6	1230.9	1335.1	1387.2	1467.4	1575.7	1599.7	1583.7
874.0	47.5°	906.1	978.3	1070.5	1182.8	1238.9	1311.1	1411.3	1439.4	1435.3
753.8	50°	777.8	862.0	954.2	1046.4	1118.6	1186.8	1283.0	1315.1	1303.0
641.5	52.5°	685.6	761.8	842.0	942.2	1026.4	1086.5	1162.7	1218.8	1202.8
541.3	55°	573.3	665.6	749.7	833.9	938.2	1002.3	1074.5	1142.7	1126.6
457.1	57.5°	497.2	573.3	669.6	745.7	850.0	926.2	998.3	1070.5	1066.5
372.9	60°	417.0	497.2	589.4	669.6	765.8	850.0	922.2	1002.3	1010.4
280.7	62.5°	328.8	425.0	505.2	597.4	693.6	785.8	850.0	930.2	942.2
212.5	65°	248.6	348.8	437.0	525.2	621.4	721.7	777.8	846.0	858.0
156.4	67.5°	184.4	268.6	372.9	453.1	553.3	649.5	701.6	757.8	777.8
96.2	70°	140.3	204.5	312.7	388.9	493.2	569.3	625.5	673.6	689.6
64.1	72.5°	88.2	160.4	252.6	332.8	425.0	493.2	533.2	561.3	585.4
36.1	75°	60.1	124.3	204.5	284.7	352.8	404.9	441.0	465.1	485.1
16.0	77.5°	36.1	96.2	168.4	236.6	280.7	320.7	356.8	372.9	384.9
12.0	80°	20.0	72.2	140.3	192.4	220.5	248.6	276.6	296.7	304.7
8.0	82.5°	12.0	56.1	112.3	148.3	160.4	188.4	216.5	228.5	228.5
4.0	85°	8.0	40.1	76.2	108.3	116.3	136.3	144.3	152.4	160.4
4.0	87.5°	8.0	24.1	48.1	60.1	64.1	72.2	76.2	84.2	92.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
125797.4
121663.8
113969.9
101773.4
88574.6
72757.7
55533.5
39784.8
28899.4
21053.1
14301.4
9017.0
5757.4
4053.5
3079.2
2461.7
2064.8
1788.2
1583.7
1427.3
1295.0
1198.8
1134.6
1070.5
1014.4
950.2
870.0
785.8
697.6
581.4
481.1
380.9
296.7
224.5
156.4
88.2
0.0

(END OF REPORT)