

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: P638620

Luminaire Tested: **EPH-VN-06-E-730-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638620  
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-730-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46471.2 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

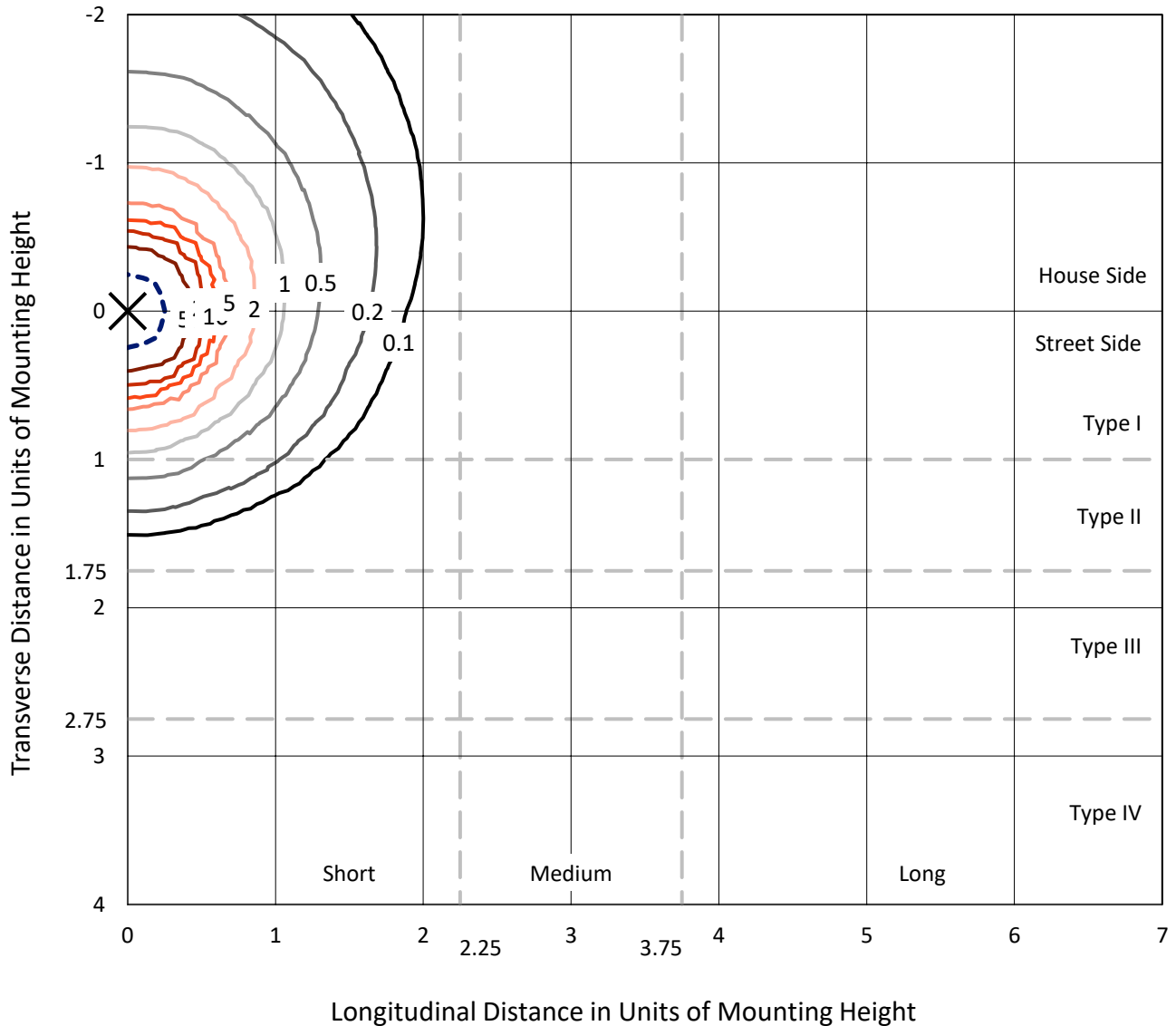
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

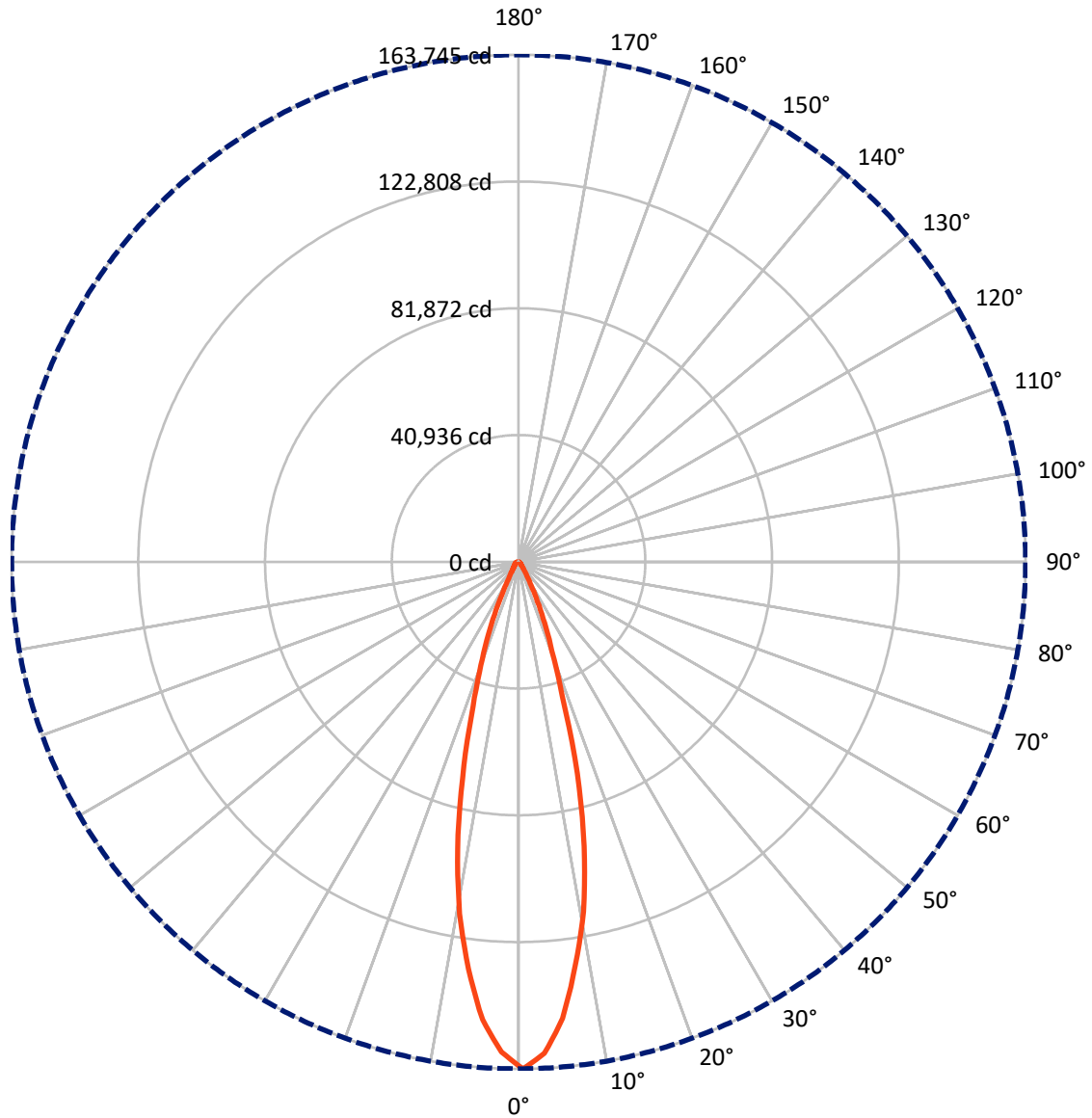
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 409.4 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	24502.8	0.0	24502.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	21968.5	0.0	21968.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	46471.2	0.0	46471.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13215.7	28.4
10°-20°	20015.0	43.1
20°-30°	8446.4	18.2
30°-40°	2202.9	4.7
40°-50°	1114.2	2.4
50°-60°	728.3	1.6
60°-70°	436.3	0.9
70°-80°	229.5	0.5
80°-90°	82.9	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°	46471.2	100.0
0°-180°	46471.2	100.0

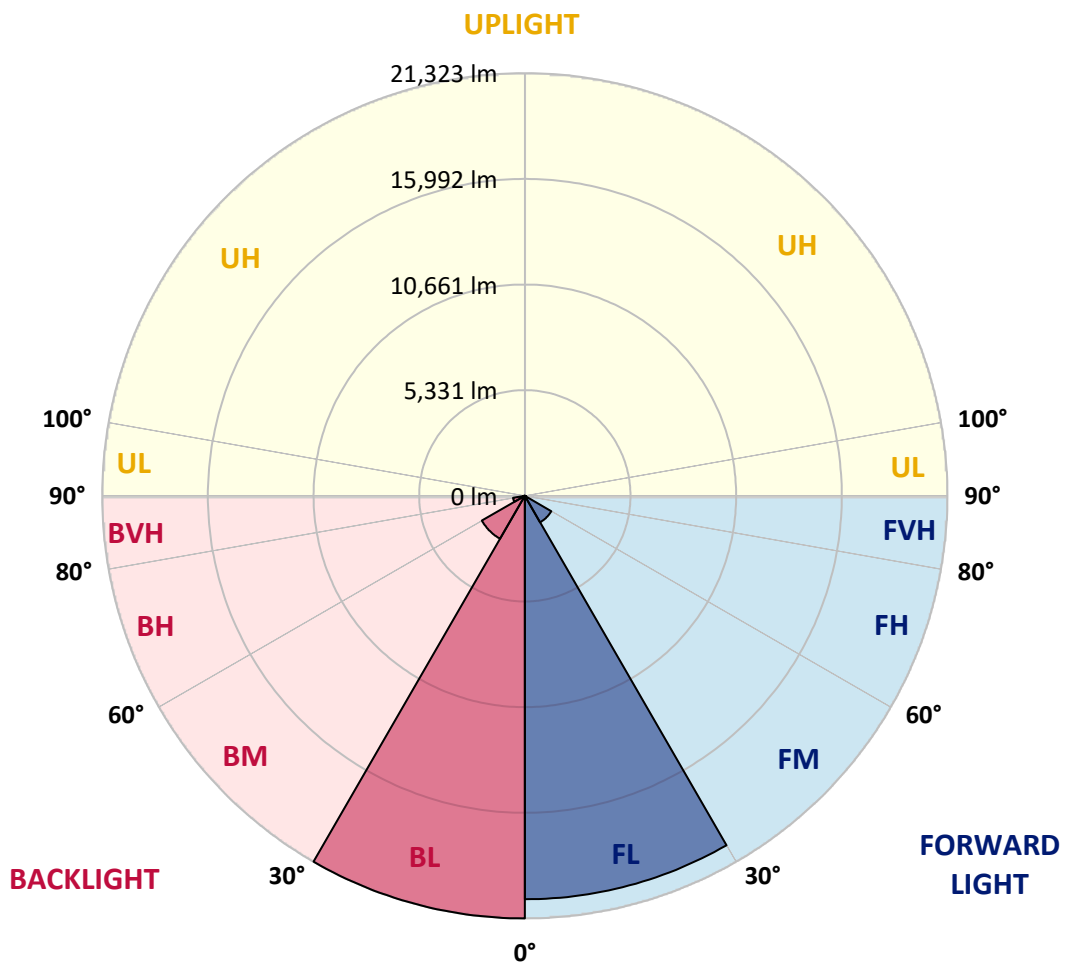


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20354.1	43.8			
FM (30°-60°)	1541.5	3.3			
FH (60°-80°)	62.8	0.1			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	21323.0	45.9	B5		
BM (30°-60°)	2503.9	5.4	B3/5000		
BH (60°-80°)	603.1	1.3	B2/1000		G0/660
BVH (80°-90°)	72.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6
2.5°	158974.6	159063.4	158734.6	159444.3	158891.1	160373.3	159637.4	160785.6	160399.4	161041.3
5°	148119.6	147973.4	147879.5	148980.7	148662.3	150254.0	149236.4	148902.4	149935.7	149747.8
7.5°	131727.4	132113.5	131894.4	132181.4	132343.2	134159.3	134733.4	134284.6	134300.2	134561.2
10°	114922.9	114354.0	113545.1	114082.6	115220.3	116013.6	115695.2	116352.8	116206.7	116827.7
12.5°	94246.0	94694.9	94240.8	93760.7	95749.1	95529.9	96083.1	96443.1	95540.3	97549.5
15°	70991.1	71226.0	71779.2	71742.6	73271.7	73579.7	73506.6	73887.6	73183.0	73517.0
17.5°	45607.0	46400.2	47887.6	50403.0	53231.6	53560.4	53476.9	53163.8	52824.5	52448.8
20°	30634.3	30550.8	31088.3	31824.2	37679.6	39229.6	39182.6	38201.5	36782.0	36510.6
22.5°	21459.6	21616.2	21543.1	22273.8	23484.5	27758.7	27231.6	26234.8	25770.4	25467.7
25°	14116.8	14059.4	14424.7	14643.9	15682.4	16204.3	18051.8	17681.2	16966.3	17044.6
27.5°	8605.8	8678.8	8814.5	9002.4	9738.3	9571.3	10625.4	10766.4	10536.7	10291.4
30°	5281.4	5333.6	5443.2	5578.9	5834.6	5651.9	5944.2	6450.4	6366.9	6194.7
32.5°	3585.3	3590.5	3668.8	3721.0	3689.7	3517.5	3611.4	4091.5	4102.0	4086.3
35°	2578.1	2578.1	2651.1	2692.9	2604.2	2463.3	2478.9	2776.4	2906.9	2933.0
37.5°	1779.6	1784.8	1910.1	2035.3	1936.2	1899.6	1837.0	2035.3	2244.1	2275.4
40°	1351.7	1346.4	1409.1	1503.0	1513.4	1445.6	1466.5	1591.7	1805.7	1831.8
42.5°	1095.9	1101.2	1132.5	1122.0	1127.3	1216.0	1247.3	1304.7	1503.0	1550.0
45°	923.7	928.9	944.6	892.4	871.5	1007.2	1049.0	1080.3	1247.3	1304.7
47.5°	761.9	772.4	788.0	730.6	720.2	808.9	882.0	913.3	1059.4	1122.0
50°	548.0	558.4	615.8	584.5	615.8	636.7	735.8	782.8	882.0	965.5
52.5°	396.6	407.1	422.7	427.9	506.2	516.7	589.7	662.8	709.8	803.7
55°	313.1	323.6	313.1	302.7	370.5	427.9	454.0	532.3	568.8	678.4
57.5°	177.4	187.9	203.5	234.8	245.3	328.8	354.9	422.7	454.0	558.4
60°	31.3	36.5	57.4	140.9	172.2	208.8	266.2	323.6	365.3	438.4
62.5°	5.2	5.2	10.4	31.3	99.2	146.1	193.1	229.6	266.2	334.0
65°	0.0	0.0	5.2	10.4	26.1	83.5	104.4	135.7	182.7	240.1
67.5°	0.0	0.0	5.2	10.4	15.7	31.3	47.0	83.5	104.4	161.8
70°	0.0	0.0	5.2	10.4	15.7	20.9	26.1	36.5	62.6	99.2
72.5°	0.0	0.0	5.2	10.4	15.7	20.9	26.1	31.3	31.3	62.6
75°	0.0	0.0	5.2	10.4	15.7	26.1	31.3	31.3	26.1	26.1
77.5°	0.0	0.0	5.2	10.4	20.9	31.3	36.5	31.3	20.9	20.9
80°	0.0	0.0	10.4	15.7	26.1	36.5	47.0	36.5	20.9	10.4
82.5°	0.0	0.0	10.4	20.9	26.1	41.8	57.4	47.0	20.9	10.4
85°	0.0	0.0	5.2	15.7	31.3	41.8	57.4	41.8	20.9	5.2
87.5°	0.0	0.0	5.2	5.2	10.4	15.7	31.3	26.1	10.4	5.2
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°
163744.6	0°	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6	163744.6
159825.3	2.5°	160743.8	161578.8	161751.0	161521.4	161855.4	161255.2	160796.0	159606.1	158891.1
149690.4	5°	150655.9	150530.6	151402.2	151689.2	151652.7	151193.4	150551.5	149831.3	149132.0
134054.9	7.5°	134889.9	135051.7	135845.0	136351.2	136095.5	135521.4	135077.8	134535.1	134065.4
117052.1	10°	118122.0	117010.4	117996.7	117996.7	118680.4	117057.4	117208.7	115841.4	115904.0
97513.0	12.5°	97847.0	98248.8	98410.6	98875.1	98076.6	97215.5	96161.3	95952.6	95300.2
72880.3	15°	73929.3	75077.4	74091.1	75776.8	74962.6	74065.0	73903.2	72285.4	72796.8
52861.1	17.5°	52600.1	53868.3	54264.9	55230.4	54489.3	53957.0	53283.8	52793.2	52756.7
37006.4	20°	37298.7	38572.0	38864.3	40022.9	39939.4	39772.4	39203.5	38582.5	37909.3
25191.1	22.5°	25572.0	26610.6	27581.3	29141.7	29115.6	28625.0	28567.6	27690.9	27706.5
17018.5	25°	17195.9	17952.6	18182.2	19779.2	19956.6	19904.4	19607.0	18792.8	19100.8
10395.8	27.5°	10406.3	11069.0	11846.6	12410.3	12942.6	12859.1	12561.6	12107.6	11909.3
6246.9	30°	6413.9	6711.4	6998.4	7676.8	7995.2	8162.2	8021.3	7598.6	7629.9
4112.4	32.5°	4201.1	4451.6	4660.4	5088.3	5255.3	5563.2	5505.8	5417.1	5312.7
2959.1	35°	3063.4	3246.1	3387.0	3585.3	3799.3	4060.2	4102.0	4065.4	4023.7
2285.8	37.5°	2338.0	2525.9	2687.7	2771.2	2938.2	3141.7	3256.5	3251.3	3220.0
1863.1	40°	1899.6	2040.5	2186.7	2296.3	2411.1	2562.4	2703.3	2719.0	2719.0
1565.6	42.5°	1586.5	1706.5	1852.7	1967.5	2051.0	2191.9	2338.0	2348.5	2338.0
1325.6	45°	1356.9	1461.3	1602.2	1737.9	1805.7	1910.1	2051.0	2082.3	2061.4
1137.7	47.5°	1179.4	1273.4	1393.4	1539.5	1612.6	1706.5	1837.0	1873.5	1868.3
981.1	50°	1012.4	1122.0	1242.1	1362.1	1456.0	1544.8	1670.0	1711.8	1696.1
835.0	52.5°	892.4	991.6	1095.9	1226.4	1336.0	1414.3	1513.4	1586.5	1565.6
704.5	55°	746.3	866.3	975.9	1085.5	1221.2	1304.7	1398.6	1487.4	1466.5
594.9	57.5°	647.1	746.3	871.5	970.7	1106.4	1205.5	1299.5	1393.4	1388.2
485.3	60°	542.8	647.1	767.2	871.5	996.8	1106.4	1200.3	1304.7	1315.1
365.3	62.5°	427.9	553.2	657.6	777.6	902.8	1022.9	1106.4	1210.8	1226.4
276.6	65°	323.6	454.0	568.8	683.7	808.9	939.4	1012.4	1101.2	1116.8
203.5	67.5°	240.1	349.7	485.3	589.7	720.2	845.4	913.3	986.4	1012.4
125.3	70°	182.7	266.2	407.1	506.2	641.9	741.1	814.1	876.8	897.6
83.5	72.5°	114.8	208.8	328.8	433.2	553.2	641.9	694.1	730.6	761.9
47.0	75°	78.3	161.8	266.2	370.5	459.3	527.1	574.1	605.4	631.5
20.9	77.5°	47.0	125.3	219.2	307.9	365.3	417.5	464.5	485.3	501.0
15.7	80°	26.1	93.9	182.7	250.5	287.0	323.6	360.1	386.2	396.6
10.4	82.5°	15.7	73.1	146.1	193.1	208.8	245.3	281.8	297.5	297.5
5.2	85°	10.4	52.2	99.2	140.9	151.3	177.4	187.9	198.3	208.8
5.2	87.5°	10.4	31.3	62.6	78.3	83.5	93.9	99.2	109.6	120.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
163744.6  
158364.0  
148349.2  
132473.6  
115293.4  
94705.3  
72285.4  
51786.0  
37617.0  
27403.8  
18615.4  
11737.0  
7494.2  
5276.2  
4008.0  
3204.3  
2687.7  
2327.6  
2061.4  
1857.9  
1685.7  
1560.4  
1476.9  
1393.4  
1320.4  
1236.9  
1132.5  
1022.9  
908.1  
756.7  
626.3  
495.8  
386.2  
292.3  
203.5  
114.8  
0.0

(END OF REPORT)