

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: P638565

Luminaire Tested: **EPH-VN-04-E-730-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638565
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-730-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31672.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

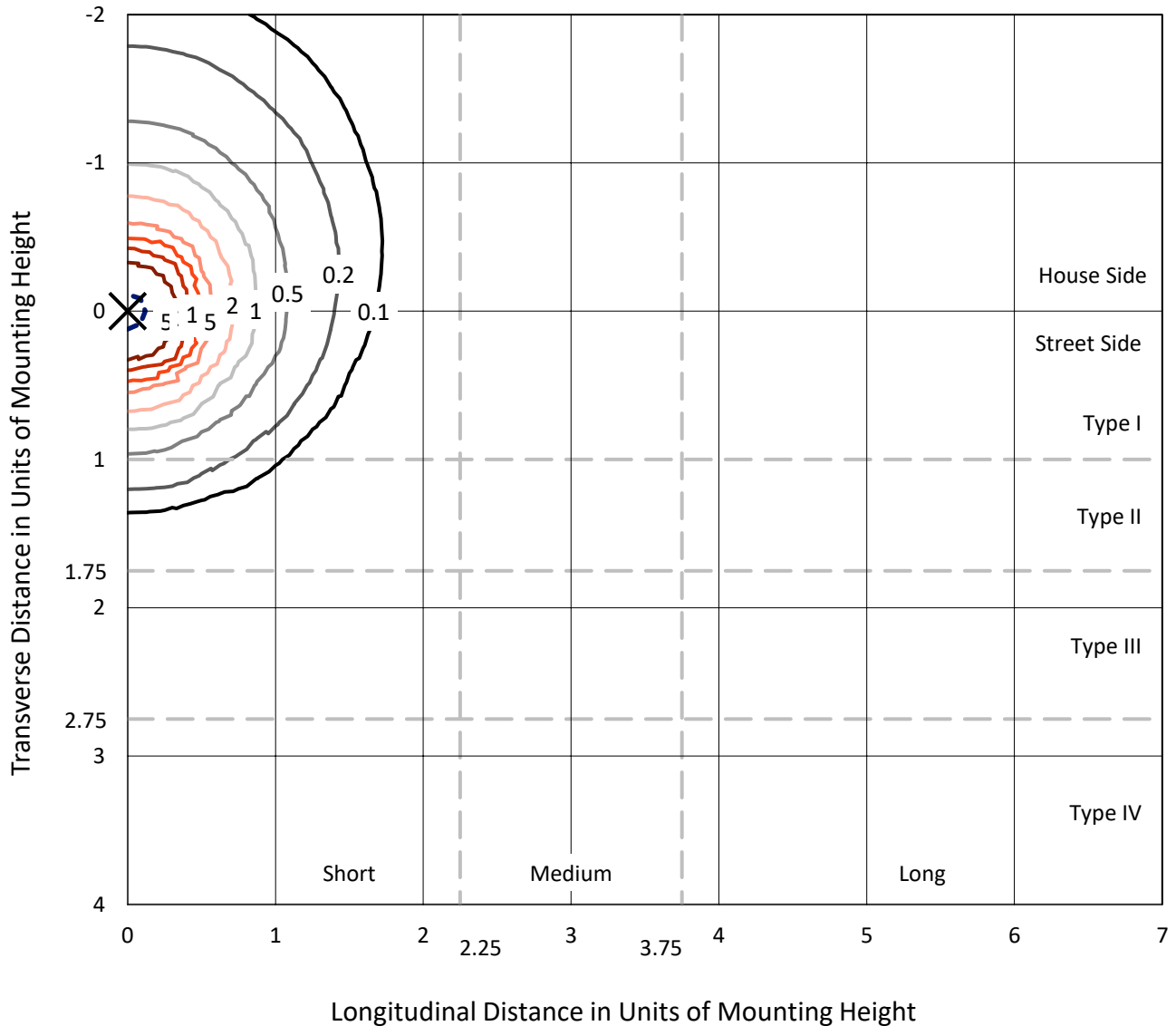
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

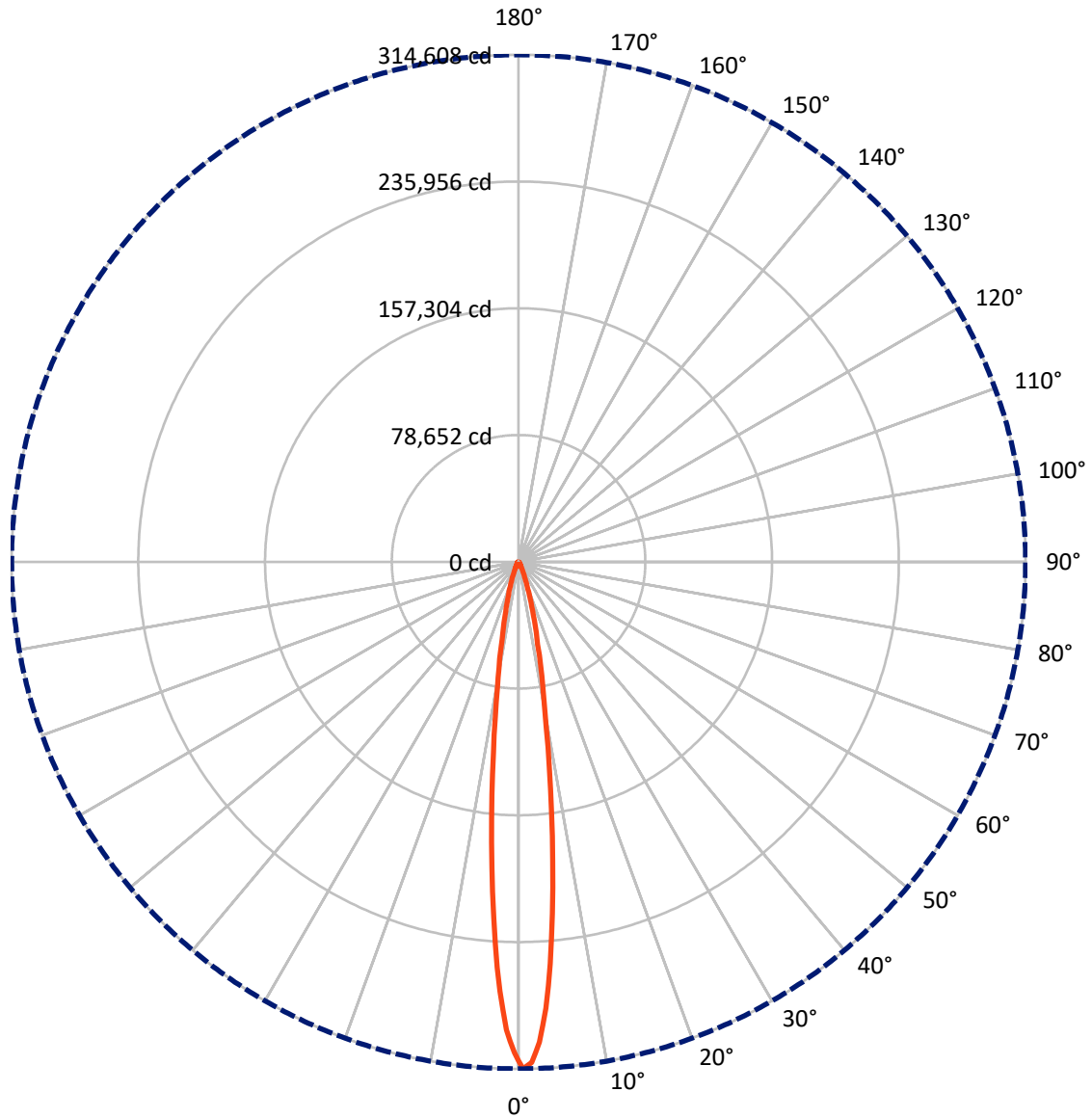
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 786.5 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	16221.9	0.0	16221.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	15450.2	0.0	15450.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	31672.1	0.0	31672.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15989.1	50.5
10°-20°	10236.1	32.3
20°-30°	3076.8	9.7
30°-40°	1001.8	3.2
40°-50°	582.9	1.8
50°-60°	387.2	1.2
60°-70°	233.0	0.7
70°-80°	119.8	0.4
80°-90°	45.5	0.1
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°	31672.1	100.0
0°-180°	31672.1	100.0

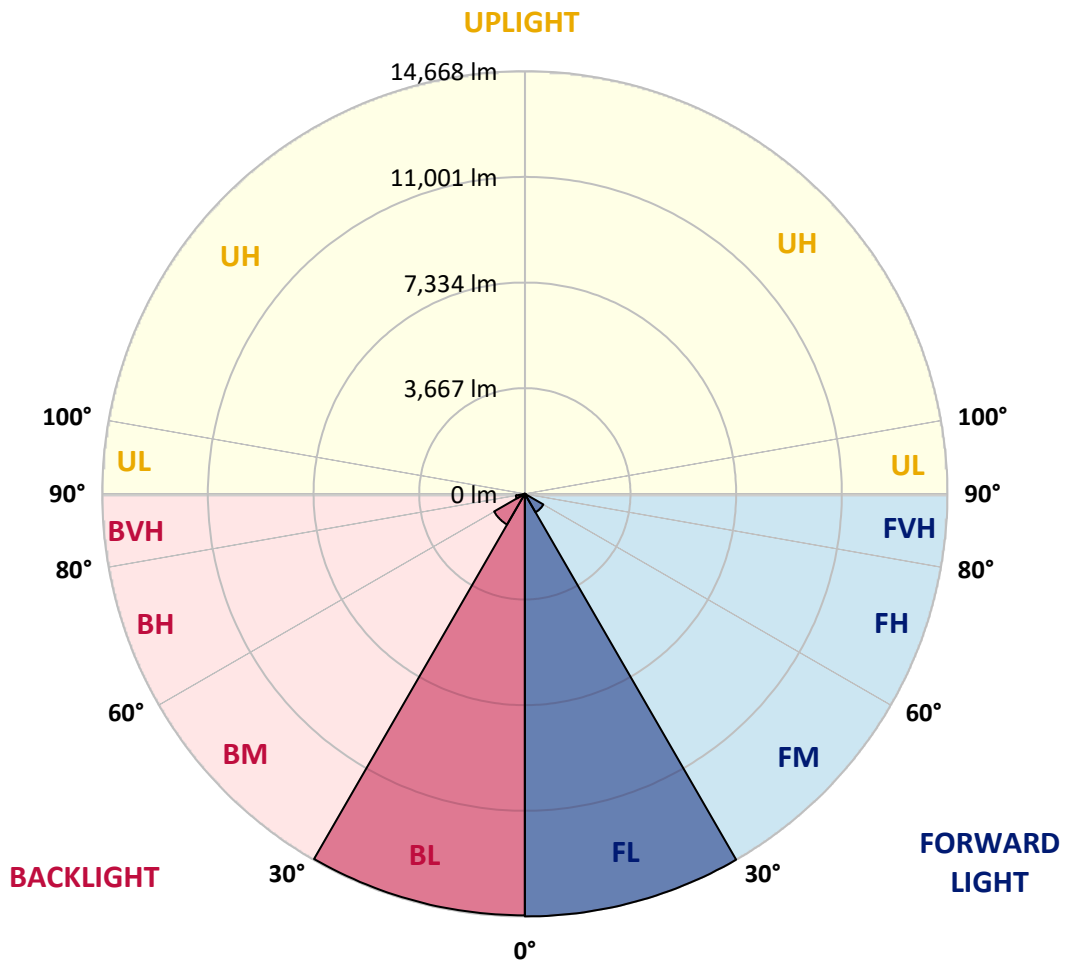


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14668.4	46.3			
FM (30°-60°)	740.2	2.3			
FH (60°-80°)	34.8	0.1			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	14633.6	46.2	B5		
BM (30°-60°)	1231.7	3.9	B2/2500		
BH (60°-80°)	318.0	1.0	B1/500		G0/660
BVH (80°-90°)	38.6	0.1			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°	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5
1°	310840.5	309891.9	307442.7	309184.7	310716.4	310271.4	310240.3	310074.7	309843.6	311658.1
2°	298415.1	297801.0	294179.0	295672.6	297849.3	296262.5	297256.0	296383.2	296400.5	298566.9
3°	277469.1	277803.7	272025.6	274740.4	277765.7	273919.4	275113.0	277355.2	275006.0	274298.9
4°	250244.8	247340.2	244183.8	246943.5	247726.6	245487.8	247688.6	250434.5	247171.2	247316.1
5°	219163.8	217018.2	213282.2	214986.3	213044.2	213751.4	217049.2	218180.7	215903.9	213037.3
6°	187206.7	185681.9	181011.2	183467.3	182777.4	182377.2	186540.9	183091.3	184333.1	182598.0
7°	155718.7	152869.3	150575.3	152927.9	153079.7	151875.8	157281.3	156653.5	154394.0	153869.7
8°	129015.3	126172.8	124230.7	125983.1	127128.3	125237.9	127780.3	129449.9	127683.7	127842.4
9°	104057.4	103557.2	100856.1	103146.7	104392.0	102367.1	105181.9	105785.6	104133.3	104937.0
10°	85439.8	84856.9	82700.9	83628.8	85691.7	83276.9	85978.0	86174.6	84856.9	85232.9
12.5°	52799.7	52565.1	52506.5	52641.0	52613.4	53041.1	53731.1	52944.6	52841.1	51540.6
15°	34127.0	34475.4	34116.6	34806.5	34906.6	35310.2	34889.3	34254.6	33043.8	32443.5
17.5°	21297.9	21742.9	22356.9	23367.6	24378.4	24495.7	23936.8	23191.7	22605.3	21963.6
20°	12253.0	12470.3	12377.2	13588.0	16202.8	16913.4	16192.5	15409.4	14702.2	14053.7
22.5°	7613.3	7533.9	7678.8	8085.9	8937.9	11135.3	10545.4	9762.4	9248.4	8713.7
25°	4667.3	4753.6	4698.4	4922.6	5305.5	6236.9	6371.4	6033.4	5771.2	5495.2
27.5°	3004.6	3004.6	3028.8	3152.9	3415.1	3384.1	4101.6	3839.4	3698.0	3563.4
30°	2087.0	2093.9	2093.9	2166.4	2225.0	2121.5	2307.8	2645.8	2580.3	2476.8
32.5°	1548.9	1569.6	1586.8	1624.8	1576.5	1466.1	1510.9	1904.2	1866.2	1828.3
35°	1179.8	1197.0	1238.4	1259.1	1190.1	1121.1	1079.7	1400.5	1417.8	1407.4
37.5°	859.0	869.3	945.2	1024.5	945.2	883.1	859.0	1076.3	1159.1	1148.7
40°	658.9	662.3	676.1	765.8	765.8	717.5	724.4	803.8	948.6	948.6
42.5°	565.7	565.7	579.5	565.7	569.2	620.9	638.2	648.5	803.8	803.8
45°	489.8	489.8	496.7	462.2	427.8	534.7	548.5	551.9	676.1	693.4
47.5°	410.5	410.5	424.3	379.5	362.2	424.3	462.2	472.6	583.0	596.8
50°	303.6	307.0	348.4	310.5	320.8	327.7	400.2	407.1	493.3	524.3
52.5°	203.5	203.5	210.4	241.5	279.4	269.1	324.3	348.4	393.3	434.7
55°	165.6	165.6	162.1	155.2	207.0	224.2	238.0	289.8	320.8	372.6
57.5°	113.8	120.7	110.4	127.6	134.5	169.0	179.4	227.7	244.9	313.9
60°	13.8	17.2	24.1	93.1	89.7	113.8	134.5	179.4	200.1	241.5
62.5°	3.4	3.4	6.9	17.2	62.1	75.9	106.9	124.2	144.9	186.3
65°	0.0	0.0	3.4	6.9	13.8	41.4	55.2	72.4	103.5	131.1
67.5°	0.0	0.0	3.4	6.9	6.9	17.2	27.6	44.8	55.2	96.6
70°	0.0	0.0	3.4	6.9	6.9	13.8	17.2	20.7	37.9	51.7
72.5°	0.0	0.0	3.4	6.9	10.3	13.8	17.2	17.2	17.2	34.5
75°	0.0	0.0	3.4	6.9	10.3	13.8	17.2	17.2	13.8	13.8
77.5°	0.0	0.0	3.4	6.9	13.8	17.2	20.7	17.2	10.3	10.3
80°	0.0	0.0	3.4	10.3	17.2	24.1	27.6	20.7	10.3	6.9
82.5°	0.0	0.0	6.9	13.8	20.7	27.6	37.9	31.0	13.8	6.9
85°	0.0	0.0	3.4	10.3	20.7	27.6	55.2	37.9	17.2	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.9	20.7	13.8	6.9	3.4
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°
314607.5	0°	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5	314607.5
309564.2	1°	311727.1	311944.4	311233.8	312334.2	311947.9	309684.9	308936.4	308049.8
297293.9	2°	296383.2	297490.6	297545.8	298766.9	298749.7	296110.7	295293.2	296800.7
275733.9	3°	274899.1	276189.3	275026.7	277196.5	276544.6	273343.3	272512.0	274223.0
248461.3	4°	247719.7	247474.7	247074.6	245839.6	247360.9	245177.3	243531.8	245853.4
216838.8	5°	216404.1	215859.1	215079.5	214713.8	215845.3	214448.2	211064.1	214455.1
185737.1	6°	185964.8	183619.1	183505.2	183301.7	183415.6	179503.7	179738.3	182263.4
152065.5	7°	153673.0	154104.2	153224.6	154635.5	153559.2	150909.9	149888.8	152548.5
128539.2	8°	127642.3	127097.3	126424.6	128532.3	126666.1	124927.5	123737.4	125838.2
105068.1	9°	104871.5	103929.7	103246.7	103139.8	103429.5	100166.2	100828.5	102418.8
85439.8	10°	85470.9	83925.5	84301.5	84401.5	84084.1	81945.4	81966.1	82514.6
52403.0	12.5°	52216.7	51457.8	51647.5	51751.0	52396.1	51644.1	50581.6	49815.8
33040.3	15°	32819.6	32274.5	33388.7	34137.3	33985.5	33316.3	32816.1	32122.7
21963.6	17.5°	21760.1	22474.2	22477.6	23160.7	23229.6	22560.4	22174.1	21549.7
14284.8	20°	14233.1	14529.7	15147.2	15630.2	15909.6	15399.0	14936.8	14509.0
8906.9	22.5°	8906.9	9424.3	9810.7	10438.5	10693.8	10321.2	9993.5	9645.1
5560.8	25°	5467.6	5836.7	6157.5	6702.6	7051.0	6871.6	6571.5	6326.6
3591.0	27.5°	3646.2	3801.5	3960.1	4336.2	4698.4	4598.3	4477.6	4329.3
2532.0	30°	2570.0	2583.8	2752.8	2963.2	3204.7	3266.8	3211.6	3135.7
1859.3	32.5°	1893.8	1949.0	2028.4	2159.5	2321.6	2469.9	2442.3	2407.8
1421.2	35°	1462.6	1545.4	1611.0	1711.0	1797.2	1938.7	1962.8	1952.5
1169.4	37.5°	1193.6	1266.0	1331.5	1390.2	1462.6	1559.2	1635.1	1638.6
965.9	40°	990.0	1055.6	1141.8	1186.7	1238.4	1310.9	1404.0	1410.9
817.6	42.5°	834.8	896.9	983.1	1038.3	1076.3	1145.3	1238.4	1252.2
700.3	45°	717.5	755.5	845.2	910.7	948.6	993.5	1093.5	1107.3
603.7	47.5°	624.4	662.3	717.5	810.7	845.2	886.5	965.9	990.0
534.7	50°	548.5	586.4	634.7	717.5	769.3	803.8	869.3	903.8
465.7	52.5°	486.4	524.3	576.1	641.6	700.3	731.3	793.4	838.3
379.5	55°	407.1	472.6	510.5	569.2	648.5	676.1	724.4	783.1
331.2	57.5°	355.3	410.5	465.7	514.0	593.3	627.8	676.1	731.3
262.2	60°	300.1	351.9	417.4	458.8	534.7	579.5	631.3	683.0
200.1	62.5°	238.0	307.0	351.9	410.5	482.9	541.6	583.0	634.7
155.2	65°	175.9	251.8	303.6	365.7	434.7	496.7	531.2	586.4
110.4	67.5°	127.6	196.6	258.7	317.4	382.9	445.0	479.5	527.8
69.0	70°	100.0	144.9	213.9	265.6	334.6	386.4	424.3	455.3
44.8	72.5°	58.6	110.4	172.5	231.1	293.2	327.7	355.3	382.9
20.7	75°	37.9	86.2	141.4	193.2	238.0	269.1	293.2	317.4
10.3	77.5°	24.1	62.1	113.8	162.1	182.8	220.8	241.5	255.3
6.9	80°	13.8	48.3	100.0	131.1	148.3	172.5	193.2	210.4
6.9	82.5°	10.3	41.4	82.8	110.4	110.4	138.0	148.3	148.3
3.4	85°	6.9	34.5	65.5	103.5	82.8	103.5	96.6	96.6
3.4	87.5°	6.9	24.1	31.0	44.8	37.9	44.8	44.8	51.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
314607.5
304538.1
290415.4
266623.5
237450.2
205520.6
174943.3
145314.7
119839.3
97451.4
78782.1
49350.1
31767.4
21394.5
14360.7
9458.8
6185.1
4243.0
3083.9
2380.2
1918.0
1614.4
1400.5
1241.9
1103.9
993.5
907.2
838.3
786.5
734.8
696.8
658.9
596.8
531.2
465.7
389.8
317.4
248.4
189.7
138.0
93.1
51.7
0.0

(END OF REPORT)