

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: P638640

Luminaire Tested: **EPH-VN-08-D-750-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638640  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-750-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54998.9 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

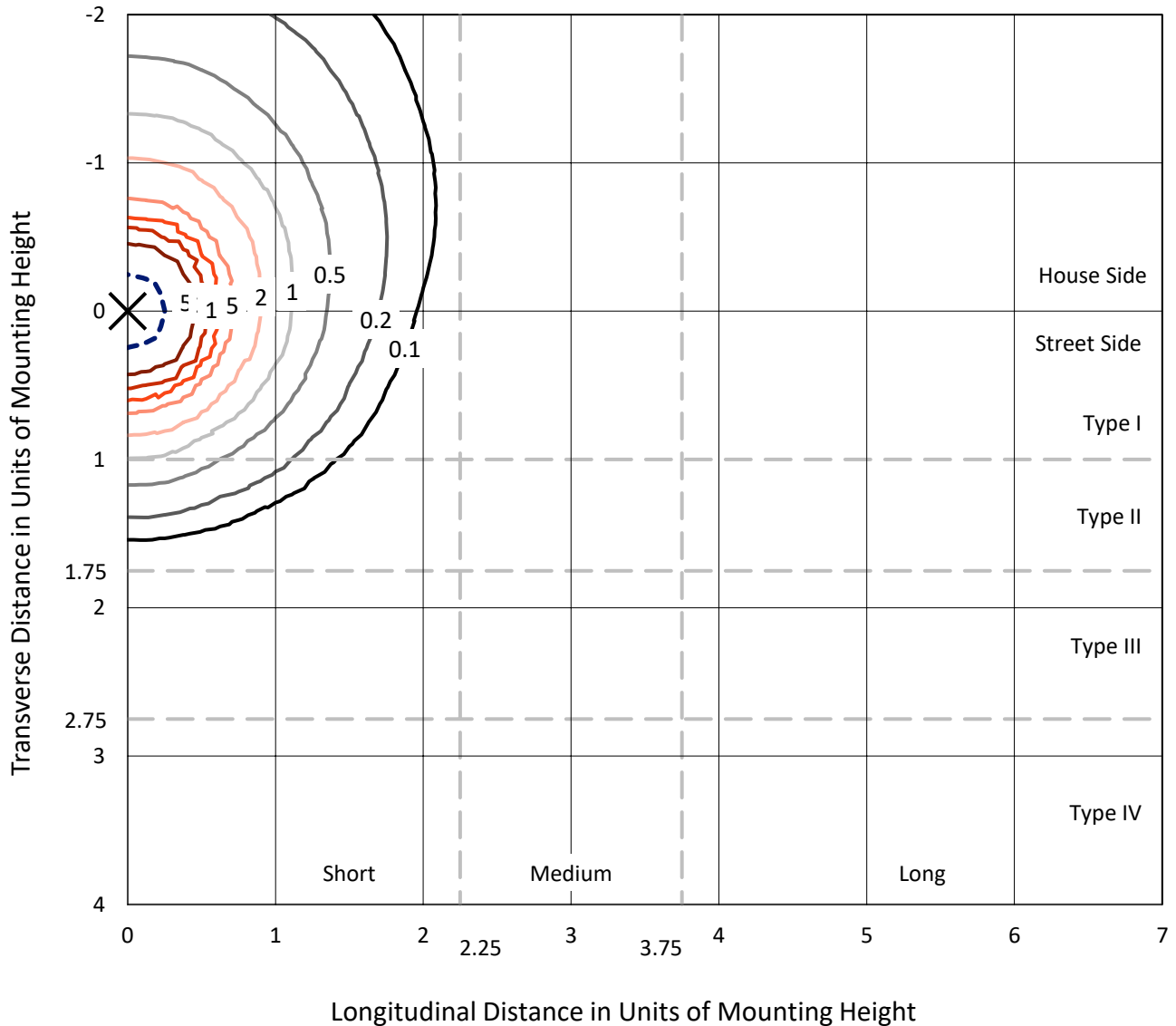
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

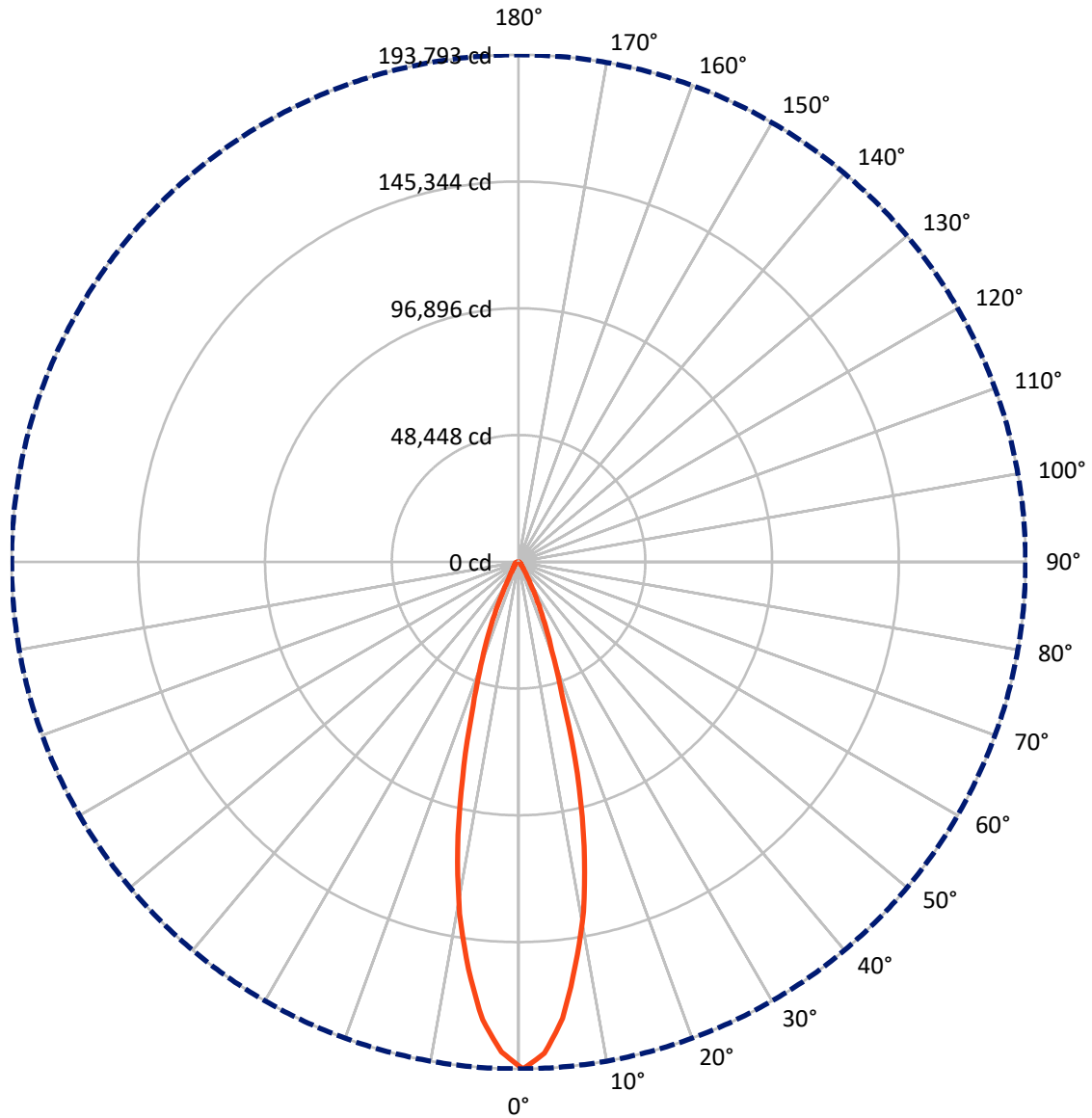
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 484.5 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	28999.1	0.0	28999.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	25999.8	0.0	25999.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	54998.9	0.0	54998.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15640.8	28.4
10°-20°	23687.8	43.1
20°-30°	9996.4	18.2
30°-40°	2607.1	4.7
40°-50°	1318.7	2.4
50°-60°	861.9	1.6
60°-70°	516.4	0.9
70°-80°	271.7	0.5
80°-90°	98.1	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°	54998.9	100.0
0°-180°	54998.9	100.0

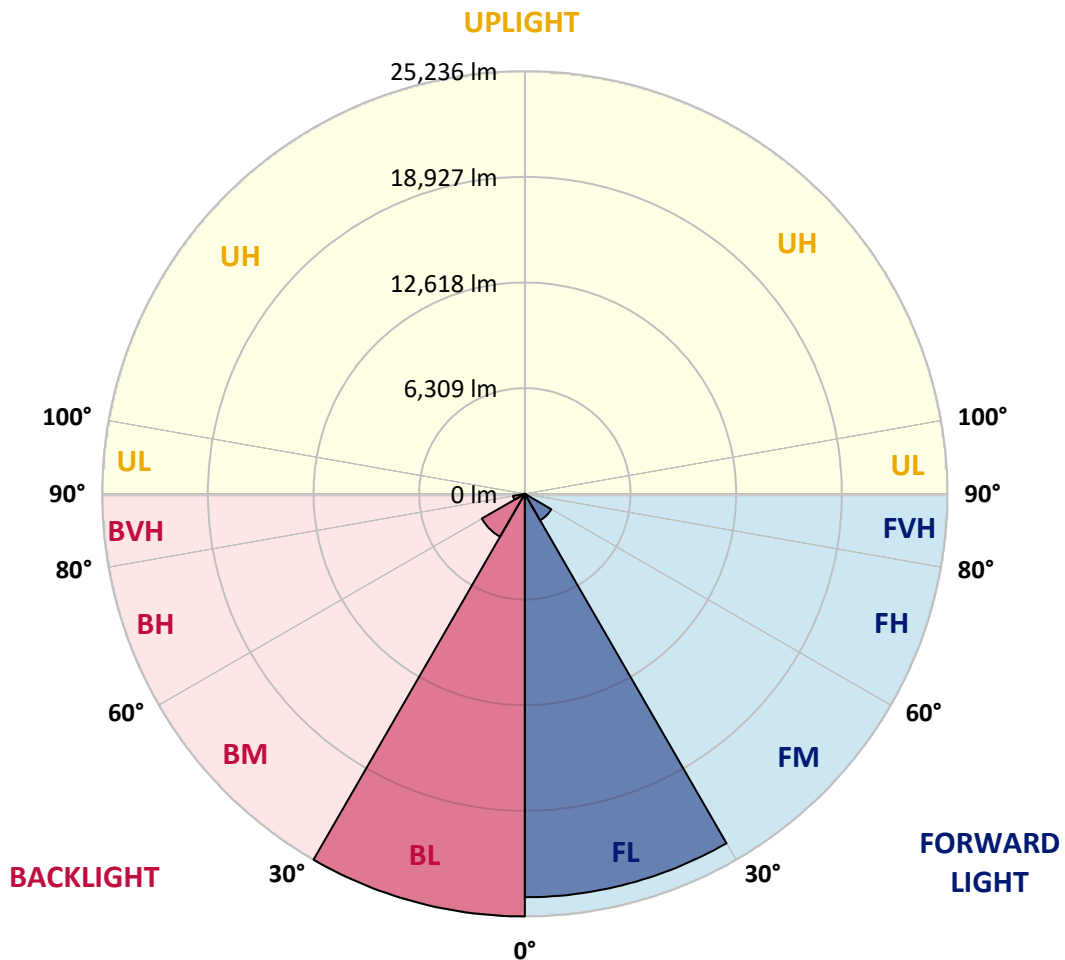


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24089.2	43.8			
FM (30°-60°)	1824.3	3.3			
FH (60°-80°)	74.4	0.1			G0/660
FVH (80°-90°)	11.9	0.0			G1/100
BL (0°-30°)	25235.8	45.9	B5		
BM (30°-60°)	2963.4	5.4	B3/5000		
BH (60°-80°)	713.7	1.3	B2/1000		G1/1800
BVH (80°-90°)	86.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	193792.5	193792.5	193792.5	193792.5	193792.5	193792.5	193792.5	193792.5	193792.5	193792.5
2.5°	188147.2	188252.2	187863.1	188703.1	188048.4	189802.5	188931.6	190290.4	189833.4	190593.1
5°	175300.2	175127.2	175016.1	176319.3	175942.5	177826.3	176621.9	176226.6	177449.6	177227.2
7.5°	155899.9	156357.0	156097.6	156437.3	156628.7	158778.2	159457.6	158926.4	158944.9	159253.7
10°	136011.7	135338.5	134381.2	135017.3	136363.8	137302.6	136925.9	137704.1	137531.1	138266.1
12.5°	111540.6	112071.8	111534.4	110966.2	113319.4	113060.0	113714.7	114140.9	113072.4	115450.3
15°	84018.3	84296.3	84951.0	84907.7	86717.4	87081.9	86995.4	87446.3	86612.4	87007.7
17.5°	53976.0	54914.9	56675.2	59652.2	62999.9	63389.0	63290.1	62919.6	62518.1	62073.4
20°	36255.8	36157.0	36793.1	37664.0	44594.0	46428.4	46372.8	45211.7	43531.7	43210.5
22.5°	25397.6	25582.9	25496.4	26361.1	27794.1	32852.6	32228.7	31049.0	30499.3	30141.1
25°	16707.3	16639.4	17071.7	17331.1	18560.2	19177.9	21364.4	20925.8	20079.7	20172.3
27.5°	10185.0	10271.4	10432.0	10654.4	11525.3	11327.6	12575.3	12742.0	12470.3	12180.0
30°	6250.6	6312.3	6442.0	6602.6	6905.3	6689.1	7035.0	7634.1	7535.3	7331.5
32.5°	4243.2	4249.4	4342.0	4403.8	4366.8	4162.9	4274.1	4842.3	4854.7	4836.2
35°	3051.2	3051.2	3137.6	3187.1	3082.1	2915.3	2933.8	3285.9	3440.3	3471.2
37.5°	2106.2	2112.3	2260.6	2408.8	2291.5	2248.2	2174.1	2408.8	2655.9	2692.9
40°	1599.7	1593.5	1667.6	1778.8	1791.2	1710.9	1735.6	1883.8	2137.1	2167.9
42.5°	1297.1	1303.2	1340.3	1327.9	1334.1	1439.1	1476.2	1544.1	1778.8	1834.4
45°	1093.2	1099.4	1117.9	1056.2	1031.5	1192.1	1241.5	1278.5	1476.2	1544.1
47.5°	901.8	914.1	932.6	864.7	852.4	957.4	1043.8	1080.9	1253.8	1327.9
50°	648.5	660.9	728.8	691.8	728.8	753.5	870.9	926.5	1043.8	1142.6
52.5°	469.4	481.8	500.3	506.5	599.1	611.5	697.9	784.4	840.0	951.2
55°	370.6	382.9	370.6	358.2	438.5	506.5	537.4	630.0	673.2	802.9
57.5°	210.0	222.4	240.9	277.9	290.3	389.1	420.0	500.3	537.4	660.9
60°	37.1	43.2	67.9	166.8	203.8	247.1	315.0	382.9	432.4	518.8
62.5°	6.2	6.2	12.4	37.1	117.4	172.9	228.5	271.8	315.0	395.3
65°	0.0	0.0	6.2	12.4	30.9	98.8	123.5	160.6	216.2	284.1
67.5°	0.0	0.0	6.2	12.4	18.5	37.1	55.6	98.8	123.5	191.5
70°	0.0	0.0	6.2	12.4	18.5	24.7	30.9	43.2	74.1	117.4
72.5°	0.0	0.0	6.2	12.4	18.5	24.7	30.9	37.1	37.1	74.1
75°	0.0	0.0	6.2	12.4	18.5	30.9	37.1	37.1	30.9	30.9
77.5°	0.0	0.0	6.2	12.4	24.7	37.1	43.2	37.1	24.7	24.7
80°	0.0	0.0	12.4	18.5	30.9	43.2	55.6	43.2	24.7	12.4
82.5°	0.0	0.0	12.4	24.7	30.9	49.4	67.9	55.6	24.7	12.4
85°	0.0	0.0	6.2	18.5	37.1	49.4	67.9	49.4	24.7	6.2
87.5°	0.0	0.0	6.2	6.2	12.4	18.5	37.1	30.9	12.4	6.2
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°
<b>193792.5</b>	0°	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>	<b>193792.5</b>
189154.0	2.5°	190241.0	191229.3	191433.1	191161.3	191556.6	190846.3	190302.8	188894.6	188048.4
177159.3	5°	178301.9	178153.7	179185.2	179524.9	179481.6	178938.1	178178.4	177326.0	176498.4
158654.6	7.5°	159642.9	159834.3	160773.1	161372.3	161069.6	160390.2	159865.2	159222.9	158667.0
138531.7	10°	139797.9	138482.3	139649.7	139649.7	140458.8	138537.9	138717.0	137098.8	137172.9
115407.1	12.5°	115802.4	116278.0	116469.4	117019.1	116074.1	115055.0	113807.4	113560.3	112788.3
86254.2	15°	87495.7	88854.5	87687.1	89682.1	88718.6	87656.3	87464.8	85550.1	86155.4
62561.3	17.5°	62252.5	63753.4	64222.8	65365.4	64488.4	63858.4	63061.6	62481.0	62437.8
43797.2	20°	44143.1	45650.2	45996.1	47367.2	47268.4	47070.8	46397.5	45662.5	44865.8
29813.8	22.5°	30264.6	31493.7	32642.6	34489.3	34458.4	33877.9	33809.9	32772.3	32790.8
20141.4	25°	20351.4	21247.0	21518.8	23408.8	23618.8	23557.0	23204.9	22241.4	22605.8
12303.5	27.5°	12315.9	13100.3	14020.6	14687.6	15317.6	15218.8	14866.7	14329.4	14094.7
7393.2	30°	7590.9	7942.9	8282.6	9085.6	9462.3	9660.0	9493.2	8992.9	9030.0
4867.0	32.5°	4972.0	5268.5	5515.6	6022.0	6219.7	6584.1	6516.2	6411.2	6287.6
3502.1	35°	3625.6	3841.8	4008.5	4243.2	4496.5	4805.3	4854.7	4811.5	4762.0
2705.3	37.5°	2767.1	2989.4	3180.9	3279.7	3477.3	3718.2	3854.1	3847.9	3810.9
2205.0	40°	2248.2	2415.0	2587.9	2717.6	2853.5	3032.6	3199.4	3217.9	3217.9
1852.9	42.5°	1877.6	2019.7	2192.6	2328.5	2427.3	2594.1	2767.1	2779.4	2767.1
1568.8	45°	1605.9	1729.4	1896.2	2056.8	2137.1	2260.6	2427.3	2464.4	2439.7
1346.5	47.5°	1395.9	1507.1	1649.1	1822.1	1908.5	2019.7	2174.1	2217.3	2211.2
1161.2	50°	1198.2	1327.9	1470.0	1612.1	1723.2	1828.2	1976.5	2025.9	2007.3
988.2	52.5°	1056.2	1173.5	1297.1	1451.5	1581.2	1673.8	1791.2	1877.6	1852.9
833.8	55°	883.2	1025.3	1155.0	1284.7	1445.3	1544.1	1655.3	1760.3	1735.6
704.1	57.5°	765.9	883.2	1031.5	1148.8	1309.4	1426.8	1537.9	1649.1	1642.9
574.4	60°	642.4	765.9	907.9	1031.5	1179.7	1309.4	1420.6	1544.1	1556.5
432.4	62.5°	506.5	654.7	778.2	920.3	1068.5	1210.6	1309.4	1432.9	1451.5
327.4	65°	382.9	537.4	673.2	809.1	957.4	1111.8	1198.2	1303.2	1321.8
240.9	67.5°	284.1	413.8	574.4	697.9	852.4	1000.6	1080.9	1167.4	1198.2
148.2	70°	216.2	315.0	481.8	599.1	759.7	877.1	963.5	1037.6	1062.4
98.8	72.5°	135.9	247.1	389.1	512.6	654.7	759.7	821.5	864.7	901.8
55.6	75°	92.6	191.5	315.0	438.5	543.5	623.8	679.4	716.5	747.4
24.7	77.5°	55.6	148.2	259.4	364.4	432.4	494.1	549.7	574.4	592.9
18.5	80°	30.9	111.2	216.2	296.5	339.7	382.9	426.2	457.1	469.4
12.4	82.5°	18.5	86.5	172.9	228.5	247.1	290.3	333.5	352.1	352.1
6.2	85°	12.4	61.8	117.4	166.8	179.1	210.0	222.4	234.7	247.1
6.2	87.5°	12.4	37.1	74.1	92.6	98.8	111.2	117.4	129.7	142.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
193792.5  
187424.6  
175571.9  
156783.2  
136450.3  
112084.1  
85550.1  
61289.0  
44519.9  
32432.6  
22031.4  
13890.8  
8869.4  
6244.4  
4743.5  
3792.3  
3180.9  
2754.7  
2439.7  
2198.8  
1995.0  
1846.8  
1747.9  
1649.1  
1562.6  
1463.8  
1340.3  
1210.6  
1074.7  
895.6  
741.2  
586.8  
457.1  
345.9  
240.9  
135.9  
0.0

(END OF REPORT)