

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: P638816

Luminaire Tested: **EPH-VN-03-E-935-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638816  
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-935-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (48) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13776.3 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

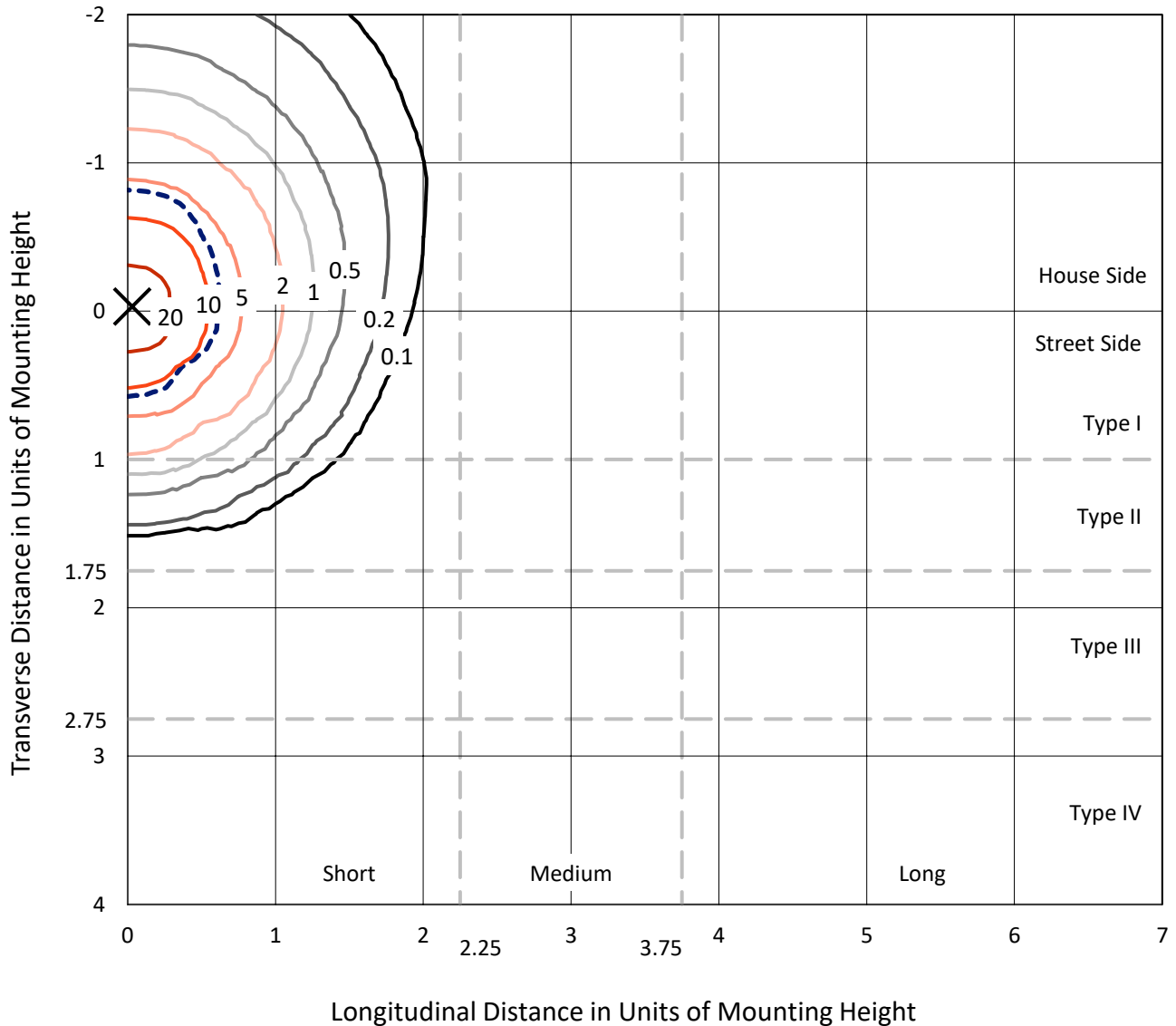
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

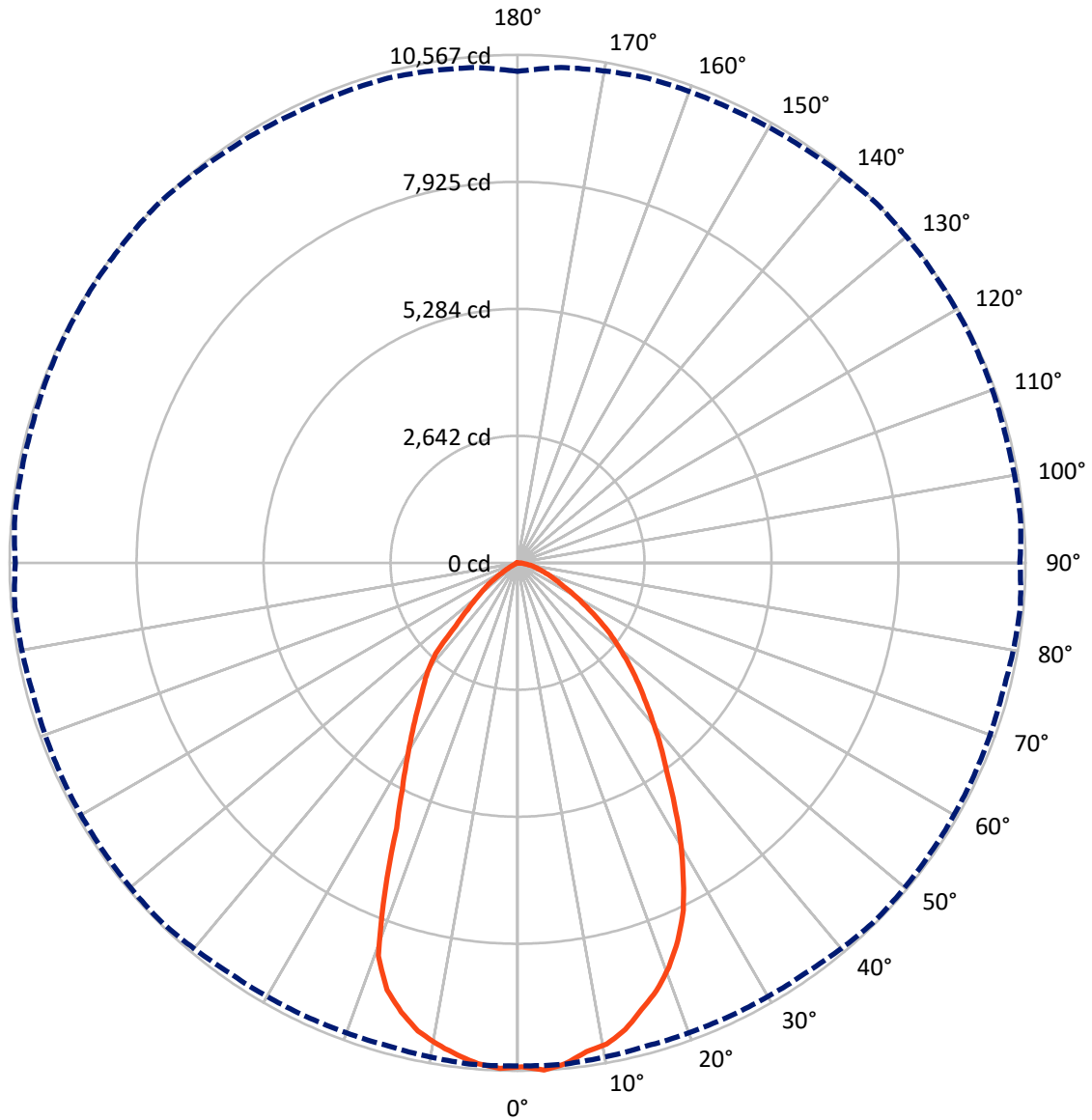
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.2 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	8159.1	0.0	8159.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5617.3	0.0	5617.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	13776.3	0.0	13776.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	983.2	7.1
10°-20°	2636.5	19.1
20°-30°	3215.4	23.3
30°-40°	2935.6	21.3
40°-50°	2121.5	15.4
50°-60°	1158.4	8.4
60°-70°	478.9	3.5
70°-80°	194.0	1.4
80°-90°	52.8	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°	13776.3	100.0
0°-180°	13776.3	100.0

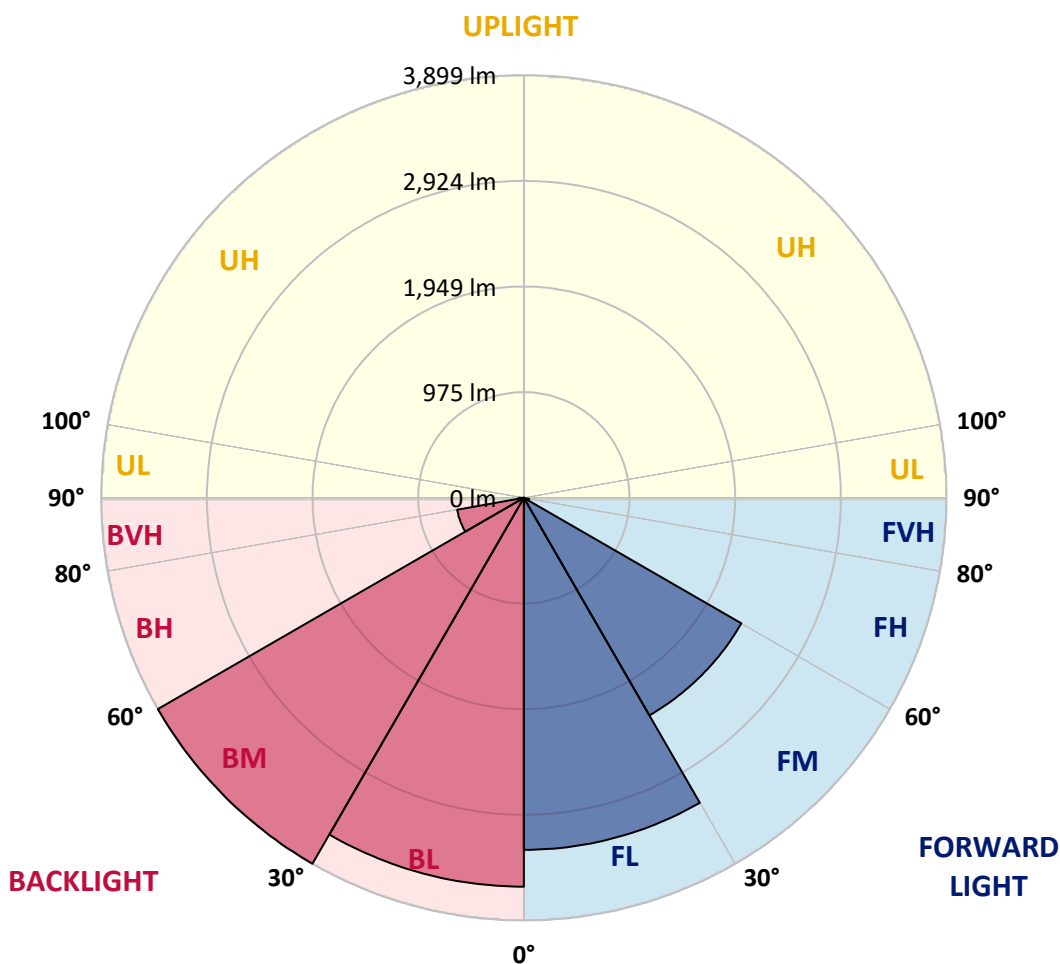


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3247.6	23.6			
FM (30°-60°)	2316.9	16.8			
FH (60°-80°)	48.5	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	3587.6	26.0	B4/5000		
BM (30°-60°)	3898.6	28.3	B3/5000		
BH (60°-80°)	624.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	48.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7
2.5°	10464.3	10477.9	10404.2	10412.0	10425.5	10524.5	10499.3	10476.0	10443.0	10499.3
5°	10450.8	10458.5	10380.9	10353.8	10365.4	10454.6	10373.2	10373.2	10365.4	10355.7
7.5°	10346.0	10349.9	10289.7	10241.2	10272.3	10313.0	10252.9	10282.0	10239.3	10272.3
10°	10188.9	10163.6	10091.9	10078.3	10113.2	10152.0	10111.3	10138.4	10099.6	10124.8
12.5°	9958.0	9919.2	9861.0	9843.5	9903.7	9956.1	9923.1	9907.6	9857.1	9919.2
15°	9067.5	9038.4	9170.4	9401.2	9608.8	9653.4	9618.5	9634.0	9529.3	9546.7
17.5°	7463.2	7408.8	7550.5	8097.5	8877.4	9288.7	9257.7	9156.8	9001.6	9036.5
20°	6782.2	6766.7	6751.2	6881.2	7426.3	8673.7	8716.4	8460.3	8239.2	8190.7
22.5°	6398.1	6392.3	6376.8	6405.9	6549.4	7350.6	7839.5	7602.8	7455.4	7441.8
25°	6047.0	6037.3	5990.7	6027.6	6027.6	6074.1	6700.7	6844.3	6714.3	6698.8
27.5°	5690.0	5672.5	5664.8	5682.2	5593.0	5278.7	5437.8	6138.1	6070.2	6074.1
30°	5303.9	5298.1	5276.8	5313.6	5038.2	4648.2	4547.4	5497.9	5511.5	5507.6
32.5°	4729.7	4754.9	4851.9	4892.7	4438.7	4116.7	3947.9	4756.9	5034.3	5028.5
35°	3435.7	3435.7	3752.0	4339.8	3889.7	3647.2	3556.0	4033.3	4562.9	4582.3
37.5°	2824.6	2834.3	2896.4	3164.1	3356.2	3270.8	3243.7	3395.0	3957.6	3988.6
40°	2541.4	2541.4	2541.4	2430.8	2425.0	2946.9	2931.3	2882.8	3418.3	3486.2
42.5°	2283.4	2289.2	2293.1	2013.7	1858.5	2547.2	2512.3	2438.6	2935.2	3014.8
45°	2017.6	2027.3	2038.9	1683.9	1616.0	1833.3	2126.2	2044.8	2458.0	2560.8
47.5°	1231.9	1247.4	1511.3	1427.8	1435.6	1414.3	1734.4	1720.8	2015.7	2161.2
50°	832.3	838.1	863.3	906.0	1231.9	1111.6	1228.0	1424.0	1530.7	1751.8
52.5°	698.4	708.1	646.0	587.8	809.0	869.1	857.5	1057.3	1100.0	1373.5
55°	490.8	521.9	492.8	486.9	459.8	675.1	649.9	812.9	840.0	1043.7
57.5°	50.4	58.2	100.9	362.8	300.7	382.2	463.7	595.6	622.7	770.2
60°	3.9	3.9	9.7	50.4	219.2	228.9	320.1	366.7	419.0	537.4
62.5°	0.0	1.9	3.9	7.8	34.9	122.2	161.0	192.1	252.2	347.3
65°	0.0	0.0	1.9	5.8	7.8	46.6	62.1	100.9	137.7	215.3
67.5°	0.0	0.0	1.9	3.9	5.8	11.6	21.3	36.9	73.7	122.2
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	23.3	33.0	66.0
72.5°	0.0	0.0	1.9	1.9	3.9	9.7	11.6	15.5	23.3	33.0
75°	0.0	0.0	1.9	1.9	5.8	11.6	9.7	11.6	15.5	21.3
77.5°	0.0	0.0	1.9	3.9	5.8	11.6	9.7	11.6	11.6	13.6
80°	0.0	0.0	1.9	3.9	7.8	13.6	11.6	11.6	9.7	9.7
82.5°	0.0	0.0	1.9	5.8	7.8	17.5	17.5	15.5	7.8	5.8
85°	0.0	0.0	3.9	7.8	11.6	19.4	19.4	15.5	5.8	3.9
87.5°	0.0	0.0	3.9	5.8	9.7	13.6	19.4	15.5	5.8	1.9
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°
10483.7	0°	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7	10483.7
10450.8	2.5°	10503.1	10491.5	10530.3	10545.8	10567.2	10485.7	10435.2	10437.2	10344.1
10332.4	5°	10394.5	10396.4	10446.9	10443.0	10464.3	10419.7	10400.3	10367.3	10285.9
10183.0	7.5°	10256.8	10239.3	10287.8	10324.7	10270.3	10301.4	10256.8	10272.3	10223.8
10051.1	10°	10150.1	10109.3	10153.9	10179.2	10181.1	10150.1	10107.4	10066.6	10049.2
9845.5	12.5°	9913.4	9861.0	9936.7	9971.6	9965.8	9905.6	9857.1	9866.8	9810.6
9484.6	15°	9587.5	9589.4	9643.7	9676.7	9645.7	9632.1	9636.0	9612.7	9564.2
8986.1	17.5°	9088.9	9118.0	9261.5	9341.1	9358.5	9331.4	9317.8	9290.6	9242.1
8190.7	20°	8258.6	8433.2	8689.2	8935.6	8984.1	8976.4	8927.9	8916.2	8889.1
7403.0	22.5°	7529.1	7659.1	7955.9	8340.0	8537.9	8557.3	8499.1	8481.7	8452.6
6698.8	25°	6774.5	6914.1	7181.9	7599.0	8008.3	8091.7	8082.0	8029.6	7998.6
6074.1	27.5°	6138.1	6277.8	6520.3	6896.7	7335.1	7602.8	7628.1	7544.6	7542.7
5517.3	30°	5563.9	5756.0	5940.3	6246.8	6671.6	7073.2	7115.9	7057.7	7063.5
5007.1	32.5°	5113.8	5272.9	5430.0	5635.7	5988.8	6456.3	6623.1	6568.8	6547.5
4582.3	35°	4654.1	4762.7	4923.7	5111.9	5352.4	5816.1	6105.2	6064.4	6043.1
4008.0	37.5°	4130.3	4316.5	4432.9	4644.4	4832.5	5201.1	5608.5	5602.7	5558.1
3519.2	40°	3592.9	3788.8	3965.4	4178.8	4324.3	4617.2	5069.2	5067.3	5073.1
3012.8	42.5°	3105.9	3286.4	3499.8	3732.6	3872.2	4085.6	4570.6	4597.8	4630.8
2595.7	45°	2665.6	2828.5	3026.4	3309.6	3478.4	3600.6	4031.3	4155.5	4153.5
2223.2	47.5°	2269.8	2423.1	2589.9	2865.4	3080.7	3191.3	3548.3	3724.8	3713.2
1823.6	50°	1905.1	2040.9	2215.5	2415.3	2704.4	2801.4	3067.1	3299.9	3282.5
1453.1	52.5°	1532.6	1720.8	1868.2	2050.6	2355.2	2450.2	2655.9	2882.8	2869.3
1090.3	55°	1195.0	1377.4	1555.9	1713.0	1969.1	2110.7	2258.2	2491.0	2487.1
853.6	57.5°	904.0	1103.9	1272.6	1422.0	1625.7	1800.3	1918.7	2130.1	2157.3
583.9	60°	669.3	822.6	1004.9	1171.8	1332.8	1513.2	1592.7	1800.3	1812.0
399.6	62.5°	455.9	624.7	803.2	954.5	1074.8	1261.0	1332.8	1503.5	1524.8
256.1	65°	316.2	424.9	628.6	737.2	884.6	1043.7	1115.5	1251.3	1294.0
147.4	67.5°	209.5	302.6	490.8	589.8	735.3	843.9	935.1	1045.7	1092.2
93.1	70°	114.5	223.1	351.1	465.6	591.7	696.5	785.7	874.9	915.7
42.7	72.5°	77.6	149.4	244.4	368.6	477.2	580.1	659.6	725.6	727.5
25.2	75°	38.8	100.9	186.2	285.2	372.5	473.4	545.1	583.9	537.4
15.5	77.5°	23.3	73.7	151.3	228.9	302.6	382.2	422.9	444.3	368.6
11.6	80°	13.6	52.4	118.3	182.4	209.5	281.3	320.1	325.9	246.4
7.8	82.5°	9.7	38.8	93.1	133.9	128.0	197.9	240.6	232.8	157.1
5.8	85°	5.8	27.2	58.2	83.4	77.6	130.0	139.7	143.6	91.2
3.9	87.5°	3.9	15.5	31.0	44.6	36.9	56.3	56.3	67.9	44.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
10483.7  
*10223.8*  
10266.5  
10142.3  
9971.6  
9762.1  
9515.7  
9220.8  
8827.0  
8444.8  
7965.6  
7538.8  
7034.4  
6549.4  
6014.0  
5594.9  
5073.1  
4613.3  
4157.4  
3717.0  
3298.0  
2898.4  
2496.8  
2145.6  
1829.4  
1528.7  
1284.3  
1086.4  
900.2  
710.0  
502.5  
355.0  
230.9  
145.5  
83.4  
38.8  
0.0

(END OF REPORT)