

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: P638609

Luminaire Tested: **EPH-VN-07-E-940-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638609
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-940-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40566.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

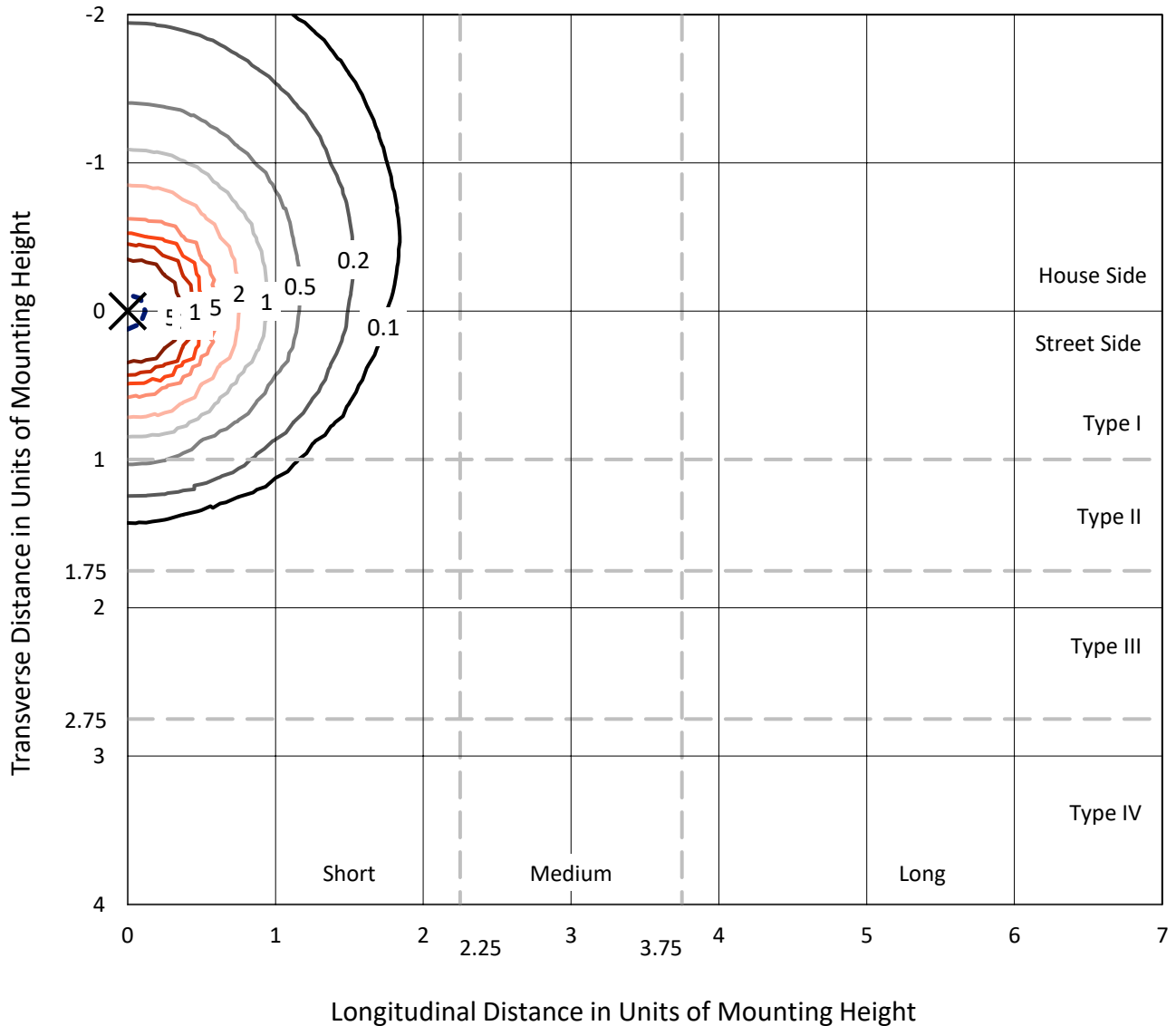
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638609
 CATALOG NUMBER: EPH-VN-07-E-940-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

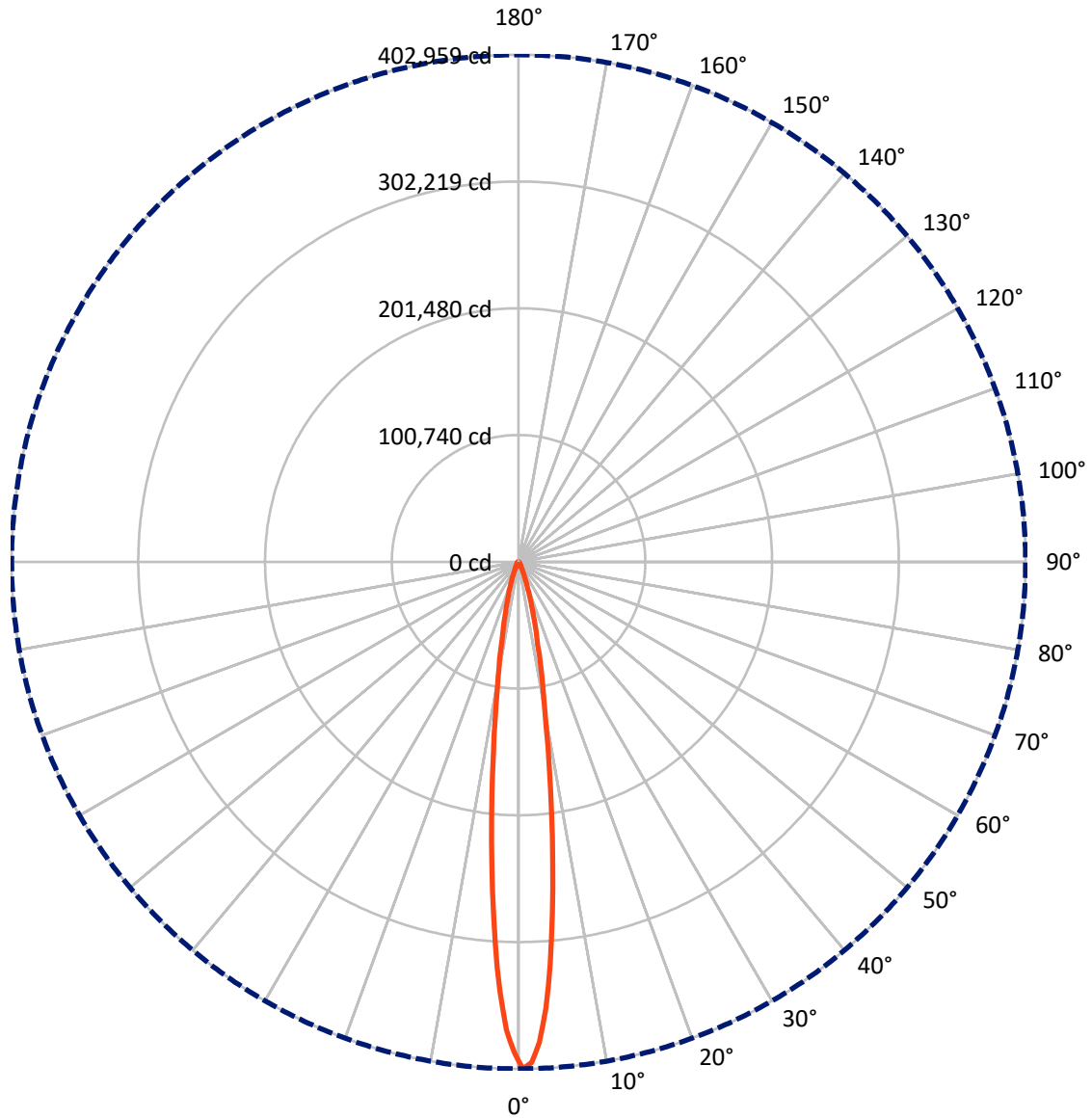
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1007.4 fc
 Type V - Short - N/A

REPORT NUMBER: P638609
CATALOG NUMBER: EPH-VN-07-E-940-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P638609
 CATALOG NUMBER: EPH-VN-07-E-940-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20777.5	0.0	20777.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19789.2	0.0	19789.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	40566.7	0.0	40566.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20479.3	50.5
10°-20°	13110.8	32.3
20°-30°	3940.8	9.7
30°-40°	1283.1	3.2
40°-50°	746.6	1.8
50°-60°	495.9	1.2
60°-70°	298.5	0.7
70°-80°	153.4	0.4
80°-90°	58.3	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°	40566.7	100.0
0°-180°	40566.7	100.0

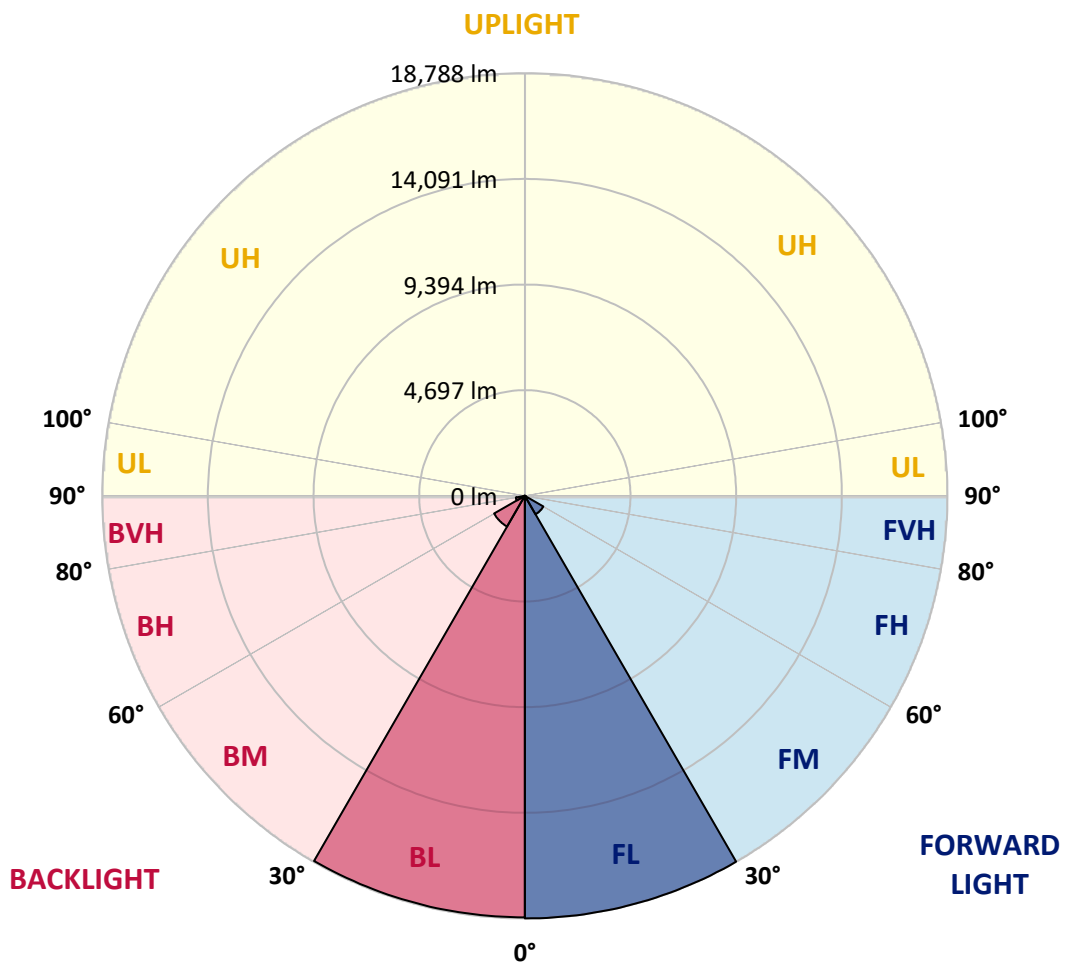


REPORT NUMBER: P638609
 CATALOG NUMBER: EPH-VN-07-E-940-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18787.7	46.3			
FM (30°-60°)	948.1	2.3			
FH (60°-80°)	44.6	0.1			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	18743.2	46.2	B5		
BM (30°-60°)	1577.5	3.9	B2/2500		
BH (60°-80°)	407.3	1.0	B1/500		G0/660
BVH (80°-90°)	49.5	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





REPORT NUMBER: P638609
 CATALOG NUMBER: EPH-VN-07-E-940-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0
1°	398134.1	396919.1	393782.0	396013.3	397975.0	397405.1	397365.3	397153.2	396857.2	399181.3
2°	382219.2	381432.7	376793.4	378706.6	381494.6	379462.1	380734.6	379616.8	379638.8	382413.6
3°	355390.9	355819.5	348418.7	351896.0	355770.9	350844.4	352373.1	355245.1	352236.2	351330.4
4°	320521.2	316800.9	312758.1	316292.8	317295.8	314428.3	317247.2	320764.2	316584.4	316770.0
5°	280711.7	277963.5	273178.4	275361.1	272873.6	273779.3	278003.3	279452.5	276536.4	272864.7
6°	239780.0	237827.1	231844.7	234990.5	234106.9	233594.3	238927.3	234508.9	236099.5	233877.1
7°	199449.2	195799.7	192861.5	195874.8	196069.2	194527.2	201450.8	200646.6	197752.6	197081.0
8°	165246.7	161606.0	159118.4	161363.0	162829.9	160408.6	163664.9	165803.4	163541.2	163744.5
9°	133279.9	132639.2	129179.6	132113.4	133708.4	131114.9	134720.2	135493.5	133377.1	134406.5
10°	109434.0	108687.3	105925.8	107114.3	109756.5	106663.7	110123.2	110375.1	108687.3	109168.9
12.5°	67627.4	67327.0	67251.9	67424.2	67388.8	67936.7	68820.4	67813.0	67680.5	66014.7
15°	43710.8	44157.1	43697.6	44581.3	44709.4	45226.3	44687.3	43874.3	42323.5	41554.7
17.5°	27279.0	27848.9	28635.4	29930.0	31224.6	31374.8	30659.0	29704.6	28953.5	28131.7
20°	15694.0	15972.4	15853.1	17403.9	20753.0	21663.2	20739.8	19736.8	18831.1	18000.4
22.5°	9751.3	9649.7	9835.3	10356.6	11448.0	14262.5	13506.9	12504.0	11845.6	11160.8
25°	5978.0	6088.5	6017.8	6305.0	6795.4	7988.4	8160.7	7727.7	7391.9	7038.4
27.5°	3848.4	3848.4	3879.3	4038.4	4374.2	4334.4	5253.4	4917.6	4736.5	4564.2
30°	2673.1	2681.9	2681.9	2774.7	2849.8	2717.3	2955.9	3388.9	3304.9	3172.4
32.5°	1983.8	2010.4	2032.4	2081.0	2019.2	1877.8	1935.2	2438.9	2390.3	2341.7
35°	1511.1	1533.2	1586.2	1612.7	1524.3	1436.0	1382.9	1793.9	1815.9	1802.7
37.5°	1100.2	1113.4	1210.6	1312.3	1210.6	1131.1	1100.2	1378.5	1484.6	1471.3
40°	843.9	848.3	866.0	980.9	980.9	919.0	927.9	1029.5	1215.0	1215.0
42.5°	724.6	724.6	742.3	724.6	729.0	795.3	817.4	830.7	1029.5	1029.5
45°	627.4	627.4	636.2	592.1	547.9	684.8	702.5	706.9	866.0	888.1
47.5°	525.8	525.8	543.5	486.0	463.9	543.5	592.1	605.3	746.7	764.4
50°	388.8	393.2	446.3	397.7	410.9	419.7	512.5	521.4	631.8	671.6
52.5°	260.7	260.7	269.5	309.3	357.9	344.6	415.3	446.3	503.7	556.7
55°	212.1	212.1	207.7	198.8	265.1	287.2	304.9	371.1	410.9	477.2
57.5°	145.8	154.6	141.4	163.5	172.3	216.5	229.8	291.6	313.7	402.1
60°	17.7	22.1	30.9	119.3	114.9	145.8	172.3	229.8	256.3	309.3
62.5°	4.4	4.4	8.8	22.1	79.5	97.2	137.0	159.1	185.6	238.6
65°	0.0	0.0	4.4	8.8	17.7	53.0	70.7	92.8	132.6	167.9
67.5°	0.0	0.0	4.4	8.8	8.8	22.1	35.3	57.4	70.7	123.7
70°	0.0	0.0	4.4	8.8	8.8	17.7	22.1	26.5	48.6	66.3
72.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	22.1	22.1	44.2
75°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	22.1	17.7	17.7
77.5°	0.0	0.0	4.4	8.8	17.7	22.1	26.5	22.1	13.3	13.3
80°	0.0	0.0	4.4	13.3	22.1	30.9	35.3	26.5	13.3	8.8
82.5°	0.0	0.0	8.8	17.7	26.5	35.3	48.6	39.8	17.7	8.8
85°	0.0	0.0	4.4	13.3	26.5	35.3	70.7	48.6	22.1	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	26.5	17.7	8.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638609

CATALOG NUMBER: EPH-VN-07-E-940-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
402959.0	0°	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0	402959.0
396499.3	1°	399269.6	399548.0	398637.8	400047.3	399552.4	396654.0	395695.2	394559.7
380783.2	2°	379616.8	381035.0	381105.7	382669.8	382647.7	379267.7	378220.6	380151.4
353168.4	3°	352099.2	353751.7	352262.7	355041.8	354206.8	350106.5	349041.7	351233.2
318236.9	4°	317286.9	316973.2	316460.7	314878.9	316827.4	314030.6	311923.0	314896.6
277733.8	5°	277177.0	276478.9	275480.4	275012.1	276461.3	274671.8	270337.4	274680.7
237897.8	6°	238189.4	235184.9	235039.1	234778.5	234924.3	229913.8	230214.3	233448.5
194770.2	7°	196829.2	197381.4	196254.8	198061.9	196683.3	193290.0	191982.2	195388.8
164637.0	8°	163488.2	162790.1	161928.5	164628.1	162237.8	160010.9	158486.6	161177.4
134574.4	9°	134322.6	133116.4	132241.5	132104.6	132475.7	128296.0	129144.3	131181.1
109434.0	10°	109473.7	107494.3	107975.9	108104.0	107697.6	104958.2	104984.7	105687.2
67119.3	12.5°	66880.7	65908.7	66151.7	66284.3	67110.5	66147.3	64786.4	63805.6
42319.1	15°	42036.3	41338.2	42765.3	43724.1	43529.7	42672.5	42031.9	41143.8
28131.7	17.5°	27871.0	28785.6	28790.0	29664.9	29753.2	28896.1	28401.2	27601.5
18296.4	20°	18230.2	18610.1	19401.0	20019.6	20377.5	19723.6	19131.5	18583.6
11408.2	22.5°	11408.2	12071.0	12565.8	13370.0	13696.9	13219.7	12800.0	12353.7
7122.4	25°	7003.1	7475.9	7886.8	8584.9	9031.1	8801.4	8417.0	8103.3
4599.5	27.5°	4670.2	4869.0	5072.3	5553.9	6017.8	5889.7	5735.0	5545.0
3243.1	30°	3291.7	3309.4	3525.9	3795.4	4104.7	4184.2	4113.5	4016.3
2381.5	32.5°	2425.7	2496.4	2598.0	2765.9	2973.6	3163.5	3128.2	3084.0
1820.4	35°	1873.4	1979.4	2063.4	2191.5	2302.0	2483.1	2514.0	2500.8
1497.8	37.5°	1528.8	1621.5	1705.5	1780.6	1873.4	1997.1	2094.3	2098.7
1237.1	40°	1268.1	1352.0	1462.5	1519.9	1586.2	1679.0	1798.3	1807.1
1047.2	42.5°	1069.2	1148.8	1259.2	1329.9	1378.5	1466.9	1586.2	1603.9
896.9	45°	919.0	967.6	1082.5	1166.4	1215.0	1272.5	1400.6	1418.3
773.2	47.5°	799.7	848.3	919.0	1038.3	1082.5	1135.5	1237.1	1268.1
684.8	50°	702.5	751.1	813.0	919.0	985.3	1029.5	1113.4	1157.6
596.5	52.5°	623.0	671.6	737.9	821.8	896.9	936.7	1016.2	1073.7
486.0	55°	521.4	605.3	653.9	729.0	830.7	866.0	927.9	1003.0
424.2	57.5°	455.1	525.8	596.5	658.3	760.0	804.1	866.0	936.7
335.8	60°	384.4	450.7	534.6	587.6	684.8	742.3	808.6	874.8
256.3	62.5°	304.9	393.2	450.7	525.8	618.6	693.7	746.7	813.0
198.8	65°	225.3	322.5	388.8	468.3	556.7	636.2	680.4	751.1
141.4	67.5°	163.5	251.8	331.4	406.5	490.4	570.0	614.2	676.0
88.4	70°	128.1	185.6	273.9	340.2	428.6	494.9	543.5	583.2
57.4	72.5°	75.1	141.4	220.9	296.0	375.6	419.7	455.1	490.4
26.5	75°	48.6	110.5	181.2	247.4	304.9	344.6	375.6	406.5
13.3	77.5°	30.9	79.5	145.8	207.7	234.2	282.8	309.3	327.0
8.8	80°	17.7	61.9	128.1	167.9	190.0	220.9	247.4	269.5
8.8	82.5°	13.3	53.0	106.0	141.4	141.4	176.7	190.0	190.0
4.4	85°	8.8	44.2	83.9	132.6	106.0	132.6	123.7	123.7
4.4	87.5°	8.8	30.9	39.8	57.4	48.6	57.4	57.4	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
402959.0
390061.8
371973.0
341499.6
304133.5
263237.1
224072.8
186123.5
153493.9
124818.7
100906.5
63209.1
40688.7
27402.7
18393.6
12115.1
7922.1
5434.6
3950.0
3048.7
2456.6
2067.8
1793.9
1590.6
1413.9
1272.5
1162.0
1073.7
1007.4
941.1
892.5
843.9
764.4
680.4
596.5
499.3
406.5
318.1
243.0
176.7
119.3
66.3
0.0

(END OF REPORT)