

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: P638598

Luminaire Tested: **EPH-VN-08-D-930-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638598  
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-930-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35481.6 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

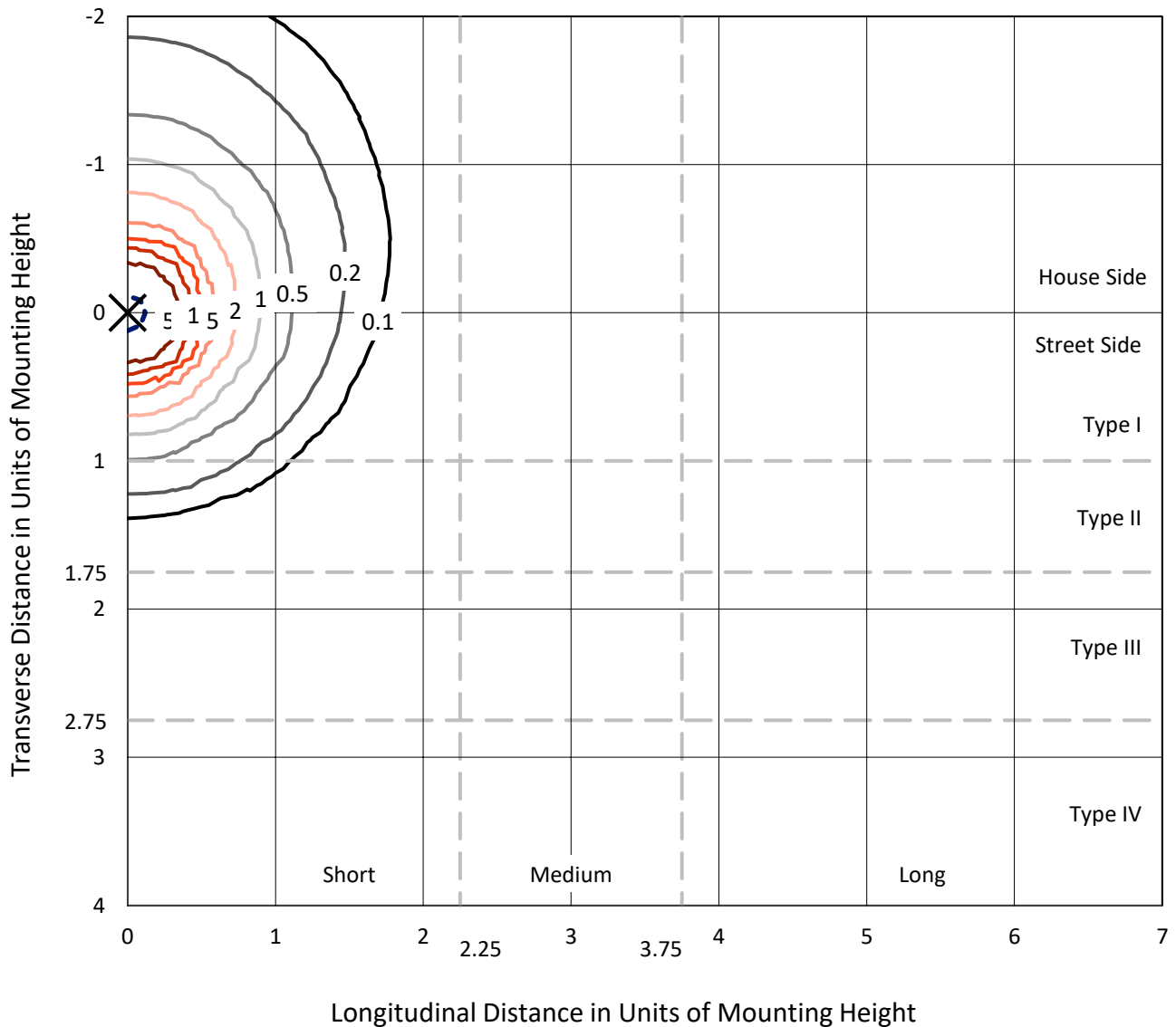
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

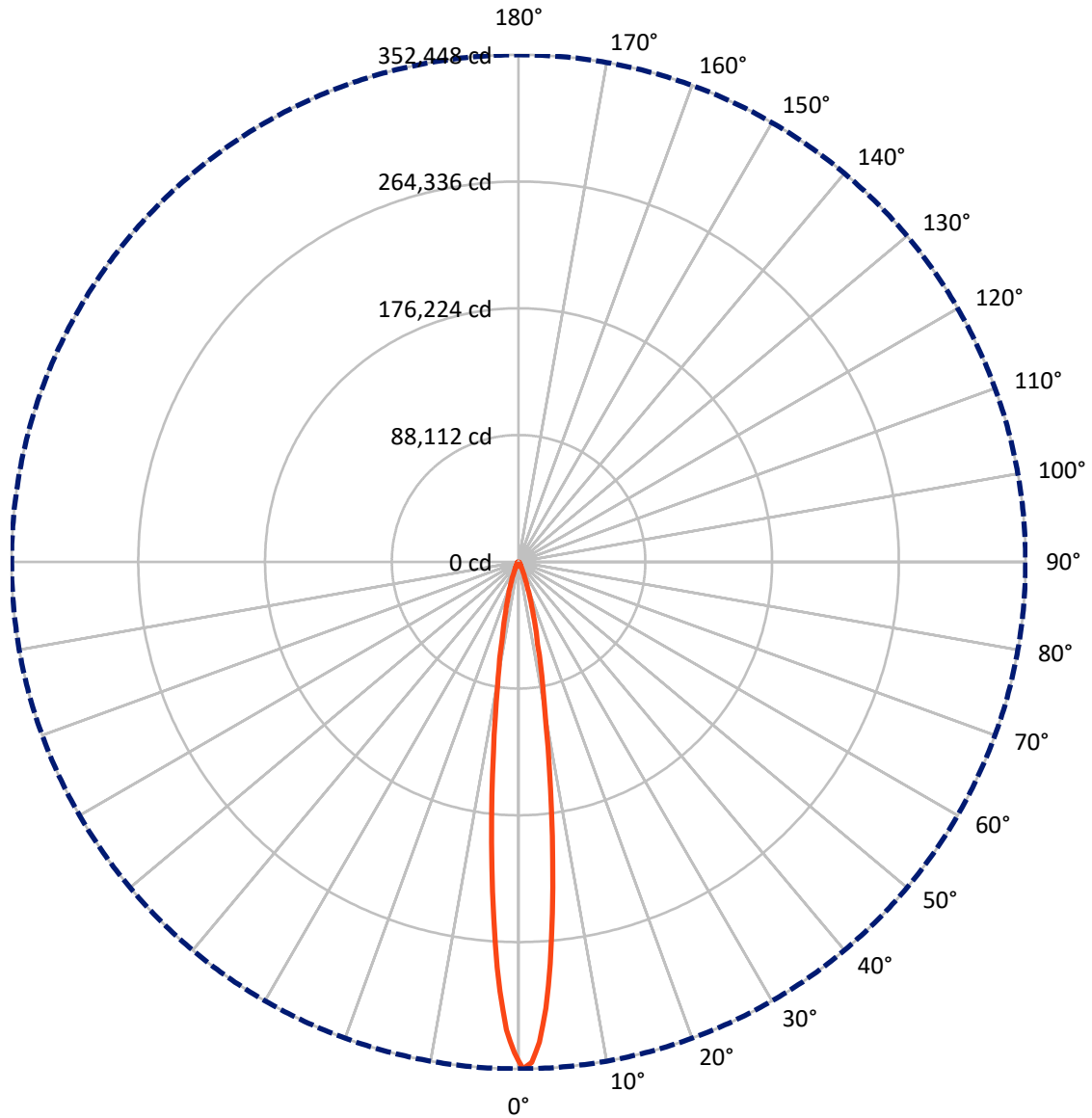
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 881.1 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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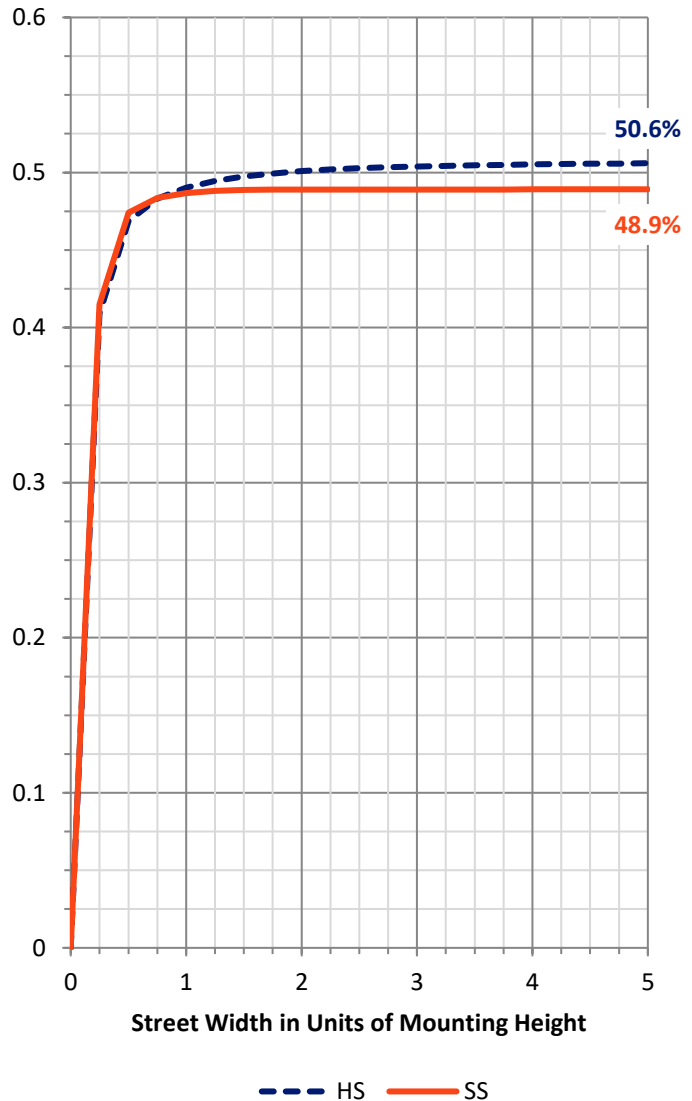
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18173.0	0.0	18173.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	17308.6	0.0	17308.6
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	35481.6	0.0	35481.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17912.2	50.5
10°-20°	11467.3	32.3
20°-30°	3446.8	9.7
30°-40°	1122.3	3.2
40°-50°	653.0	1.8
50°-60°	433.7	1.2
60°-70°	261.1	0.7
70°-80°	134.2	0.4
80°-90°	51.0	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°	35481.6	100.0
0°-180°	35481.6	100.0

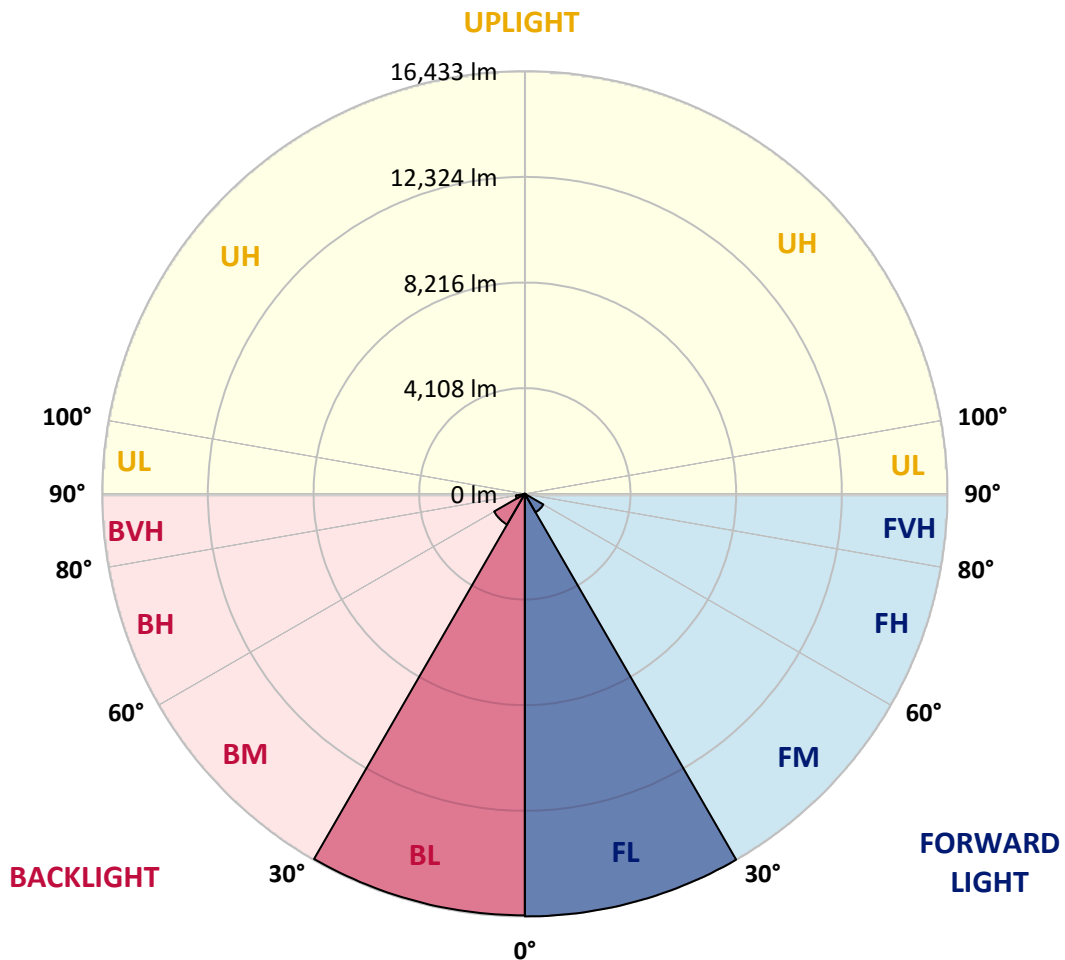


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16432.6	46.3			
FM (30°-60°)	829.2	2.3			
FH (60°-80°)	39.0	0.1			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	16393.7	46.2	B5		
BM (30°-60°)	1379.8	3.9	B2/2500		
BH (60°-80°)	356.2	1.0	B1/500		G0/660
BVH (80°-90°)	43.3	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°	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5
1°	348227.4	347164.7	344420.9	346372.4	348088.3	347589.8	347555.0	347369.5	347110.6	349143.3
2°	334307.4	333619.5	329561.8	331235.1	333673.7	331896.0	333009.0	332031.2	332050.6	334477.5
3°	310842.1	311217.0	304743.9	307785.3	311174.5	306865.5	308202.6	310714.6	308082.8	307290.6
4°	280343.4	277089.5	273553.4	276645.0	277522.3	275014.2	277479.8	280555.9	276900.1	277062.4
5°	245524.1	243120.4	238935.1	240844.2	238668.5	239460.7	243155.2	244422.7	241872.1	238660.7
6°	209723.3	208015.1	202782.6	205534.1	204761.2	204312.9	208977.4	205112.9	206504.1	204560.3
7°	174448.0	171255.9	168686.0	171321.6	171491.6	170142.9	176198.6	175495.3	172964.0	172376.6
8°	144532.8	141348.4	139172.7	141135.9	142418.9	140301.1	143149.3	145019.7	143041.1	143218.9
9°	116573.0	116012.7	112986.8	115552.8	116947.9	114679.4	117832.9	118509.2	116658.1	117558.5
10°	95716.3	95063.2	92647.8	93687.4	95998.4	93293.2	96319.1	96539.4	95063.2	95484.4
12.5°	59150.2	58887.5	58821.8	58972.5	58941.6	59420.8	60193.7	59312.5	59196.6	57739.7
15°	38231.6	38621.9	38220.0	38992.9	39105.0	39557.2	39085.7	38374.6	37018.2	36345.7
17.5°	23859.5	24358.0	25045.9	26178.2	27310.5	27441.9	26815.9	25981.1	25324.2	24605.4
20°	13726.8	13970.2	13865.9	15222.3	18151.6	18947.7	18140.0	17262.8	16470.6	15744.0
22.5°	8529.0	8440.1	8602.4	9058.4	10013.0	12474.6	11813.8	10936.6	10360.8	9761.8
25°	5228.7	5325.3	5263.5	5514.7	5943.6	6987.0	7137.8	6759.0	6465.3	6156.2
27.5°	3366.0	3366.0	3393.0	3532.2	3825.9	3791.1	4594.9	4301.2	4142.8	3992.0
30°	2338.0	2345.8	2345.8	2426.9	2492.6	2376.7	2585.4	2964.1	2890.7	2774.7
32.5°	1735.2	1758.4	1777.7	1820.2	1766.1	1642.4	1692.7	2133.2	2090.7	2048.2
35°	1321.7	1341.0	1387.4	1410.5	1333.3	1256.0	1209.6	1569.0	1588.3	1576.7
37.5°	962.3	973.9	1058.9	1147.8	1058.9	989.3	962.3	1205.7	1298.5	1286.9
40°	738.1	742.0	757.4	857.9	857.9	803.8	811.5	900.4	1062.7	1062.7
42.5°	633.8	633.8	649.2	633.8	637.6	695.6	714.9	726.5	900.4	900.4
45°	548.8	548.8	556.5	517.8	479.2	599.0	614.5	618.3	757.4	776.8
47.5°	459.9	459.9	475.3	425.1	405.8	475.3	517.8	529.4	653.1	668.6
50°	340.1	343.9	390.3	347.8	359.4	367.1	448.3	456.0	552.6	587.4
52.5°	228.0	228.0	235.7	270.5	313.0	301.4	363.3	390.3	440.6	486.9
55°	185.5	185.5	181.6	173.9	231.9	251.2	266.7	324.6	359.4	417.4
57.5°	127.5	135.3	123.7	143.0	150.7	189.4	201.0	255.1	274.4	351.7
60°	15.5	19.3	27.1	104.3	100.5	127.5	150.7	201.0	224.1	270.5
62.5°	3.9	3.9	7.7	19.3	69.6	85.0	119.8	139.1	162.3	208.7
65°	0.0	0.0	3.9	7.7	15.5	46.4	61.8	81.2	115.9	146.9
67.5°	0.0	0.0	3.9	7.7	7.7	19.3	30.9	50.2	61.8	108.2
70°	0.0	0.0	3.9	7.7	7.7	15.5	19.3	23.2	42.5	58.0
72.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	19.3	19.3	38.6
75°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	19.3	15.5	15.5
77.5°	0.0	0.0	3.9	7.7	15.5	19.3	23.2	19.3	11.6	11.6
80°	0.0	0.0	3.9	11.6	19.3	27.1	30.9	23.2	11.6	7.7
82.5°	0.0	0.0	7.7	15.5	23.2	30.9	42.5	34.8	15.5	7.7
85°	0.0	0.0	3.9	11.6	23.2	30.9	61.8	42.5	19.3	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.7	23.2	15.5	7.7	3.9
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°
352447.5	0°	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5	352447.5
346797.5	1°	349220.6	349464.1	348668.0	349900.7	349467.9	346932.8	346094.2	345101.0
333051.5	2°	332031.2	333271.7	333333.6	334701.6	334682.3	331725.9	330810.0	332498.8
308898.3	3°	307963.0	309408.4	308106.0	310536.8	309806.4	306220.2	305288.8	307205.6
278345.4	4°	277514.5	277240.2	276791.9	275408.4	277112.6	274666.4	272823.0	275423.8
242919.4	5°	242432.5	241821.9	240948.5	240538.9	241806.4	240241.3	236450.2	240249.0
208077.0	6°	208332.0	205704.2	205576.6	205348.6	205476.2	201093.8	201356.6	204185.4
170355.5	7°	172156.3	172639.4	171653.9	173234.5	172028.8	169060.9	167917.0	170896.5
143999.5	8°	142994.7	142384.1	141630.5	143991.8	141901.1	139953.3	138620.1	140973.6
117705.3	9°	117485.1	116430.0	115664.9	115545.1	115869.7	112213.9	112955.9	114737.4
95716.3	10°	95751.0	94019.7	94441.0	94553.0	94197.5	91801.5	91824.7	92439.2
58705.8	12.5°	58497.1	57646.9	57859.5	57975.4	58698.1	57855.6	56665.4	55807.4
37014.3	15°	36767.0	36156.4	37404.6	38243.2	38073.2	37323.5	36763.1	35986.3
24605.4	17.5°	24377.3	25177.3	25181.2	25946.3	26023.6	25273.9	24841.1	24141.6
16002.9	20°	15945.0	16277.3	16969.1	17510.1	17823.1	17251.2	16733.3	16254.1
9978.2	22.5°	9978.2	10557.8	10990.7	11694.0	11980.0	11562.6	11195.5	10805.2
6229.6	25°	6125.3	6538.8	6898.2	7508.7	7899.1	7698.1	7361.9	7087.5
4023.0	27.5°	4084.8	4258.7	4436.5	4857.7	5263.5	5151.4	5016.1	4850.0
2836.6	30°	2879.1	2894.5	3083.9	3319.6	3590.1	3659.7	3597.9	3512.8
2083.0	32.5°	2121.6	2183.4	2272.3	2419.2	2600.8	2767.0	2736.1	2697.4
1592.2	35°	1638.6	1731.3	1804.7	1916.8	2013.4	2171.9	2198.9	2187.3
1310.1	37.5°	1337.1	1418.3	1491.7	1557.4	1638.6	1746.8	1831.8	1835.6
1082.1	40°	1109.1	1182.5	1279.2	1329.4	1387.4	1468.5	1572.9	1580.6
915.9	42.5°	935.2	1004.8	1101.4	1163.2	1205.7	1283.0	1387.4	1402.8
784.5	45°	803.8	846.3	946.8	1020.2	1062.7	1113.0	1225.1	1240.5
676.3	47.5°	699.5	742.0	803.8	908.2	946.8	993.2	1082.1	1109.1
599.0	50°	614.5	657.0	711.1	803.8	861.8	900.4	973.9	1012.5
521.7	52.5°	544.9	587.4	645.4	718.8	784.5	819.3	888.8	939.1
425.1	55°	456.0	529.4	571.9	637.6	726.5	757.4	811.5	877.2
371.0	57.5°	398.0	459.9	521.7	575.8	664.7	703.3	757.4	819.3
293.7	60°	336.2	394.2	467.6	514.0	599.0	649.2	707.2	765.2
224.1	62.5°	266.7	343.9	394.2	459.9	541.0	606.7	653.1	711.1
173.9	65°	197.1	282.1	340.1	409.6	486.9	556.5	595.1	657.0
123.7	67.5°	143.0	220.3	289.8	355.5	429.0	498.5	537.2	591.3
77.3	70°	112.1	162.3	239.6	297.6	374.9	432.8	475.3	510.1
50.2	72.5°	65.7	123.7	193.2	258.9	328.5	367.1	398.0	429.0
23.2	75°	42.5	96.6	158.4	216.4	266.7	301.4	328.5	355.5
11.6	77.5°	27.1	69.6	127.5	181.6	204.8	247.3	270.5	286.0
7.7	80°	15.5	54.1	112.1	146.9	166.2	193.2	216.4	235.7
7.7	82.5°	11.6	46.4	92.7	123.7	123.7	154.6	166.2	166.2
3.9	85°	7.7	38.6	73.4	115.9	92.7	115.9	108.2	108.2
3.9	87.5°	7.7	27.1	34.8	50.2	42.5	50.2	50.2	58.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
352447.5  
341166.9  
325345.6  
298692.1  
266009.9  
230240.0  
195984.9  
162792.6  
134253.2  
109172.5  
88257.7  
55285.7  
35588.3  
23967.7  
16088.0  
10596.5  
6929.1  
4753.4  
3454.9  
2666.5  
2148.7  
1808.6  
1569.0  
1391.2  
1236.6  
1113.0  
1016.4  
939.1  
881.1  
823.1  
780.6  
738.1  
668.6  
595.1  
521.7  
436.7  
355.5  
278.2  
212.5  
154.6  
104.3  
58.0  
0.0

(END OF REPORT)