

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: P638568

Luminaire Tested: **EPH-VN-08-D-730-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638568
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-730-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50483.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

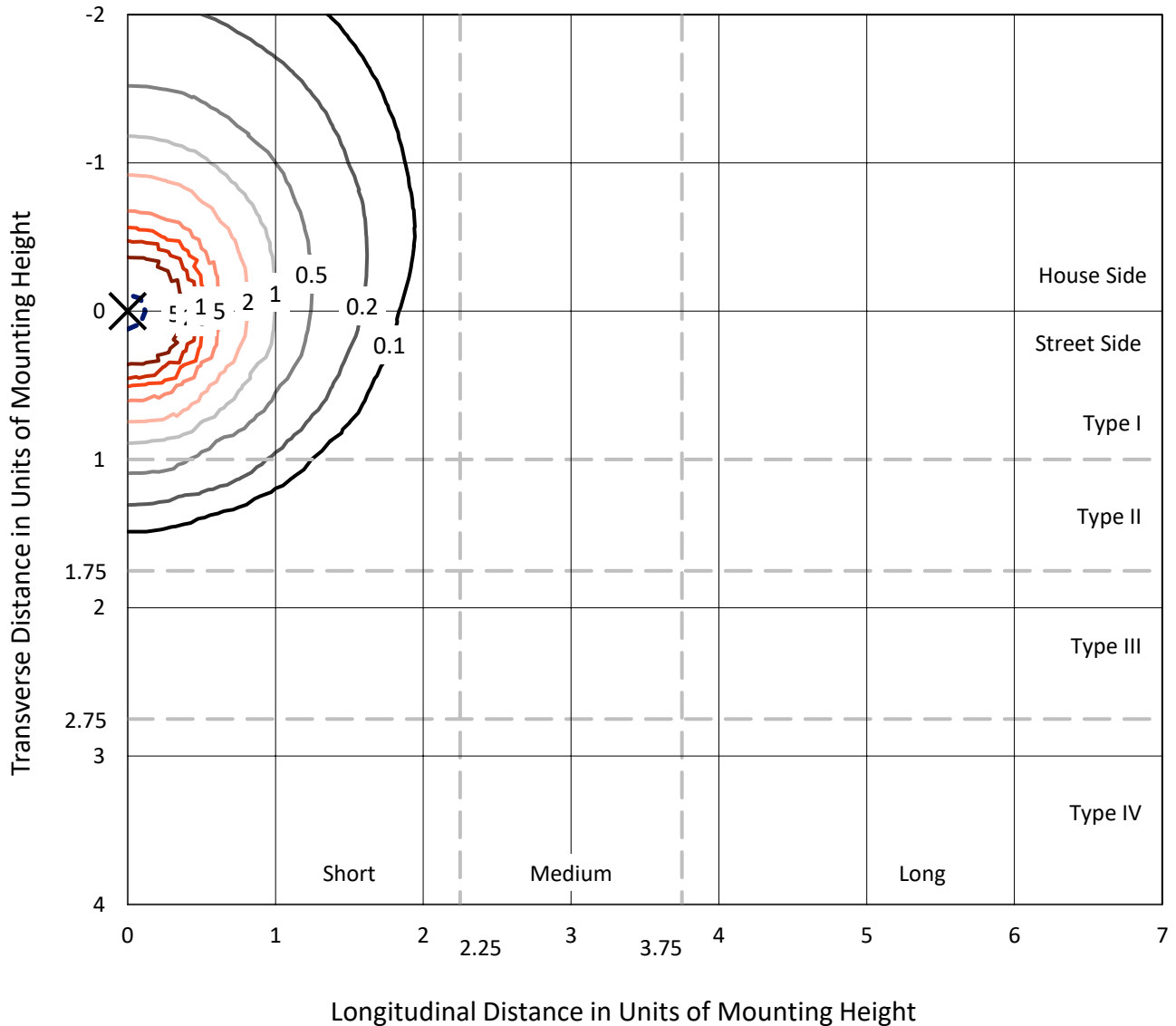
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638568
 CATALOG NUMBER: EPH-VN-08-D-730-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

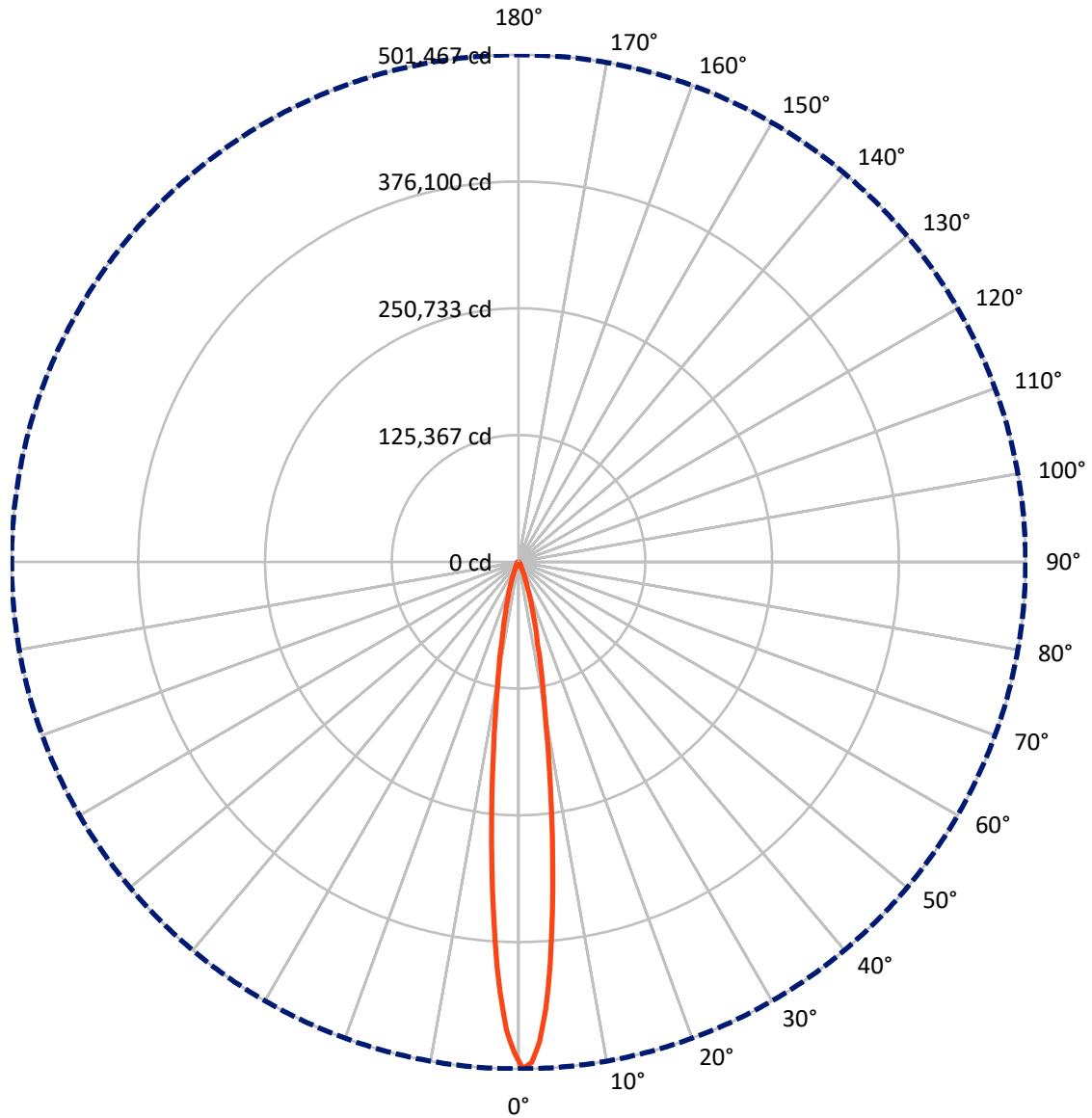
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1253.7 fc
 Type V - Short - N/A

REPORT NUMBER: P638568
CATALOG NUMBER: EPH-VN-08-D-730-U-33-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638568
 CATALOG NUMBER: EPH-VN-08-D-730-U-33-VI

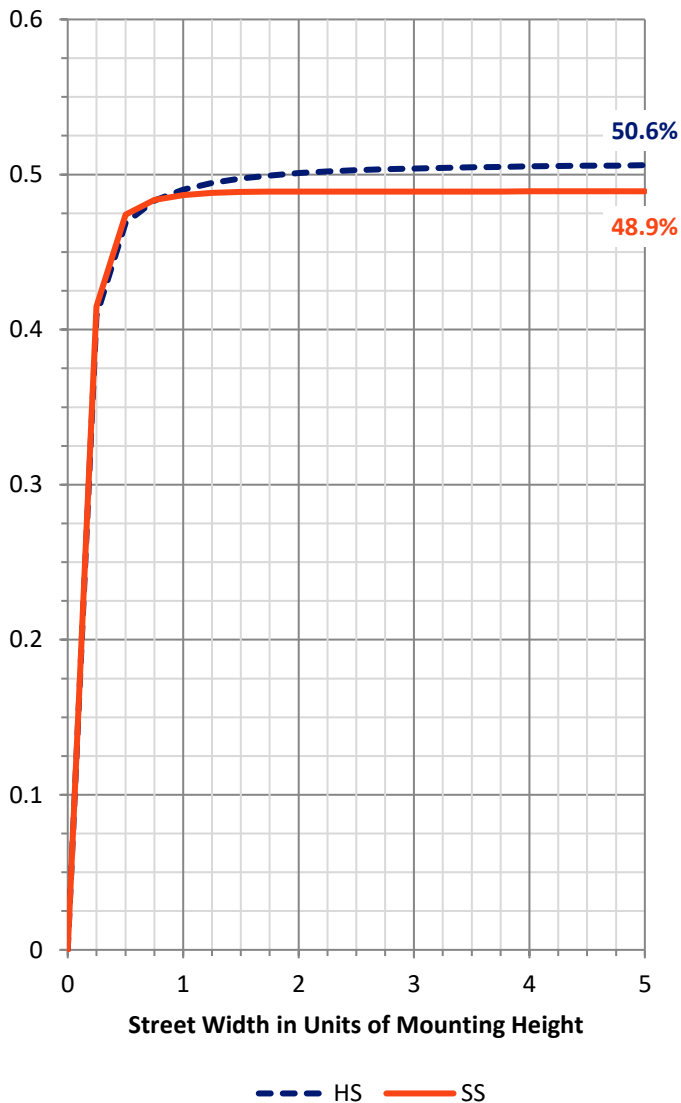
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25856.8	0.0	25856.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	24626.9	0.0	24626.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	50483.7	0.0	50483.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25485.7	50.5
10°-20°	16315.8	32.3
20°-30°	4904.2	9.7
30°-40°	1596.8	3.2
40°-50°	929.1	1.8
50°-60°	617.1	1.2
60°-70°	371.5	0.7
70°-80°	190.9	0.4
80°-90°	72.5	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°	50483.7	100.0
0°-180°	50483.7	100.0

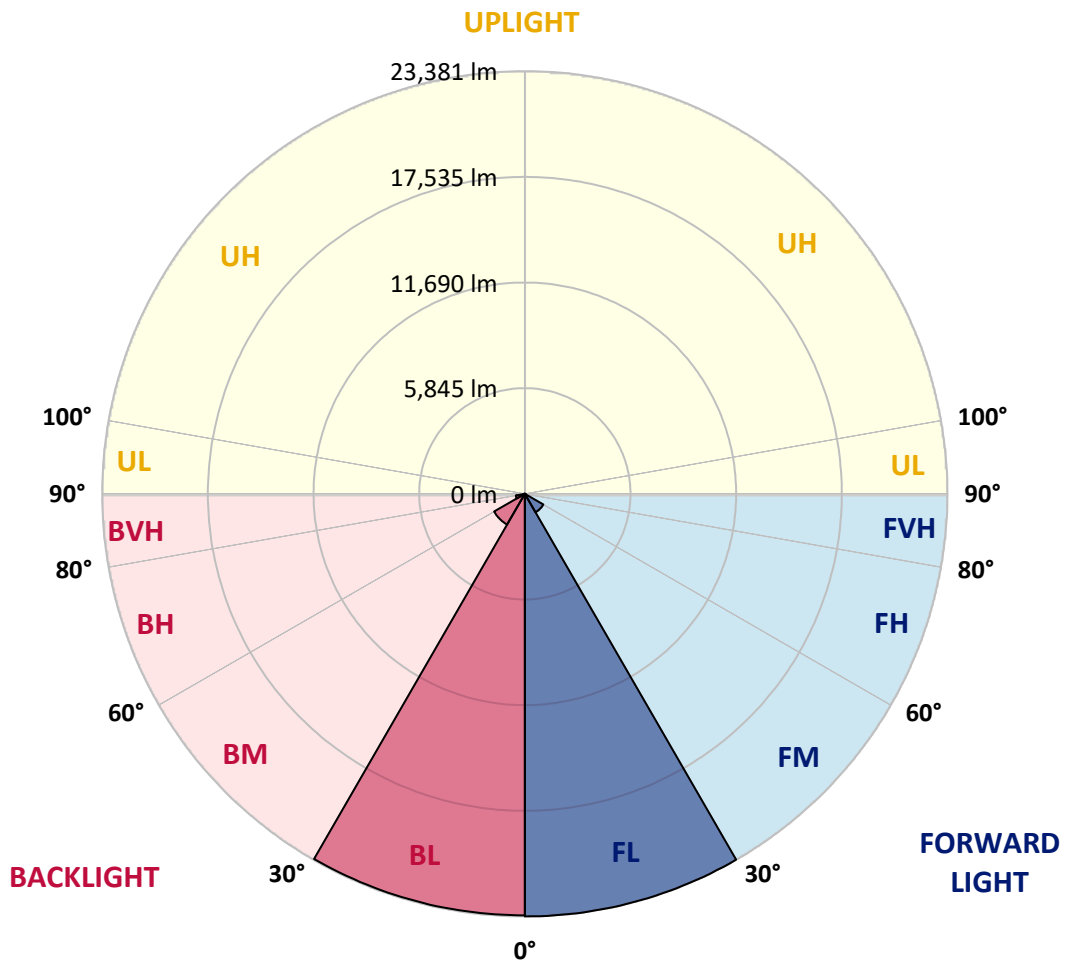


REPORT NUMBER: P638568
 CATALOG NUMBER: EPH-VN-08-D-730-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	23380.6	46.3			
FM (30°-60°)	1179.8	2.3			
FH (60°-80°)	55.5	0.1			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	23325.1	46.2	B5		
BM (30°-60°)	1963.2	3.9	B2/2500		
BH (60°-80°)	506.9	1.0	B2/1000		G0/660
BVH (80°-90°)	61.6	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





REPORT NUMBER: P638568
 CATALOG NUMBER: EPH-VN-08-D-730-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6
1°	495462.3	493950.2	490046.3	492823.0	495264.4	494555.1	494505.6	494241.6	493873.2	496765.4
2°	475656.8	474678.1	468904.7	471285.5	474755.0	472225.7	473809.3	472418.2	472445.7	475898.7
3°	442270.0	442803.4	433593.4	437920.7	442742.9	436612.1	438514.6	442088.6	438344.1	437216.9
4°	398876.1	394246.3	389215.2	393614.0	394862.2	391293.7	394801.7	399178.5	393976.9	394207.8
5°	349334.8	345914.7	339959.9	342676.1	339580.5	340707.7	345964.2	347767.7	344138.7	339569.5
6°	298396.9	295966.5	288521.6	292436.5	291336.8	290699.0	297335.7	291837.2	293816.6	291050.9
7°	248206.8	243665.0	240008.5	243758.5	244000.4	242081.5	250697.6	249696.9	246095.4	245259.6
8°	205643.1	201112.3	198016.7	200809.9	202635.4	199622.2	203674.6	206335.9	203520.6	203773.6
9°	165861.6	165064.3	160759.0	164410.0	166394.9	163167.3	167654.1	168616.3	165982.5	167263.7
10°	136186.3	135257.0	131820.5	133299.6	136587.7	132738.7	137044.1	137357.5	135257.0	135856.4
12.5°	84159.7	83785.8	83692.3	83906.8	83862.8	84544.6	85644.3	84390.6	84225.7	82152.8
15°	54396.4	54951.8	54379.9	55479.6	55639.1	56282.4	55611.6	54599.9	52669.9	51713.2
17.5°	33947.6	34656.9	35635.6	37246.7	38857.7	39044.7	38153.9	36966.3	36031.5	35008.8
20°	19530.6	19877.0	19728.5	21658.5	25826.3	26959.0	25809.9	24561.7	23434.5	22400.8
22.5°	12135.1	12008.7	12239.6	12888.4	14246.6	17749.1	16808.8	15560.7	14741.4	13889.2
25°	7439.4	7576.9	7488.9	7846.3	8456.7	9941.2	10155.7	9616.8	9199.0	8759.1
27.5°	4789.2	4789.2	4827.7	5025.6	5443.5	5394.0	6537.7	6119.8	5894.4	5679.9
30°	3326.6	3337.6	3337.6	3453.0	3546.5	3381.6	3678.5	4217.3	4112.9	3947.9
32.5°	2468.8	2501.8	2529.3	2589.8	2512.8	2336.9	2408.3	3035.2	2974.7	2914.2
35°	1880.5	1908.0	1974.0	2006.9	1897.0	1787.0	1721.0	2232.4	2259.9	2243.4
37.5°	1369.1	1385.6	1506.6	1633.0	1506.6	1407.6	1369.1	1715.5	1847.5	1831.0
40°	1050.2	1055.7	1077.7	1220.7	1220.7	1143.7	1154.7	1281.1	1512.1	1512.1
42.5°	901.8	901.8	923.7	901.8	907.2	989.7	1017.2	1033.7	1281.1	1281.1
45°	780.8	780.8	791.8	736.8	681.8	852.3	874.3	879.8	1077.7	1105.2
47.5°	654.3	654.3	676.3	604.8	577.3	676.3	736.8	753.3	929.2	951.2
50°	483.9	489.4	555.3	494.9	511.4	522.4	637.8	648.8	786.3	835.8
52.5°	324.4	324.4	335.4	384.9	445.4	428.9	516.9	555.3	626.8	692.8
55°	263.9	263.9	258.4	247.4	329.9	357.4	379.4	461.9	511.4	593.8
57.5°	181.4	192.4	176.0	203.4	214.4	269.4	285.9	362.9	390.4	500.4
60°	22.0	27.5	38.5	148.5	143.0	181.4	214.4	285.9	318.9	384.9
62.5°	5.5	5.5	11.0	27.5	99.0	121.0	170.5	197.9	230.9	296.9
65°	0.0	0.0	5.5	11.0	22.0	66.0	88.0	115.5	165.0	208.9
67.5°	0.0	0.0	5.5	11.0	11.0	27.5	44.0	71.5	88.0	154.0
70°	0.0	0.0	5.5	11.0	11.0	22.0	27.5	33.0	60.5	82.5
72.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.5	27.5	27.5	55.0
75°	0.0	0.0	5.5	11.0	16.5	22.0	27.5	27.5	22.0	22.0
77.5°	0.0	0.0	5.5	11.0	22.0	27.5	33.0	27.5	16.5	16.5
80°	0.0	0.0	5.5	16.5	27.5	38.5	44.0	33.0	16.5	11.0
82.5°	0.0	0.0	11.0	22.0	33.0	44.0	60.5	49.5	22.0	11.0
85°	0.0	0.0	5.5	16.5	33.0	44.0	88.0	60.5	27.5	5.5
87.5°	0.0	0.0	0.0	5.5	5.5	11.0	33.0	22.0	11.0	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638568

CATALOG NUMBER: EPH-VN-08-D-730-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
501466.6	0°	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6	501466.6
493427.9	1°	496875.4	497221.8	496089.1	497843.2	497227.3	493620.3	492427.2	491014.0
473869.8	2°	472418.2	474183.2	474271.2	476217.6	476190.1	471983.8	470680.7	473083.5
439504.3	3°	438173.7	440230.1	438377.1	441835.7	440796.4	435693.9	434368.7	437096.0
396033.3	4°	394851.2	394460.8	393823.0	391854.5	394279.3	390798.8	388176.0	391876.5
345628.8	5°	344936.0	344067.2	342824.6	342241.7	344045.2	341818.4	336424.3	341829.3
296054.5	6°	296417.4	292678.5	292497.0	292172.6	292354.0	286118.8	286492.7	290517.6
242383.9	7°	244946.2	245633.5	244231.4	246480.3	244764.7	240541.9	238914.3	243153.7
204884.3	8°	203454.7	202585.9	201513.7	204873.3	201898.6	199127.4	197230.4	200579.0
167472.6	9°	167159.2	165658.1	164569.4	164399.0	164860.9	159659.3	160715.0	163249.8
136186.3	10°	136235.8	133772.5	134371.8	134531.2	134025.4	130616.3	130649.3	131523.6
83527.4	12.5°	83230.5	82020.8	82323.2	82488.2	83516.4	82317.7	80624.2	79403.5
52664.4	15°	52312.5	51443.8	53219.8	54412.9	54171.0	53104.3	52307.0	51201.8
35008.8	17.5°	34684.4	35822.6	35828.1	36916.8	37026.7	35960.0	35344.2	34349.0
22769.2	20°	22686.7	23159.6	24143.8	24913.6	25359.0	24545.2	23808.4	23126.6
14197.1	22.5°	14197.1	15021.8	15637.7	16638.4	17045.3	16451.4	15929.1	15373.7
8863.5	25°	8715.1	9303.4	9814.8	10683.5	11238.9	10953.0	10474.6	10084.2
5723.9	27.5°	5811.9	6059.3	6312.3	6911.6	7488.9	7329.5	7137.0	6900.6
4035.9	30°	4096.4	4118.4	4387.8	4723.2	5108.1	5207.1	5119.1	4998.1
2963.7	32.5°	3018.7	3106.6	3233.1	3442.0	3700.5	3936.9	3892.9	3837.9
2265.4	35°	2331.4	2463.3	2567.8	2727.2	2864.7	3090.1	3128.6	3112.1
1864.0	37.5°	1902.5	2017.9	2122.4	2215.9	2331.4	2485.3	2606.3	2611.8
1539.6	40°	1578.1	1682.5	1820.0	1891.5	1974.0	2089.4	2237.9	2248.9
1303.1	42.5°	1330.6	1429.6	1567.1	1655.0	1715.5	1825.5	1974.0	1995.9
1116.2	45°	1143.7	1204.2	1347.1	1451.6	1512.1	1583.6	1743.0	1765.0
962.2	47.5°	995.2	1055.7	1143.7	1292.1	1347.1	1413.1	1539.6	1578.1
852.3	50°	874.3	934.7	1011.7	1143.7	1226.2	1281.1	1385.6	1440.6
742.3	52.5°	775.3	835.8	918.2	1022.7	1116.2	1165.7	1264.6	1336.1
604.8	55°	648.8	753.3	813.8	907.2	1033.7	1077.7	1154.7	1248.2
527.9	57.5°	566.3	654.3	742.3	819.3	945.7	1000.7	1077.7	1165.7
417.9	60°	478.4	560.8	665.3	731.3	852.3	923.7	1006.2	1088.7
318.9	62.5°	379.4	489.4	560.8	654.3	769.8	863.3	929.2	1011.7
247.4	65°	280.4	401.4	483.9	582.8	692.8	791.8	846.8	934.7
176.0	67.5°	203.4	313.4	412.4	505.9	610.3	709.3	764.3	841.3
110.0	70°	159.5	230.9	340.9	423.4	533.4	615.8	676.3	725.8
71.5	72.5°	93.5	176.0	274.9	368.4	467.4	522.4	566.3	610.3
33.0	75°	60.5	137.5	225.4	307.9	379.4	428.9	467.4	505.9
16.5	77.5°	38.5	99.0	181.4	258.4	291.4	351.9	384.9	406.9
11.0	80°	22.0	77.0	159.5	208.9	236.4	274.9	307.9	335.4
11.0	82.5°	16.5	66.0	132.0	176.0	176.0	219.9	236.4	236.4
5.5	85°	11.0	55.0	104.5	165.0	132.0	165.0	154.0	154.0
5.5	87.5°	11.0	38.5	49.5	71.5	60.5	71.5	71.5	82.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
501466.6
485416.6
462905.8
424982.8
378482.2
327588.3
278849.8
231623.4
191017.1
155332.0
125574.2
78661.2
50635.5
34101.6
22890.2
15076.8
9858.8
6763.1
4915.6
3793.9
3057.2
2573.3
2232.4
1979.5
1759.5
1583.6
1446.1
1336.1
1253.7
1171.2
1110.7
1050.2
951.2
846.8
742.3
621.3
505.9
395.9
302.4
219.9
148.5
82.5
0.0

(END OF REPORT)