

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: P638717

Luminaire Tested: **EPH-VN-07-E-940-U-55-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638717  
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-940-U-55-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens and Visor  
Light Source: (112) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38317.4 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

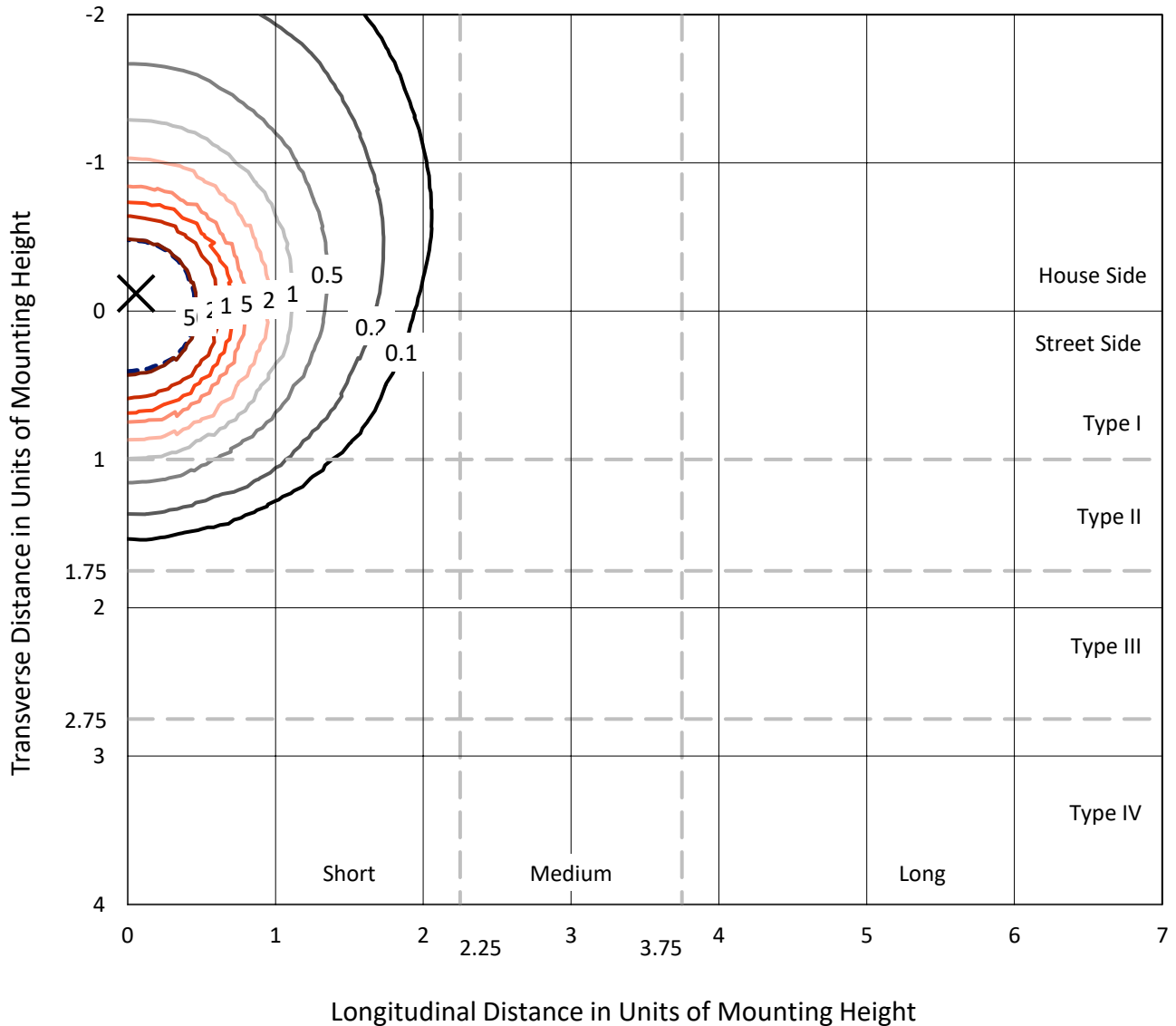
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

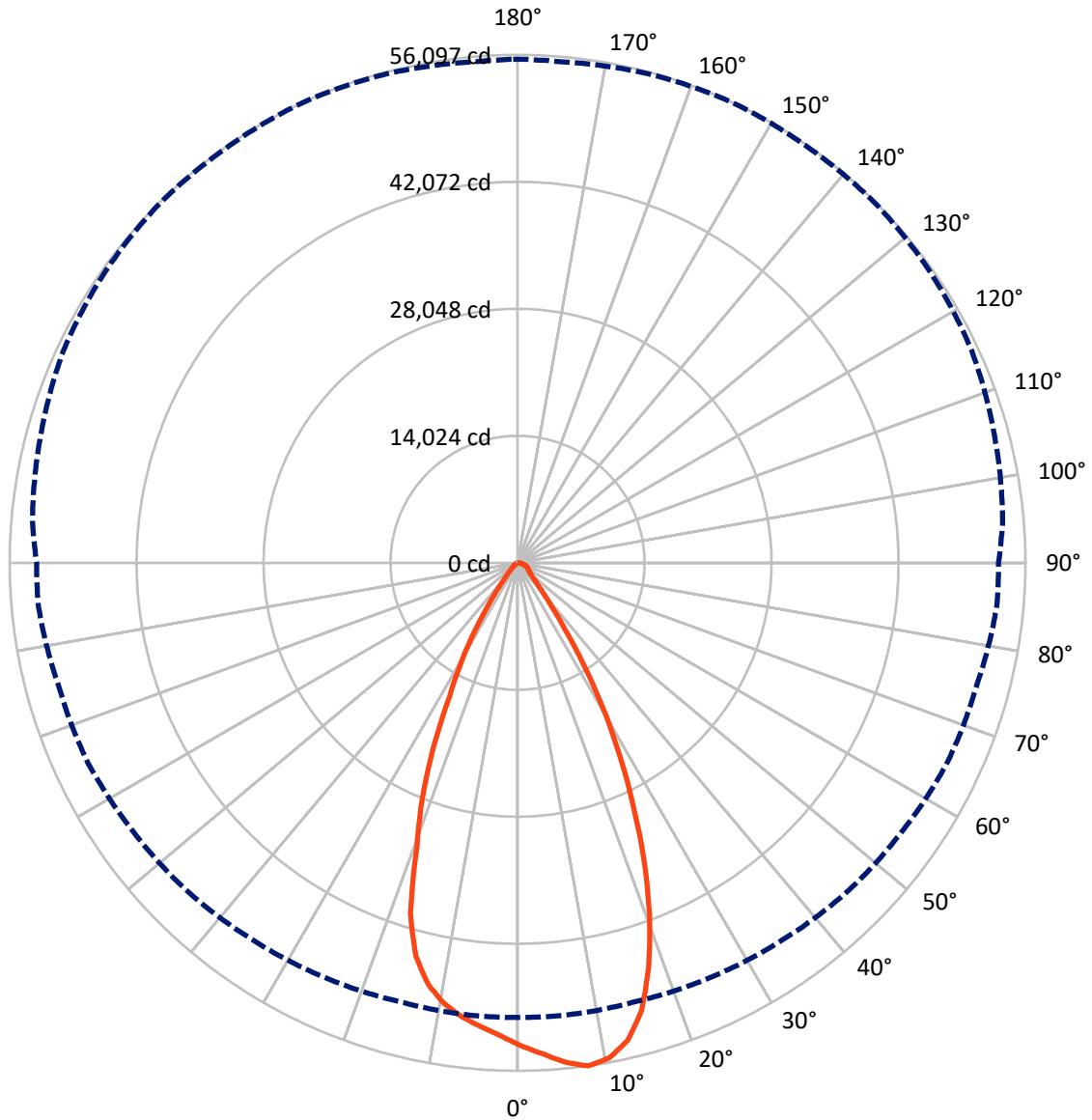
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 135.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral    - - - Horizontal Cone Through 7.5-Deg Vertical

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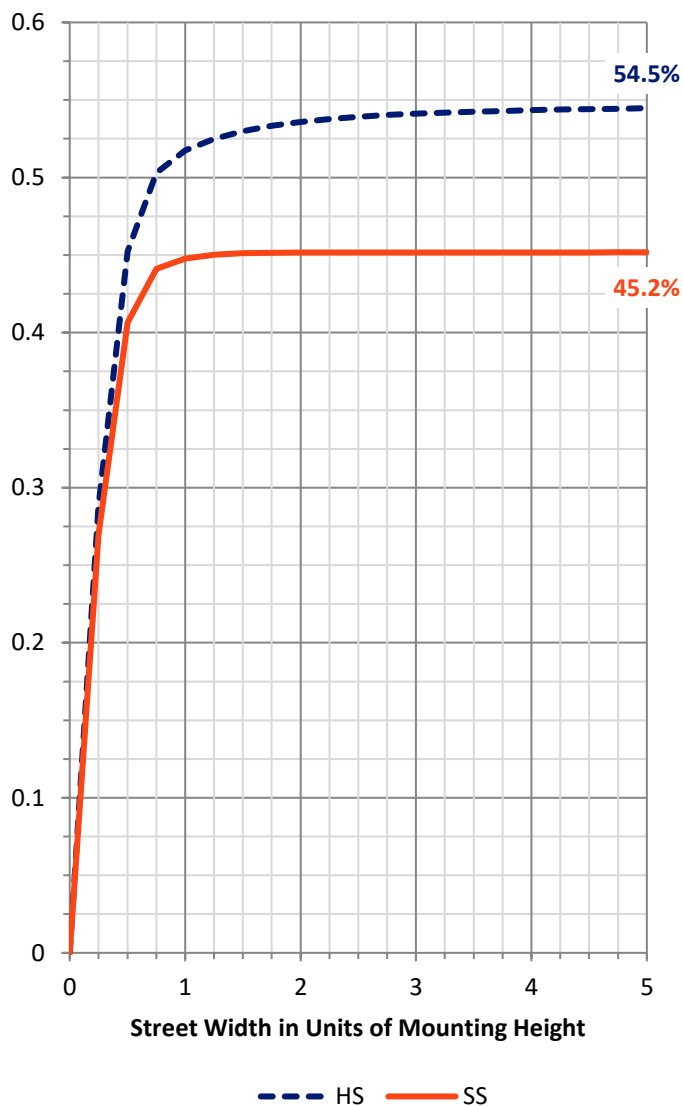
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21152.6	0.0	21152.6
	% Fixture	55.2	0.0	55.2
<b>Street Side</b>	Lumens	17164.8	0.0	17164.8
	% Fixture	44.8	0.0	44.8
<b>Total</b>	Lumens	38317.4	0.0	38317.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5090.1	13.3
10°-20°	13198.5	34.4
20°-30°	12093.5	31.6
30°-40°	4885.8	12.8
40°-50°	1433.3	3.7
50°-60°	801.4	2.1
60°-70°	486.7	1.3
70°-80°	247.3	0.6
80°-90°	80.9	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°	38317.4	100.0
0°-180°	38317.4	100.0

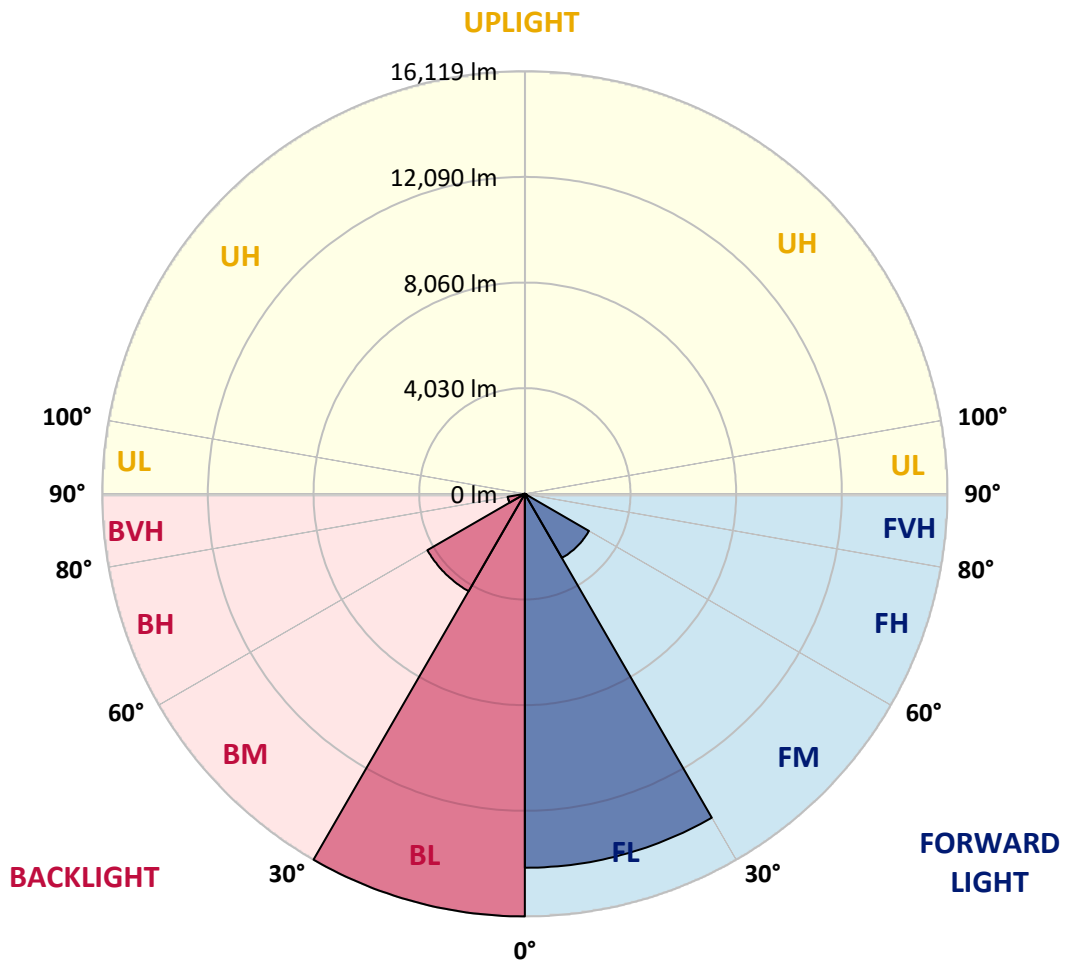


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14262.7	37.2			
FM (30°-60°)	2826.6	7.4			
FH (60°-80°)	68.5	0.2			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	16119.4	42.1	B5		
BM (30°-60°)	4293.8	11.2	B3/5000		
BH (60°-80°)	665.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	73.9	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-G2**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2
2.5°	52221.5	52398.3	52044.8	52279.0	52460.1	52893.1	52928.5	53078.7	53131.7	53525.0
5°	51231.8	51368.8	51081.6	51395.3	51651.6	52036.0	52332.0	52747.3	52977.1	53441.0
7.5°	50202.3	50233.2	50175.8	50507.2	50891.6	51421.8	51788.5	52332.0	52473.4	53136.1
10°	48956.3	48731.0	48841.4	49327.5	49901.9	50714.8	50966.7	51510.2	51762.0	52438.0
12.5°	46968.0	47082.9	46945.9	47564.5	48041.7	48965.1	49230.2	49778.1	50259.7	50856.2
15°	44166.7	44100.4	44378.8	44860.4	45377.4	46110.8	46539.4	47135.9	47502.6	48121.2
17.5°	37870.4	38095.8	39244.6	40450.8	41511.2	42368.4	42881.0	43375.8	43640.9	44312.5
20°	32705.3	32422.5	32577.2	33257.6	36275.4	37587.7	38126.7	38246.0	38356.5	38886.7
22.5°	26930.4	26837.6	27354.6	28118.9	28834.7	31861.4	32594.8	32316.5	32546.2	33045.5
25°	19997.9	20466.2	20925.7	22392.6	23320.5	24805.1	26196.9	26320.6	26404.6	26718.3
27.5°	16277.5	16114.0	16105.2	16516.1	17885.8	19123.0	20307.1	20581.1	20532.5	20832.9
30°	12795.8	12742.8	12557.2	12654.4	12517.4	13617.6	14174.4	15301.1	15239.2	15248.0
32.5°	9230.1	9031.3	8956.2	9102.0	8960.6	8859.0	9345.0	10617.5	10595.4	10683.8
35°	5584.9	5558.4	5620.3	5748.4	5465.6	5456.8	5558.4	6755.8	6901.6	7043.0
37.5°	3084.1	3057.6	3106.2	3578.9	3486.1	3402.2	3428.7	4060.5	4480.3	4586.3
40°	2032.5	2028.1	2063.4	2147.4	2306.4	2275.5	2288.8	2571.5	2969.2	3062.0
42.5°	1360.9	1365.3	1387.4	1484.6	1506.7	1665.8	1639.2	1705.5	2076.7	2156.2
45°	1086.9	1082.5	1095.8	1051.6	1078.1	1241.6	1259.3	1263.7	1581.8	1630.4
47.5°	857.2	857.2	870.4	813.0	799.7	901.4	994.1	1007.4	1263.7	1330.0
50°	600.9	600.9	667.2	640.7	671.6	702.5	804.2	817.4	1033.9	1104.6
52.5°	441.8	450.7	459.5	463.9	565.6	561.1	649.5	711.4	782.1	905.8
55°	335.8	344.6	322.5	344.6	419.8	468.4	486.0	574.4	623.0	760.0
57.5°	220.9	243.0	225.3	265.1	282.8	362.3	388.8	472.8	503.7	623.0
60°	30.9	35.3	57.4	185.6	198.8	238.6	300.5	375.6	406.5	508.1
62.5°	4.4	4.4	13.3	30.9	132.6	159.1	225.3	260.7	300.5	380.0
65°	0.0	0.0	4.4	8.8	26.5	92.8	114.9	141.4	207.7	273.9
67.5°	0.0	0.0	4.4	8.8	13.3	30.9	48.6	92.8	119.3	190.0
70°	0.0	0.0	4.4	8.8	13.3	17.7	26.5	35.3	70.7	110.5
72.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	26.5	30.9	70.7
75°	0.0	0.0	4.4	8.8	13.3	22.1	26.5	26.5	26.5	30.9
77.5°	0.0	0.0	4.4	8.8	17.7	26.5	30.9	26.5	22.1	22.1
80°	0.0	0.0	4.4	13.3	22.1	30.9	35.3	26.5	17.7	13.3
82.5°	0.0	0.0	4.4	13.3	22.1	30.9	35.3	30.9	17.7	13.3
85°	0.0	0.0	4.4	13.3	17.7	22.1	35.3	30.9	17.7	8.8
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	17.7	13.3	8.8	4.4
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°
53379.2	0°	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2	53379.2
53516.1	2.5°	53913.8	54112.6	54461.7	54558.9	54859.3	54514.7	54324.7	54342.4	53931.5
53383.6	5°	53913.8	54368.9	54978.6	55270.3	55491.2	55473.5	55424.9	55301.2	55000.7
53118.5	7.5°	53772.4	54514.7	55354.2	55743.0	56008.1	55986.0	56096.5	55897.7	55530.9
52645.7	10°	53317.3	53962.4	54996.3	55314.4	55743.0	55751.9	55614.9	55654.7	55000.7
50918.1	12.5°	51885.7	52389.4	53295.2	53657.5	54178.9	54262.9	54112.6	54055.2	53436.6
48085.9	15°	49115.4	49407.0	50317.2	50679.5	51196.5	51125.8	51276.0	51214.1	50670.7
44259.5	17.5°	45063.7	45156.4	46110.8	46415.7	46901.7	47091.7	46866.4	47153.6	46685.2
38979.5	20°	39253.4	39752.7	40826.4	41294.7	41577.5	41917.7	41621.7	41944.2	41396.4
32572.7	22.5°	33359.2	33655.3	34627.3	35303.3	35829.1	35895.4	35784.9	36010.3	35272.4
26926.0	25°	26921.5	27412.0	28180.8	29064.5	29581.4	29899.6	29612.4	29758.2	29638.9
20881.5	27.5°	21235.0	21672.4	22251.3	22909.6	23687.3	24102.6	23872.8	24120.3	23537.0
15570.6	30°	15583.8	15804.8	16458.7	17156.8	18009.6	18513.3	18535.4	18787.2	18442.6
10909.1	32.5°	10988.7	11183.1	11585.1	12049.1	12862.1	13423.2	13334.8	13370.2	13158.1
7109.3	35°	7144.6	7405.3	7692.5	7913.4	8403.9	9022.5	8973.8	8929.7	8783.9
4674.7	37.5°	4776.3	4878.0	5037.0	5235.9	5554.0	5942.8	6070.9	5911.9	5850.0
3154.8	40°	3229.9	3406.6	3512.7	3662.9	3813.1	4140.1	4228.4	4197.5	4135.7
2209.2	42.5°	2293.2	2430.1	2562.7	2708.5	2788.0	2991.3	3163.6	3115.0	3088.5
1679.0	45°	1740.9	1864.6	2019.2	2129.7	2209.2	2328.5	2492.0	2509.7	2469.9
1347.6	47.5°	1396.2	1506.7	1630.4	1767.4	1860.2	1935.3	2076.7	2129.7	2103.2
1135.5	50°	1184.1	1268.1	1387.4	1524.4	1626.0	1692.3	1816.0	1873.4	1855.7
950.0	52.5°	1007.4	1109.0	1219.5	1334.4	1458.1	1524.4	1639.2	1723.2	1709.9
786.5	55°	835.1	967.6	1082.5	1197.4	1338.8	1405.1	1506.7	1617.1	1595.1
667.2	57.5°	729.0	839.5	958.8	1069.3	1219.5	1307.9	1400.6	1515.5	1511.1
547.9	60°	609.7	720.2	852.8	945.5	1104.6	1228.3	1312.3	1431.6	1440.4
415.3	62.5°	486.0	623.0	724.6	852.8	998.6	1144.4	1223.9	1343.2	1387.4
318.1	65°	362.3	512.5	627.4	755.6	892.5	1056.0	1126.7	1246.0	1290.2
229.8	67.5°	269.5	384.4	530.2	640.7	795.3	936.7	1020.7	1131.1	1162.0
137.0	70°	203.2	296.0	441.8	539.0	698.1	813.0	896.9	980.9	1020.7
92.8	72.5°	119.3	220.9	349.1	463.9	600.9	698.1	760.0	826.2	852.8
44.2	75°	84.0	167.9	273.9	384.4	486.0	565.6	623.0	680.4	707.0
22.1	77.5°	44.2	123.7	216.5	309.3	380.0	446.3	503.7	547.9	565.6
17.7	80°	26.5	88.4	176.7	243.0	291.6	349.1	406.5	437.4	433.0
13.3	82.5°	17.7	70.7	128.1	176.7	212.1	256.3	296.0	318.1	318.1
8.8	85°	13.3	48.6	88.4	137.0	141.4	176.7	185.6	207.7	212.1
8.8	87.5°	8.8	30.9	48.6	79.5	75.1	92.8	97.2	110.5	119.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
53379.2  
53600.1  
55097.9  
55614.9  
54810.7  
53295.2  
50843.0  
46570.3  
41352.2  
35170.8  
29563.8  
23687.3  
18504.4  
13277.4  
8655.7  
5836.8  
4144.5  
3066.4  
2465.5  
2089.9  
1851.3  
1701.1  
1595.1  
1506.7  
1440.4  
1383.0  
1285.8  
1162.0  
1011.8  
843.9  
698.1  
561.1  
428.6  
313.7  
207.7  
114.9  
0.0

(END OF REPORT)