

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: P638819

Luminaire Tested: **EPH-VN-07-E-935-U-77-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638819  
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-935-U-77-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 7 distribution lens and Visor  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28831.9 lumens  
Efficiency: N/A  
Efficacy: 54.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

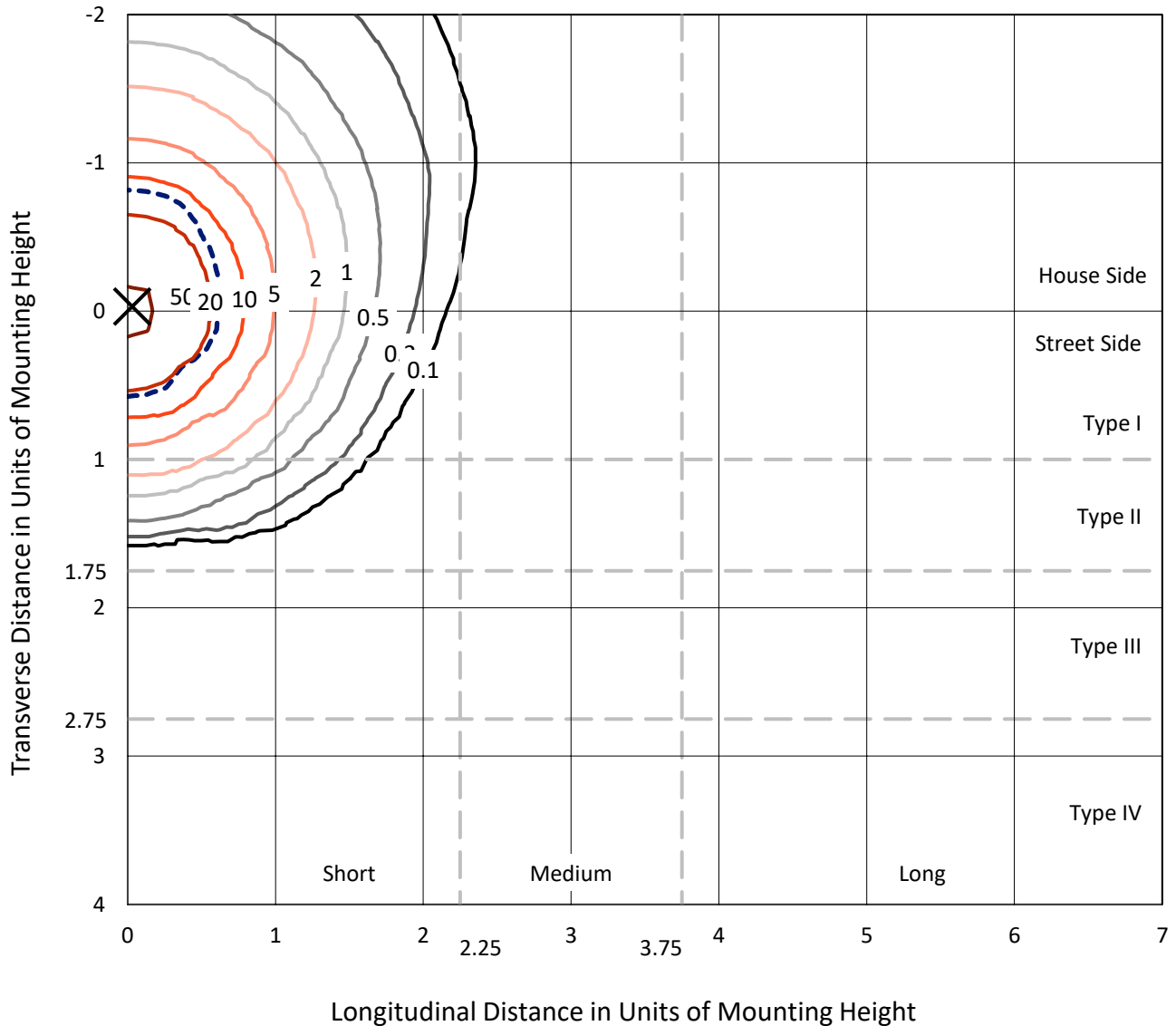
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

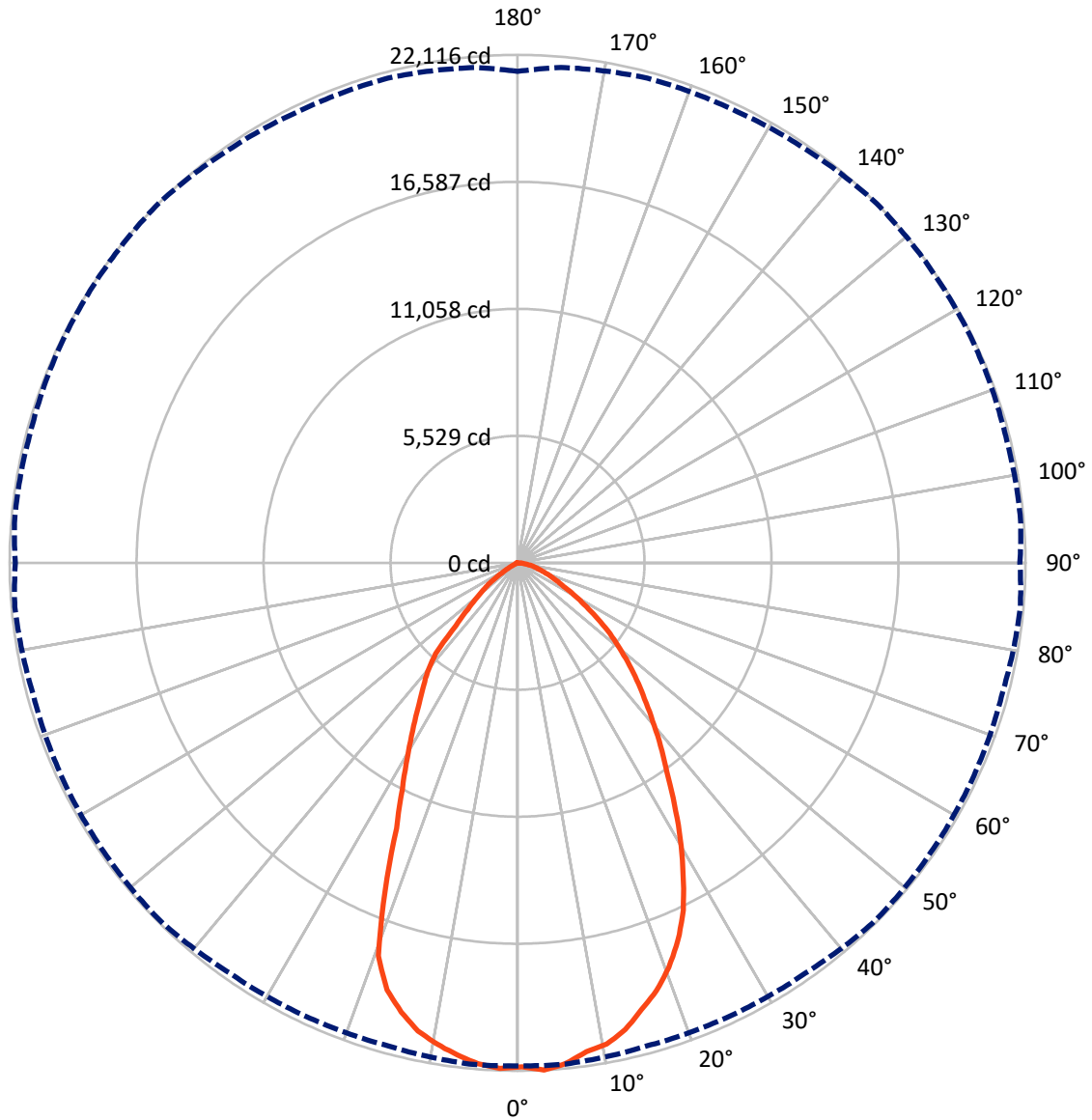
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.9 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	17075.7	0.0	17075.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11756.2	0.0	11756.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	28831.9	0.0	28831.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2057.7	7.1
10°-20°	5517.9	19.1
20°-30°	6729.4	23.3
30°-40°	6143.9	21.3
40°-50°	4440.0	15.4
50°-60°	2424.3	8.4
60°-70°	1002.4	3.5
70°-80°	406.0	1.4
80°-90°	110.4	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°	28831.9	100.0
0°-180°	28831.9	100.0

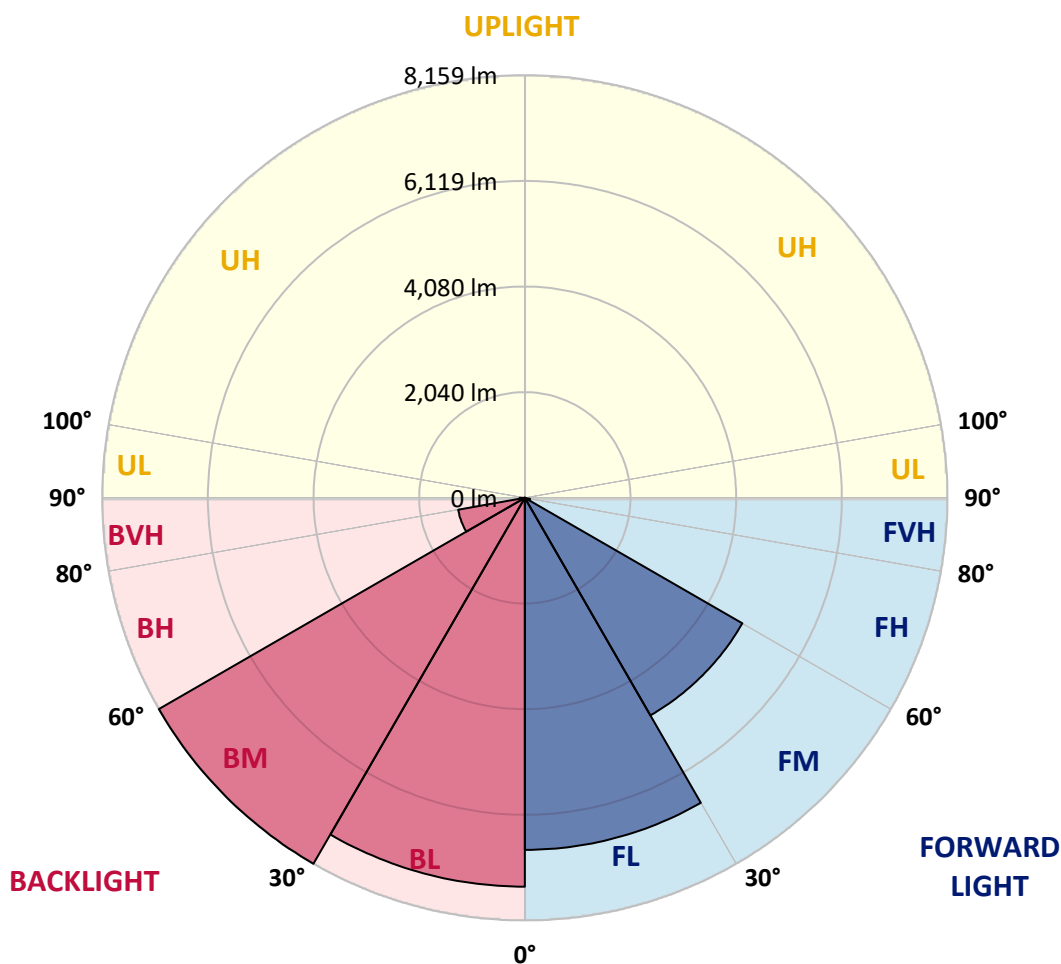


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6796.8	23.6			
FM (30°-60°)	4849.0	16.8			
FH (60°-80°)	101.6	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	7508.2	26.0	B5		
BM (30°-60°)	8159.2	28.3	B4/8500		
BH (60°-80°)	1306.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	101.6	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°	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0
2.5°	21900.4	21928.8	21774.5	21790.8	21819.2	22026.3	21973.5	21924.8	21855.7	21973.5
5°	21872.0	21888.2	21725.8	21669.0	21693.3	21880.1	21709.6	21709.6	21693.3	21673.0
7.5°	21652.7	21660.8	21535.0	21433.5	21498.4	21583.7	21457.8	21518.7	21429.4	21498.4
10°	21323.9	21271.1	21120.8	21092.4	21165.5	21246.7	21161.5	21218.3	21137.1	21189.9
12.5°	20840.7	20759.5	20637.7	20601.2	20727.0	20836.6	20767.6	20735.1	20629.6	20759.5
15°	18977.1	18916.2	19192.3	19675.4	20109.9	20203.3	20130.2	20162.7	19943.4	19980.0
17.5°	15619.4	15505.7	15802.1	16947.0	18579.2	19440.0	19375.0	19163.9	18839.1	18912.1
20°	14194.3	14161.8	14129.3	14401.3	15542.2	18152.9	18242.2	17706.3	17243.4	17141.9
22.5°	13390.3	13378.2	13345.7	13406.6	13707.0	15383.9	16407.0	15911.7	15603.1	15574.7
25°	12655.5	12635.2	12537.7	12614.9	12614.9	12712.3	14023.7	14324.2	14052.1	14019.7
27.5°	11908.4	11871.9	11855.6	11892.2	11705.4	11047.6	11380.6	12846.3	12704.2	12712.3
30°	11100.4	11088.2	11043.6	11120.7	10544.2	9728.1	9517.0	11506.4	11534.9	11526.7
32.5°	9898.6	9951.4	10154.4	10239.7	9289.6	8615.6	8262.4	9955.5	10536.1	10523.9
35°	7190.5	7190.5	7852.3	9082.5	8140.6	7633.1	7442.2	8441.0	9549.5	9590.1
37.5°	5911.6	5931.9	6061.8	6622.1	7024.0	6845.4	6788.6	7105.2	8282.7	8347.6
40°	5318.8	5318.8	5318.8	5087.4	5075.2	6167.4	6134.9	6033.4	7154.0	7296.1
42.5°	4778.8	4791.0	4799.1	4214.4	3889.6	5331.0	5257.9	5103.6	6143.0	6309.5
45°	4222.5	4242.8	4267.2	3524.2	3382.1	3836.8	4449.9	4279.4	5144.2	5359.4
47.5°	2578.2	2610.7	3162.8	2988.3	3004.5	2959.8	3629.8	3601.3	4218.5	4523.0
50°	1741.8	1754.0	1806.8	1896.1	2578.2	2326.5	2570.1	2980.1	3203.5	3666.3
52.5°	1461.7	1482.0	1352.0	1230.2	1693.1	1818.9	1794.6	2212.8	2302.1	2874.6
55°	1027.2	1092.2	1031.3	1019.1	962.3	1412.9	1360.1	1701.2	1758.0	2184.4
57.5°	105.6	121.8	211.1	759.2	629.3	799.8	970.4	1246.5	1303.3	1611.9
60°	8.1	8.1	20.3	105.6	458.8	479.1	669.9	767.4	877.0	1124.7
62.5°	0.0	4.1	8.1	16.2	73.1	255.8	337.0	402.0	527.8	726.8
65°	0.0	0.0	4.1	12.2	16.2	97.4	129.9	211.1	288.3	450.7
67.5°	0.0	0.0	4.1	8.1	12.2	24.4	44.7	77.1	154.3	255.8
70°	0.0	0.0	4.1	8.1	12.2	20.3	32.5	48.7	69.0	138.0
72.5°	0.0	0.0	4.1	4.1	8.1	20.3	24.4	32.5	48.7	69.0
75°	0.0	0.0	4.1	4.1	12.2	24.4	20.3	24.4	32.5	44.7
77.5°	0.0	0.0	4.1	8.1	12.2	24.4	20.3	24.4	24.4	28.4
80°	0.0	0.0	4.1	8.1	16.2	28.4	24.4	24.4	20.3	20.3
82.5°	0.0	0.0	4.1	12.2	16.2	36.5	36.5	32.5	16.2	12.2
85°	0.0	0.0	8.1	16.2	24.4	40.6	40.6	32.5	12.2	8.1
87.5°	0.0	0.0	8.1	12.2	20.3	28.4	40.6	32.5	12.2	4.1
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°
21941.0	0°	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0	21941.0
21872.0	2.5°	21981.6	21957.2	22038.4	22070.9	22115.6	21945.1	21839.5	21843.6	21648.7
21624.3	5°	21754.2	21758.3	21863.9	21855.7	21900.4	21807.0	21766.4	21697.4	21526.9
21311.7	7.5°	21466.0	21429.4	21530.9	21608.1	21494.4	21559.3	21466.0	21498.4	21396.9
21035.6	10°	21242.7	21157.4	21250.8	21303.6	21307.6	21242.7	21153.3	21068.1	21031.5
20605.2	12.5°	20747.3	20637.7	20796.0	20869.1	20856.9	20731.1	20629.6	20649.9	20532.1
19850.0	15°	20065.2	20069.3	20183.0	20252.0	20187.0	20158.6	20166.7	20118.0	20016.5
18806.6	17.5°	19021.8	19082.7	19383.1	19549.6	19586.1	19529.3	19500.9	19444.0	19342.5
17141.9	20°	17284.0	17649.4	18185.4	18701.0	18802.5	18786.3	18684.8	18660.4	18603.6
15493.5	22.5°	15757.4	16029.4	16650.6	17454.5	17868.7	17909.3	17787.5	17750.9	17690.0
14019.7	25°	14178.0	14470.3	15030.6	15903.6	16760.3	16934.8	16914.5	16804.9	16740.0
12712.3	27.5°	12846.3	13138.6	13646.1	14433.8	15351.4	15911.7	15964.5	15789.9	15785.8
11547.0	30°	11644.5	12046.4	12432.1	13073.7	13962.8	14803.3	14892.6	14770.8	14783.0
10479.2	32.5°	10702.5	11035.5	11364.3	11794.7	12533.7	13512.1	13861.3	13747.6	13703.0
9590.1	35°	9740.3	9967.6	10304.6	10698.5	11201.9	12172.3	12777.3	12692.0	12647.3
8388.2	37.5°	8644.0	9033.8	9277.4	9720.0	10113.8	10885.2	11737.9	11725.7	11632.3
7365.1	40°	7519.4	7929.5	8298.9	8745.5	9050.1	9663.1	10609.1	10605.1	10617.3
6305.4	42.5°	6500.3	6877.9	7324.5	7811.7	8104.0	8550.7	9565.7	9622.5	9691.6
5432.5	45°	5578.6	5919.7	6333.8	6926.6	7279.8	7535.6	8437.0	8696.8	8692.8
4652.9	47.5°	4750.4	5071.1	5420.3	5996.8	6447.5	6678.9	7426.0	7795.5	7771.1
3816.5	50°	3987.1	4271.3	4636.7	5054.9	5659.8	5862.8	6419.1	6906.3	6869.8
3041.0	52.5°	3207.5	3601.3	3909.9	4291.6	4929.0	5128.0	5558.3	6033.4	6004.9
2281.8	55°	2501.0	2882.7	3256.2	3585.1	4121.0	4417.4	4726.0	5213.2	5205.1
1786.5	57.5°	1892.0	2310.2	2663.5	2976.1	3402.4	3767.8	4015.5	4458.0	4514.9
1222.1	60°	1400.7	1721.5	2103.2	2452.3	2789.3	3166.9	3333.4	3767.8	3792.2
836.4	62.5°	954.1	1307.4	1680.9	1997.6	2249.3	2639.1	2789.3	3146.6	3191.3
535.9	65°	661.8	889.2	1315.5	1542.9	1851.4	2184.4	2334.6	2618.8	2708.1
308.6	67.5°	438.5	633.4	1027.2	1234.3	1538.8	1766.2	1957.0	2188.4	2285.9
194.9	70°	239.5	466.9	734.9	974.4	1238.3	1457.6	1644.4	1831.1	1916.4
89.3	72.5°	162.4	312.6	511.6	771.4	998.8	1214.0	1380.4	1518.5	1522.6
52.8	75°	81.2	211.1	389.8	596.8	779.5	990.7	1140.9	1222.1	1124.7
32.5	77.5°	48.7	154.3	316.7	479.1	633.4	799.8	885.1	929.8	771.4
24.4	80°	28.4	109.6	247.7	381.7	438.5	588.7	669.9	682.1	515.6
16.2	82.5°	20.3	81.2	194.9	280.1	268.0	414.1	503.5	487.2	328.9
12.2	85°	12.2	56.8	121.8	174.6	162.4	272.0	292.3	300.5	190.8
8.1	87.5°	8.1	32.5	65.0	93.4	77.1	117.7	117.7	142.1	93.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
21941.0
21396.9
21486.3
21226.4
20869.1
20430.6
19915.0
19297.8
18473.6
17673.8
16670.9
15777.7
14722.1
13707.0
12586.4
11709.4
10617.3
9655.0
8700.9
7779.2
6902.2
6065.8
5225.4
4490.5
3828.7
3199.4
2687.8
2273.7
1883.9
1486.0
1051.6
743.0
483.2
304.5
174.6
81.2
0.0

(END OF REPORT)