

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: P638566

Luminaire Tested: **EPH-VN-06-E-730-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-730-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47916.7 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

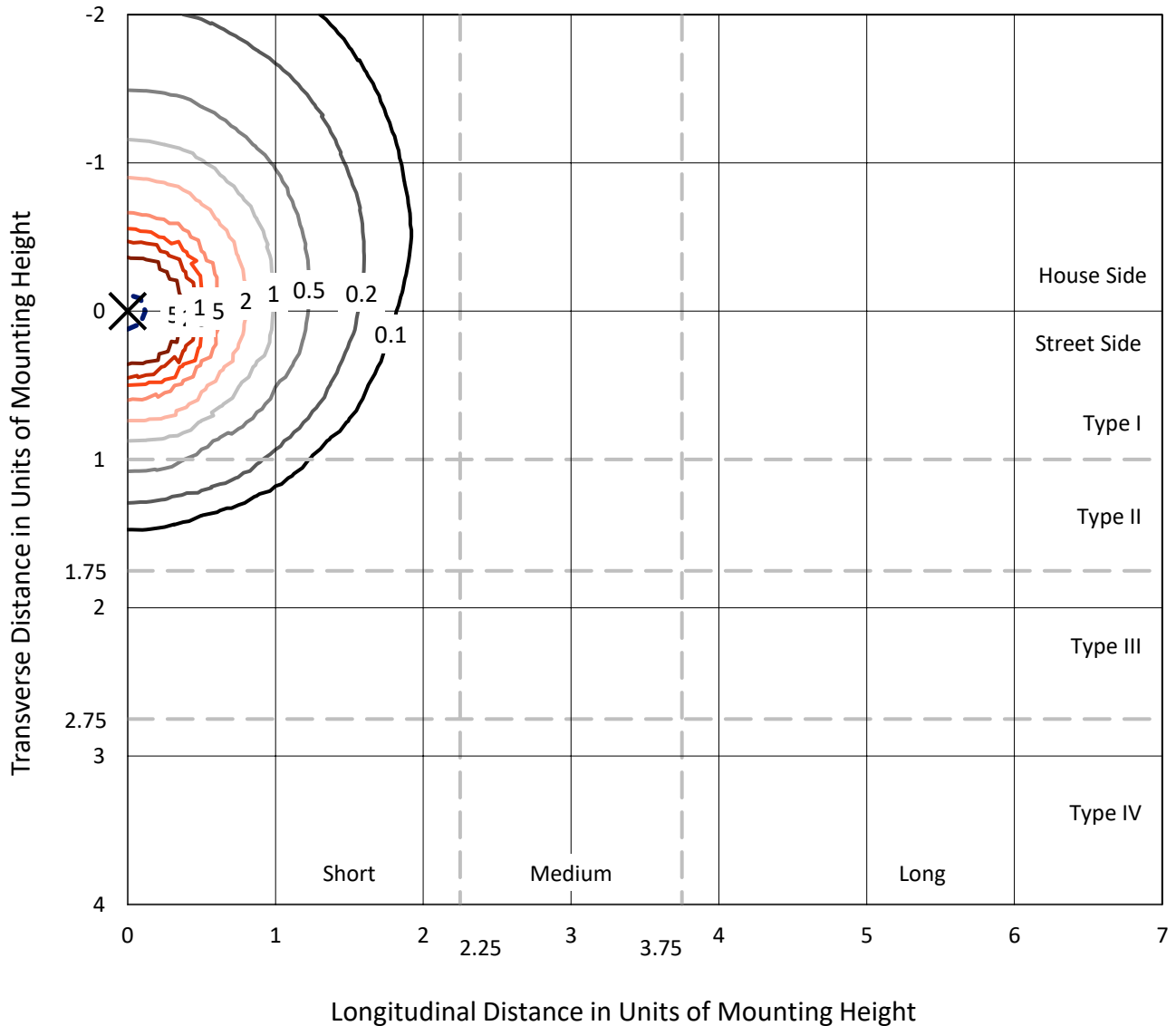
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

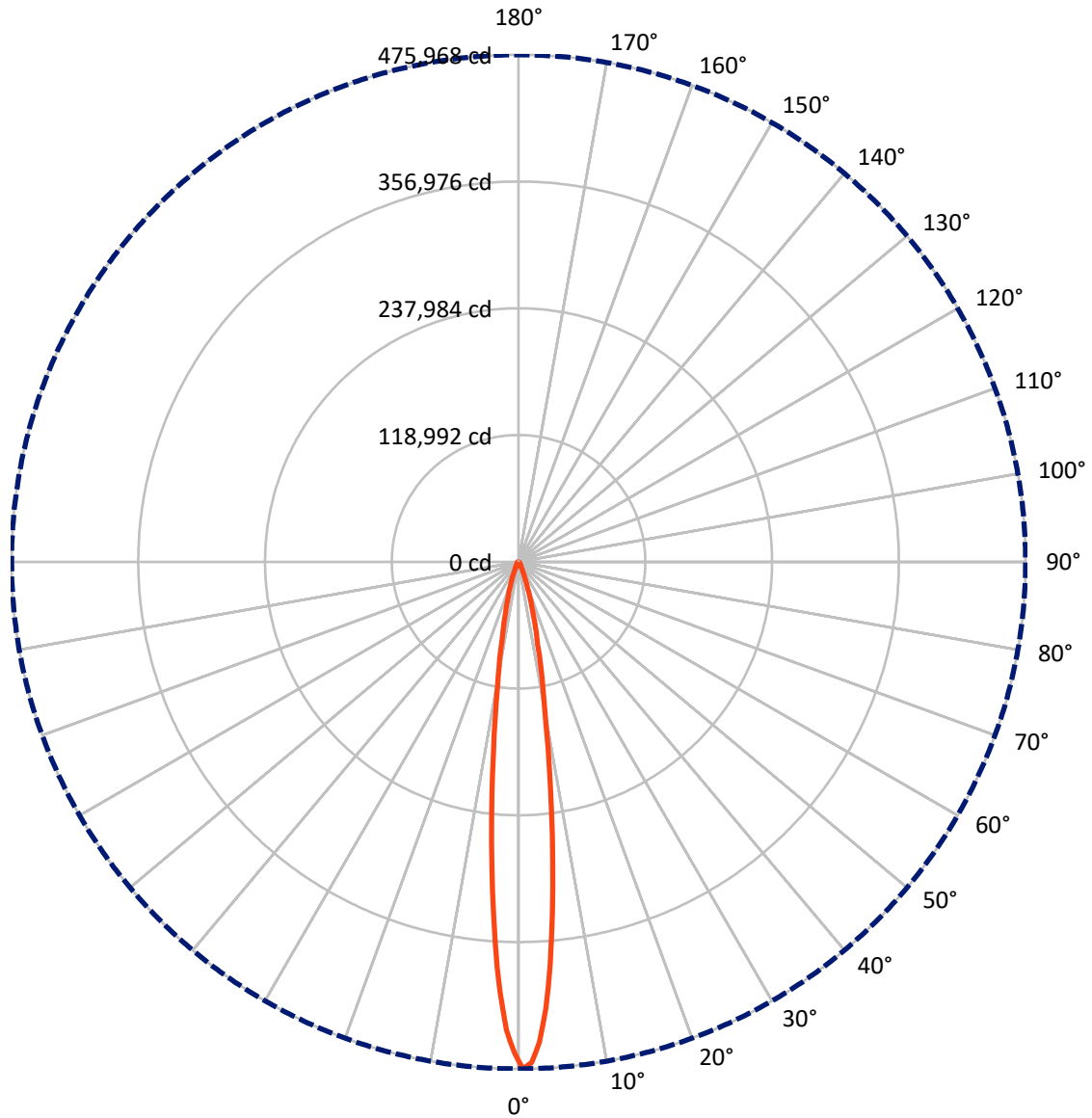
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1189.9 fc
 Type V - Short - N/A

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CATALOG NUMBER: EPH-VN-06-E-730-U-33-VI

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	24542.0	0.0	24542.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	23374.6	0.0	23374.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	47916.7	0.0	47916.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24189.8	50.5
10°-20°	15486.2	32.3
20°-30°	4654.8	9.7
30°-40°	1515.6	3.2
40°-50°	881.8	1.8
50°-60°	585.7	1.2
60°-70°	352.6	0.7
70°-80°	181.2	0.4
80°-90°	68.8	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°	47916.7	100.0
0°-180°	47916.7	100.0

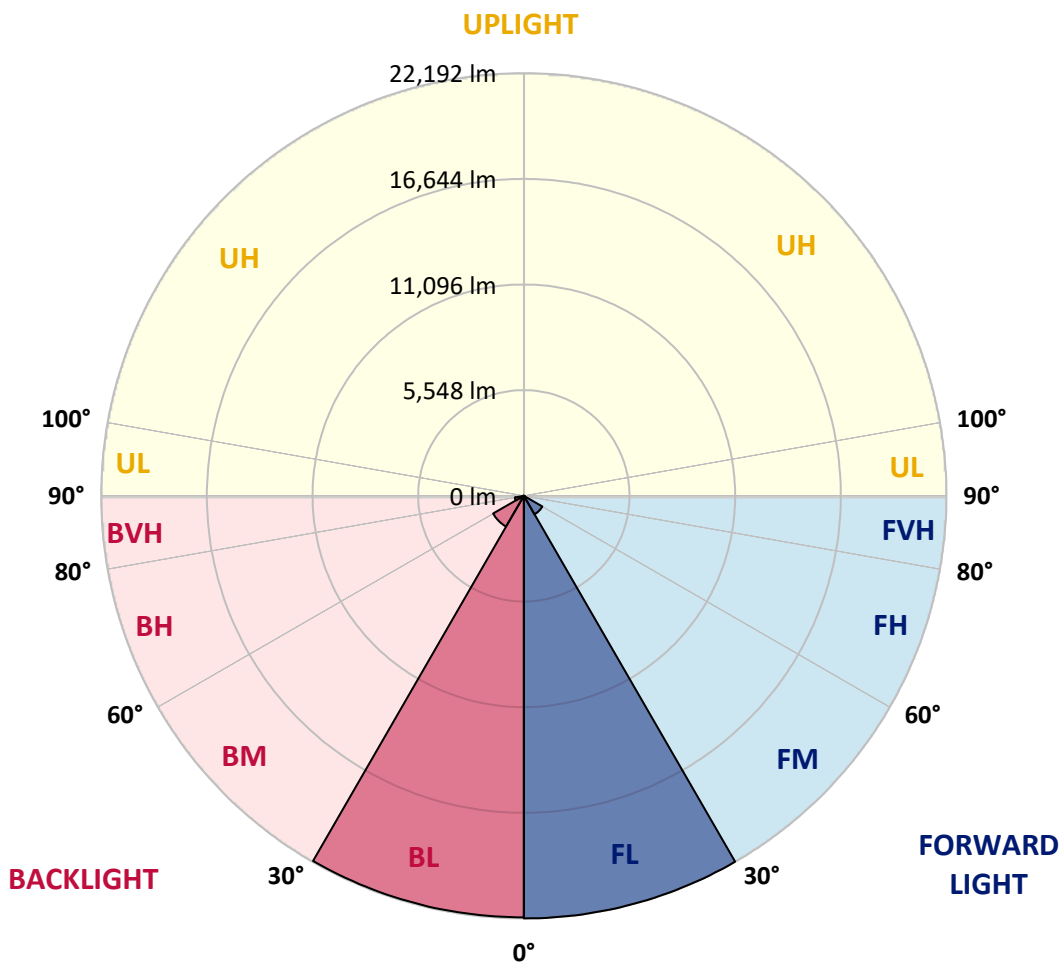


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22191.7	46.3			
FM (30°-60°)	1119.8	2.3			
FH (60°-80°)	52.7	0.1			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	22139.1	46.2	B5		
BM (30°-60°)	1863.4	3.9	B2/2500		
BH (60°-80°)	481.1	1.0	B1/500		G0/660
BVH (80°-90°)	58.5	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°	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9
1°	470268.9	468833.7	465128.3	467763.8	470081.0	469407.8	469360.8	469110.3	468760.6	471505.7
2°	451470.4	450541.5	445061.6	447321.4	450614.5	448213.8	449716.9	448396.5	448422.6	451700.1
3°	419781.3	420287.6	411545.9	415653.2	420230.2	414411.1	416216.8	419609.1	416055.1	414985.2
4°	378593.9	374199.6	369424.3	373599.4	374784.1	371397.0	374726.7	378880.9	373943.8	374163.0
5°	331571.7	328325.5	322673.5	325251.6	322313.4	323383.2	328372.5	330084.3	326639.8	322302.9
6°	283223.9	280917.1	273850.8	277566.6	276522.8	275917.4	282216.6	276997.8	278876.6	276251.5
7°	235585.9	231275.1	227804.5	231363.8	231593.4	229772.0	237950.0	237000.2	233581.8	232788.5
8°	195186.4	190886.1	187947.8	190599.0	192331.7	189471.8	193318.1	195844.0	193172.0	193412.0
9°	157427.8	156671.0	152584.7	156050.0	157934.0	154870.5	159129.1	160042.5	157542.6	158758.6
10°	129261.4	128379.5	125117.6	126521.5	129642.4	125989.2	130075.6	130373.1	128379.5	128948.3
12.5°	79880.3	79525.4	79436.7	79640.2	79598.5	80245.6	81289.4	80099.5	79942.9	77975.4
15°	51630.5	52157.6	51614.8	52658.6	52809.9	53420.5	52783.8	51823.6	49991.7	49083.7
17.5°	32221.4	32894.7	33823.6	35352.8	36881.9	37059.3	36213.9	35086.6	34199.4	33228.7
20°	18537.5	18866.3	18725.4	20557.2	24513.1	25588.2	24497.5	23312.8	22242.9	21261.8
22.5°	11518.1	11398.1	11617.2	12233.1	13522.1	16846.6	15954.1	14769.5	13991.8	13182.9
25°	7061.2	7191.6	7108.1	7447.4	8026.7	9435.8	9639.3	9127.8	8731.2	8313.7
27.5°	4545.7	4545.7	4582.2	4770.1	5166.7	5119.7	6205.3	5808.6	5594.6	5391.1
30°	3157.4	3167.9	3167.9	3277.5	3366.2	3209.6	3491.4	4002.9	3903.7	3747.2
32.5°	2343.3	2374.6	2400.7	2458.1	2385.0	2218.0	2285.9	2880.8	2823.4	2766.0
35°	1784.9	1811.0	1873.6	1904.9	1800.5	1696.1	1633.5	2118.9	2145.0	2129.3
37.5°	1299.5	1315.2	1430.0	1550.0	1430.0	1336.0	1299.5	1628.3	1753.5	1737.9
40°	996.8	1002.0	1022.9	1158.6	1158.6	1085.5	1096.0	1216.0	1435.2	1435.2
42.5°	855.9	855.9	876.8	855.9	861.1	939.4	965.5	981.2	1216.0	1216.0
45°	741.1	741.1	751.5	699.3	647.1	808.9	829.8	835.0	1022.9	1049.0
47.5°	621.0	621.0	641.9	574.1	548.0	641.9	699.3	715.0	882.0	902.9
50°	459.3	464.5	527.1	469.7	485.4	495.8	605.4	615.8	746.3	793.3
52.5°	307.9	307.9	318.4	365.3	422.7	407.1	490.6	527.1	595.0	657.6
55°	250.5	250.5	245.3	234.9	313.1	339.2	360.1	438.4	485.4	563.6
57.5°	172.2	182.7	167.0	193.1	203.5	255.7	271.4	344.4	370.5	474.9
60°	20.9	26.1	36.5	140.9	135.7	172.2	203.5	271.4	302.7	365.3
62.5°	5.2	5.2	10.4	26.1	93.9	114.8	161.8	187.9	219.2	281.8
65°	0.0	0.0	5.2	10.4	20.9	62.6	83.5	109.6	156.6	198.3
67.5°	0.0	0.0	5.2	10.4	10.4	26.1	41.8	67.8	83.5	146.1
70°	0.0	0.0	5.2	10.4	10.4	20.9	26.1	31.3	57.4	78.3
72.5°	0.0	0.0	5.2	10.4	15.7	20.9	26.1	26.1	26.1	52.2
75°	0.0	0.0	5.2	10.4	15.7	20.9	26.1	26.1	20.9	20.9
77.5°	0.0	0.0	5.2	10.4	20.9	26.1	31.3	26.1	15.7	15.7
80°	0.0	0.0	5.2	15.7	26.1	36.5	41.8	31.3	15.7	10.4
82.5°	0.0	0.0	10.4	20.9	31.3	41.8	57.4	47.0	20.9	10.4
85°	0.0	0.0	5.2	15.7	31.3	41.8	83.5	57.4	26.1	5.2
87.5°	0.0	0.0	0.0	5.2	5.2	10.4	31.3	20.9	10.4	5.2
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°
475967.9	0°	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9	475967.9
468337.9	1°	471610.1	471938.9	470863.8	472528.6	471944.1	468520.5	467388.0	466046.8
449774.3	2°	448396.5	450071.8	450155.3	452002.8	451976.7	447984.2	446747.3	449028.0
417156.2	3°	415893.3	417845.1	416086.4	419369.0	418382.7	413539.5	412281.8	414870.4
375895.7	4°	374773.6	374403.1	373797.7	371929.3	374230.9	370927.3	368437.9	371950.2
328054.1	5°	327396.6	326572.0	325392.5	324839.3	326551.1	324437.5	319317.7	324447.9
281000.6	6°	281345.1	277796.2	277624.0	277316.1	277488.3	271570.1	271925.0	275745.2
230059.1	7°	232491.1	233143.4	231812.6	233947.1	232318.8	228310.7	226765.9	230789.7
194466.2	8°	193109.3	192284.7	191267.1	194455.8	191632.4	189002.1	187201.5	190379.9
158956.9	9°	158659.4	157234.7	156201.3	156039.6	156477.9	151540.9	152542.9	154948.8
129261.4	10°	129308.4	126970.4	127539.2	127690.6	127210.4	123974.7	124006.0	124835.8
79280.1	12.5°	78998.3	77850.2	78137.2	78293.8	79269.7	78132.0	76524.6	75366.0
49986.5	15°	49652.5	48827.9	50513.6	51646.1	51416.5	50404.0	49647.3	48598.3
33228.7	17.5°	32920.8	34001.1	34006.3	35039.6	35144.0	34131.5	33547.0	32602.4
21611.4	20°	21533.1	21982.0	22916.1	23646.8	24069.5	23297.1	22597.8	21950.6
13475.2	22.5°	13475.2	14258.0	14842.5	15792.4	16178.6	15614.9	15119.1	14592.0
8412.8	25°	8271.9	8830.4	9315.7	10140.3	10667.4	10396.0	9942.0	9571.4
5432.9	27.5°	5516.4	5751.2	5991.3	6560.1	7108.1	6956.8	6774.1	6549.7
3830.7	30°	3888.1	3908.9	4164.7	4483.0	4848.3	4942.3	4858.8	4744.0
2813.0	32.5°	2865.2	2948.7	3068.7	3267.0	3512.3	3736.7	3695.0	3642.8
2150.2	35°	2212.8	2338.1	2437.2	2588.6	2719.0	2933.0	2969.5	2953.9
1769.2	37.5°	1805.7	1915.3	2014.5	2103.2	2212.8	2358.9	2473.8	2479.0
1461.3	40°	1497.8	1597.0	1727.5	1795.3	1873.6	1983.2	2124.1	2134.5
1236.9	42.5°	1263.0	1356.9	1487.4	1570.9	1628.3	1732.7	1873.6	1894.5
1059.4	45°	1085.5	1142.9	1278.6	1377.8	1435.2	1503.0	1654.4	1675.3
913.3	47.5°	944.6	1002.0	1085.5	1226.4	1278.6	1341.3	1461.3	1497.8
808.9	50°	829.8	887.2	960.3	1085.5	1163.8	1216.0	1315.2	1367.3
704.6	52.5°	735.9	793.3	871.6	970.7	1059.4	1106.4	1200.3	1268.2
574.1	55°	615.8	715.0	772.4	861.1	981.2	1022.9	1096.0	1184.7
501.0	57.5°	537.5	621.0	704.6	777.6	897.6	949.8	1022.9	1106.4
396.6	60°	454.0	532.3	631.5	694.1	808.9	876.8	955.1	1033.3
302.7	62.5°	360.1	464.5	532.3	621.0	730.6	819.4	882.0	960.3
234.9	65°	266.2	381.0	459.3	553.2	657.6	751.5	803.7	887.2
167.0	67.5°	193.1	297.5	391.4	480.1	579.3	673.2	725.4	798.5
104.4	70°	151.3	219.2	323.6	401.9	506.2	584.5	641.9	688.9
67.8	72.5°	88.7	167.0	260.9	349.7	443.6	495.8	537.5	579.3
31.3	75°	57.4	130.5	214.0	292.3	360.1	407.1	443.6	480.1
15.7	77.5°	36.5	93.9	172.2	245.3	276.6	334.0	365.3	386.2
10.4	80°	20.9	73.1	151.3	198.3	224.4	260.9	292.3	318.4
10.4	82.5°	15.7	62.6	125.3	167.0	167.0	208.8	224.4	224.4
5.2	85°	10.4	52.2	99.2	156.6	125.3	156.6	146.1	146.1
5.2	87.5°	10.4	36.5	47.0	67.8	57.4	67.8	67.8	78.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
475967.9
460734.0
439367.8
403373.2
359237.0
310931.0
264670.7
219845.7
181304.2
147433.6
119189.0
74661.4
48060.7
32367.5
21726.2
14310.2
9357.5
6419.2
4665.7
3601.0
2901.7
2442.4
2118.9
1878.8
1670.0
1503.0
1372.6
1268.2
1189.9
1111.6
1054.2
996.8
902.9
803.7
704.6
589.7
480.1
375.8
287.0
208.8
140.9
78.3
0.0

(END OF REPORT)