

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: P638584

Luminaire Tested: **EPH-VN-06-E-750-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638584  
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-750-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (96) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53826 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

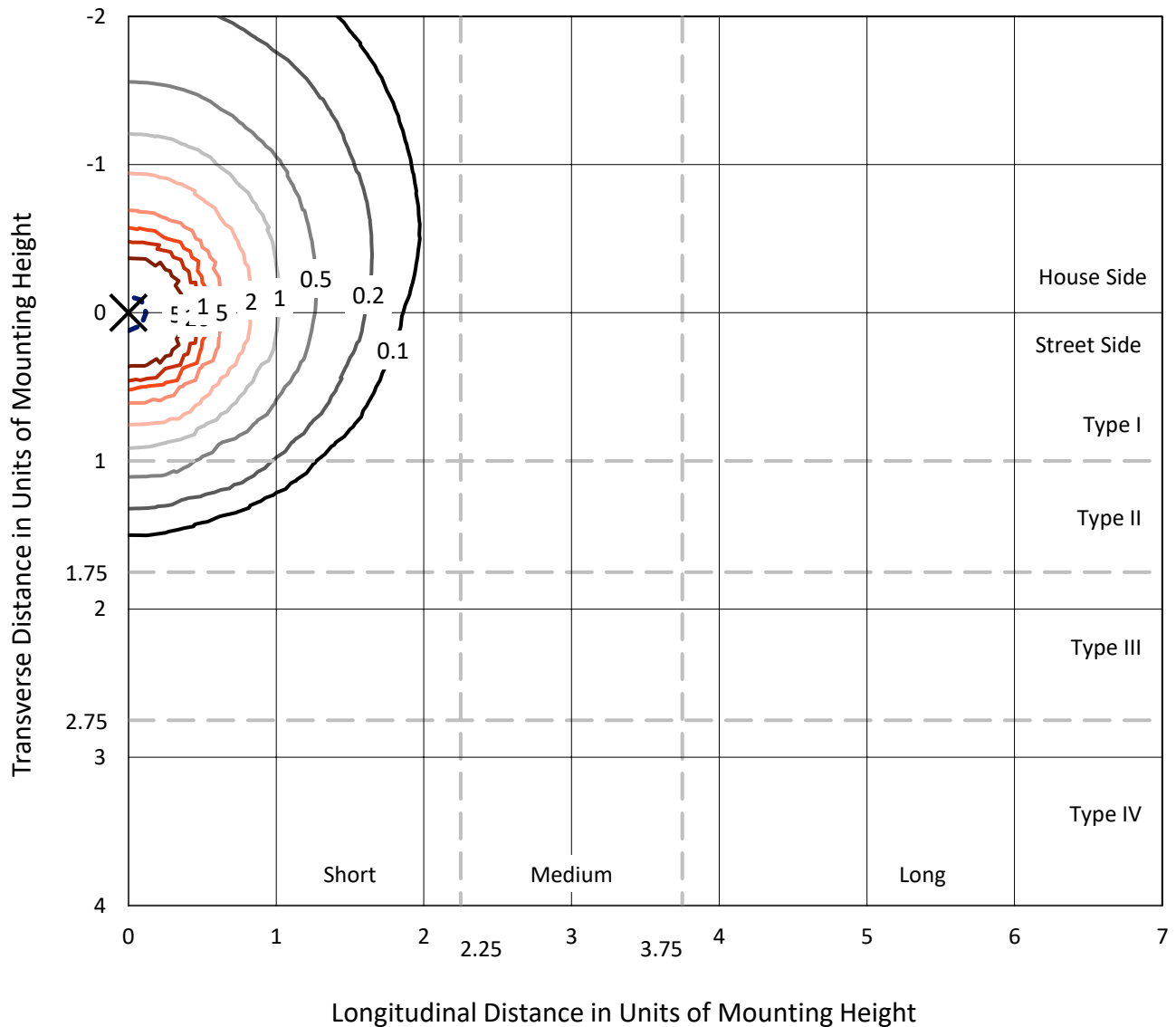
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

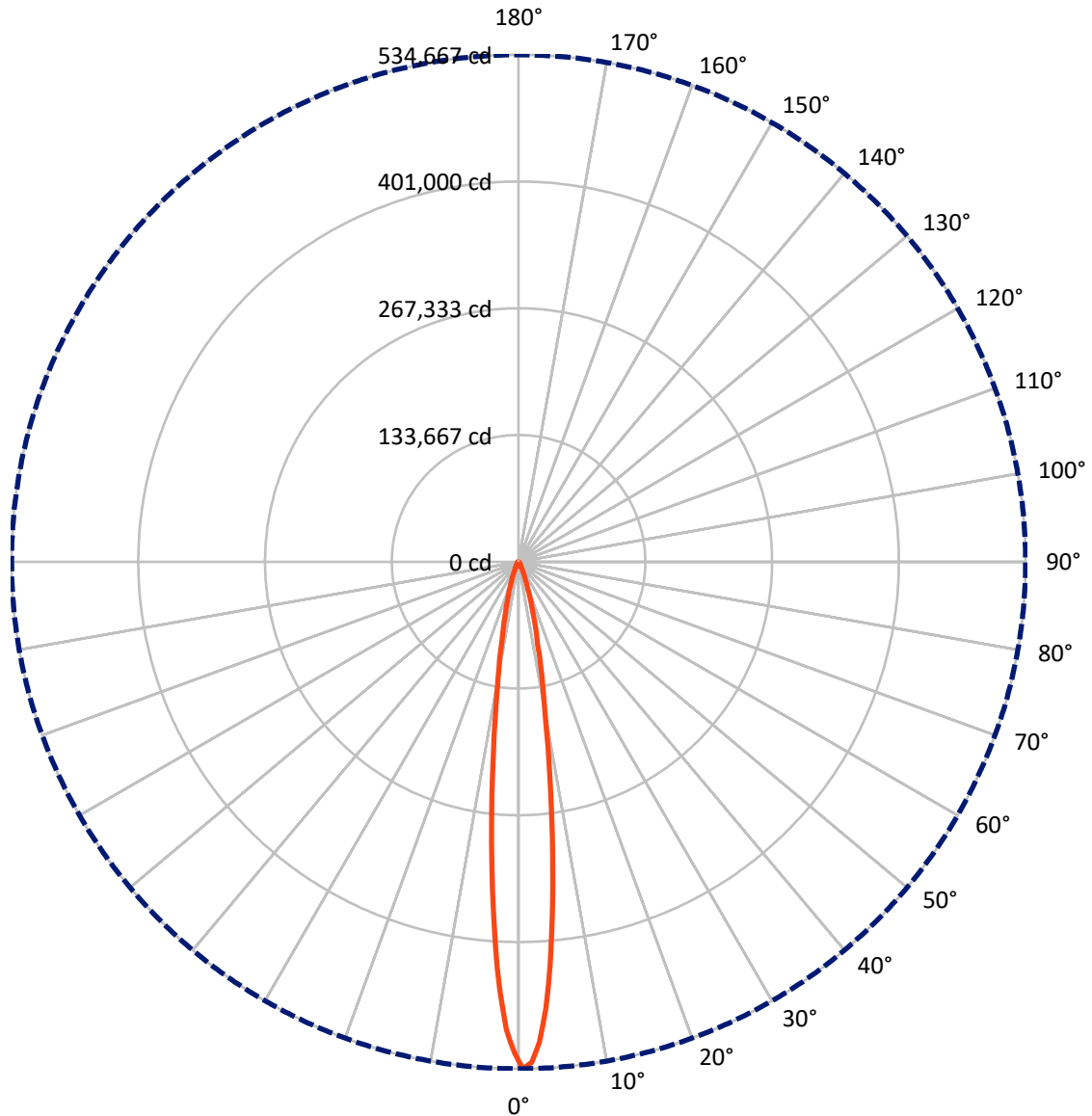
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1336.7 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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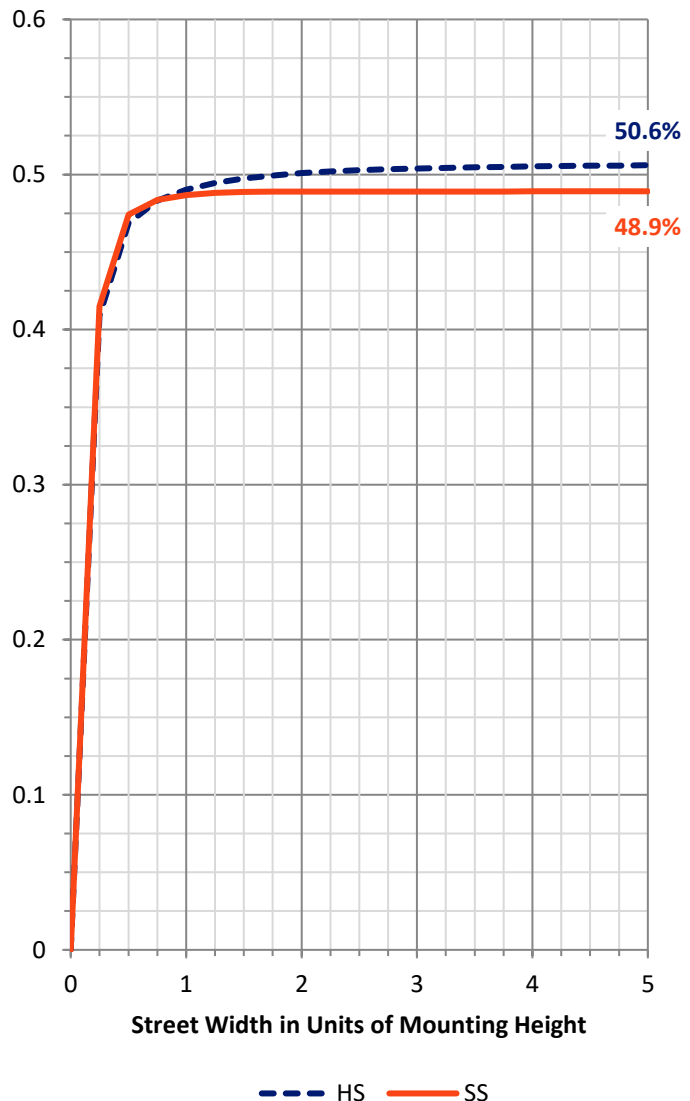
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27568.7	0.0	27568.7
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	26257.3	0.0	26257.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	53826.0	0.0	53826.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27173.0	50.5
10°-20°	17396.0	32.3
20°-30°	5228.9	9.7
30°-40°	1702.5	3.2
40°-50°	990.6	1.8
50°-60°	658.0	1.2
60°-70°	396.1	0.7
70°-80°	203.6	0.4
80°-90°	77.3	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°	53826.0	100.0
0°-180°	53826.0	100.0



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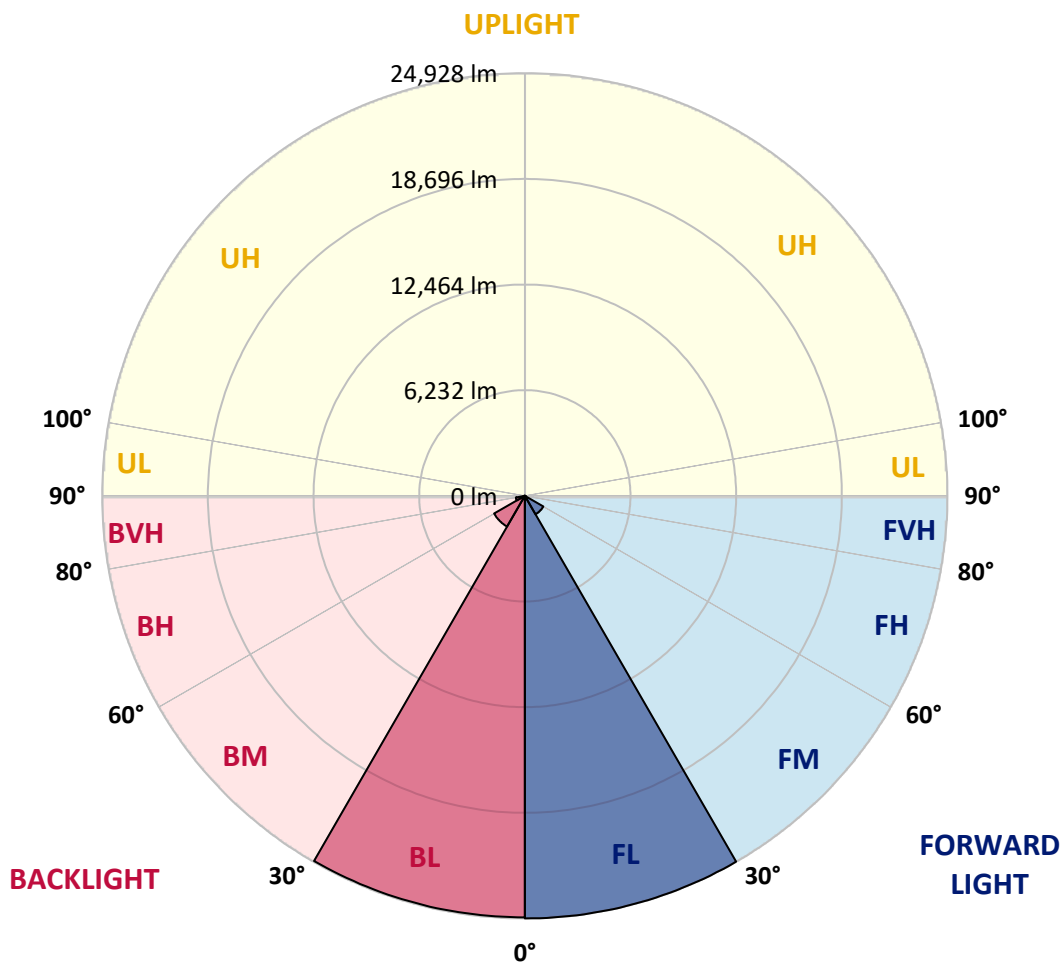
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24928.5	46.3			
FM (30°-60°)	1258.0	2.3			
FH (60°-80°)	59.2	0.1			G0/660
FVH (80°-90°)	11.7	0.0			G1/100
BL (0°-30°)	24869.4	46.2	B5		
BM (30°-60°)	2093.2	3.9	B2/2500		
BH (60°-80°)	540.4	1.0	B2/1000		G0/660
BVH (80°-90°)	65.7	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°	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8
1°	528264.9	526652.7	522490.3	525450.9	528053.9	527297.6	527244.8	526963.4	526570.6	529654.3
2°	507148.1	506104.6	499949.0	502487.5	506186.7	503489.9	505178.3	503695.1	503724.4	507406.1
3°	471551.0	472119.7	462299.9	466913.7	472055.2	465518.5	467546.9	471357.5	467365.2	466163.3
4°	425284.1	420347.8	414983.6	419673.6	421004.4	417199.7	420939.9	425606.5	420060.6	420306.8
5°	372462.8	368816.4	362467.3	365363.3	362062.8	363264.6	368869.1	370792.0	366922.8	362051.0
6°	318152.6	315561.3	307623.5	311797.6	310625.1	309945.0	317021.1	311158.6	313269.1	310320.2
7°	264639.6	259797.1	255898.6	259896.8	260154.7	258108.7	267295.3	266228.3	262388.4	261497.3
8°	219257.9	214427.2	211126.6	214104.7	216051.1	212838.4	217159.1	219996.5	216994.9	217264.6
9°	176842.6	175992.5	171402.2	175294.9	177411.3	173970.0	178753.8	179779.7	176971.6	178337.6
10°	145202.6	144211.9	140547.8	142124.8	145630.6	141526.9	146117.2	146451.4	144211.9	144850.9
12.5°	89731.6	89332.9	89233.3	89461.9	89415.0	90142.0	91314.5	89977.8	89801.9	87591.8
15°	57997.8	58589.9	57980.2	59152.7	59322.7	60008.7	59293.4	58214.7	56157.0	55136.9
17.5°	36195.1	36951.4	37994.9	39712.6	41430.4	41629.7	40680.0	39413.7	38417.0	37326.6
20°	20823.6	21193.0	21034.7	23092.4	27536.2	28743.9	27518.6	26187.8	24986.0	23883.9
22.5°	12938.6	12803.7	13049.9	13741.7	15189.8	18924.2	17921.7	16590.9	15717.4	14808.7
25°	7932.0	8078.5	7984.7	8365.8	9016.5	10599.4	10828.1	10253.5	9808.0	9339.0
27.5°	5106.2	5106.2	5147.3	5358.3	5803.9	5751.1	6970.5	6525.0	6284.6	6056.0
30°	3546.8	3558.5	3558.5	3681.7	3781.3	3605.4	3922.0	4496.5	4385.2	4209.3
32.5°	2632.3	2667.4	2696.8	2761.2	2679.2	2491.6	2567.8	3236.1	3171.6	3107.1
35°	2005.0	2034.3	2104.6	2139.8	2022.6	1905.3	1835.0	2380.2	2409.5	2391.9
37.5°	1459.8	1477.4	1606.3	1741.2	1606.3	1500.8	1459.8	1829.1	1969.8	1952.2
40°	1119.7	1125.6	1149.1	1301.5	1301.5	1219.4	1231.1	1366.0	1612.2	1612.2
42.5°	961.5	961.5	984.9	961.5	967.3	1055.3	1084.6	1102.2	1366.0	1366.0
45°	832.5	832.5	844.2	785.6	727.0	908.7	932.1	938.0	1149.1	1178.4
47.5°	697.6	697.6	721.1	644.9	615.6	721.1	785.6	803.2	990.8	1014.2
50°	515.9	521.8	592.1	527.6	545.2	556.9	680.1	691.8	838.3	891.1
52.5°	345.9	345.9	357.6	410.4	474.9	457.3	551.1	592.1	668.3	738.7
55°	281.4	281.4	275.5	263.8	351.8	381.1	404.5	492.5	545.2	633.2
57.5°	193.5	205.2	187.6	216.9	228.6	287.3	304.9	386.9	416.2	533.5
60°	23.5	29.3	41.0	158.3	152.4	193.5	228.6	304.9	340.0	410.4
62.5°	5.9	5.9	11.7	29.3	105.5	129.0	181.7	211.1	246.2	316.6
65°	0.0	0.0	5.9	11.7	23.5	70.4	93.8	123.1	175.9	222.8
67.5°	0.0	0.0	5.9	11.7	11.7	29.3	46.9	76.2	93.8	164.2
70°	0.0	0.0	5.9	11.7	11.7	23.5	29.3	35.2	64.5	87.9
72.5°	0.0	0.0	5.9	11.7	17.6	23.5	29.3	29.3	29.3	58.6
75°	0.0	0.0	5.9	11.7	17.6	23.5	29.3	29.3	23.5	23.5
77.5°	0.0	0.0	5.9	11.7	23.5	29.3	35.2	29.3	17.6	17.6
80°	0.0	0.0	5.9	17.6	29.3	41.0	46.9	35.2	17.6	11.7
82.5°	0.0	0.0	11.7	23.5	35.2	46.9	64.5	52.8	23.5	11.7
85°	0.0	0.0	5.9	17.6	35.2	46.9	93.8	64.5	29.3	5.9
87.5°	0.0	0.0	0.0	5.9	5.9	11.7	35.2	23.5	11.7	5.9
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°
534666.8	0°	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8	534666.8
526095.8	1°	529771.6	530140.9	528933.2	530803.4	530146.8	526301.0	525028.8	523522.1
505242.8	2°	503695.1	505577.0	505670.8	507746.1	507716.8	503232.0	501842.6	504404.5
468602.1	3°	467183.4	469376.0	467400.3	471087.9	469979.8	464539.4	463126.6	466034.4
422253.1	4°	420992.7	420576.5	419896.4	417797.6	420383.0	416672.0	413875.6	417821.1
368511.5	5°	367772.8	366846.6	365521.6	364900.2	366823.1	364448.8	358697.7	364460.5
315655.1	6°	316042.0	312055.5	311862.1	311516.2	311709.7	305061.6	305460.2	309751.6
258431.2	7°	261163.1	261895.9	260401.0	262798.7	260969.6	256467.2	254731.9	259251.9
218448.8	8°	216924.6	215998.3	214855.1	218437.1	215265.5	212310.8	210288.2	213858.5
178560.3	9°	178226.2	176625.7	175464.9	175283.2	175775.6	170229.7	171355.3	174057.9
145202.6	10°	145255.4	142629.0	143268.0	143438.0	142898.7	139263.9	139299.1	140231.2
89057.4	12.5°	88740.8	87451.1	87773.5	87949.4	89045.7	87767.6	85962.0	84660.5
56151.1	15°	55775.9	54849.6	56743.2	58015.4	57757.4	56620.1	55770.1	54591.7
37326.6	17.5°	36980.7	38194.3	38200.1	39360.9	39478.1	38340.8	37684.2	36623.1
24276.7	20°	24188.7	24692.9	25742.3	26563.0	27037.9	26170.2	25384.7	24657.7
15137.0	22.5°	15137.0	16016.4	16673.0	17740.0	18173.8	17540.6	16983.7	16391.6
9450.4	25°	9292.1	9919.4	10464.6	11390.9	11983.0	11678.1	11168.1	10751.8
6102.9	27.5°	6196.7	6460.5	6730.2	7369.2	7984.7	7814.7	7609.5	7357.4
4303.1	30°	4367.6	4391.0	4678.3	5035.9	5446.3	5551.8	5458.0	5329.0
3159.9	32.5°	3218.5	3312.3	3447.2	3669.9	3945.5	4197.6	4150.7	4092.0
2415.4	35°	2485.7	2626.4	2737.8	2907.8	3054.4	3294.7	3335.8	3318.2
1987.4	37.5°	2028.4	2151.5	2262.9	2362.6	2485.7	2649.9	2778.8	2784.7
1641.5	40°	1682.5	1793.9	1940.5	2016.7	2104.6	2227.8	2386.0	2397.8
1389.4	42.5°	1418.7	1524.3	1670.8	1764.6	1829.1	1946.4	2104.6	2128.1
1190.1	45°	1219.4	1283.9	1436.3	1547.7	1612.2	1688.4	1858.4	1881.9
1025.9	47.5°	1061.1	1125.6	1219.4	1377.7	1436.3	1506.7	1641.5	1682.5
908.7	50°	932.1	996.6	1078.7	1219.4	1307.3	1366.0	1477.4	1536.0
791.4	52.5°	826.6	891.1	979.0	1090.4	1190.1	1242.9	1348.4	1424.6
644.9	55°	691.8	803.2	867.7	967.3	1102.2	1149.1	1231.1	1330.8
562.8	57.5°	603.8	697.6	791.4	873.5	1008.4	1067.0	1149.1	1242.9
445.6	60°	510.0	598.0	709.4	779.7	908.7	984.9	1072.8	1160.8
340.0	62.5°	404.5	521.8	598.0	697.6	820.8	920.4	990.8	1078.7
263.8	65°	299.0	428.0	515.9	621.4	738.7	844.2	902.8	996.6
187.6	67.5°	216.9	334.2	439.7	539.4	650.7	756.3	814.9	897.0
117.3	70°	170.0	246.2	363.5	451.4	568.7	656.6	721.1	773.9
76.2	72.5°	99.7	187.6	293.1	392.8	498.3	556.9	603.8	650.7
35.2	75°	64.5	146.6	240.4	328.3	404.5	457.3	498.3	539.4
17.6	77.5°	41.0	105.5	193.5	275.5	310.7	375.2	410.4	433.8
11.7	80°	23.5	82.1	170.0	222.8	252.1	293.1	328.3	357.6
11.7	82.5°	17.6	70.4	140.7	187.6	187.6	234.5	252.1	252.1
5.9	85°	11.7	58.6	111.4	175.9	140.7	175.9	164.2	164.2
5.9	87.5°	11.7	41.0	52.8	76.2	64.5	76.2	76.2	87.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°

534666.8  
517554.1  
493553.0  
453119.3  
403540.0  
349276.6  
297311.3  
246958.2  
203663.6  
165615.9  
133888.0  
83869.1  
53987.9  
36359.3  
24405.6  
16075.0  
10511.5  
7210.9  
5241.1  
4045.1  
3259.6  
2743.7  
2380.2  
2110.5  
1876.0  
1688.4  
1541.8  
1424.6  
1336.7  
1248.7  
1184.2  
1119.7  
1014.2  
902.8  
791.4  
662.5  
539.4  
422.1  
322.4  
234.5  
158.3  
87.9  
0.0

(END OF REPORT)