

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: P638570

Luminaire Tested: **EPH-VN-03-E-735-U-33-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638570  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-03-E-735-U-33-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26457 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

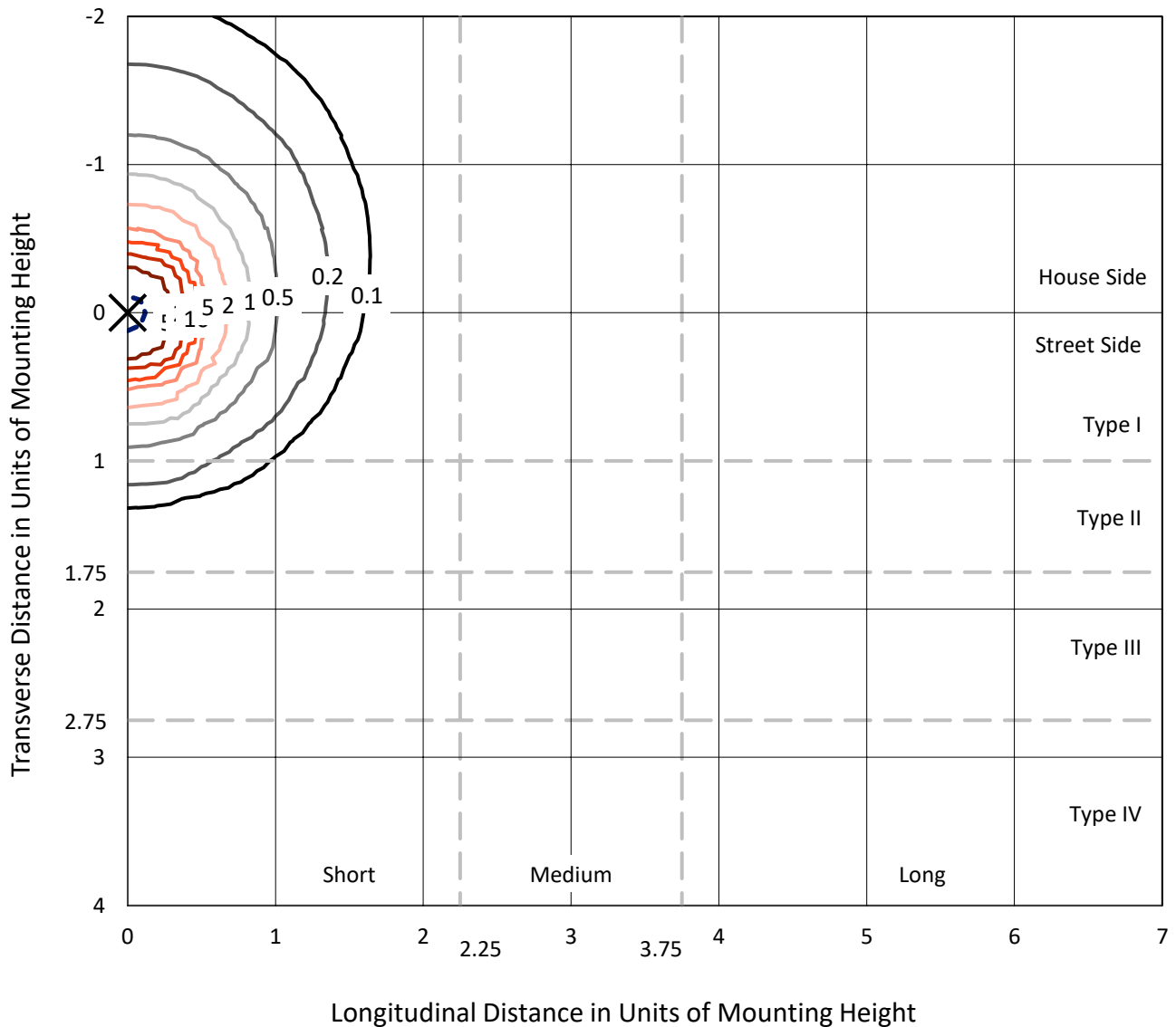
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

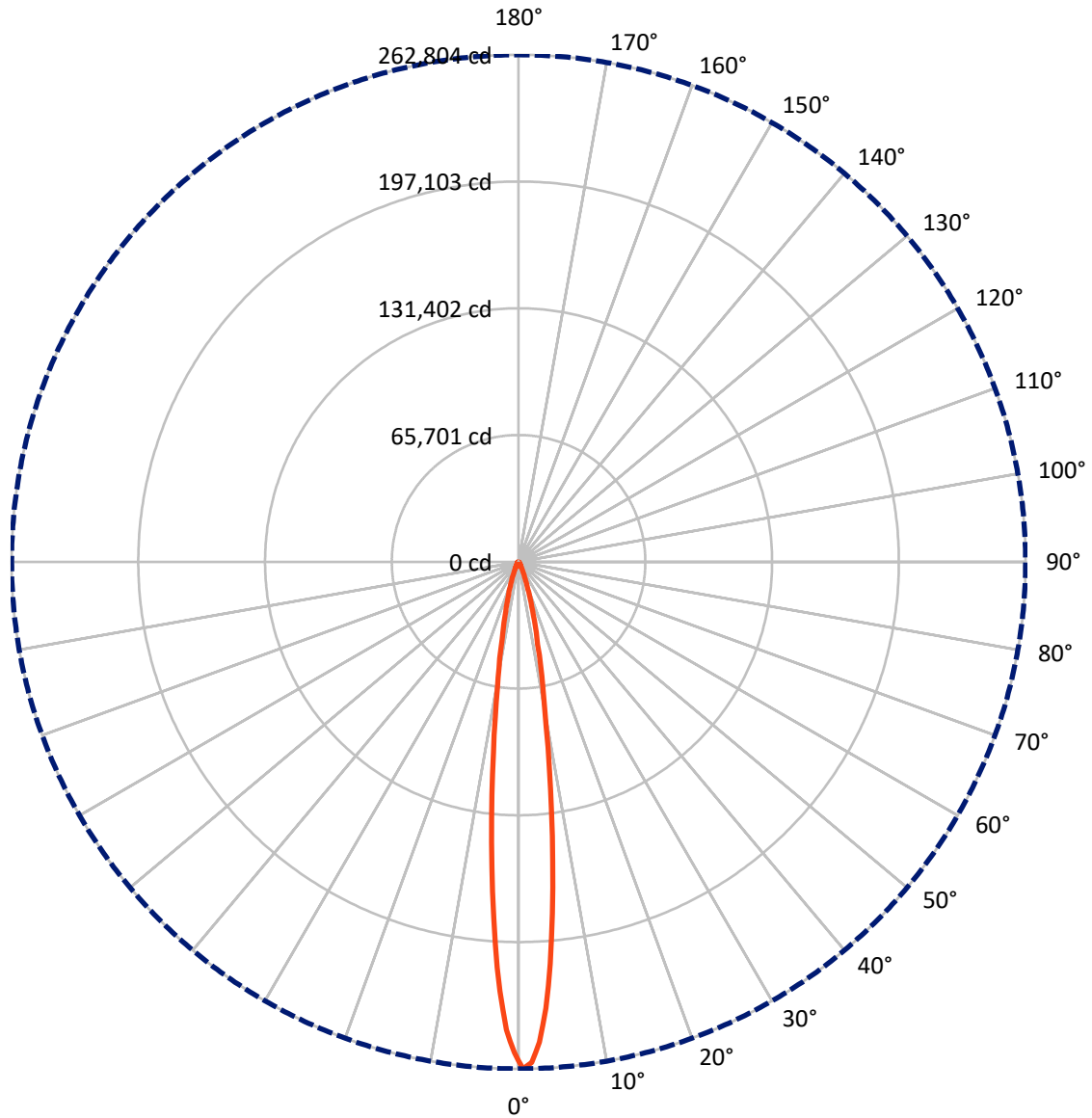
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 657 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	13550.8	0.0	13550.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	12906.2	0.0	12906.2
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	26457.0	0.0	26457.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13356.3	50.5
10°-20°	8550.6	32.3
20°-30°	2570.2	9.7
30°-40°	836.9	3.2
40°-50°	486.9	1.8
50°-60°	323.4	1.2
60°-70°	194.7	0.7
70°-80°	100.1	0.4
80°-90°	38.0	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°	26457.0	100.0
0°-180°	26457.0	100.0

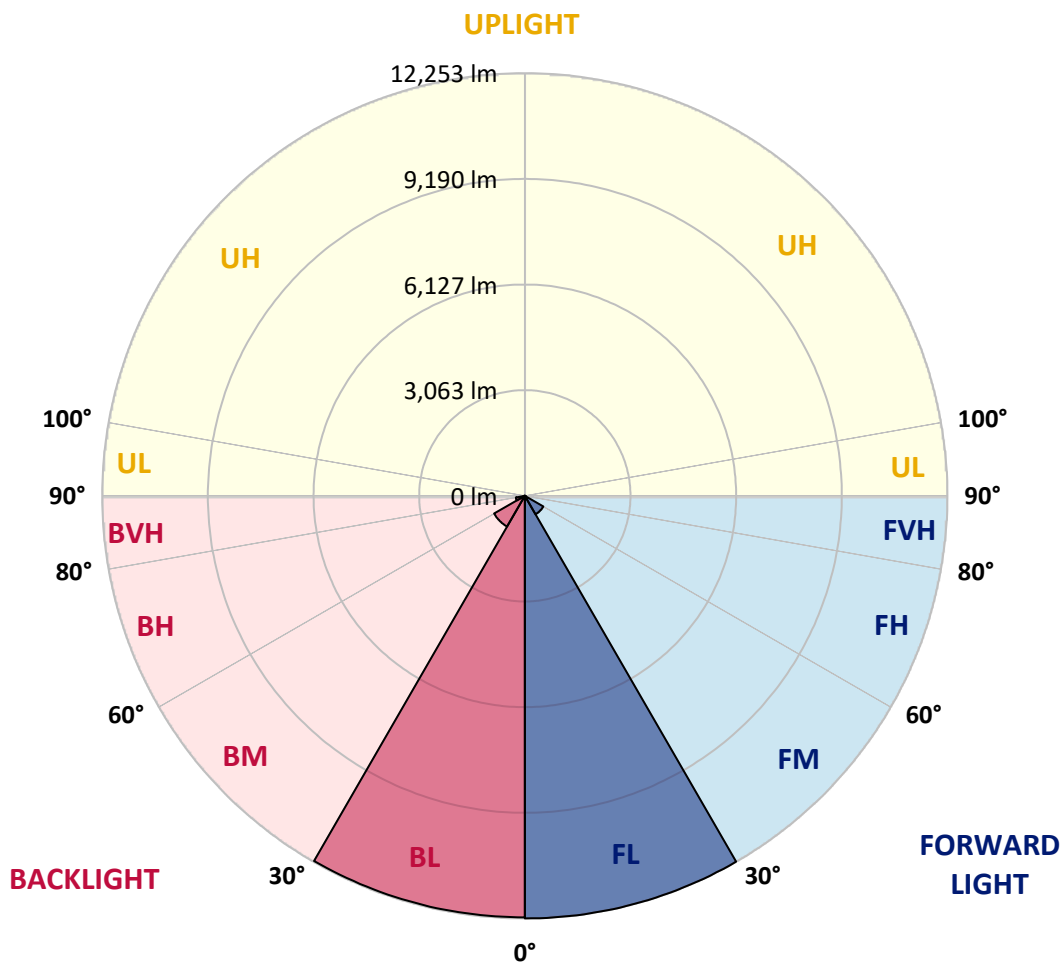


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12253.1	46.3			
FM (30°-60°)	618.3	2.3			
FH (60°-80°)	29.1	0.1			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	12224.0	46.2	B5		
BM (30°-60°)	1028.9	3.9	B2/2500		
BH (60°-80°)	265.6	1.0	B1/500		G0/660
BVH (80°-90°)	32.3	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°	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8
1°	259657.1	258864.7	256818.8	258274.0	259553.4	259181.7	259155.8	259017.4	258824.4	260340.1
2°	249277.7	248764.7	245739.1	246986.8	248805.1	247479.6	248309.4	247580.4	247594.8	249404.5
3°	231780.7	232060.2	227233.5	229501.3	232028.5	228815.5	229812.5	231685.6	229723.2	229132.5
4°	209039.1	206612.8	203976.2	206281.5	206935.6	205065.4	206903.9	209197.6	206471.7	206592.7
5°	183076.0	181283.7	178162.9	179586.4	177964.1	178554.8	181309.6	182254.8	180352.9	177958.3
6°	156381.0	155107.3	151205.6	153257.3	152681.0	152346.8	155824.8	152943.2	153980.6	152531.2
7°	130077.8	127697.6	125781.4	127746.6	127873.4	126867.7	131383.2	130858.7	128971.3	128533.3
8°	107771.4	105397.0	103774.7	105238.5	106195.2	104616.1	106739.8	108134.5	106659.2	106791.7
9°	86923.1	86505.3	84249.0	86162.4	87202.7	85511.2	87862.5	88366.8	86986.5	87658.0
10°	71371.2	70884.2	69083.2	69858.4	71581.6	69564.5	71820.7	71985.0	70884.2	71198.3
12.5°	44105.6	43909.7	43860.7	43973.1	43950.0	44307.3	44883.6	44226.6	44140.2	43053.8
15°	28507.6	28798.6	28498.9	29075.2	29158.8	29496.0	29144.4	28614.2	27602.7	27101.3
17.5°	17790.9	18162.7	18675.6	19519.9	20364.2	20462.2	19995.3	19372.9	18883.1	18347.1
20°	10235.4	10416.9	10339.1	11350.6	13534.8	14128.4	13526.2	12872.1	12281.3	11739.6
22.5°	6359.7	6293.4	6414.4	6754.4	7466.2	9301.8	8809.0	8154.9	7725.5	7278.9
25°	3898.8	3970.8	3924.7	4112.0	4431.9	5209.9	5322.3	5039.9	4820.9	4590.4
27.5°	2509.9	2509.9	2530.0	2633.8	2852.8	2826.8	3426.2	3207.2	3089.1	2976.7
30°	1743.4	1749.1	1749.1	1809.6	1858.6	1772.2	1927.8	2210.2	2155.4	2069.0
32.5°	1293.8	1311.1	1325.5	1357.2	1316.9	1224.7	1262.1	1590.6	1558.9	1527.2
35°	985.5	999.9	1034.5	1051.8	994.1	936.5	901.9	1169.9	1184.3	1175.7
37.5°	717.5	726.2	789.6	855.8	789.6	737.7	717.5	899.1	968.2	959.6
40°	550.4	553.3	564.8	639.7	639.7	599.4	605.1	671.4	792.4	792.4
42.5°	472.6	472.6	484.1	472.6	475.5	518.7	533.1	541.7	671.4	671.4
45°	409.2	409.2	414.9	386.1	357.3	446.6	458.2	461.1	564.8	579.2
47.5°	342.9	342.9	354.4	317.0	302.6	354.4	386.1	394.8	487.0	498.5
50°	253.6	256.5	291.0	259.3	268.0	273.8	334.3	340.0	412.1	438.0
52.5°	170.0	170.0	175.8	201.7	233.4	224.8	270.9	291.0	328.5	363.1
55°	138.3	138.3	135.4	129.7	172.9	187.3	198.8	242.1	268.0	311.2
57.5°	95.1	100.9	92.2	106.6	112.4	141.2	149.8	190.2	204.6	262.2
60°	11.5	14.4	20.2	77.8	74.9	95.1	112.4	149.8	167.1	201.7
62.5°	2.9	2.9	5.8	14.4	51.9	63.4	89.3	103.7	121.0	155.6
65°	0.0	0.0	2.9	5.8	11.5	34.6	46.1	60.5	86.4	109.5
67.5°	0.0	0.0	2.9	5.8	5.8	14.4	23.1	37.5	46.1	80.7
70°	0.0	0.0	2.9	5.8	5.8	11.5	14.4	17.3	31.7	43.2
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	14.4	14.4	28.8
75°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	14.4	11.5	11.5
77.5°	0.0	0.0	2.9	5.8	11.5	14.4	17.3	14.4	8.6	8.6
80°	0.0	0.0	2.9	8.6	14.4	20.2	23.1	17.3	8.6	5.8
82.5°	0.0	0.0	5.8	11.5	17.3	23.1	31.7	25.9	11.5	5.8
85°	0.0	0.0	2.9	8.6	17.3	23.1	46.1	31.7	14.4	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	17.3	11.5	5.8	2.9
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°
262803.8	0°	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8	262803.8
258591.0	1°	260397.7	260579.3	259985.6	260904.9	260582.1	258691.8	258066.5	257325.9
248341.1	2°	247580.4	248505.4	248551.5	249571.6	249557.2	247352.8	246669.8	247929.1
230331.2	3°	229633.9	230711.6	229740.5	231553.0	231008.4	228334.3	227639.8	229069.1
207549.4	4°	206929.8	206725.2	206391.0	205359.4	206630.1	204806.1	203431.6	205370.9
181133.8	5°	180770.8	180315.5	179664.2	179358.8	180303.9	179136.9	176310.1	179142.7
155153.4	6°	155343.6	153384.1	153289.0	153119.0	153214.1	149946.4	150142.3	152251.7
127026.2	7°	128369.0	128729.2	127994.4	129173.0	128274.0	126060.9	125207.9	127429.7
107373.8	8°	106624.6	106169.3	105607.4	107368.0	105809.1	104356.8	103362.6	105117.5
87767.5	9°	87603.2	86816.5	86246.0	86156.6	86398.7	83672.7	84226.0	85554.4
71371.2	10°	71397.1	70106.2	70420.3	70503.9	70238.7	68452.2	68469.4	68927.6
43774.2	12.5°	43618.6	42984.7	43143.2	43229.6	43768.5	43140.3	42252.7	41613.0
27599.9	15°	27415.4	26960.2	27890.9	28516.2	28389.4	27830.4	27412.6	26833.4
18347.1	17.5°	18177.1	18773.6	18776.4	19347.0	19404.6	18845.6	18522.9	18001.3
11932.7	20°	11889.4	12137.3	12653.1	13056.5	13289.9	12863.4	12477.3	12120.0
7440.3	22.5°	7440.3	7872.5	8195.2	8719.7	8932.9	8621.7	8348.0	8056.9
4645.1	25°	4567.3	4875.6	5143.6	5598.9	5890.0	5740.1	5489.4	5284.8
2999.7	27.5°	3045.8	3175.5	3308.1	3622.2	3924.7	3841.2	3740.3	3616.4
2115.1	30°	2146.8	2158.3	2299.5	2475.3	2677.0	2728.9	2682.8	2619.4
1553.2	32.5°	1582.0	1628.1	1694.4	1803.9	1939.3	2063.2	2040.2	2011.3
1187.2	35°	1221.8	1291.0	1345.7	1429.3	1501.3	1619.5	1639.6	1631.0
976.9	37.5°	997.0	1057.5	1112.3	1161.3	1221.8	1302.5	1365.9	1368.8
806.8	40°	827.0	881.8	953.8	991.3	1034.5	1095.0	1172.8	1178.6
682.9	42.5°	697.3	749.2	821.3	867.4	899.1	956.7	1034.5	1046.0
585.0	45°	599.4	631.1	706.0	760.7	792.4	829.9	913.5	925.0
504.3	47.5°	521.6	553.3	599.4	677.2	706.0	740.6	806.8	827.0
446.6	50°	458.2	489.9	530.2	599.4	642.6	671.4	726.2	755.0
389.0	52.5°	406.3	438.0	481.2	536.0	585.0	610.9	662.8	700.2
317.0	55°	340.0	394.8	426.5	475.5	541.7	564.8	605.1	654.1
276.6	57.5°	296.8	342.9	389.0	429.4	495.6	524.4	564.8	610.9
219.0	60°	250.7	293.9	348.7	383.3	446.6	484.1	527.3	570.6
167.1	62.5°	198.8	256.5	293.9	342.9	403.4	452.4	487.0	530.2
129.7	65°	147.0	210.4	253.6	305.4	363.1	414.9	443.8	489.9
92.2	67.5°	106.6	164.3	216.1	265.1	319.9	371.7	400.5	440.9
57.6	70°	83.6	121.0	178.7	221.9	279.5	322.7	354.4	380.4
37.5	72.5°	49.0	92.2	144.1	193.1	244.9	273.8	296.8	319.9
17.3	75°	31.7	72.0	118.1	161.4	198.8	224.8	244.9	265.1
8.6	77.5°	20.2	51.9	95.1	135.4	152.7	184.4	201.7	213.2
5.8	80°	11.5	40.3	83.6	109.5	123.9	144.1	161.4	175.8
5.8	82.5°	8.6	34.6	69.2	92.2	92.2	115.3	123.9	123.9
2.9	85°	5.8	28.8	54.8	86.4	69.2	86.4	80.7	80.7
2.9	87.5°	5.8	20.2	25.9	37.5	31.7	37.5	37.5	43.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
262803.8  
254392.5  
242595.3  
222720.9  
198351.3  
171679.3  
146136.9  
121387.0  
100106.4  
81404.9  
65809.7  
41224.0  
26536.6  
17871.6  
11996.1  
7901.3  
5166.7  
3544.4  
2576.1  
1988.3  
1602.2  
1348.6  
1169.9  
1037.4  
922.1  
829.9  
757.9  
700.2  
657.0  
613.8  
582.1  
550.4  
498.5  
443.8  
389.0  
325.6  
265.1  
207.5  
158.5  
115.3  
77.8  
43.2  
0.0

(END OF REPORT)