

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: P638855

Luminaire Tested: **EPH-VN-07-E-750-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638855  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-750-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42559.6 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

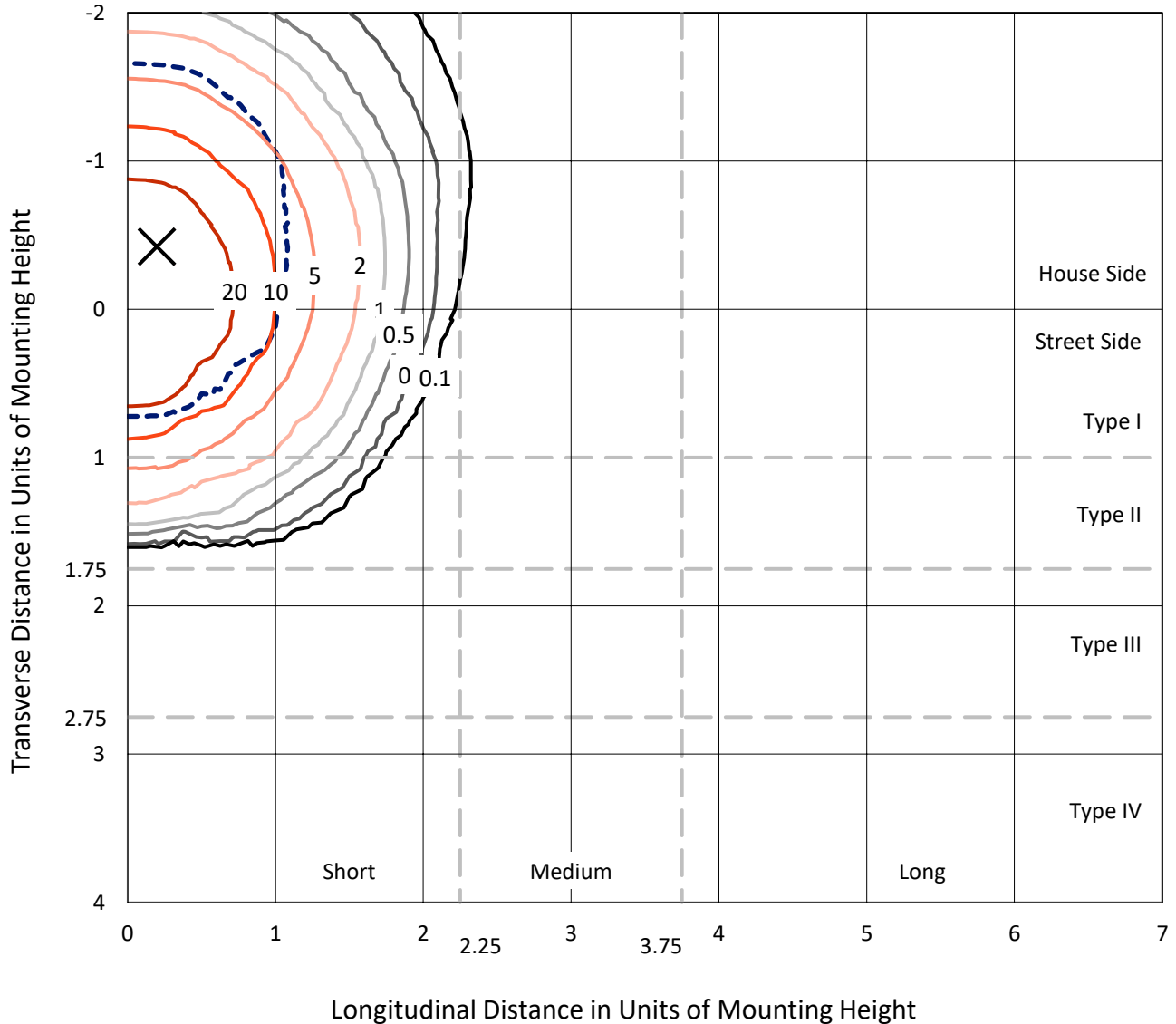
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

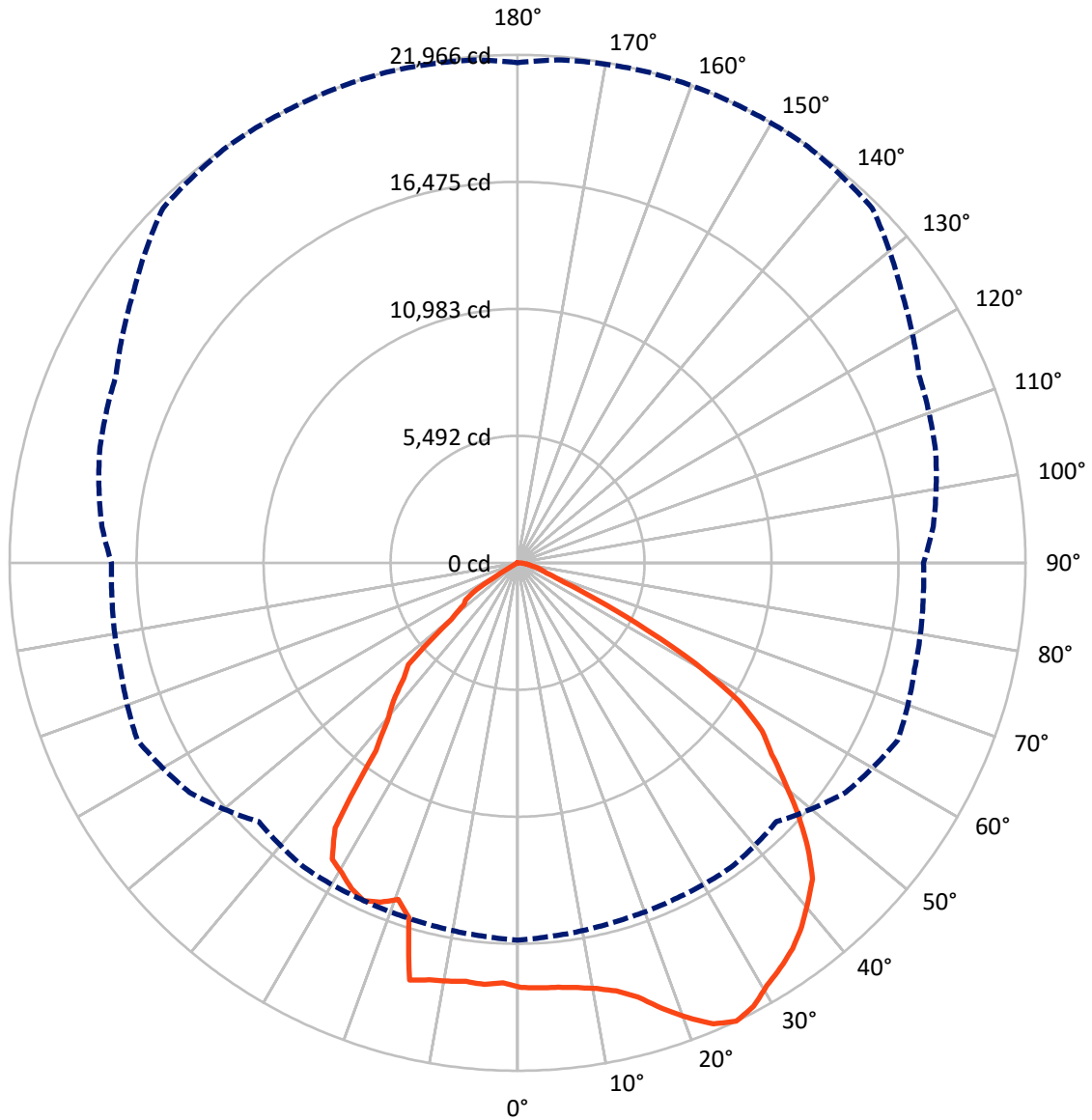
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26348.7	0.0	26348.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	16210.8	0.0	16210.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	42559.6	0.0	42559.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1761.8	4.1
10°-20°	5379.4	12.6
20°-30°	8504.6	20.0
30°-40°	9606.7	22.6
40°-50°	8996.8	21.1
50°-60°	6202.7	14.6
60°-70°	1666.5	3.9
70°-80°	347.3	0.8
80°-90°	93.9	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°	42559.6	100.0
0°-180°	42559.6	100.0

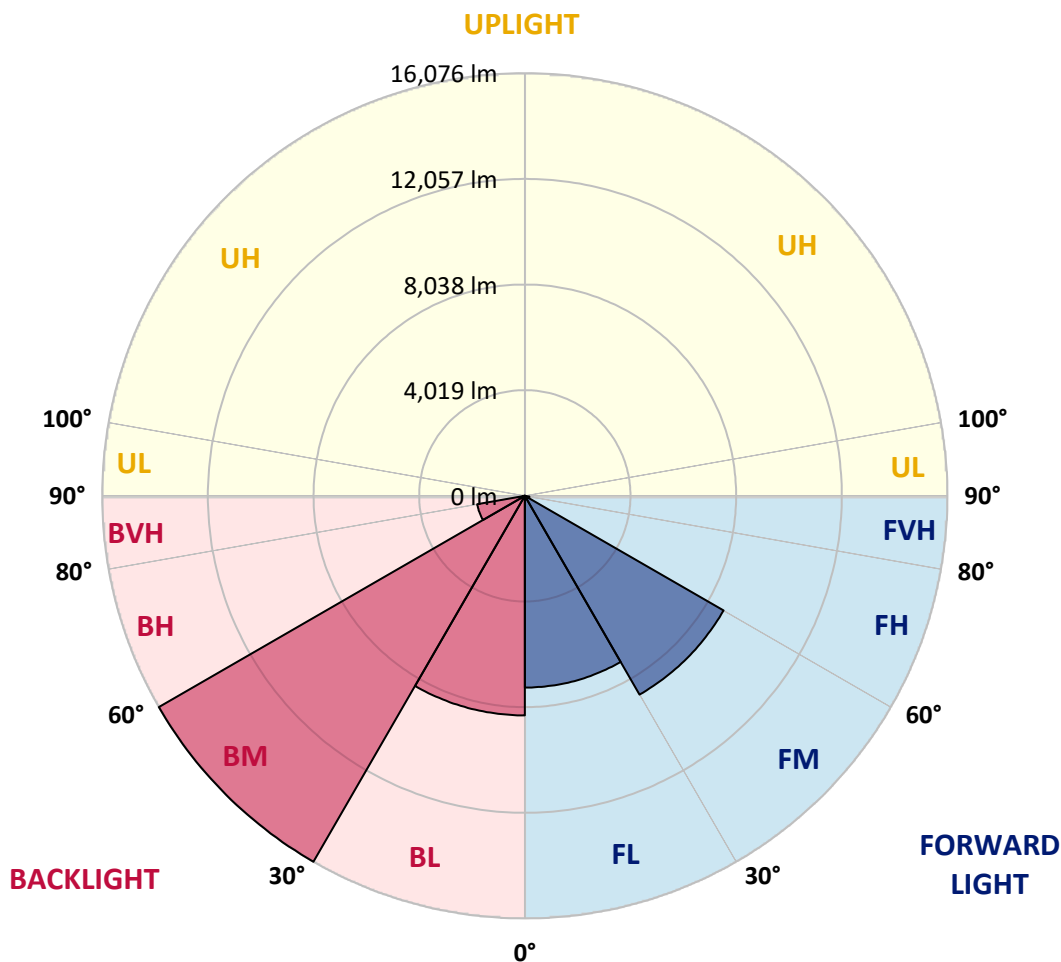


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7293.4	17.1			
FM (30°-60°)	8729.9	20.5			
FH (60°-80°)	175.0	0.4			G0/660
FVH (80°-90°)	12.6	0.0			G1/100
BL (0°-30°)	8352.4	19.6	B5		
BM (30°-60°)	16076.2	37.8	B5		
BH (60°-80°)	1838.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	81.3	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-G3**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7
2.5°	18445.0	18326.2	18213.6	18176.1	18332.4	18501.3	18395.0	18401.2	18363.7	18432.5
5°	18582.6	18420.0	18344.9	18288.6	18313.7	18488.8	18338.7	18395.0	18332.4	18413.7
7.5°	18532.6	18420.0	18344.9	18238.6	18319.9	18526.3	18382.5	18388.7	18357.4	18432.5
10°	18501.3	18420.0	18326.2	18338.7	18432.5	18607.6	18495.0	18557.6	18513.8	18557.6
12.5°	18576.4	18488.8	18438.8	18438.8	18520.1	18720.2	18663.9	18720.2	18701.4	18739.0
15°	17869.6	17950.9	18426.2	18638.9	18801.5	19001.7	18976.7	19032.9	19045.5	19101.7
17.5°	15073.7	14992.4	14954.9	16049.5	18957.9	19577.1	19558.3	19552.1	19489.5	19445.8
20°	15442.8	15411.5	15367.7	15449.0	15774.3	19877.3	20002.4	19233.1	19007.9	18989.2
22.5°	16030.7	15980.7	15818.0	15824.3	15924.4	17281.6	19383.2	18682.7	18607.6	18563.8
25°	16318.4	16218.3	16087.0	16049.5	16080.7	15830.6	17312.9	18144.8	17775.8	17606.9
27.5°	15811.8	15818.0	15711.7	15811.8	15693.0	14567.1	13935.4	17094.0	17081.5	17006.4
30°	15430.3	15411.5	15286.4	15411.5	14592.1	13334.9	13066.0	15943.1	15811.8	15711.7
32.5°	14260.6	14273.1	14635.9	15123.8	13779.0	12784.5	11971.4	14241.9	15486.6	15430.3
35°	10201.4	10226.4	11514.8	13922.9	12546.9	11690.0	11627.4	12309.2	14973.7	14998.7
37.5°	9819.8	9819.8	9788.6	10182.6	11577.4	11245.9	11371.0	11302.2	13716.5	13779.0
40°	9544.6	9488.3	9444.5	8825.3	8049.8	10933.2	11020.7	10708.0	12965.9	12978.4
42.5°	9213.1	9150.6	9163.1	8018.5	7205.4	10157.6	9913.6	9494.6	11715.0	11727.5
45°	8606.4	8712.7	8787.8	7017.7	6955.2	7255.4	9144.3	8881.6	10870.6	11102.0
47.5°	4378.3	4472.1	6861.4	6454.8	6598.7	6448.6	7724.5	7730.8	9044.2	9813.6
50°	3971.7	3946.7	3952.9	3765.3	6092.0	5216.4	5585.4	7086.5	7242.9	8343.7
52.5°	3702.8	3696.5	3315.0	2945.9	3827.9	4590.9	4053.0	5128.8	5385.3	7067.8
55°	2739.5	2939.7	2614.5	2770.8	2395.5	3677.7	3659.0	4628.5	4716.0	5666.7
57.5°	25.0	31.3	75.1	2107.8	1657.5	1838.9	2526.9	3158.6	3315.0	4415.8
60°	6.3	12.5	31.3	62.5	1075.8	1132.1	1688.8	1826.4	2057.8	2633.2
62.5°	0.0	0.0	12.5	31.3	56.3	462.8	537.9	587.9	906.9	1344.8
65°	0.0	0.0	6.3	18.8	31.3	75.1	131.3	275.2	394.0	487.9
67.5°	0.0	0.0	6.3	12.5	25.0	37.5	75.1	106.3	168.9	287.7
70°	0.0	0.0	6.3	12.5	18.8	31.3	50.0	75.1	100.1	143.9
72.5°	0.0	0.0	6.3	12.5	12.5	37.5	37.5	56.3	75.1	93.8
75°	0.0	0.0	6.3	6.3	12.5	25.0	37.5	43.8	50.0	75.1
77.5°	0.0	0.0	6.3	12.5	18.8	25.0	31.3	50.0	43.8	43.8
80°	0.0	0.0	6.3	18.8	18.8	31.3	37.5	50.0	31.3	31.3
82.5°	0.0	0.0	6.3	25.0	18.8	62.5	62.5	68.8	25.0	25.0
85°	0.0	0.0	18.8	12.5	37.5	62.5	56.3	37.5	31.3	18.8
87.5°	0.0	0.0	6.3	6.3	12.5	18.8	43.8	37.5	12.5	12.5
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°
18363.7	0°	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7	18363.7
18251.1	2.5°	18501.3	18420.0	18588.9	18570.1	18488.8	18451.3	18407.5	18370.0	18094.7
18263.6	5°	18507.6	18382.5	18588.9	18551.3	18538.8	18476.3	18438.8	18495.0	18244.9
18313.7	7.5°	18507.6	18382.5	18607.6	18620.1	18601.4	18551.3	18545.1	18582.6	18376.2
18401.2	10°	18632.6	18582.6	18770.2	18789.0	18764.0	18751.5	18720.2	18695.2	18476.3
18701.4	12.5°	18895.3	18795.3	19007.9	19064.2	19045.5	19076.7	19001.7	19039.2	18814.0
19007.9	15°	19214.3	19220.6	19383.2	19508.3	19495.8	19595.9	19483.3	19583.4	19420.7
19358.2	17.5°	19702.2	19771.0	20002.4	20190.1	20258.9	20333.9	20258.9	20290.1	20058.7
18970.4	20°	19189.3	19445.8	20559.1	20903.1	21046.9	21115.7	20990.7	21028.2	20796.8
18495.0	22.5°	18726.5	19058.0	20046.2	21122.0	21566.1	21703.7	21659.9	21653.7	21566.1
17556.8	25°	18044.7	18714.0	19158.0	20296.4	21691.2	21941.4	21966.4	21960.1	21828.8
16981.4	27.5°	17206.6	17356.7	18507.6	19201.8	20815.5	21766.2	21728.7	21547.3	21372.2
15786.8	30°	16137.0	16818.8	17337.9	18445.0	19683.4	21228.3	21228.3	21090.7	20909.3
15361.5	32.5°	15592.9	16474.8	16956.4	17356.7	18413.7	20627.9	20878.1	20734.2	20590.4
15030.0	35°	15305.2	15436.5	16562.4	16925.1	17819.5	19470.8	20484.0	20340.2	20233.8
14148.1	37.5°	14673.4	14979.9	15505.3	16474.8	16750.0	18526.3	19958.6	19883.6	19758.5
13003.4	40°	13266.1	14085.5	14892.4	15811.8	16099.5	17312.9	19320.7	19351.9	19183.1
11783.8	42.5°	12434.3	12990.9	14254.4	14873.6	15649.2	16531.1	18701.4	18751.5	18632.6
11164.6	45°	11458.5	12077.8	12965.9	14091.8	15148.8	15455.3	17606.9	18132.3	18032.2
9932.4	47.5°	10564.1	11064.5	12152.8	13291.2	14460.8	14417.0	16349.7	17337.9	17200.3
8988.0	50°	9294.4	10170.1	10683.0	11727.5	13472.5	13591.4	15011.2	16406.0	16293.4
7636.9	52.5°	7837.1	8937.9	9919.9	10876.9	12471.8	12753.3	13766.5	15455.3	15380.2
5835.6	55°	6848.9	7649.5	8756.5	9525.9	11258.4	12009.0	12834.6	14548.4	14510.8
4797.3	57.5°	4872.4	6417.3	7330.5	8406.3	9319.5	10676.7	11289.7	12703.2	12353.0
2658.2	60°	3302.5	4028.0	5141.3	6298.4	6911.4	8268.7	8837.8	9969.9	9876.1
1588.7	62.5°	1745.1	2414.3	3208.6	3790.3	4234.4	5554.1	5791.8	7011.5	6980.2
638.0	65°	769.3	1019.5	1738.8	2039.0	2495.6	3108.6	3315.0	3752.8	3646.5
312.7	67.5°	400.3	606.7	982.0	1207.2	1519.9	1751.3	1920.2	2057.8	2145.4
206.4	70°	243.9	444.1	606.7	838.1	1044.5	1232.2	1363.5	1551.2	1663.7
106.3	72.5°	181.4	281.5	419.1	644.2	756.8	975.7	1107.1	1244.7	1344.8
87.6	75°	100.1	187.6	337.8	506.6	606.7	794.3	913.2	1007.0	1038.3
50.0	77.5°	62.5	143.9	281.5	394.0	475.4	644.2	613.0	700.5	775.6
37.5	80°	43.8	106.3	218.9	325.2	331.5	412.8	487.9	562.9	613.0
25.0	82.5°	31.3	87.6	162.6	250.2	218.9	319.0	381.5	437.8	319.0
18.8	85°	25.0	62.5	81.3	150.1	125.1	225.2	193.9	187.6	125.1
12.5	87.5°	18.8	31.3	56.3	68.8	50.0	50.0	62.5	75.1	62.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
18363.7  
17907.1  
18032.2  
18138.5  
18294.9  
18613.9  
19151.8  
19858.6  
20634.1  
21284.6  
*21628.6*  
21234.6  
20840.5  
20471.5  
20083.7  
19633.4  
19145.5  
18620.1  
18044.7  
17300.4  
16312.2  
15430.3  
14554.6  
12315.4  
9882.4  
6986.5  
3602.7  
2145.4  
1670.0  
1363.5  
1019.5  
788.1  
619.2  
231.4  
125.1  
62.5  
0.0

(END OF REPORT)