

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: P638569

Luminaire Tested: **EPH-VN-08-E-730-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638569  
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-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62000.8 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

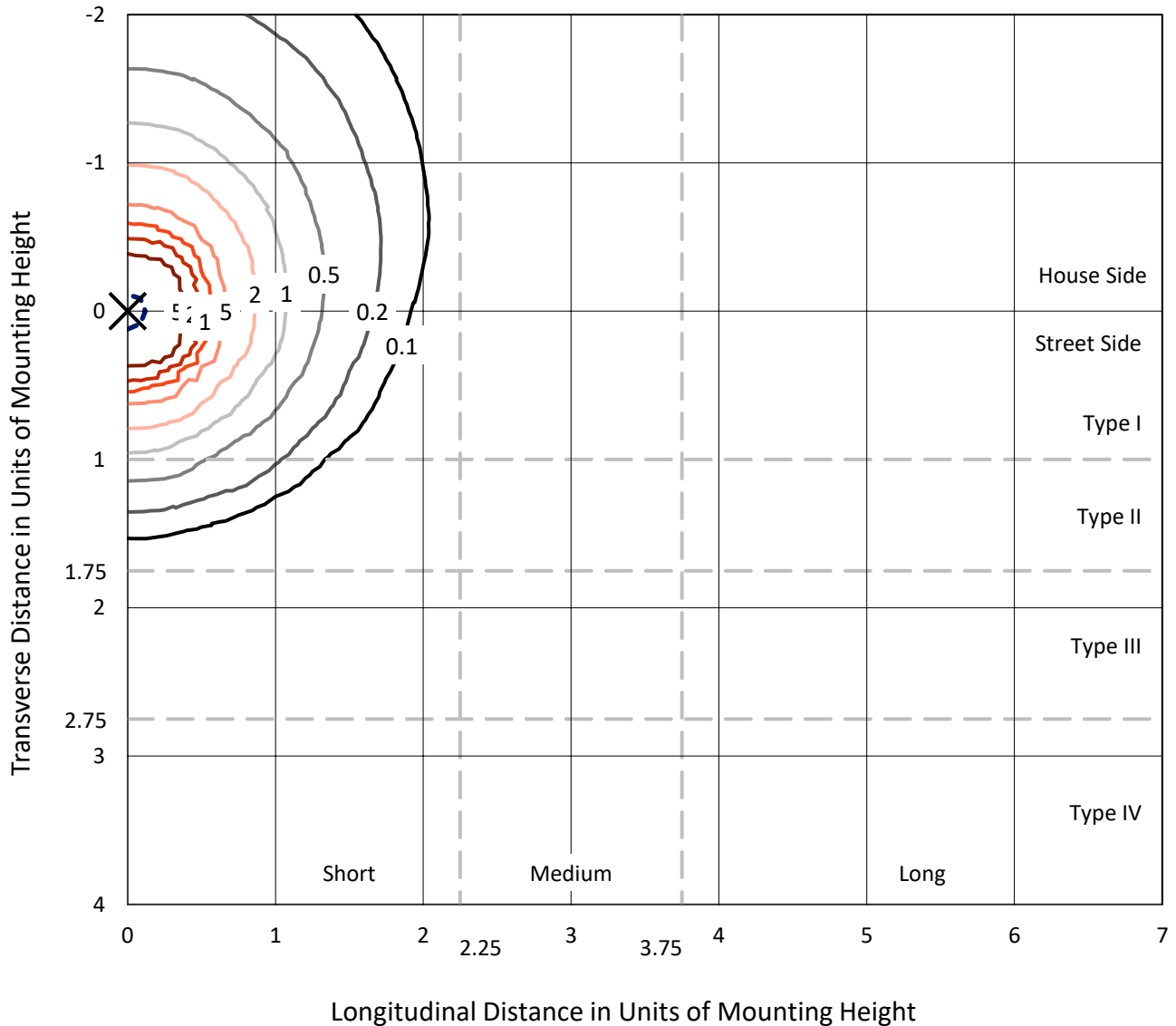
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

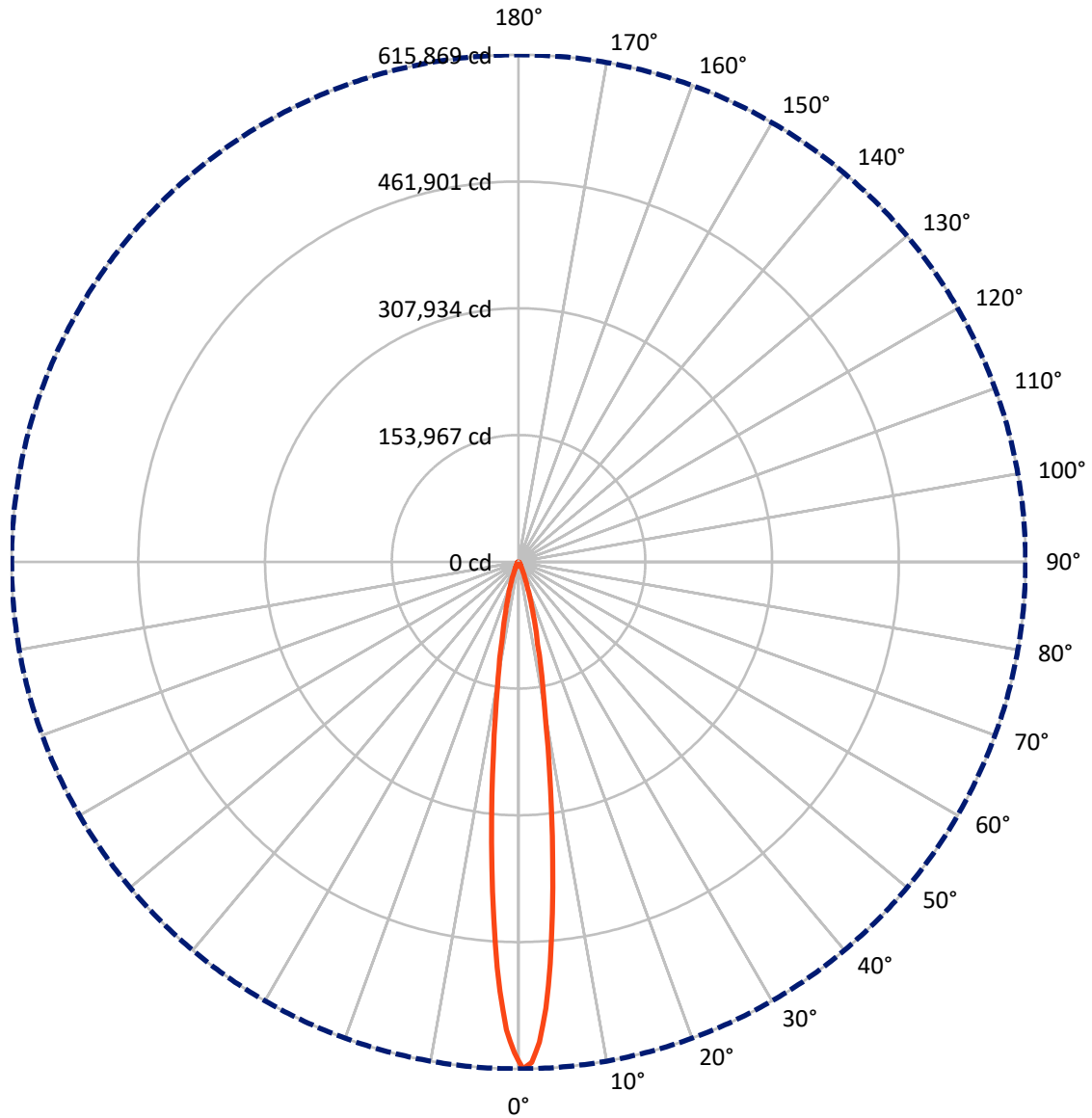
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1539.7 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	31755.7	0.0	31755.7
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	30245.1	0.0	30245.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	62000.8	0.0	62000.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31299.8	50.5
10°-20°	20038.0	32.3
20°-30°	6023.0	9.7
30°-40°	1961.1	3.2
40°-50°	1141.0	1.8
50°-60°	757.9	1.2
60°-70°	456.2	0.7
70°-80°	234.5	0.4
80°-90°	89.1	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°	62000.8	100.0
0°-180°	62000.8	100.0

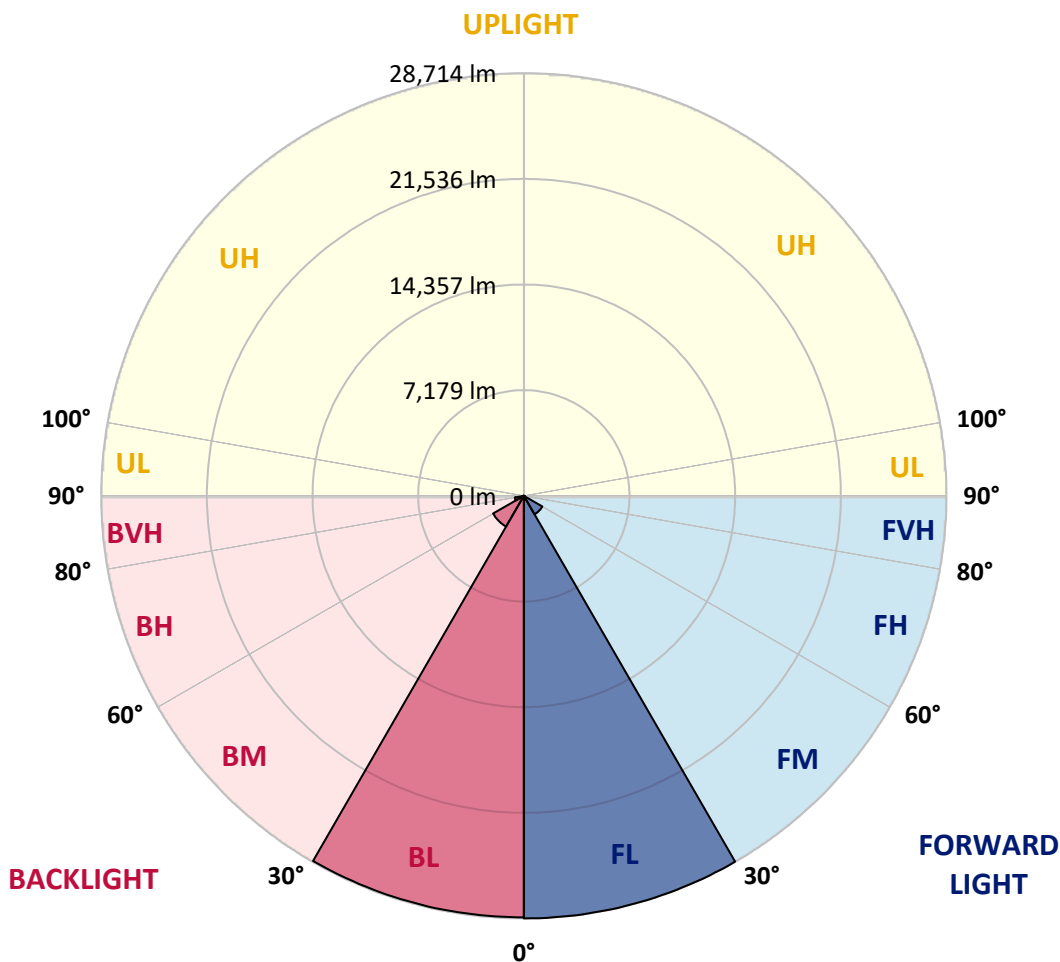


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	28714.5	46.3			
FM (30°-60°)	1449.0	2.3			
FH (60°-80°)	68.2	0.1			G0/660
FVH (80°-90°)	13.4	0.0			G1/100
BL (0°-30°)	28646.4	46.2	B5		
BM (30°-60°)	2411.1	3.9	B2/2500		
BH (60°-80°)	622.5	1.0	B2/1000		G0/660
BVH (80°-90°)	75.7	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°	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6
1°	608494.4	606637.4	601842.9	605253.1	608251.3	607380.2	607319.4	606995.3	606542.9	610094.9
2°	584170.6	582968.6	575878.1	578802.1	583063.1	579956.8	581901.6	580193.2	580226.9	584467.7
3°	543167.2	543822.2	532511.1	537825.7	543747.9	536218.5	538555.0	542944.3	538345.6	536961.3
4°	489873.5	484187.6	478008.7	483411.0	484943.9	480561.3	484869.6	490244.9	483856.7	484140.3
5°	429030.1	424829.9	417516.5	420852.4	417050.6	418434.9	424890.6	427105.6	422648.7	417037.1
6°	366471.6	363486.8	354343.4	359151.4	357800.9	357017.5	365168.2	358415.4	360846.4	357449.7
7°	304831.3	299253.5	294762.8	299368.3	299665.4	297308.6	307890.4	306661.4	302238.2	301211.8
8°	252557.4	246993.0	243191.1	246621.6	248863.6	245163.0	250139.8	253408.2	249950.8	250261.4
9°	203700.4	202721.2	197433.7	201917.6	204355.4	200391.4	205901.8	207083.5	203848.9	205422.3
10°	167255.1	166113.9	161893.3	163709.9	167748.1	163021.1	168308.6	168693.5	166113.9	166849.9
12.5°	103359.4	102900.2	102785.4	103048.8	102994.8	103832.1	105182.7	103643.1	103440.5	100894.6
15°	66806.2	67488.2	66785.9	68136.5	68332.3	69122.4	68298.5	67056.0	64685.8	63510.8
17.5°	41692.2	42563.3	43765.4	45743.9	47722.5	47952.1	46858.2	45399.6	44251.6	42995.5
20°	23986.2	24411.6	24229.3	26599.6	31718.2	33109.3	31698.0	30165.1	28780.7	27511.2
22.5°	14903.6	14748.3	15031.9	15828.7	17496.7	21798.3	20643.5	19110.6	18104.4	17057.8
25°	9136.6	9305.5	9197.4	9636.3	10385.9	12209.2	12472.6	11810.8	11297.6	10757.3
27.5°	5881.8	5881.8	5929.0	6172.1	6685.3	6624.6	8029.2	7515.9	7239.1	6975.7
30°	4085.5	4099.0	4099.0	4240.8	4355.6	4153.0	4517.7	5179.5	5051.1	4848.6
32.5°	3032.0	3072.6	3106.3	3180.6	3086.1	2870.0	2957.8	3727.6	3653.3	3579.0
35°	2309.5	2343.2	2424.3	2464.8	2329.7	2194.7	2113.6	2741.7	2775.4	2755.2
37.5°	1681.5	1701.7	1850.3	2005.6	1850.3	1728.7	1681.5	2106.9	2269.0	2248.7
40°	1289.8	1296.6	1323.6	1499.1	1499.1	1404.6	1418.1	1573.4	1857.0	1857.0
42.5°	1107.5	1107.5	1134.5	1107.5	1114.2	1215.5	1249.3	1269.5	1573.4	1573.4
45°	958.9	958.9	972.4	904.9	837.4	1046.7	1073.7	1080.5	1323.6	1357.3
47.5°	803.6	803.6	830.6	742.8	709.1	830.6	904.9	925.1	1141.2	1168.2
50°	594.3	601.0	682.0	607.8	628.0	641.5	783.3	796.8	965.7	1026.4
52.5°	398.4	398.4	411.9	472.7	547.0	526.7	634.8	682.0	769.8	850.9
55°	324.1	324.1	317.4	303.9	405.2	438.9	465.9	567.2	628.0	729.3
57.5°	222.8	236.4	216.1	249.9	263.4	330.9	351.1	445.7	479.5	614.5
60°	27.0	33.8	47.3	182.3	175.6	222.8	263.4	351.1	391.7	472.7
62.5°	6.8	6.8	13.5	33.8	121.6	148.6	209.3	243.1	283.6	364.7
65°	0.0	0.0	6.8	13.5	27.0	81.0	108.0	141.8	202.6	256.6
67.5°	0.0	0.0	6.8	13.5	13.5	33.8	54.0	87.8	108.0	189.1
70°	0.0	0.0	6.8	13.5	13.5	27.0	33.8	40.5	74.3	101.3
72.5°	0.0	0.0	6.8	13.5	20.3	27.0	33.8	33.8	33.8	67.5
75°	0.0	0.0	6.8	13.5	20.3	27.0	33.8	33.8	27.0	27.0
77.5°	0.0	0.0	6.8	13.5	27.0	33.8	40.5	33.8	20.3	20.3
80°	0.0	0.0	6.8	20.3	33.8	47.3	54.0	40.5	20.3	13.5
82.5°	0.0	0.0	13.5	27.0	40.5	54.0	74.3	60.8	27.0	13.5
85°	0.0	0.0	6.8	20.3	40.5	54.0	108.0	74.3	33.8	6.8
87.5°	0.0	0.0	0.0	6.8	6.8	13.5	40.5	27.0	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



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**CANDELA DISTRIBUTION (continued):**

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
615868.6	0°	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6	615868.6
605995.9	1°	610229.9	610655.4	609264.3	611418.4	610662.1	606232.2	604766.9	603031.4
581975.9	2°	580193.2	582360.8	582468.9	584859.4	584825.6	579659.7	578059.3	581010.3
539770.5	3°	538136.3	540661.9	538386.1	542633.7	541357.4	535090.7	533463.3	536812.7
486382.3	4°	484930.4	484451.0	483667.6	481250.1	484228.1	479953.5	476732.4	481277.1
424478.7	5°	423627.9	422560.9	421034.8	420318.9	422533.9	419799.0	413174.4	419812.5
363594.8	6°	364040.5	359448.6	359225.7	358827.3	359050.1	351392.4	351851.6	356794.7
297680.1	7°	300826.9	301671.0	299949.0	302710.9	300604.0	295417.8	293419.0	298625.5
251625.5	8°	249869.7	248802.8	247486.0	251612.0	247958.7	244555.2	242225.5	246338.0
205678.9	9°	205294.0	203450.5	202113.4	201904.1	202471.3	196083.1	197379.7	200492.7
167255.1	10°	167315.9	164290.6	165026.7	165222.5	164601.2	160414.4	160455.0	161528.7
102582.9	12.5°	102218.2	100732.6	101104.0	101306.6	102569.4	101097.2	99017.3	97518.2
64679.0	15°	64246.8	63179.9	65361.0	66826.4	66529.3	65219.2	64240.1	62882.7
42995.5	17.5°	42597.1	43995.0	44001.7	45338.8	45473.8	44163.8	43407.5	42185.2
27963.6	20°	27862.3	28443.1	29651.9	30597.3	31144.2	30144.8	29239.9	28402.6
17435.9	22.5°	17435.9	18448.8	19205.2	20434.2	20933.9	20204.6	19563.1	18881.0
10885.6	25°	10703.3	11425.9	12053.9	13120.8	13802.9	13451.7	12864.2	12384.8
7029.7	27.5°	7137.8	7441.7	7752.3	8488.4	9197.4	9001.6	8765.2	8474.9
4956.6	30°	5030.9	5057.9	5388.8	5800.7	6273.4	6395.0	6286.9	6138.4
3639.8	32.5°	3707.3	3815.4	3970.7	4227.3	4544.7	4835.1	4781.0	4713.5
2782.2	35°	2863.2	3025.3	3153.6	3349.4	3518.2	3795.1	3842.4	3822.1
2289.2	37.5°	2336.5	2478.3	2606.6	2721.4	2863.2	3052.3	3200.9	3207.6
1890.8	40°	1938.1	2066.4	2235.2	2323.0	2424.3	2566.1	2748.4	2761.9
1600.4	42.5°	1634.2	1755.7	1924.6	2032.6	2106.9	2242.0	2424.3	2451.3
1370.8	45°	1404.6	1478.9	1654.5	1782.8	1857.0	1944.8	2140.7	2167.7
1181.8	47.5°	1222.3	1296.6	1404.6	1586.9	1654.5	1735.5	1890.8	1938.1
1046.7	50°	1073.7	1148.0	1242.5	1404.6	1505.9	1573.4	1701.7	1769.3
911.6	52.5°	952.2	1026.4	1127.7	1256.0	1370.8	1431.6	1553.2	1640.9
742.8	55°	796.8	925.1	999.4	1114.2	1269.5	1323.6	1418.1	1532.9
648.3	57.5°	695.5	803.6	911.6	1006.2	1161.5	1229.0	1323.6	1431.6
513.2	60°	587.5	688.8	817.1	898.1	1046.7	1134.5	1235.8	1337.1
391.7	62.5°	465.9	601.0	688.8	803.6	945.4	1060.2	1141.2	1242.5
303.9	65°	344.4	493.0	594.3	715.8	850.9	972.4	1039.9	1148.0
216.1	67.5°	249.9	384.9	506.5	621.3	749.6	871.1	938.6	1033.2
135.1	70°	195.8	283.6	418.7	520.0	655.0	756.3	830.6	891.4
87.8	72.5°	114.8	216.1	337.6	452.4	574.0	641.5	695.5	749.6
40.5	75°	74.3	168.8	276.9	378.2	465.9	526.7	574.0	621.3
20.3	77.5°	47.3	121.6	222.8	317.4	357.9	432.2	472.7	499.7
13.5	80°	27.0	94.5	195.8	256.6	290.4	337.6	378.2	411.9
13.5	82.5°	20.3	81.0	162.1	216.1	216.1	270.1	290.4	290.4
6.8	85°	13.5	67.5	128.3	202.6	162.1	202.6	189.1	189.1
6.8	87.5°	13.5	47.3	60.8	87.8	74.3	87.8	87.8	101.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
615868.6  
596157.0  
568510.7  
521936.1  
464827.1  
402322.5  
342465.1  
284464.7  
234594.7  
190768.6  
154222.1  
96606.6  
62187.2  
41881.3  
28112.2  
18516.4  
12107.9  
8306.0  
6037.1  
4659.5  
3754.6  
3160.3  
2741.7  
2431.0  
2160.9  
1944.8  
1776.0  
1640.9  
1539.7  
1438.4  
1364.1  
1289.8  
1168.2  
1039.9  
911.6  
763.1  
621.3  
486.2  
371.4  
270.1  
182.3  
101.3  
0.0

(END OF REPORT)