

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: P638827

Luminaire Tested: **EPH-VN-08-E-940-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638827  
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-940-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (128) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38054.1 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

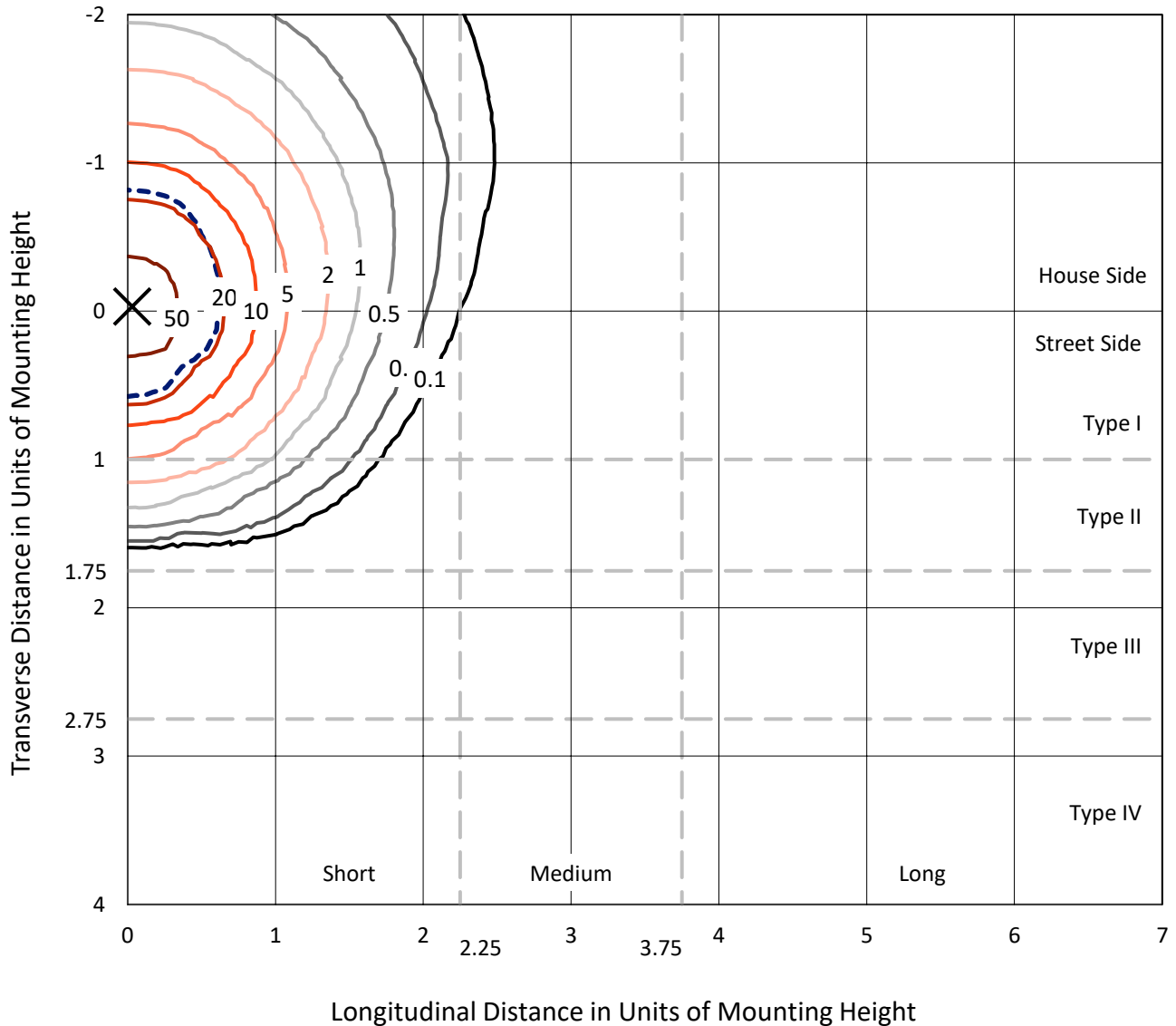
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

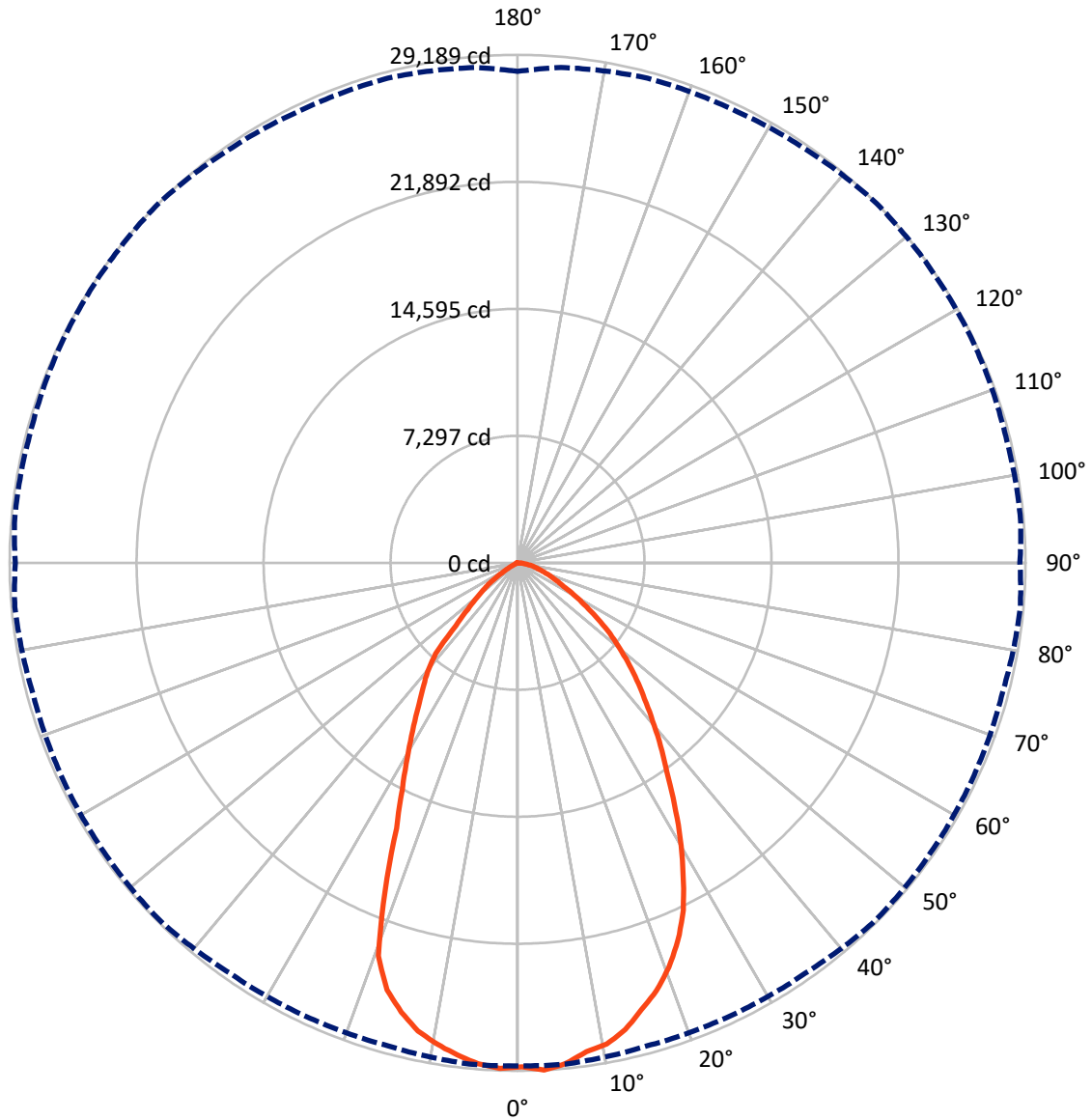
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 72.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22537.6	0.0	22537.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	15516.5	0.0	15516.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	38054.1	0.0	38054.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2715.9	7.1
10°-20°	7282.8	19.1
20°-30°	8881.8	23.3
30°-40°	8109.0	21.3
40°-50°	5860.2	15.4
50°-60°	3199.7	8.4
60°-70°	1323.0	3.5
70°-80°	535.8	1.4
80°-90°	145.8	0.4
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°	38054.1	100.0
0°-180°	38054.1	100.0

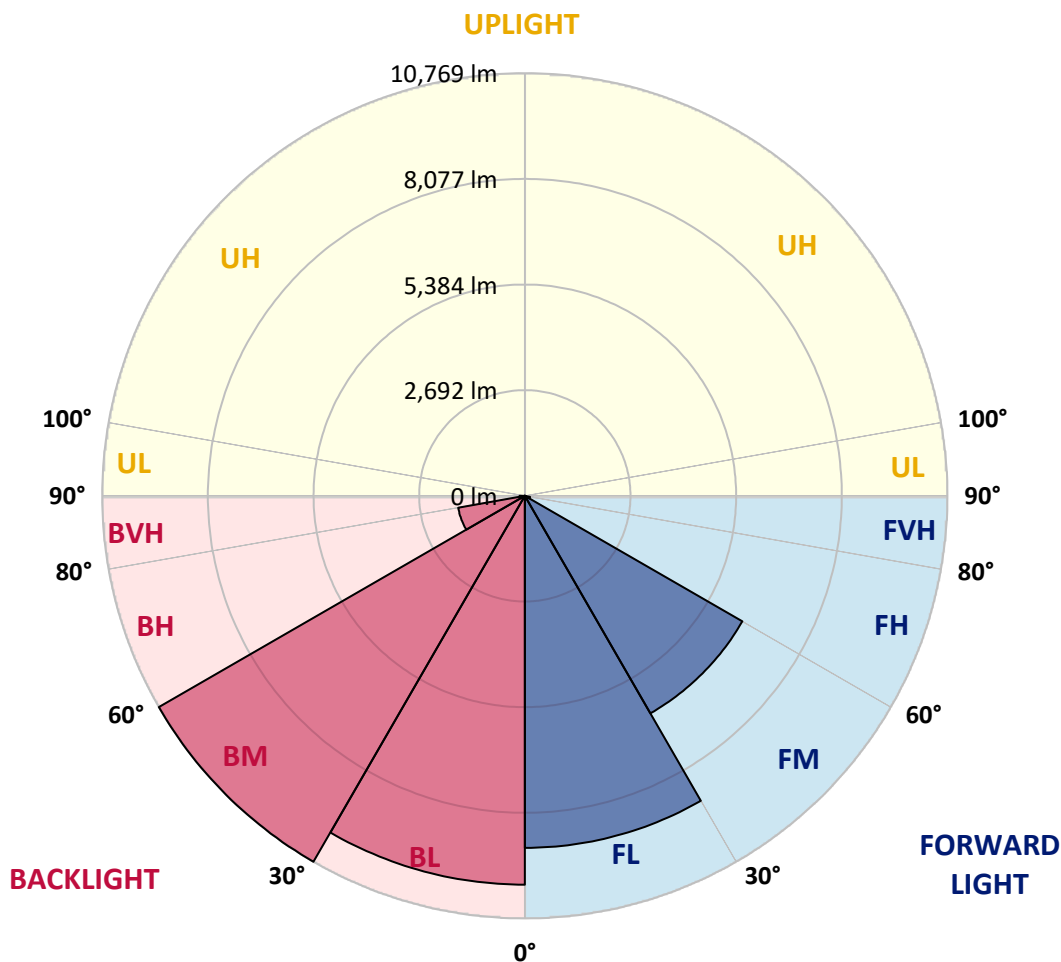


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8970.7	23.6			
FM (30°-60°)	6400.0	16.8			
FH (60°-80°)	134.1	0.4			G0/660
FVH (80°-90°)	11.7	0.0			G1/100
BL (0°-30°)	9909.8	26.0	B5		
BM (30°-60°)	10769.0	28.3	B5		
BH (60°-80°)	1724.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	134.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0
2.5°	28905.4	28942.9	28739.3	28760.7	28798.3	29071.6	29001.9	28937.6	28846.5	29001.9
5°	28867.9	28889.4	28675.0	28600.0	28632.1	28878.6	28653.6	28653.6	28632.1	28605.3
7.5°	28578.5	28589.3	28423.1	28289.2	28374.9	28487.4	28321.3	28401.7	28283.8	28374.9
10°	28144.5	28074.8	27876.5	27839.0	27935.5	28042.7	27930.1	28005.1	27898.0	27967.6
12.5°	27506.8	27399.6	27238.8	27190.6	27356.7	27501.4	27410.3	27367.4	27228.1	27399.6
15°	25047.1	24966.7	25331.1	25968.8	26542.2	26665.4	26569.0	26611.9	26322.5	26370.7
17.5°	20615.3	20465.3	20856.5	22367.7	24521.9	25658.0	25572.2	25293.6	24864.9	24961.3
20°	18734.4	18691.5	18648.7	19007.7	20513.5	23959.2	24077.1	23369.8	22758.9	22624.9
22.5°	17673.4	17657.3	17614.4	17694.8	18091.3	20304.5	21655.0	21001.2	20593.9	20556.4
25°	16703.4	16676.6	16548.0	16649.8	16649.8	16778.4	18509.3	18905.9	18546.8	18504.0
27.5°	15717.4	15669.2	15647.7	15696.0	15449.5	14581.3	15020.7	16955.3	16767.7	16778.4
30°	14651.0	14634.9	14576.0	14677.8	13916.8	12839.7	12561.1	15186.9	15224.4	15213.7
32.5°	13064.8	13134.4	13402.4	13514.9	12261.0	11371.4	10905.2	13139.8	13906.1	13890.0
35°	9490.5	9490.5	10363.9	11987.7	10744.4	10074.6	9822.7	11141.0	12603.9	12657.5
37.5°	7802.4	7829.2	8000.7	8740.2	9270.7	9035.0	8959.9	9377.9	10932.0	11017.7
40°	7020.0	7020.0	7020.0	6714.6	6698.5	8140.0	8097.2	7963.2	9442.2	9629.8
42.5°	6307.3	6323.4	6334.1	5562.4	5133.7	7036.1	6939.7	6736.0	8107.9	8327.6
45°	5573.2	5600.0	5632.1	4651.4	4463.9	5064.1	5873.3	5648.2	6789.6	7073.6
47.5°	3402.8	3445.7	4174.5	3944.1	3965.5	3906.6	4790.8	4753.3	5567.8	5969.7
50°	2298.9	2315.0	2384.7	2502.6	3402.8	3070.6	3392.1	3933.4	4228.1	4839.0
52.5°	1929.2	1956.0	1784.5	1623.7	2234.6	2400.7	2368.6	2920.6	3038.4	3794.0
55°	1355.8	1441.5	1361.1	1345.1	1270.0	1864.9	1795.2	2245.3	2320.4	2883.0
57.5°	139.3	160.8	278.7	1002.1	830.6	1055.7	1280.8	1645.2	1720.2	2127.4
60°	10.7	10.7	26.8	139.3	605.5	632.3	884.2	1012.8	1157.5	1484.4
62.5°	0.0	5.4	10.7	21.4	96.5	337.6	444.8	530.5	696.6	959.2
65°	0.0	0.0	5.4	16.1	21.4	128.6	171.5	278.7	380.5	594.8
67.5°	0.0	0.0	5.4	10.7	16.1	32.2	58.9	101.8	203.6	337.6
70°	0.0	0.0	5.4	10.7	16.1	26.8	42.9	64.3	91.1	182.2
72.5°	0.0	0.0	5.4	5.4	10.7	26.8	32.2	42.9	64.3	91.1
75°	0.0	0.0	5.4	5.4	16.1	32.2	26.8	32.2	42.9	58.9
77.5°	0.0	0.0	5.4	10.7	16.1	32.2	26.8	32.2	32.2	37.5
80°	0.0	0.0	5.4	10.7	21.4	37.5	32.2	32.2	26.8	26.8
82.5°	0.0	0.0	5.4	16.1	21.4	48.2	48.2	42.9	21.4	16.1
85°	0.0	0.0	10.7	21.4	32.2	53.6	53.6	42.9	16.1	10.7
87.5°	0.0	0.0	10.7	16.1	26.8	37.5	53.6	42.9	16.1	5.4
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°
28959.0	0°	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0	28959.0
28867.9	2.5°	29012.6	28980.5	29087.6	29130.5	29189.4	28964.4	28825.0	28830.4	28573.2
28541.0	5°	28712.5	28717.9	28857.2	28846.5	28905.4	28782.2	28728.6	28637.5	28412.4
28128.4	7.5°	28332.0	28283.8	28417.8	28519.6	28369.5	28455.3	28332.0	28374.9	28240.9
27764.0	10°	28037.3	27924.8	28048.0	28117.7	28123.0	28037.3	27919.4	27806.9	27758.6
27196.0	12.5°	27383.5	27238.8	27447.8	27544.3	27528.2	27362.1	27228.1	27254.9	27099.5
26199.2	15°	26483.2	26488.6	26638.7	26729.8	26644.0	26606.5	26617.2	26552.9	26418.9
24822.0	17.5°	25106.0	25186.4	25583.0	25802.7	25850.9	25775.9	25738.4	25663.3	25529.4
22624.9	20°	22812.5	23294.8	24002.1	24682.7	24816.7	24795.2	24661.2	24629.1	24554.1
20449.2	22.5°	20797.5	21156.6	21976.5	23037.5	23584.1	23637.7	23477.0	23428.7	23348.3
18504.0	25°	18713.0	19098.8	19838.3	20990.5	22121.2	22351.6	22324.8	22180.1	22094.4
16778.4	27.5°	16955.3	17341.1	18011.0	19050.6	20261.7	21001.2	21070.8	20840.4	20835.1
15240.5	30°	15369.1	15899.6	16408.7	17255.4	18429.0	19538.2	19656.1	19495.4	19511.4
13831.1	32.5°	14125.8	14565.2	14999.3	15567.3	16542.7	17834.1	18295.0	18144.9	18086.0
12657.5	35°	12855.8	13155.9	13600.7	14120.5	14785.0	16065.7	16864.2	16751.6	16692.7
11071.3	37.5°	11408.9	11923.4	12244.9	12829.0	13348.8	14367.0	15492.3	15476.2	15353.0
9720.9	40°	9924.5	10465.8	10953.4	11542.9	11944.8	12754.0	14002.6	13997.2	14013.3
8322.2	42.5°	8579.5	9077.8	9667.3	10310.4	10696.2	11285.7	12625.4	12700.4	12791.5
7170.1	45°	7363.0	7813.1	8359.7	9142.1	9608.3	9946.0	11135.6	11478.6	11473.2
6141.2	47.5°	6269.8	6693.2	7154.0	7915.0	8509.8	8815.2	9801.3	10288.9	10256.8
5037.3	50°	5262.4	5637.5	6119.8	6671.7	7470.2	7738.1	8472.3	9115.3	9067.1
4013.7	52.5°	4233.5	4753.3	5160.5	5664.3	6505.6	6768.2	7336.2	7963.2	7925.7
3011.7	55°	3301.0	3804.8	4297.8	4731.8	5439.2	5830.4	6237.7	6880.7	6870.0
2357.9	57.5°	2497.2	3049.2	3515.4	3928.0	4490.7	4973.0	5299.9	5884.0	5959.0
1613.0	60°	1848.8	2272.1	2775.9	3236.7	3681.5	4179.9	4399.6	4973.0	5005.1
1103.9	62.5°	1259.3	1725.5	2218.5	2636.5	2968.8	3483.2	3681.5	4153.1	4212.0
707.4	65°	873.5	1173.6	1736.3	2036.3	2443.6	2883.0	3081.3	3456.4	3574.3
407.3	67.5°	578.8	836.0	1355.8	1629.1	2031.0	2331.1	2582.9	2888.4	3017.0
257.2	70°	316.2	616.3	969.9	1286.1	1634.4	1923.8	2170.3	2416.8	2529.4
117.9	72.5°	214.4	412.6	675.2	1018.2	1318.3	1602.3	1822.0	2004.2	2009.6
69.7	75°	107.2	278.7	514.4	787.7	1028.9	1307.5	1505.8	1613.0	1484.4
42.9	77.5°	64.3	203.6	418.0	632.3	836.0	1055.7	1168.2	1227.2	1018.2
32.2	80°	37.5	144.7	326.9	503.7	578.8	777.0	884.2	900.3	680.6
21.4	82.5°	26.8	107.2	257.2	369.8	353.7	546.6	664.5	643.1	434.1
16.1	85°	16.1	75.0	160.8	230.4	214.4	359.0	385.8	396.6	251.9
10.7	87.5°	10.7	42.9	85.7	123.3	101.8	155.4	155.4	187.6	123.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
28959.0  
*28240.9*  
28358.8  
28015.9  
27544.3  
26965.5  
26285.0  
25470.4  
24382.6  
23326.9  
22003.3  
20824.3  
19431.1  
18091.3  
16612.3  
15454.8  
14013.3  
12743.3  
11483.9  
10267.5  
9110.0  
8006.1  
6896.8  
5926.8  
5053.4  
4222.7  
3547.5  
3000.9  
2486.5  
1961.3  
1387.9  
980.7  
637.7  
401.9  
230.4  
107.2  
0.0

(END OF REPORT)