

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: P638581

Luminaire Tested: **EPH-VN-08-E-740-U-33-VI**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-08
Report Number: P638581
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-33-VI
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68087.8 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

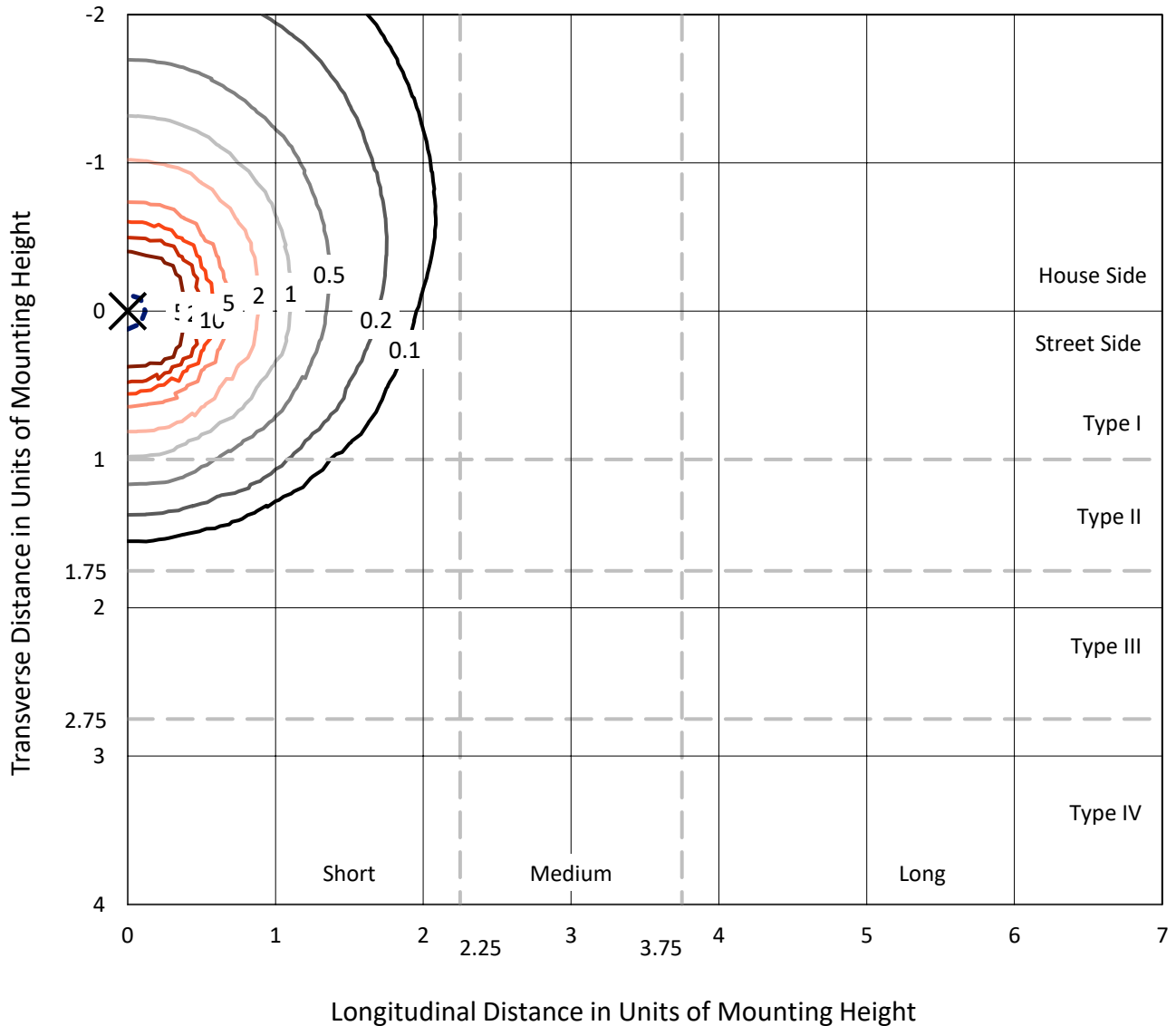
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638581
 CATALOG NUMBER: EPH-VN-08-E-740-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

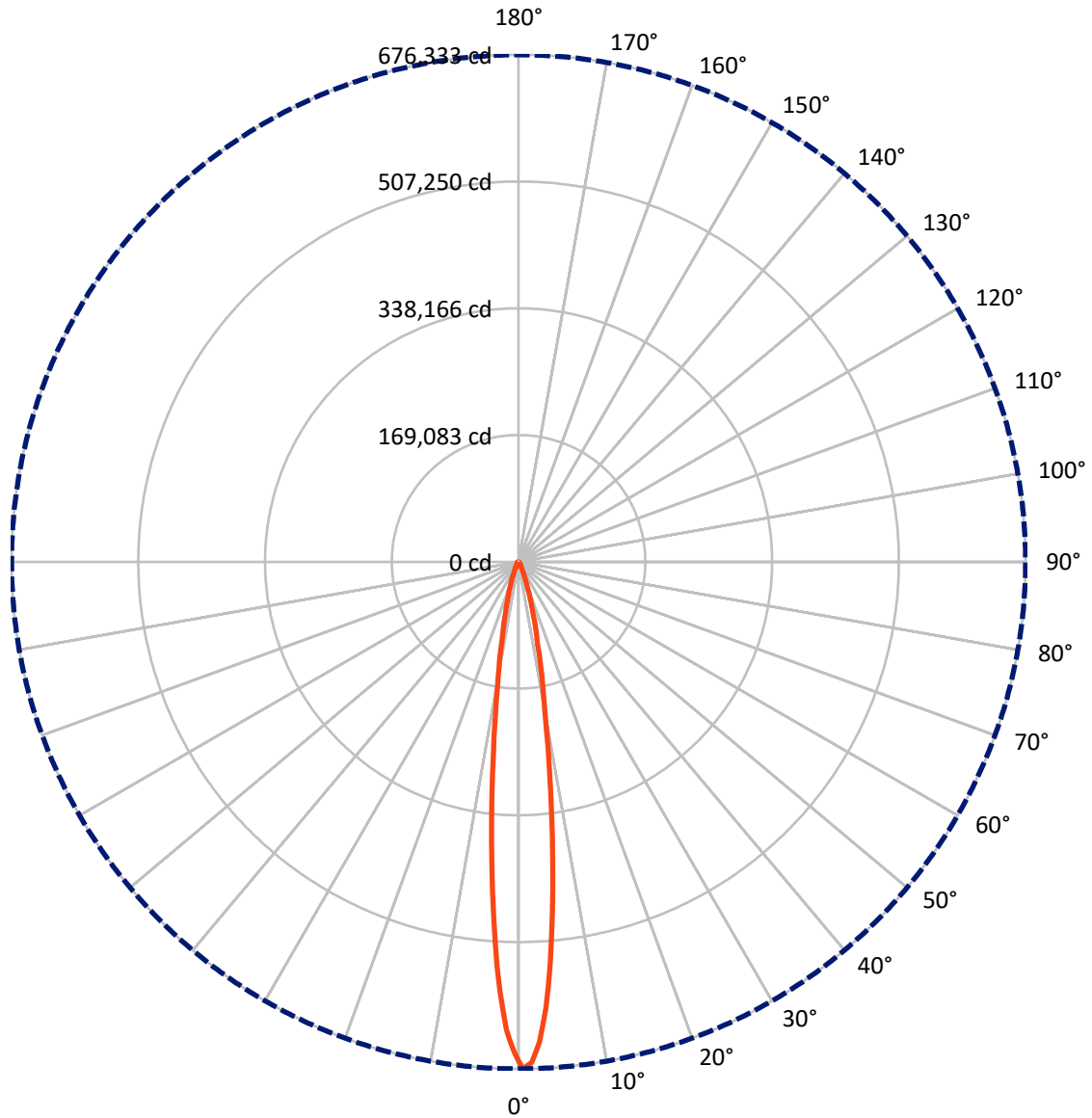
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1690.8 fc
 Type V - Short - N/A

REPORT NUMBER: P638581
CATALOG NUMBER: EPH-VN-08-E-740-U-33-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638581
 CATALOG NUMBER: EPH-VN-08-E-740-U-33-VI

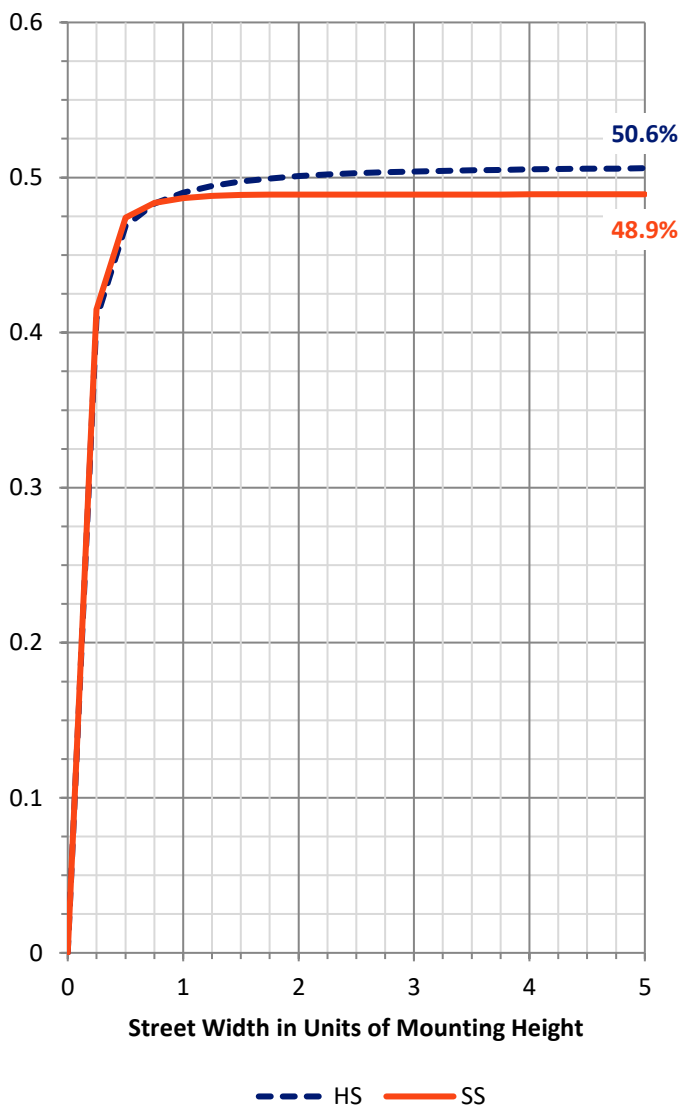
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34873.3	0.0	34873.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	33214.5	0.0	33214.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	68087.8	0.0	68087.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34372.8	50.5
10°-20°	22005.3	32.3
20°-30°	6614.4	9.7
30°-40°	2153.7	3.2
40°-50°	1253.1	1.8
50°-60°	832.3	1.2
60°-70°	501.0	0.7
70°-80°	257.5	0.4
80°-90°	97.8	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°	68087.8	100.0
0°-180°	68087.8	100.0

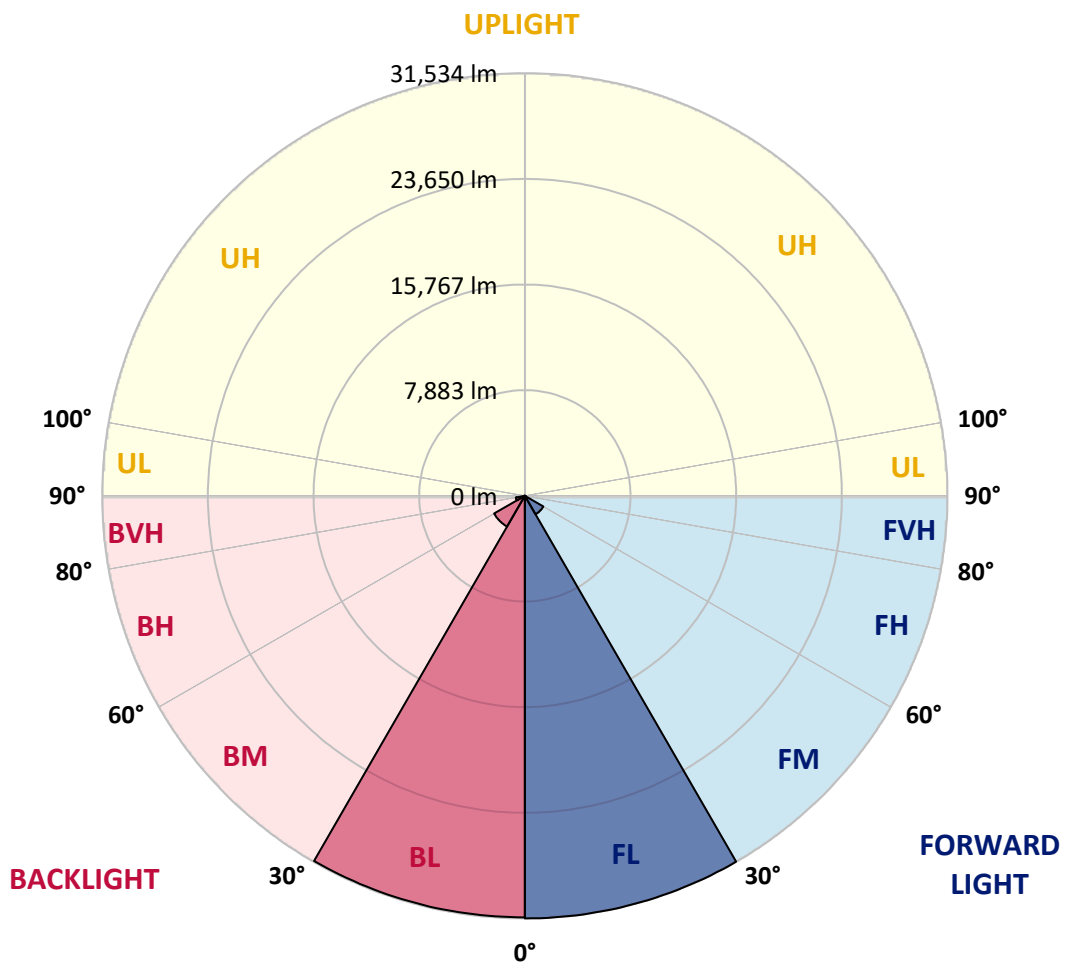


REPORT NUMBER: P638581
 CATALOG NUMBER: EPH-VN-08-E-740-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	31533.6	46.3			
FM (30°-60°)	1591.2	2.3			
FH (60°-80°)	74.9	0.1			G0/660
FVH (80°-90°)	14.8	0.0			G1/100
BL (0°-30°)	31458.8	46.2	B5		
BM (30°-60°)	2647.8	3.9	B3/5000		
BH (60°-80°)	683.6	1.0	B2/1000		G1/1800
BVH (80°-90°)	83.1	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: P638581
 CATALOG NUMBER: EPH-VN-08-E-740-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7
1°	668234.6	666195.3	660930.0	664675.0	667967.7	667011.0	666944.3	666588.3	666091.4	669992.2
2°	641522.7	640202.7	632416.1	635627.1	640306.5	636895.3	639031.0	637154.8	637191.9	641849.0
3°	596493.7	597213.0	584791.5	590627.8	597131.5	588862.8	591428.7	596249.0	591198.8	589678.5
4°	537967.8	531723.7	524938.2	530870.9	532554.3	527741.4	532472.7	538375.7	531360.3	531671.8
5°	471151.1	466538.4	458507.0	462170.5	457995.3	459515.6	466605.1	469037.5	464143.1	457980.5
6°	402450.6	399172.8	389131.8	394411.9	392928.7	392068.5	401019.4	393603.5	396273.2	392543.1
7°	334758.8	328633.3	323701.8	328759.4	329085.7	326497.5	338118.2	336768.5	331911.1	330783.9
8°	277352.7	271242.0	267066.9	270834.2	273296.2	269232.4	274697.8	278287.1	274490.2	274831.3
9°	223699.0	222623.7	216817.1	221741.3	224418.4	220065.3	226116.6	227414.4	223862.2	225590.1
10°	183675.7	182422.4	177787.5	179782.4	184217.1	179026.0	184832.6	185255.3	182422.4	183230.8
12.5°	113507.0	113002.7	112876.6	113165.8	113106.5	114026.1	115509.2	113818.4	113596.0	110800.2
15°	73365.0	74114.0	73342.7	74825.9	75041.0	75908.6	75003.9	73639.4	71036.4	69746.0
17.5°	45785.4	46742.1	48062.1	50235.0	52407.8	52659.9	51458.6	49856.7	48596.1	47216.7
20°	26341.1	26808.3	26608.1	29211.0	34832.2	36359.9	34810.0	33126.6	31606.3	30212.2
22.5°	16366.8	16196.2	16507.7	17382.7	19214.5	23938.4	22670.2	20986.8	19881.9	18732.4
25°	10033.6	10219.0	10100.4	10582.4	11405.6	13407.9	13697.1	12970.3	12406.7	11813.4
27.5°	6459.2	6459.2	6511.1	6778.1	7341.7	7274.9	8817.4	8253.8	7949.8	7660.6
30°	4486.6	4501.4	4501.4	4657.2	4783.2	4560.7	4961.2	5688.0	5547.1	5324.6
32.5°	3329.7	3374.2	3411.3	3492.9	3389.0	3151.7	3248.1	4093.5	4012.0	3930.4
35°	2536.2	2573.3	2662.3	2706.8	2558.5	2410.2	2321.2	3010.8	3047.9	3025.7
37.5°	1846.5	1868.8	2031.9	2202.5	2031.9	1898.5	1846.5	2313.7	2491.7	2469.5
40°	1416.4	1423.8	1453.5	1646.3	1646.3	1542.5	1557.3	1727.9	2039.4	2039.4
42.5°	1216.2	1216.2	1245.9	1216.2	1223.6	1334.9	1371.9	1394.2	1727.9	1727.9
45°	1053.1	1053.1	1067.9	993.7	919.6	1149.5	1179.1	1186.5	1453.5	1490.6
47.5°	882.5	882.5	912.1	815.7	778.7	912.1	993.7	1016.0	1253.3	1282.9
50°	652.6	660.0	749.0	667.4	689.7	704.5	860.2	875.1	1060.5	1127.2
52.5°	437.5	437.5	452.4	519.1	600.7	578.4	697.1	749.0	845.4	934.4
55°	356.0	356.0	348.5	333.7	445.0	482.0	511.7	622.9	689.7	800.9
57.5°	244.7	259.6	237.3	274.4	289.2	363.4	385.6	489.4	526.5	674.8
60°	29.7	37.1	51.9	200.2	192.8	244.7	289.2	385.6	430.1	519.1
62.5°	7.4	7.4	14.8	37.1	133.5	163.1	229.9	267.0	311.5	400.5
65°	0.0	0.0	7.4	14.8	29.7	89.0	118.7	155.7	222.5	281.8
67.5°	0.0	0.0	7.4	14.8	14.8	37.1	59.3	96.4	118.7	207.6
70°	0.0	0.0	7.4	14.8	14.8	29.7	37.1	44.5	81.6	111.2
72.5°	0.0	0.0	7.4	14.8	22.2	29.7	37.1	37.1	37.1	74.2
75°	0.0	0.0	7.4	14.8	22.2	29.7	37.1	37.1	29.7	29.7
77.5°	0.0	0.0	7.4	14.8	29.7	37.1	44.5	37.1	22.2	22.2
80°	0.0	0.0	7.4	22.2	37.1	51.9	59.3	44.5	22.2	14.8
82.5°	0.0	0.0	14.8	29.7	44.5	59.3	81.6	66.7	29.7	14.8
85°	0.0	0.0	7.4	22.2	44.5	59.3	118.7	81.6	37.1	7.4
87.5°	0.0	0.0	0.0	7.4	7.4	14.8	44.5	29.7	14.8	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638581

CATALOG NUMBER: EPH-VN-08-E-740-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
676332.7	0°	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7	676332.7
665490.8	1°	670140.5	670607.7	669080.0	671445.7	670615.1	665750.3	664141.1	662235.2
639112.6	2°	637154.8	639535.3	639653.9	642279.2	642242.1	636569.0	634811.4	638052.1
592763.5	3°	590968.9	593742.4	591243.3	595907.9	594506.3	587624.4	585837.1	589515.4
534133.8	4°	532539.4	532012.9	531152.7	528497.8	531768.2	527074.0	523536.6	528527.5
466152.8	5°	465218.4	464046.7	462370.7	461584.6	464017.0	461013.6	453738.6	461028.4
399291.5	6°	399780.9	394738.2	394493.4	394055.9	394300.6	385891.1	386395.3	391823.7
326905.4	7°	330361.2	331288.2	329397.1	332430.2	330116.5	324421.1	322226.0	327943.6
276329.3	8°	274401.2	273229.5	271783.4	276314.5	272302.5	268564.9	266006.5	270522.7
225871.9	9°	225449.2	223424.7	221956.3	221726.4	222349.4	215334.0	216757.8	220176.5
183675.7	10°	183742.5	180420.2	181228.5	181443.5	180761.3	176163.5	176208.0	177387.1
112654.1	12.5°	112253.7	110622.2	111030.1	111252.5	112639.3	111022.7	108738.6	107092.3
71029.0	15°	70554.4	69382.7	71778.0	73387.2	73060.9	71622.3	70547.0	69056.4
47216.7	17.5°	46779.2	48314.2	48321.7	49790.0	49938.3	48499.6	47669.1	46326.8
30709.0	20°	30597.8	31235.6	32563.0	33601.2	34201.9	33104.3	32110.6	31191.1
19147.7	22.5°	19147.7	20260.1	21090.7	22440.4	22989.1	22188.2	21483.7	20734.7
11954.3	25°	11754.1	12547.6	13237.3	14409.0	15158.0	14772.4	14127.2	13600.7
7719.9	27.5°	7838.6	8172.3	8513.4	9321.7	10100.4	9885.3	9625.8	9306.9
5443.2	30°	5524.8	5554.5	5917.8	6370.2	6889.3	7022.8	6904.2	6741.0
3997.1	32.5°	4071.3	4190.0	4360.5	4642.3	4990.9	5309.7	5250.4	5176.3
3055.3	35°	3144.3	3322.3	3463.2	3678.3	3863.7	4167.7	4219.6	4197.4
2514.0	37.5°	2565.9	2721.6	2862.5	2988.6	3144.3	3352.0	3515.1	3522.5
2076.4	40°	2128.3	2269.2	2454.6	2551.1	2662.3	2818.0	3018.3	3033.1
1757.6	42.5°	1794.6	1928.1	2113.5	2232.2	2313.7	2462.1	2662.3	2692.0
1505.4	45°	1542.5	1624.1	1816.9	1957.8	2039.4	2135.8	2350.8	2380.5
1297.8	47.5°	1342.3	1423.8	1542.5	1742.7	1816.9	1905.9	2076.4	2128.3
1149.5	50°	1179.1	1260.7	1364.5	1542.5	1653.7	1727.9	1868.8	1943.0
1001.1	52.5°	1045.6	1127.2	1238.4	1379.3	1505.4	1572.2	1705.6	1802.1
815.7	55°	875.1	1016.0	1097.5	1223.6	1394.2	1453.5	1557.3	1683.4
711.9	57.5°	763.8	882.5	1001.1	1105.0	1275.5	1349.7	1453.5	1572.2
563.6	60°	645.2	756.4	897.3	986.3	1149.5	1245.9	1357.1	1468.3
430.1	62.5°	511.7	660.0	756.4	882.5	1038.2	1164.3	1253.3	1364.5
333.7	65°	378.2	541.4	652.6	786.1	934.4	1067.9	1142.0	1260.7
237.3	67.5°	274.4	422.7	556.2	682.3	823.2	956.6	1030.8	1134.6
148.3	70°	215.1	311.5	459.8	571.0	719.3	830.6	912.1	978.9
96.4	72.5°	126.1	237.3	370.8	496.9	630.3	704.5	763.8	823.2
44.5	75°	81.6	185.4	304.0	415.3	511.7	578.4	630.3	682.3
22.2	77.5°	51.9	133.5	244.7	348.5	393.0	474.6	519.1	548.8
14.8	80°	29.7	103.8	215.1	281.8	318.9	370.8	415.3	452.4
14.8	82.5°	22.2	89.0	178.0	237.3	237.3	296.6	318.9	318.9
7.4	85°	14.8	74.2	140.9	222.5	178.0	222.5	207.6	207.6
7.4	87.5°	14.8	51.9	66.7	96.4	81.6	96.4	96.4	111.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
676332.7
654685.9
624325.4
573178.3
510462.5
441821.4
376087.3
312392.6
257626.6
209497.7
169363.1
106091.1
68292.5
45993.1
30872.2
20334.3
13296.6
9121.5
6629.8
5116.9
4123.2
3470.6
3010.8
2669.7
2373.1
2135.8
1950.4
1802.1
1690.8
1579.6
1498.0
1416.4
1282.9
1142.0
1001.1
838.0
682.3
533.9
407.9
296.6
200.2
111.2
0.0

(END OF REPORT)