

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: P638684

Luminaire Tested: **EPH-VN-03-E-740-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638684  
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-740-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25337.2 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

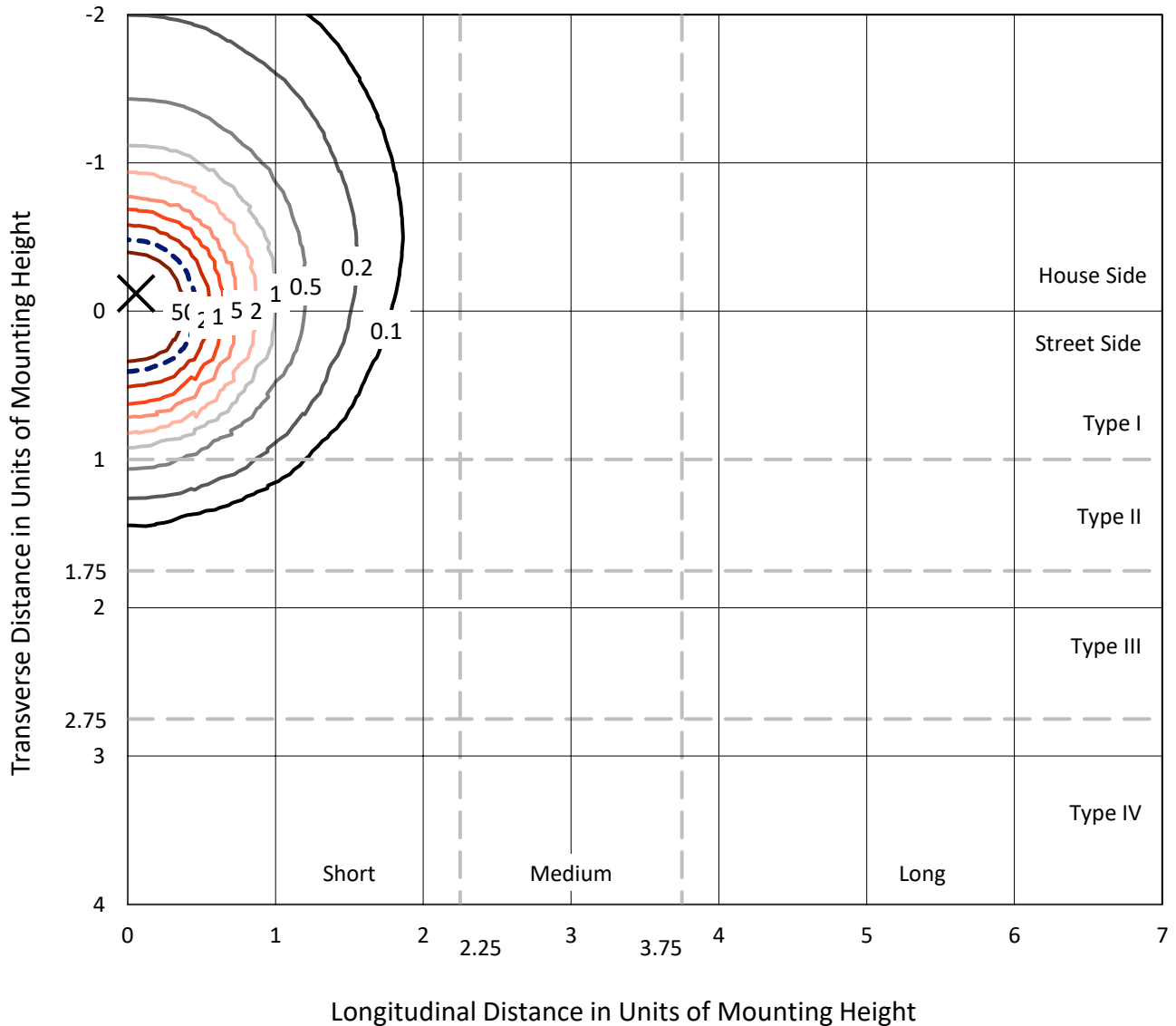
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

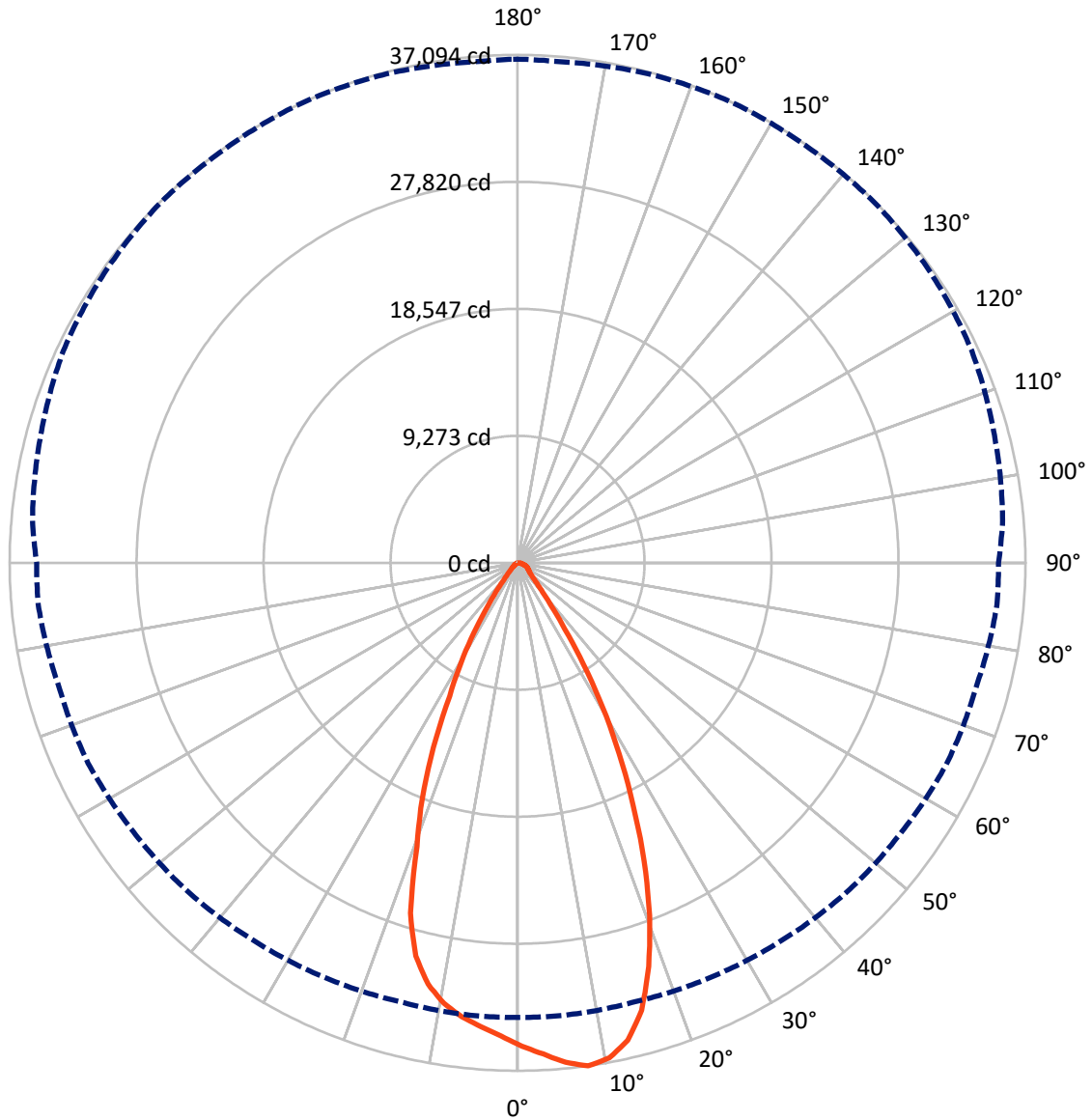
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 89.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral    - - - Horizontal Cone Through 7.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13987.0	0.0	13987.0
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	11350.1	0.0	11350.1
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	25337.2	0.0	25337.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3365.8	13.3
10°-20°	8727.4	34.4
20°-30°	7996.8	31.6
30°-40°	3230.7	12.8
40°-50°	947.7	3.7
50°-60°	529.9	2.1
60°-70°	321.9	1.3
70°-80°	163.5	0.6
80°-90°	53.5	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°	25337.2	100.0
0°-180°	25337.2	100.0

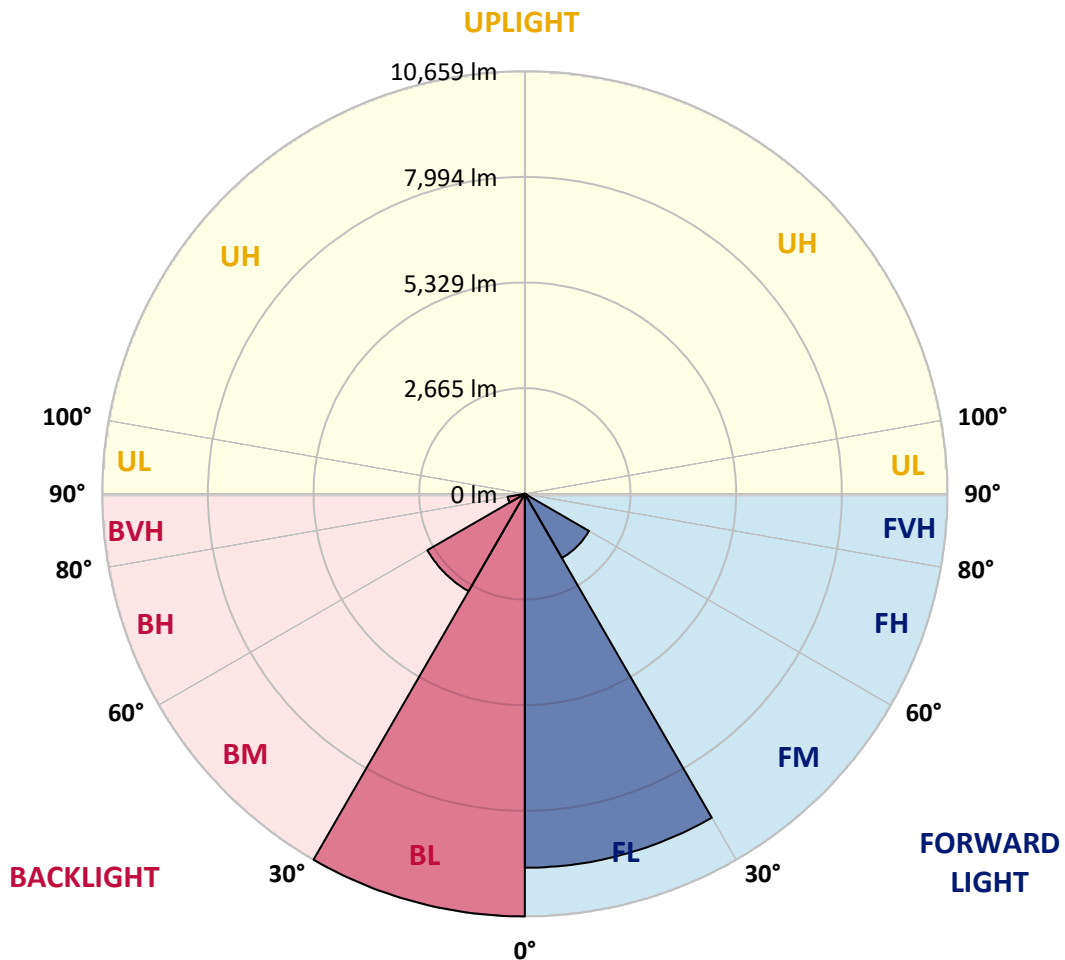


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9431.1	37.2			
FM (30°-60°)	1869.1	7.4			
FH (60°-80°)	45.3	0.2			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	10658.8	42.1	B5		
BM (30°-60°)	2839.2	11.2	B3/5000		
BH (60°-80°)	440.1	1.7	B1/500		G1/500
BVH (80°-90°)	48.8	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7
2.5°	34531.2	34648.1	34414.3	34569.2	34689.0	34975.3	34998.7	35098.0	35133.0	35393.1
5°	33876.7	33967.3	33777.4	33984.8	34154.3	34408.5	34604.2	34878.9	35030.8	35337.6
7.5°	33196.0	33216.4	33178.5	33397.6	33651.8	34002.4	34244.9	34604.2	34697.7	35136.0
10°	32372.1	32223.1	32296.1	32617.5	32997.3	33534.9	33701.4	34060.8	34227.3	34674.3
12.5°	31057.3	31133.3	31042.7	31451.7	31767.3	32377.9	32553.2	32915.5	33234.0	33628.4
15°	29205.0	29161.2	29345.2	29663.7	30005.5	30490.5	30773.9	31168.3	31410.8	31819.9
17.5°	25041.6	25190.6	25950.2	26747.9	27449.1	28015.9	28354.8	28682.0	28857.3	29301.4
20°	21626.2	21439.2	21541.5	21991.4	23986.9	24854.6	25211.1	25290.0	25363.0	25713.6
22.5°	17807.6	17746.2	18088.0	18593.5	19066.8	21068.1	21553.1	21369.1	21521.0	21851.1
25°	13223.5	13533.2	13837.0	14807.0	15420.6	16402.2	17322.6	17404.4	17459.9	17667.3
27.5°	10763.4	10655.3	10649.5	10921.2	11826.9	12645.0	13428.0	13609.1	13577.0	13775.7
30°	8461.1	8426.1	8303.4	8367.7	8277.1	9004.6	9372.7	10117.7	10076.8	10082.7
32.5°	6103.4	5971.9	5922.2	6018.6	5925.1	5857.9	6179.3	7020.8	7006.2	7064.6
35°	3693.0	3675.5	3716.4	3801.1	3614.1	3608.3	3675.5	4467.2	4563.6	4657.1
37.5°	2039.3	2021.8	2053.9	2366.6	2305.2	2249.7	2267.2	2685.0	2962.6	3032.7
40°	1344.0	1341.0	1364.4	1419.9	1525.1	1504.7	1513.4	1700.4	1963.4	2024.7
42.5°	899.9	902.8	917.4	981.7	996.3	1101.5	1083.9	1127.8	1373.2	1425.8
45°	718.7	715.8	724.6	695.4	712.9	821.0	832.7	835.6	1046.0	1078.1
47.5°	566.8	566.8	575.6	537.6	528.8	596.0	657.4	666.1	835.6	879.4
50°	397.3	397.3	441.2	423.6	444.1	464.5	531.7	540.5	683.7	730.4
52.5°	292.2	298.0	303.9	306.8	374.0	371.1	429.5	470.4	517.1	598.9
55°	222.0	227.9	213.3	227.9	277.6	309.7	321.4	379.8	412.0	502.5
57.5°	146.1	160.7	149.0	175.3	187.0	239.6	257.1	312.6	333.1	412.0
60°	20.5	23.4	38.0	122.7	131.5	157.8	198.7	248.3	268.8	336.0
62.5°	2.9	2.9	8.8	20.5	87.7	105.2	149.0	172.4	198.7	251.3
65°	0.0	0.0	2.9	5.8	17.5	61.4	76.0	93.5	137.3	181.1
67.5°	0.0	0.0	2.9	5.8	8.8	20.5	32.1	61.4	78.9	125.6
70°	0.0	0.0	2.9	5.8	8.8	11.7	17.5	23.4	46.7	73.0
72.5°	0.0	0.0	2.9	5.8	8.8	11.7	14.6	17.5	20.5	46.7
75°	0.0	0.0	2.9	5.8	8.8	14.6	17.5	17.5	17.5	20.5
77.5°	0.0	0.0	2.9	5.8	11.7	17.5	20.5	17.5	14.6	14.6
80°	0.0	0.0	2.9	8.8	14.6	20.5	23.4	17.5	11.7	8.8
82.5°	0.0	0.0	2.9	8.8	14.6	20.5	23.4	20.5	11.7	8.8
85°	0.0	0.0	2.9	8.8	11.7	14.6	23.4	20.5	11.7	5.8
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	11.7	8.8	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°
35296.7	0°	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7	35296.7
35387.2	2.5°	35650.2	35781.7	36012.5	36076.7	36275.4	36047.5	35921.9	35933.6	35661.9
35299.6	5°	35650.2	35951.1	36354.3	36547.1	36693.2	36681.5	36649.4	36567.6	36368.9
35124.3	7.5°	35556.7	36047.5	36602.6	36859.8	37035.1	37020.4	37093.5	36962.0	36719.5
34811.7	10°	35255.8	35682.3	36366.0	36576.4	36859.8	36865.6	36775.0	36801.3	36368.9
33669.3	12.5°	34309.1	34642.2	35241.1	35480.7	35825.5	35881.0	35781.7	35743.7	35334.6
31796.5	15°	32477.3	32670.1	33271.9	33511.5	33853.4	33806.6	33905.9	33865.0	33505.7
29266.3	17.5°	29798.1	29859.4	30490.5	30692.1	31013.5	31139.1	30990.1	31180.0	30870.3
25774.9	20°	25956.1	26286.2	26996.2	27305.9	27492.9	27717.9	27522.1	27735.4	27373.1
21538.5	22.5°	22058.6	22254.3	22897.1	23344.1	23691.8	23735.6	23662.6	23811.6	23323.7
17804.6	25°	17801.7	18126.0	18634.4	19218.7	19560.6	19770.9	19581.0	19677.4	19598.5
13807.8	27.5°	14041.5	14330.8	14713.5	15148.8	15663.1	15937.7	15785.8	15949.4	15563.7
10296.0	30°	10304.7	10450.8	10883.2	11344.8	11908.7	12241.8	12256.4	12422.9	12195.0
7213.6	32.5°	7266.2	7394.7	7660.6	7967.4	8505.0	8876.0	8817.6	8841.0	8700.7
4701.0	35°	4724.3	4896.7	5086.6	5232.7	5557.0	5966.0	5933.9	5904.7	5808.3
3091.1	37.5°	3158.3	3225.5	3330.7	3462.2	3672.5	3929.6	4014.4	3909.2	3868.3
2086.1	40°	2135.7	2252.6	2322.7	2422.1	2521.4	2737.6	2796.0	2775.6	2734.7
1460.8	42.5°	1516.3	1606.9	1694.6	1791.0	1843.6	1978.0	2091.9	2059.8	2042.2
1110.2	45°	1151.1	1232.9	1335.2	1408.2	1460.8	1539.7	1647.8	1659.5	1633.2
891.1	47.5°	923.2	996.3	1078.1	1168.7	1230.0	1279.7	1373.2	1408.2	1390.7
750.9	50°	783.0	838.5	917.4	1008.0	1075.2	1119.0	1200.8	1238.8	1227.1
628.2	52.5°	666.1	733.3	806.4	882.3	964.2	1008.0	1083.9	1139.5	1130.7
520.1	55°	552.2	639.8	715.8	791.8	885.3	929.1	996.3	1069.3	1054.7
441.2	57.5°	482.1	555.1	634.0	707.0	806.4	864.8	926.2	1002.1	999.2
362.3	60°	403.2	476.2	563.9	625.2	730.4	812.2	867.7	946.6	952.5
274.6	62.5°	321.4	412.0	479.2	563.9	660.3	756.7	809.3	888.2	917.4
210.4	65°	239.6	338.9	414.9	499.6	590.2	698.3	745.0	823.9	853.1
151.9	67.5°	178.2	254.2	350.6	423.6	525.9	619.4	674.9	747.9	768.4
90.6	70°	134.4	195.8	292.2	356.4	461.6	537.6	593.1	648.6	674.9
61.4	72.5°	78.9	146.1	230.8	306.8	397.3	461.6	502.5	546.4	563.9
29.2	75°	55.5	111.0	181.1	254.2	321.4	374.0	412.0	449.9	467.5
14.6	77.5°	29.2	81.8	143.2	204.5	251.3	295.1	333.1	362.3	374.0
11.7	80°	17.5	58.4	116.9	160.7	192.8	230.8	268.8	289.2	286.3
8.8	82.5°	11.7	46.7	84.7	116.9	140.2	169.5	195.8	210.4	210.4
5.8	85°	8.8	32.1	58.4	90.6	93.5	116.9	122.7	137.3	140.2
5.8	87.5°	5.8	20.5	32.1	52.6	49.7	61.4	64.3	73.0	78.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
35296.7  
35442.7  
36433.2  
36775.0  
36243.3  
35241.1  
33619.6  
30794.4  
27343.9  
23256.5  
19548.9  
15663.1  
12235.9  
8779.6  
5723.5  
3859.5  
2740.5  
2027.6  
1630.3  
1381.9  
1224.2  
1124.8  
1054.7  
996.3  
952.5  
914.5  
850.2  
768.4  
669.1  
558.0  
461.6  
371.1  
283.4  
207.4  
137.3  
76.0  
0.0

(END OF REPORT)