

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: P638623

Luminaire Tested: **EPH-VN-08-E-730-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638623  
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-730-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60130.5 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

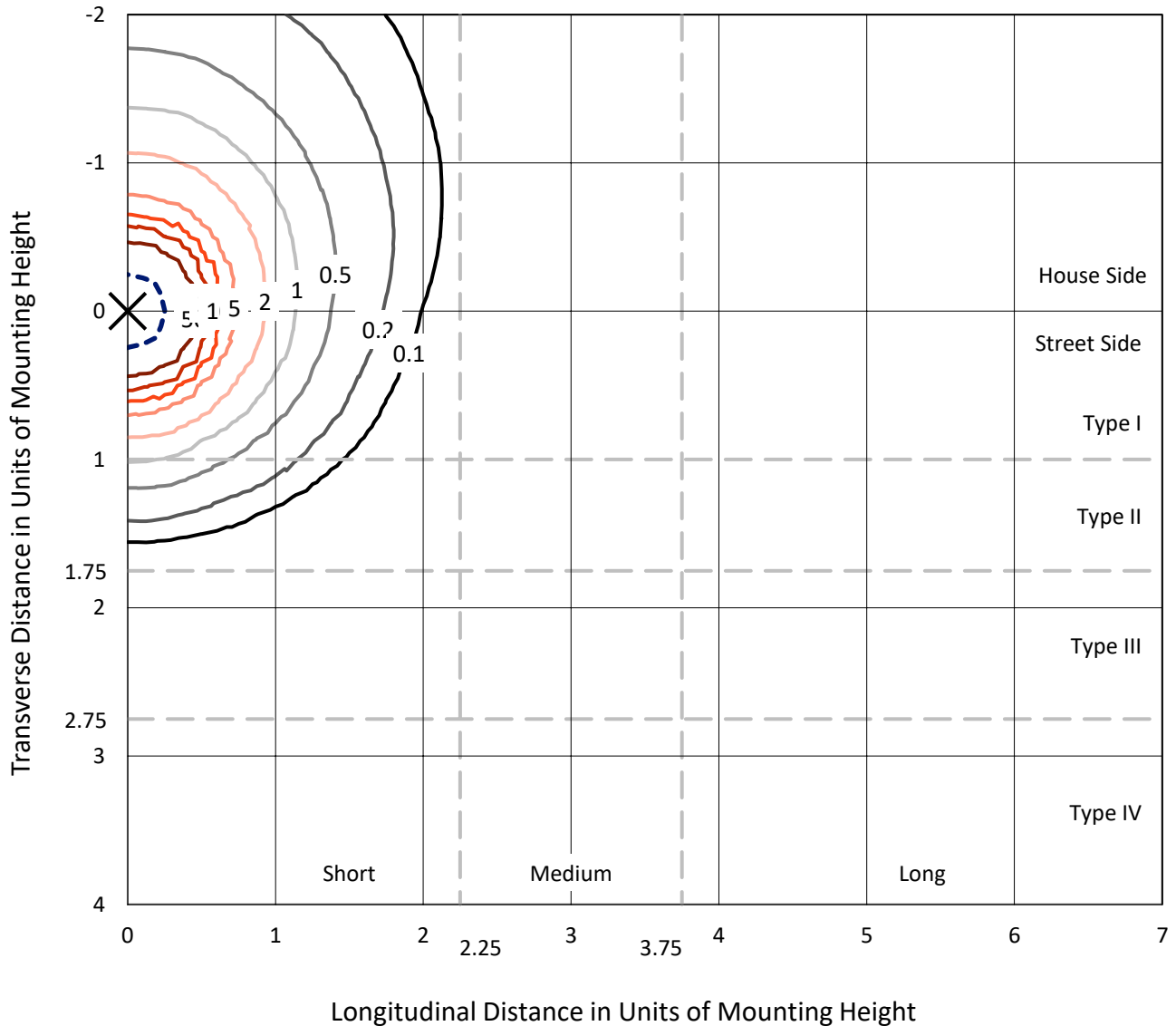
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638623  
 CATALOG NUMBER: EPH-VN-08-E-730-U-44-VI

### Iso-Footcandle Lines of Horizontal Illumination

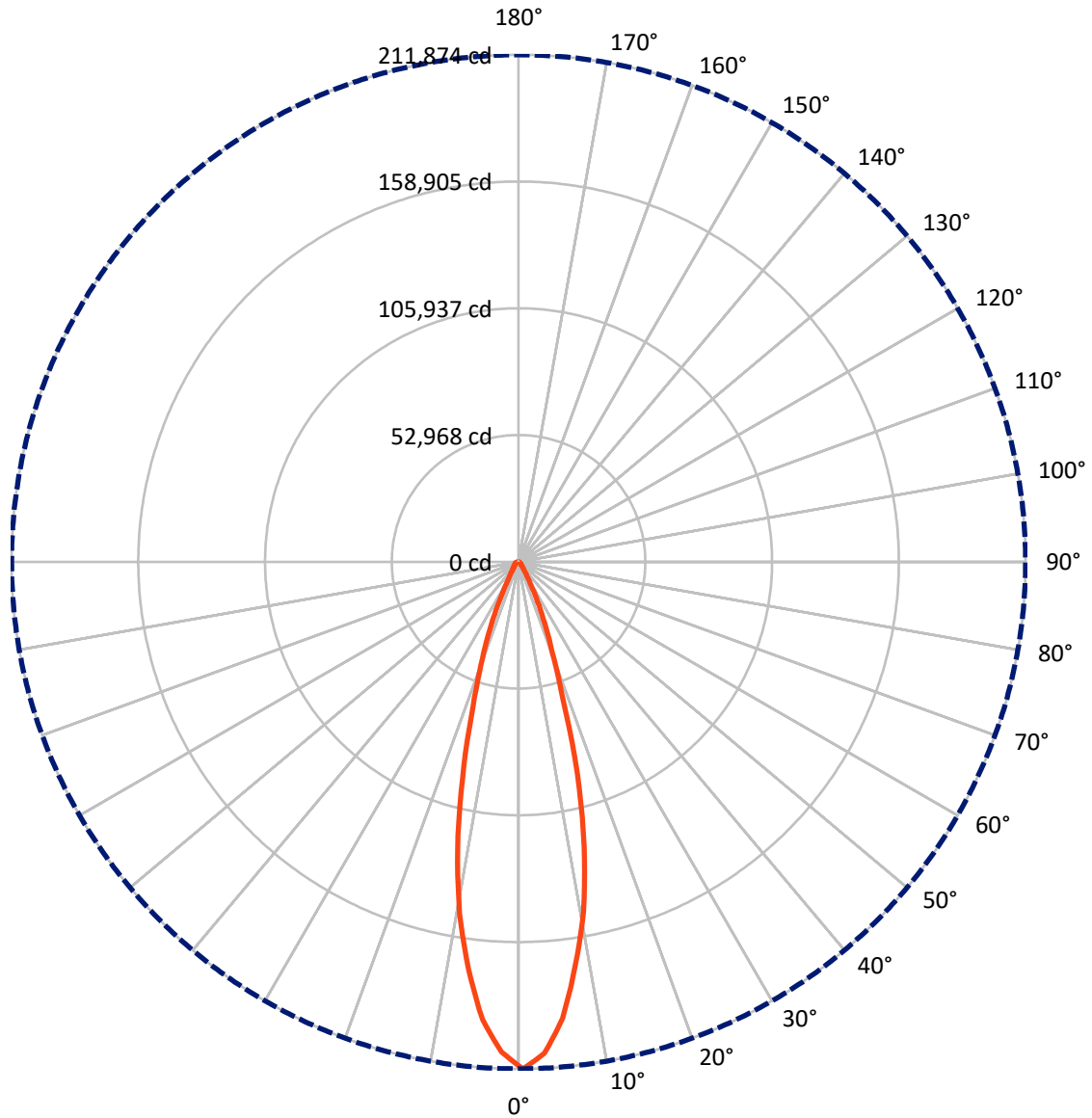
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 529.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P638623  
CATALOG NUMBER: EPH-VN-08-E-730-U-44-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638623  
 CATALOG NUMBER: EPH-VN-08-E-730-U-44-VI

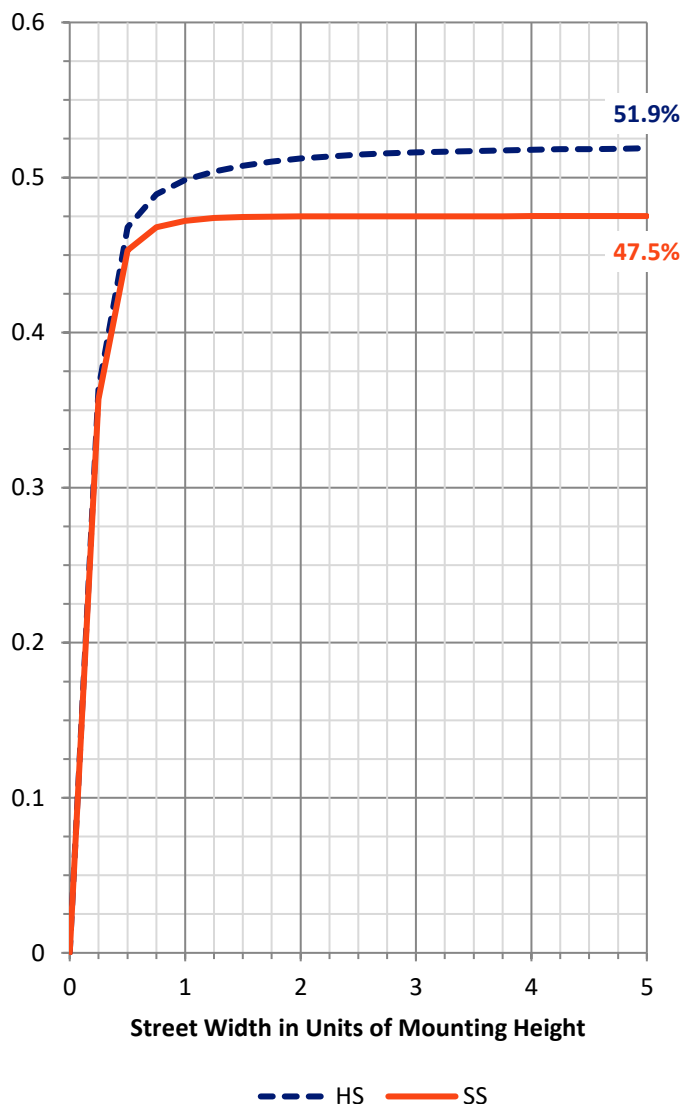
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31704.8	0.0	31704.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	28425.6	0.0	28425.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	60130.5	0.0	60130.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17100.1	28.4
10°-20°	25898.0	43.1
20°-30°	10929.1	18.2
30°-40°	2850.4	4.7
40°-50°	1441.7	2.4
50°-60°	942.3	1.6
60°-70°	564.6	0.9
70°-80°	297.0	0.5
80°-90°	107.3	0.2
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°	60130.5	100.0
0°-180°	60130.5	100.0

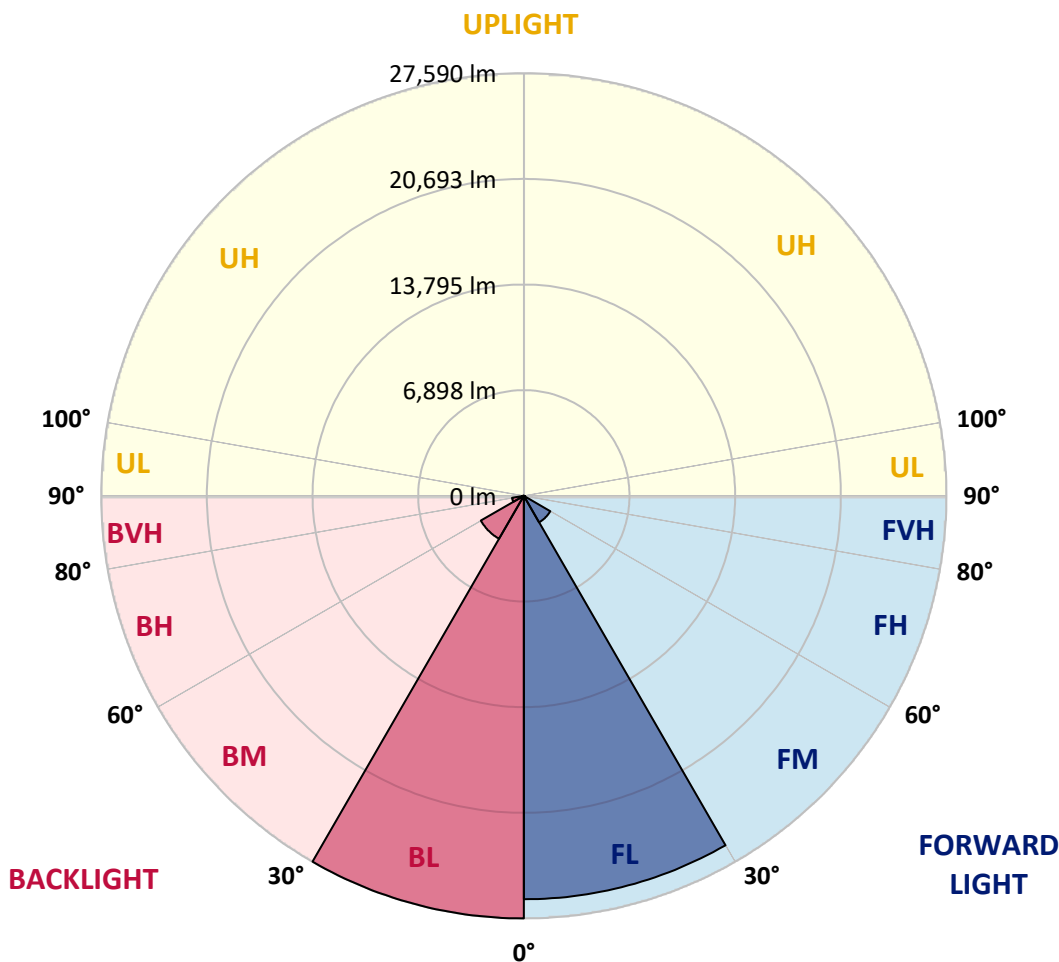


REPORT NUMBER: P638623  
 CATALOG NUMBER: EPH-VN-08-E-730-U-44-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	26336.8	43.8			
FM (30°-60°)	1994.5	3.3			
FH (60°-80°)	81.3	0.1			G0/660
FVH (80°-90°)	13.0	0.0			G1/100
BL (0°-30°)	27590.4	45.9	B5		
BM (30°-60°)	3239.9	5.4	B3/5000		
BH (60°-80°)	780.3	1.3	B2/1000		G1/1800
BVH (80°-90°)	94.2	0.2			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: P638623  
 CATALOG NUMBER: EPH-VN-08-E-730-U-44-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	211873.9	211873.9	211873.9	211873.9	211873.9	211873.9	211873.9	211873.9	211873.9	211873.9
2.5°	205701.9	205816.7	205391.2	206309.6	205593.8	207511.6	206559.5	208045.1	207545.4	208375.9
5°	191656.2	191467.1	191345.5	192770.4	192358.5	194418.0	193101.3	192669.1	194006.1	193763.0
7.5°	170445.8	170945.5	170661.9	171033.3	171242.6	173592.6	174335.4	173754.7	173774.9	174112.6
10°	148702.0	147966.0	146919.3	147614.8	149086.9	150113.3	149701.4	150552.3	150363.2	151166.8
12.5°	121947.7	122528.4	121940.9	121319.7	123892.5	123608.8	124324.6	124790.6	123622.3	126222.2
15°	91857.5	92161.3	92877.1	92829.9	94808.4	95206.8	95112.3	95605.2	94693.6	95125.8
17.5°	59012.2	60038.6	61963.1	65217.9	68877.9	69303.3	69195.3	68790.1	68351.2	67865.0
20°	39638.6	39530.5	40226.1	41178.2	48754.8	50760.3	50699.5	49430.0	47593.3	47242.1
22.5°	27767.3	27969.8	27875.3	28820.7	30387.3	35917.8	35235.8	33946.0	33345.0	32953.4
25°	18266.2	18191.9	18664.6	18948.2	20292.0	20967.2	23357.7	22878.3	21953.1	22054.4
27.5°	11135.3	11229.8	11405.4	11648.5	12600.6	12384.5	13748.6	13930.9	13633.8	13316.4
30°	6833.8	6901.3	7043.1	7218.7	7549.6	7313.2	7691.4	8346.4	8238.3	8015.5
32.5°	4639.1	4645.9	4747.2	4814.7	4774.2	4551.3	4672.9	5294.1	5307.7	5287.4
35°	3335.9	3335.9	3430.4	3484.4	3369.6	3187.3	3207.5	3592.5	3761.3	3795.0
37.5°	2302.7	2309.4	2471.5	2633.6	2505.3	2458.0	2377.0	2633.6	2903.7	2944.2
40°	1749.0	1742.2	1823.2	1944.8	1958.3	1870.5	1897.5	2059.6	2336.4	2370.2
42.5°	1418.1	1424.8	1465.3	1451.8	1458.6	1573.4	1613.9	1688.2	1944.8	2005.6
45°	1195.2	1202.0	1222.2	1154.7	1127.7	1303.3	1357.3	1397.8	1613.9	1688.2
47.5°	985.9	999.4	1019.7	945.4	931.9	1046.7	1141.2	1181.7	1370.8	1451.8
50°	709.0	722.5	796.8	756.3	796.8	823.8	952.1	1012.9	1141.2	1249.3
52.5°	513.2	526.7	547.0	553.7	655.0	668.5	763.1	857.6	918.4	1039.9
55°	405.2	418.7	405.2	391.7	479.4	553.7	587.5	688.8	736.0	877.9
57.5°	229.6	243.1	263.4	303.9	317.4	425.4	459.2	547.0	587.5	722.5
60°	40.5	47.3	74.3	182.3	222.8	270.1	344.4	418.7	472.7	567.2
62.5°	6.8	6.8	13.5	40.5	128.3	189.1	249.9	297.1	344.4	432.2
65°	0.0	0.0	6.8	13.5	33.8	108.0	135.1	175.6	236.3	310.6
67.5°	0.0	0.0	6.8	13.5	20.3	40.5	60.8	108.0	135.1	209.3
70°	0.0	0.0	6.8	13.5	20.3	27.0	33.8	47.3	81.0	128.3
72.5°	0.0	0.0	6.8	13.5	20.3	27.0	33.8	40.5	40.5	81.0
75°	0.0	0.0	6.8	13.5	20.3	33.8	40.5	40.5	33.8	33.8
77.5°	0.0	0.0	6.8	13.5	27.0	40.5	47.3	40.5	27.0	27.0
80°	0.0	0.0	13.5	20.3	33.8	47.3	60.8	47.3	27.0	13.5
82.5°	0.0	0.0	13.5	27.0	33.8	54.0	74.3	60.8	27.0	13.5
85°	0.0	0.0	6.8	20.3	40.5	54.0	74.3	54.0	27.0	6.8
87.5°	0.0	0.0	6.8	6.8	13.5	20.3	40.5	33.8	13.5	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638623

CATALOG NUMBER: EPH-VN-08-E-730-U-44-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
<b>211873.9</b>	0°	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>	<b>211873.9</b>
206802.6	2.5°	207991.0	209071.5	209294.3	208997.2	209429.4	208652.8	208058.6	206518.9	205593.8
193688.7	5°	194938.0	194775.9	195903.6	196275.0	196227.8	195633.5	194802.9	193871.1	192966.2
173457.5	7.5°	174538.0	174747.3	175773.7	176428.7	176097.9	175355.1	174781.1	174078.8	173471.0
151457.1	10°	152841.4	151403.1	152679.4	152679.4	153564.0	151463.9	151659.7	149890.5	149971.5
126174.9	12.5°	126607.1	127127.0	127336.4	127937.3	126904.2	125790.0	124425.9	124155.8	123311.7
94302.0	15°	95659.3	97144.9	95868.6	98049.7	96996.3	95834.8	95625.5	93532.2	94193.9
68398.5	17.5°	68060.8	69701.7	70215.0	71464.2	70505.3	69816.5	68945.4	68310.7	68263.4
47883.7	20°	48261.8	49909.5	50287.6	51786.7	51678.7	51462.6	50726.6	49923.0	49051.9
32595.5	22.5°	33088.4	34432.2	35688.2	37707.3	37673.5	37038.8	36964.5	35830.0	35850.3
22020.7	25°	22250.3	23229.4	23526.5	25592.9	25822.5	25754.9	25370.0	24316.6	24715.0
13451.5	27.5°	13465.0	14322.6	15328.7	16058.0	16746.8	16638.7	16253.8	15666.3	15409.7
8083.0	30°	8299.1	8684.0	9055.4	9933.3	10345.2	10561.3	10379.0	9832.0	9872.5
5321.2	32.5°	5436.0	5760.1	6030.2	6583.9	6800.0	7198.4	7124.1	7009.3	6874.3
3828.8	35°	3963.9	4200.2	4382.5	4639.1	4916.0	5253.6	5307.7	5260.4	5206.4
2957.7	37.5°	3025.2	3268.3	3477.7	3585.7	3801.8	4065.1	4213.7	4207.0	4166.4
2410.7	40°	2458.0	2640.3	2829.4	2971.2	3119.8	3315.6	3497.9	3518.2	3518.2
2025.8	42.5°	2052.8	2208.1	2397.2	2545.8	2653.8	2836.1	3025.2	3038.7	3025.2
1715.2	45°	1755.7	1890.8	2073.1	2248.7	2336.4	2471.5	2653.8	2694.3	2667.3
1472.1	47.5°	1526.1	1647.7	1803.0	1992.1	2086.6	2208.1	2377.0	2424.2	2417.5
1269.5	50°	1310.0	1451.8	1607.2	1762.5	1884.0	1998.8	2160.9	2214.9	2194.6
1080.4	52.5°	1154.7	1283.0	1418.1	1586.9	1728.7	1830.0	1958.3	2052.8	2025.8
911.6	55°	965.6	1121.0	1262.8	1404.6	1580.1	1688.2	1809.7	1924.5	1897.5
769.8	57.5°	837.3	965.6	1127.7	1256.0	1431.6	1559.9	1681.4	1803.0	1796.2
628.0	60°	702.3	837.3	992.7	1127.7	1289.8	1431.6	1553.1	1688.2	1701.7
472.7	62.5°	553.7	715.8	850.8	1006.2	1168.2	1323.5	1431.6	1566.6	1586.9
357.9	65°	418.7	587.5	736.0	884.6	1046.7	1215.5	1310.0	1424.8	1445.1
263.4	67.5°	310.6	452.4	628.0	763.1	931.9	1093.9	1181.7	1276.3	1310.0
162.1	70°	236.3	344.4	526.7	655.0	830.6	958.9	1053.4	1134.5	1161.5
108.0	72.5°	148.6	270.1	425.4	560.5	715.8	830.6	898.1	945.4	985.9
60.8	75°	101.3	209.3	344.4	479.4	594.2	682.0	742.8	783.3	817.1
27.0	77.5°	60.8	162.1	283.6	398.4	472.7	540.2	601.0	628.0	648.3
20.3	80°	33.8	121.5	236.3	324.1	371.4	418.7	465.9	499.7	513.2
13.5	82.5°	20.3	94.5	189.1	249.9	270.1	317.4	364.6	384.9	384.9
6.8	85°	13.5	67.5	128.3	182.3	195.8	229.6	243.1	256.6	270.1
6.8	87.5°	13.5	40.5	81.0	101.3	108.0	121.5	128.3	141.8	155.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
211873.9  
204911.8  
191953.3  
171411.5  
149181.5  
122541.9  
93532.2  
67007.4  
48673.7  
35458.6  
24087.0  
15186.9  
9696.9  
6827.0  
5186.1  
4146.2  
3477.7  
3011.7  
2667.3  
2404.0  
2181.1  
2019.1  
1911.0  
1803.0  
1708.4  
1600.4  
1465.3  
1323.5  
1175.0  
979.1  
810.3  
641.5  
499.7  
378.2  
263.4  
148.6  
0.0

(END OF REPORT)