

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: P638659

Luminaire Tested: **EPH-VN-08-E-935-U-44-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638659  
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-935-U-44-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens and Visor  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43846.5 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

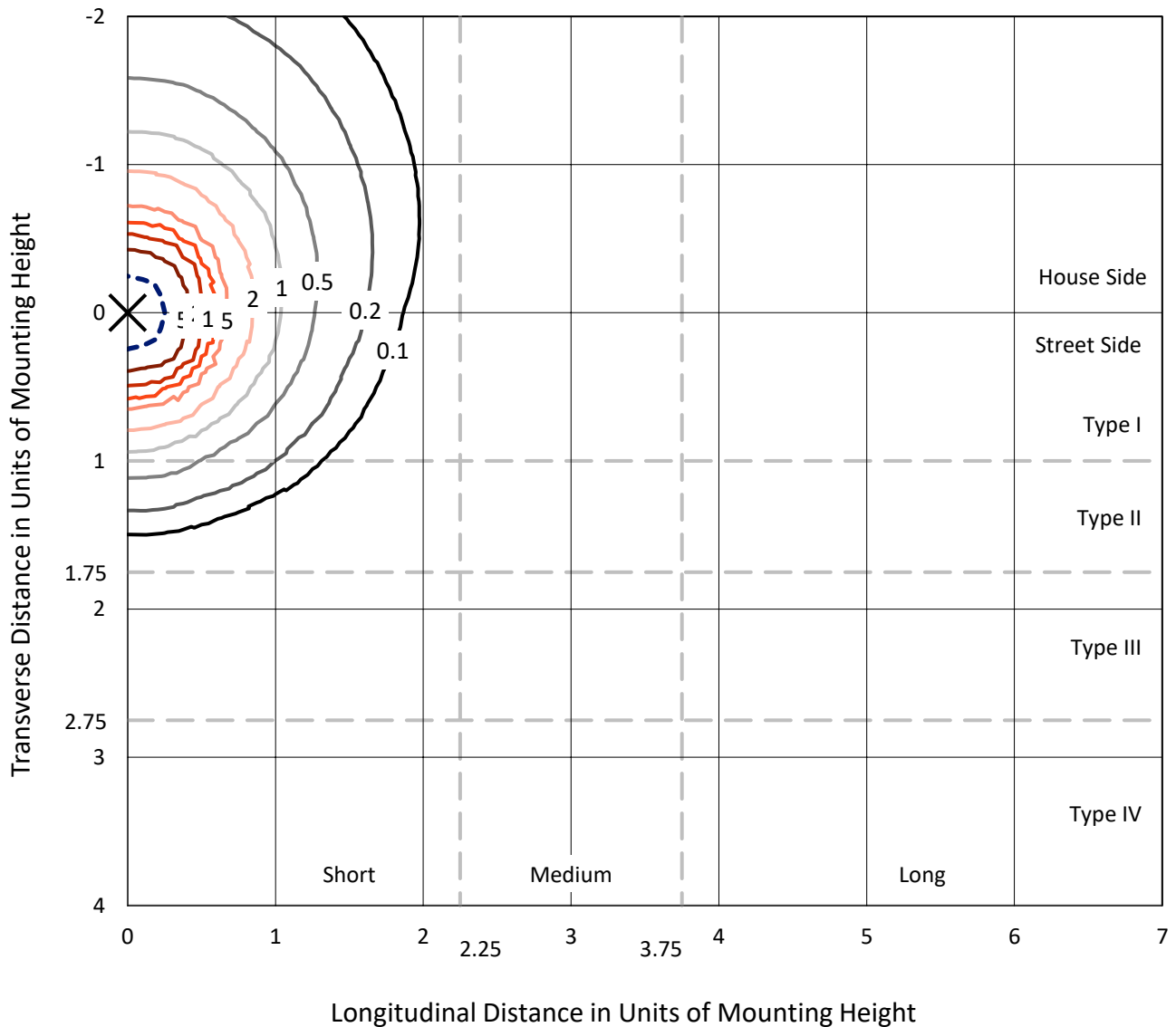
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

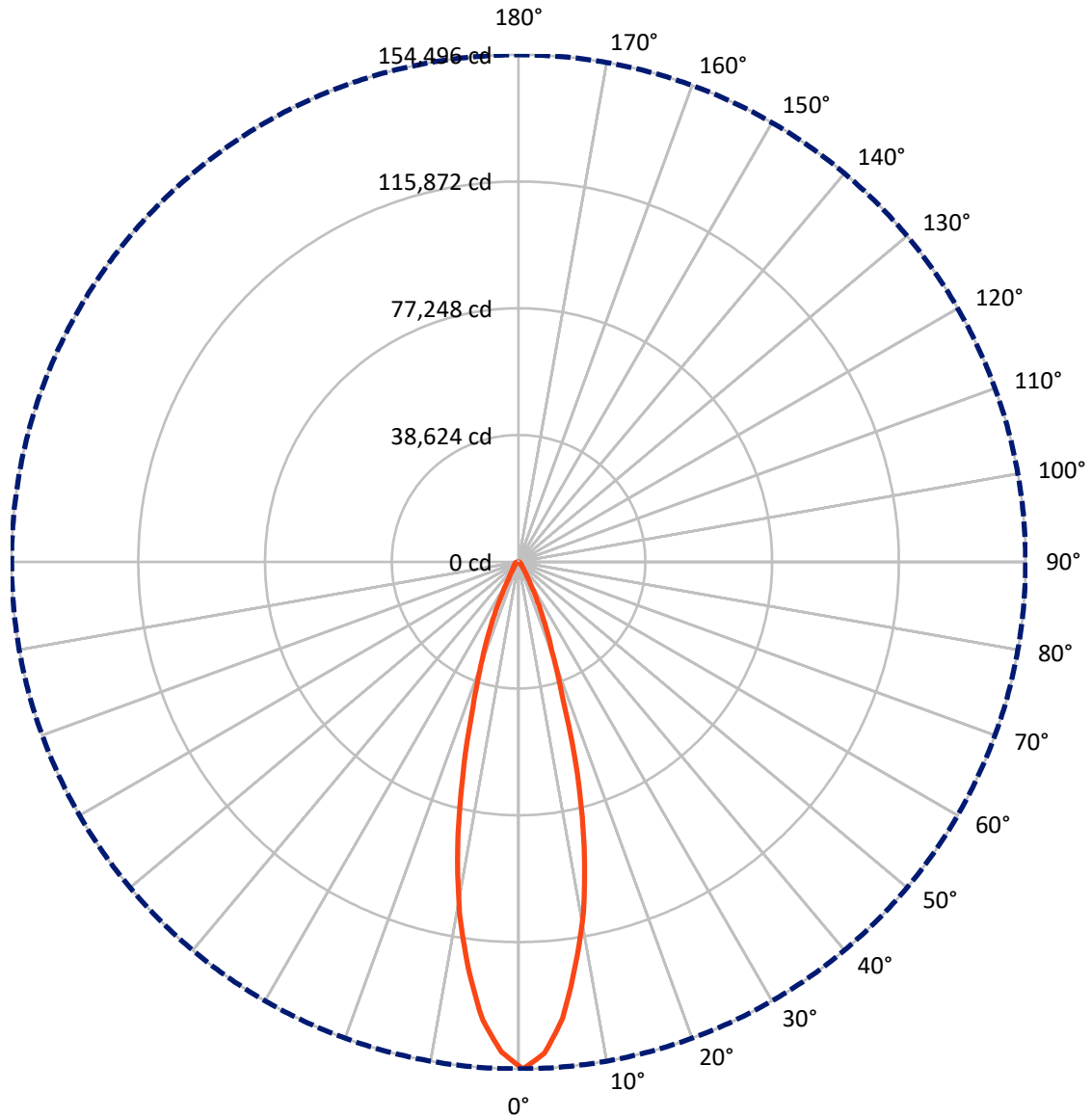
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 386.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23118.8	0.0	23118.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	20727.7	0.0	20727.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	43846.5	0.0	43846.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12469.2	28.4
10°-20°	18884.5	43.1
20°-30°	7969.4	18.2
30°-40°	2078.5	4.7
40°-50°	1051.3	2.4
50°-60°	687.1	1.6
60°-70°	411.7	0.9
70°-80°	216.6	0.5
80°-90°	78.2	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°	43846.5	100.0
0°-180°	43846.5	100.0

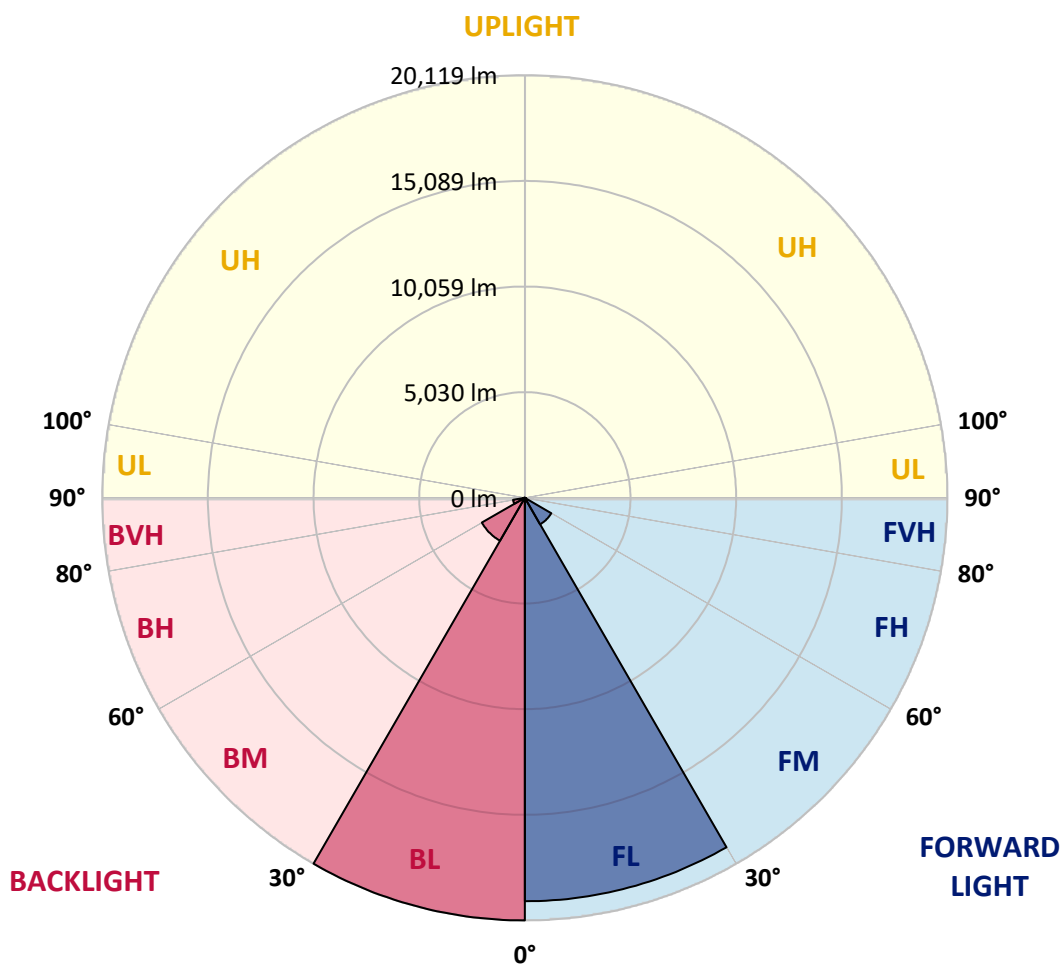


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19204.5	43.8			
FM (30°-60°)	1454.4	3.3			
FH (60°-80°)	59.3	0.1			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	20118.6	45.9	B5		
BM (30°-60°)	2362.5	5.4	B2/2500		
BH (60°-80°)	569.0	1.3	B2/1000		G0/660
BVH (80°-90°)	68.7	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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2
2.5°	149995.6	150079.4	149769.1	150438.8	149916.9	151315.3	150621.0	151704.3	151339.9	151945.6
5°	139753.7	139615.8	139527.2	140566.1	140265.8	141767.6	140807.4	140492.3	141467.2	141290.0
7.5°	124287.3	124651.7	124444.9	124715.7	124868.3	126581.9	127123.6	126700.1	126714.9	126961.1
10°	108432.0	107895.2	107132.0	107639.2	108712.6	109461.1	109160.7	109781.1	109643.3	110229.2
12.5°	88923.0	89346.4	88918.0	88465.0	90341.1	90134.3	90656.2	90996.0	90144.1	92039.9
15°	66981.5	67203.1	67725.0	67690.6	69133.3	69423.8	69354.9	69714.3	69049.6	69364.7
17.5°	43031.1	43779.5	45182.9	47556.2	50225.1	50535.3	50456.5	50161.0	49841.0	49486.5
20°	28904.0	28825.2	29332.4	30026.7	35551.5	37013.9	36969.6	36043.9	34704.5	34448.5
22.5°	20247.6	20395.3	20326.4	21015.7	22158.1	26190.9	25693.6	24753.1	24314.8	24029.2
25°	13319.5	13265.3	13610.0	13816.8	14796.7	15289.1	17032.2	16682.6	16008.0	16081.9
27.5°	8119.7	8188.7	8316.7	8493.9	9188.2	9030.7	10025.3	10158.3	9941.6	9710.2
30°	4983.1	5032.4	5135.8	5263.8	5505.1	5332.7	5608.5	6086.1	6007.3	5844.8
32.5°	3382.8	3387.7	3461.6	3510.8	3481.3	3318.8	3407.4	3860.4	3870.3	3855.5
35°	2432.5	2432.5	2501.4	2540.8	2457.1	2324.1	2338.9	2619.6	2742.7	2767.3
37.5°	1679.1	1684.0	1802.2	1920.4	1826.8	1792.3	1733.3	1920.4	2117.3	2146.9
40°	1275.3	1270.4	1329.5	1418.1	1428.0	1364.0	1383.7	1501.8	1703.7	1728.3
42.5°	1034.0	1039.0	1068.5	1058.7	1063.6	1147.3	1176.8	1231.0	1418.1	1462.4
45°	871.6	876.5	891.2	842.0	822.3	950.3	989.7	1019.3	1176.8	1231.0
47.5°	718.9	728.8	743.5	689.4	679.5	763.2	832.2	861.7	999.6	1058.7
50°	517.0	526.9	581.0	551.5	581.0	600.7	694.3	738.6	832.2	910.9
52.5°	374.2	384.1	398.8	403.8	477.6	487.5	556.4	625.4	669.7	758.3
55°	295.4	305.3	295.4	285.6	349.6	403.8	428.4	502.3	536.7	640.1
57.5°	167.4	177.3	192.0	221.6	231.4	310.2	334.8	398.8	428.4	526.9
60°	29.5	34.5	54.2	132.9	162.5	197.0	251.1	305.3	344.7	413.6
62.5°	4.9	4.9	9.8	29.5	93.6	137.9	182.2	216.7	251.1	315.1
65°	0.0	0.0	4.9	9.8	24.6	78.8	98.5	128.0	172.3	226.5
67.5°	0.0	0.0	4.9	9.8	14.8	29.5	44.3	78.8	98.5	152.6
70°	0.0	0.0	4.9	9.8	14.8	19.7	24.6	34.5	59.1	93.6
72.5°	0.0	0.0	4.9	9.8	14.8	19.7	24.6	29.5	29.5	59.1
75°	0.0	0.0	4.9	9.8	14.8	24.6	29.5	29.5	24.6	24.6
77.5°	0.0	0.0	4.9	9.8	19.7	29.5	34.5	29.5	19.7	19.7
80°	0.0	0.0	9.8	14.8	24.6	34.5	44.3	34.5	19.7	9.8
82.5°	0.0	0.0	9.8	19.7	24.6	39.4	54.2	44.3	19.7	9.8
85°	0.0	0.0	4.9	14.8	29.5	39.4	54.2	39.4	19.7	4.9
87.5°	0.0	0.0	4.9	4.9	9.8	14.8	29.5	24.6	9.8	4.9
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°
154496.2	0°	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2	154496.2
150798.3	2.5°	151664.9	152452.7	152615.2	152398.6	152713.7	152147.4	151714.1	150591.5	149916.9
141235.8	5°	142146.8	142028.6	142850.9	143121.7	143087.2	142653.9	142048.3	141368.8	140708.9
126483.4	7.5°	127271.3	127423.9	128172.4	128650.0	128408.7	127867.1	127448.5	126936.4	126493.3
110441.0	10°	111450.4	110401.6	111332.2	111332.2	111977.3	110445.9	110588.7	109298.6	109357.7
92005.4	12.5°	92320.5	92699.7	92852.3	93290.6	92537.2	91724.7	90730.1	90533.1	89917.6
68764.0	15°	69753.7	70837.0	69906.4	71496.8	70728.7	69881.8	69729.1	68202.7	68685.2
49875.4	17.5°	49629.2	50825.8	51200.0	52111.0	51411.7	50909.5	50274.3	49811.4	49777.0
34916.3	20°	35192.0	36393.5	36669.2	37762.3	37683.6	37526.0	36989.3	36403.3	35768.1
23768.3	22.5°	24127.7	25107.6	26023.5	27495.8	27471.1	27008.3	26954.1	26126.9	26141.6
16057.2	25°	16224.7	16938.6	17155.3	18662.1	18829.5	18780.2	18499.6	17731.4	18021.9
9808.7	27.5°	9818.5	10443.9	11177.5	11709.3	12211.6	12132.8	11852.1	11423.7	11236.6
5894.1	30°	6051.6	6332.3	6603.1	7243.2	7543.6	7701.2	7568.2	7169.4	7198.9
3880.1	32.5°	3963.8	4200.2	4397.2	4800.9	4958.5	5249.0	5194.8	5111.1	5012.7
2791.9	35°	2890.4	3062.7	3195.7	3382.8	3584.7	3830.9	3870.3	3835.8	3796.4
2156.7	37.5°	2206.0	2383.2	2535.9	2614.7	2772.2	2964.3	3072.6	3067.7	3038.1
1757.9	40°	1792.3	1925.3	2063.2	2166.6	2274.9	2417.7	2550.6	2565.4	2565.4
1477.2	42.5°	1496.9	1610.2	1748.0	1856.4	1935.1	2068.1	2206.0	2215.8	2206.0
1250.7	45°	1280.2	1378.7	1511.7	1639.7	1703.7	1802.2	1935.1	1964.7	1945.0
1073.4	47.5°	1112.8	1201.5	1314.7	1452.6	1521.5	1610.2	1733.3	1767.7	1762.8
925.7	50°	955.3	1058.7	1171.9	1285.2	1373.8	1457.5	1575.7	1615.1	1600.3
787.8	52.5°	842.0	935.6	1034.0	1157.1	1260.6	1334.4	1428.0	1496.9	1477.2
664.7	55°	704.1	817.4	920.8	1024.2	1152.2	1231.0	1319.6	1403.3	1383.7
561.3	57.5°	610.6	704.1	822.3	915.9	1043.9	1137.4	1226.1	1314.7	1309.8
457.9	60°	512.1	610.6	723.8	822.3	940.5	1043.9	1132.5	1231.0	1240.9
344.7	62.5°	403.8	521.9	620.4	733.7	851.9	965.1	1043.9	1142.4	1157.1
261.0	65°	305.3	428.4	536.7	645.0	763.2	886.3	955.3	1039.0	1053.7
192.0	67.5°	226.5	329.9	457.9	556.4	679.5	797.7	861.7	930.6	955.3
118.2	70°	172.3	251.1	384.1	477.6	605.7	699.2	768.1	827.2	846.9
78.8	72.5°	108.3	197.0	310.2	408.7	521.9	605.7	654.9	689.4	718.9
44.3	75°	73.9	152.6	251.1	349.6	433.3	497.3	541.6	571.2	595.8
19.7	77.5°	44.3	118.2	206.8	290.5	344.7	393.9	438.2	457.9	472.7
14.8	80°	24.6	88.6	172.3	236.4	270.8	305.3	339.8	364.4	374.2
9.8	82.5°	14.8	68.9	137.9	182.2	197.0	231.4	265.9	280.7	280.7
4.9	85°	9.8	49.2	93.6	132.9	142.8	167.4	177.3	187.1	197.0
4.9	87.5°	9.8	29.5	59.1	73.9	78.8	88.6	93.6	103.4	113.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
154496.2  
149419.5  
139970.3  
124991.4  
108781.6  
89356.3  
68202.7  
48861.1  
35492.4  
25856.1  
17564.0  
11074.1  
7070.9  
4978.2  
3781.7  
3023.4  
2535.9  
2196.1  
1945.0  
1753.0  
1590.5  
1472.3  
1393.5  
1314.7  
1245.8  
1167.0  
1068.5  
965.1  
856.8  
714.0  
590.9  
467.8  
364.4  
275.7  
192.0  
108.3  
0.0

(END OF REPORT)